CITY OF ARCADIA

Arcadia Planning Commission
Regular Meeting Agenda

Tuesday, November 9, 2021, 7:00 p.m.
Location: City Council Chambers, 240 W. Huntington Drive, Arcadia

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from Planning Services at (626) 574-5423. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to assure accessibility to the meeting.

根据《美国残障人法案》的规定，需要提供残障相关调整或便利设施才能参加会议的残障人士（包括辅助器材或服务），可向规划服务部请求获得此类调整或便利设施，电话号码 (626) 574-5423。请在会前 48 小时通知规划服务部，以便作出合理安排，确保顺利参加会议。

Pursuant to the City of Arcadia's Language Access Services Policy, limited-English proficient speakers who require translation services in order to participate in a meeting may request the use of a volunteer or professional translator by contacting the City Clerk's Office at (626) 574-5455 at least 72 hours prior to the meeting.

根据阿凯迪亚市的语言便利服务政策，英语能力有限并需要翻译服务才能参加会议的人可与市书记官办公室联系（电话：626-574-5455），请求提供志愿或专业翻译服务，请至少在会前 72 小时提出请求。

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

Marilynne Wilander, Chair
Zi Lin, Vice Chair
Kenneth Chan, Commissioner
Brad Thompson, Commissioner
Vincent Tsoi, Commissioner

SUPPLEMENTAL INFORMATION FROM STAFF REGARDING AGENDA ITEMS

PUBLIC COMMENTS (5 minute time limit per person)

Each speaker is limited to five (5) minutes per person, unless waived by the Planning Commission. Under the Brown Act, the Commission or Board Members are prohibited from discussing or taking action on any item not listed on the posted agenda.

PUBLIC HEARING

All interested persons are invited to appear at a public hearing and to provide evidence or testimony concerning any of the proposed items set forth below for consideration. Separate and apart from the applicant (who may speak longer in the discretion of the Commission) speakers shall be limited to **five (5) minutes per person**. The applicant may additionally submit rebuttal comments, at the discretion of the Commission.

You are hereby advised that should you desire to legally challenge in court or in an administrative proceeding any action taken by the City Council regarding any public hearing item, you may be limited to raising only those issues and objections you or someone else raised at the public hearing or in written correspondence delivered to the City Council at, or prior to, the public hearing.

1. **Resolution No. 2084** – Approving a new private gated development with a Tentative Tract Map for 33 multi-family, detached residential units that includes a parking modification, and the removal and encroachment of protected trees at 2607 S. Santa Anita Avenue

Recommendation: Adopt Resolution No. 2084

There is a ten day appeal period after the adoption of the Resolution. If adopted, appeals are to be filed by 5:30 p.m. on Monday, November 22, 2021.

CONSENT CALENDAR

All matters listed under the Consent Calendar are considered to be routine and can be acted on by one roll call vote. There will be no separate discussion of these items unless members of the Commission, staff, or the public request that specific items be removed from the Consent Calendar for separate discussion and action.

2. Minutes of the October 12, 2021 Regular Meeting of the Planning Commission

Recommendation: Approve

MATTERS FROM CITY COUNCIL LIASION

MATTERS FROM PLANNING COMMISSIONERS

MATTERS FROM ASSISTANT CITY ATTORNEY

MATTERS FROM STAFF INCLUDING UPCOMING AGENDA ITEMS

ADJOURNMENT

The Planning Commission will adjourn this meeting to Tuesday, November 23, 2021, at 7:00 p.m.

Welcome to the Arcadia Planning Commission Meeting!

The Planning Commission encourages public participation, and invites you to share your views on City business.

MEETINGS: Regular Meetings of the Planning Commission are held on the second and fourth Tuesdays of each month at 7:00 p.m. in the City Council Chambers. A full Planning Commission agenda packet with all backup information is available at City Hall, the Arcadia Public Library, and on the City's website at www.ArcadiaCA.gov. Copies of individual Agenda Reports are available via email upon request (Planning@ArcadiaCA.gov). Documents distributed to a majority of the Planning Commission after the posting of this agenda will be available for review at the Planning Services Office in City Hall, 240 W. Huntington Drive, Arcadia, California.

CITIZEN PARTICIPATION: Your participation is welcomed and invited at all Planning Commission meetings. Time is reserved at each regular meeting for those in the audience who wish to address the Planning Commission. The City requests that persons addressing the Planning Commission refrain from making personal, slanderous, profane, or disruptive remarks. When the Chair asks for those who wish to speak please come to the podium and state your name and address for the record. Please provide a copy of any written materials used in your address to the Planning Commission as well as a copy of any printed materials you wish to be distributed to the Planning Commission.

MATTERS NOT ON THE AGENDA should be presented during the time designated as "PUBLIC COMMENTS." In general, each speaker will be given (5) minutes to address the Planning Commission; however, the Chair, at his/her discretion, may shorten the speaking time limit to allow all speakers time to address the Planning Commission. **By State law, the Planning Commission may not discuss or vote on items not on the agenda. The matter will automatically be referred to staff for appropriate action or response, or will be placed on the agenda of a future meeting.**

PUBLIC HEARINGS AND APPEALS are items scheduled for which public input is either required or desired. Separate and apart from an applicant or appellant (who may speak longer at the discretion of the Planning Commission), speakers shall be limited to (5) minutes per person. The Chair, at his/her discretion, may shorten the speaking time limit to allow all speakers to address the Planning Commission. The applicant or appellant may also be afforded an additional opportunity for rebuttal comments.

AGENDA ITEMS: The Agenda contains the regular order of business of the Planning Commission. Items on the Agenda have generally been reviewed and investigated by the City Staff in advance of the meeting so that the Planning Commission can be fully informed about a matter before making its decision.

CONSENT CALENDAR: Items listed on the Consent Calendar are considered to be routine by the Planning Commission and may be acted upon by one motion. There will be no separate discussion on these items unless a member of the Planning Commission, Staff, or the public so requests. In this event, the item will be removed from the Consent Calendar and considered and acted on separately.

DECORUM: While members of the public are free to level criticism of City policies and the action(s) or proposed action(s) of the Planning Commission or its members, members of the public may not engage in behavior that is disruptive to the orderly conduct of the proceedings, including, but not limited to, conduct that prevents other members of the audience from being heard when it is their opportunity to speak, or which prevents members of the audience from hearing or seeing the proceedings. Members of the public may not threaten any person with physical harm or act in a manner that may reasonably be interpreted as an imminent threat of physical harm. All persons attending the meeting are expected to adhere to the City's policy barring harassment based upon a person's race, religious creed, color, national origin, ancestry, physical handicap, medical condition, marital status, gender, sexual orientation, or age. The Chief of Police, or such member or members of the Police Department, may serve as the Sergeant-at-Arms of the Planning Commission meeting. The Sergeant-at-Arms shall carry out all orders and instructions given by the presiding official for the purpose of maintaining order and decorum at the meeting. Any person who violates the order and decorum of the meeting may be placed under arrest and such person may be prosecuted under the provisions of Penal Code Section 403 or applicable Arcadia Municipal Code section.

STAFF REPORT

Development Services Department

DATE: November 9, 2021

TO: Honorable Chairman and Planning Commission

FROM: Lisa L. Flores, Planning & Community Development Administrator
By: Edwin Arreola, Assistant Planner

SUBJECT: RESOLUTION NO. 2084 - APPROVING A NEW PRIVATE GATED DEVELOPMENT WITH A TENTATIVE TRACT MAP FOR A 33 MULTI-FAMILY DETACHED RESIDENTIAL UNITS THAT INCLUDES A PARKING MODIFICATION, AND THE REMOVAL AND ENCROACHMENT OF PROTECTED TREES AT 2607 S. SANTA ANITA AVENUE
Recommendation: Adopt Resolution No. 2084

SUMMARY

The Applicant, Santa Anita BERC, LLC, on behalf of the property owner, Arcadia Congregational Church, is requesting approval of Multiple Family Architectural Design Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02 for a new private gated development with 33, two-story, multi-family detached units on a 2.88 acre lot (referred to as "The Enclave on Santa Anita"). The proposed project will also include a parking modification to provide a different arrangement for the guest parking spaces, the removal of eight (8) protected trees, three (3) of which are Sycamore trees, and to allow the proposed development to encroach within the dripline of some of the protected trees.

The proposed development and subdivision are consistent with the City's General Plan, Development Code, and Subdivision Code. It is recommended that the Planning Commission find that the project is Categorically Exempt under the California Environmental Quality Act (CEQA) under Section 15332 as a Class 32 infill development and approve MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05 and TRE 21-02, subject to the conditions listed in this staff report, and adopt Resolution No. 2084 – refer to Attachment No. 1.

BACKGROUND

The subject property consists of two parcels totaling approximately 2.88 acres and is located on the west side of S. Santa Anita Avenue, between Live Oak Avenue and W. Woodruff Avenue. The property is zoned R-2, Medium Density Multiple Family Residential with a General Plan Land Use Designation of Medium Density Residential. The property is surrounded by single family homes on properties zoned R-1 to the north, west, and east, across S. Santa Anita Avenue, and a residential and commercial mixed use development exists to the south on property zoned MU, Mixed Use. The project site is currently vacant and is improved with a church building, a classroom building, and a detached garage– refer to Attachment No. 2 for an Aerial Photo with Zoning Information and Photos of the Subject Property and Vicinity.



Figure 1 - Aerial of Subject Site

A Certificate of Demolition (COD) for the subject property was approved on December 16, 2020. The property was improved by Prince Erik of Denmark and his wife in 1924. It was used as a chicken farm and home. In 1952, the land was sold to the Arcadia

Congregational Church and the church building was later constructed. Prince Erik Hall, the building that was originally used as the home of Prince Erik, was used as a meeting hall for the church. After much research, the Architectural Historian from Sapphos Environmental, Inc. determined that the church building does not exhibit a significant architectural Mid-Century Modern style and although Prince Erik was well known throughout the community, he was not associated with any significant events and did not make contributions to the development of the City. Based on the evaluation by the Architectural Historian, the property does not meet any of the minimum requirements for designation as a historical resource under federal, state and local criteria.

Earlier this year, in June, Prince Erik Hall was damaged by a major fire. As a result of the extensive fire damage, the building was demolished in October. The church remains, and the City is currently working with the property owner to address the homeless issue on-site. Given the homeless situation, the property owner will be given the option to either demolish the remaining buildings prior to construction or they will need to properly secure the site (more than it is today) and then demolish the buildings prior to issuance of a building permit.

PROPOSAL

The Applicant is proposing a private gated community with 33 two-story, detached multi-family units and each unit will have an attached two-car garage. The Applicant is also proposing to consolidate the two existing legal lots totaling 2.88 acres in size and subdivide the airspace for the sale of each residential condominium unit – refer to Attachment No. 3 for the Tentative Tract Map and Attachment No. 4 for the proposed Architectural Plans. The proposed development consists of the following unit sizes:

Number of Units	Square Feet	Bedrooms	Bathrooms
15	1,821	3 (4)*	2.5
10	1,980	3	2.5
8	2,123	4 (5)*	3

***Optional Bedroom**

The units will consist of two different architectural designs that will vary throughout the site; Cottage and Contemporary Farmhouse – as shown in Figure 2 below. The Cottage and Contemporary Farmhouse architectural styles are appropriate and the two different designs helps provide a variation between the designs of the homes and to prevent the development from having a singular design throughout the site, as it is common with typical tract home developments. The exterior walls for the homes will consist of four different color and material schemes and will be finished with off-white, grey, or beige stucco, horizontal wood siding, and brick. The articulation and use of contrasting earth tone colors and accent materials helps break up the walls of the homes and creates a cohesive overall design within the streetscape of the gated development. Furthermore,

the three homes adjacent to Santa Anita Avenue at the front of the property were designed to have a front facing look to them despite the rear and side of the homes abutting the public right-of way and the project will also have decorative landscaping along the front yard area to help further enhance the street scene of the development. Each unit will have its own private yard area on the property and a common open space area will be located at the rear of the site.



Figure 2 – Elevations for Three of the Proposed Designs

Access to the site will be provided off of Santa Anita Avenue through a singular driveway for ingress/egress and a pedestrian gate at the front of the property. The front of the property will have attractive ornamental plants and trees along Santa Anita Avenue to enhance the curb appeal and a 5'-0" high wall and gate to secure the site.



Figure 3 – Rendering of the street front

All of the proposed units will have an overall building height of 33'-0", which is the maximum allowed with a pitched roof. The project will provide the minimum front yard setback of 25'-0" which also meets the special setback from the centerline of Santa Anita Avenue of 55'-0". All the other minimum required setbacks in the R-2 zone will also be met including the minimum required setback of 20'-0" from the abutting single family zoned properties to the north and west. The 100 square feet of required open space per unit is satisfied through private yard areas for each home and an additional 4,400 square foot common open space is provided at the rear of the property for the entire 33-unit development.

In terms of parking, each unit will have a 20' x 20' two-car garage. Additionally, the Applicant is requesting a modification to provide a guest parking space for 20 of the 33 units on the private driveway leading into the garage for the units – refer to the *blue dots* on the site plan below. The spaces would be uncovered and will either be 10' x 19' or 10' x 20'. The remaining 13 units without a guest parking space on their driveways will be served by seven (7) 9' x 19' guest surface parking spaces adjacent to those units, which meets the minimum requirement for those 13 units (0.5 space for every unit) – refer to the *red dots* on the site plan below and in Attachment No. 4. Although the arrangement is a little untraditional, it would provide a more convenient form of parking for guests of the associated homes with guest parking on the driveway. Furthermore, it would not inconvenience any of the other units as they will still be provided with sufficient guest parking. Additionally, there will be a minimum of seven (7) bicycle parking spaces provided between a location at the front of the property by the pedestrian gate and at the rear, behind Unit 14. Based on the total number of parking spaces provided, the project meets the intent of the required parking per the Development Code.



Figure 4 – Site Plan

The proposal also includes the removal of eight (8) protected trees – refer to the *red circles* in Figure 5 below. Seven of the eight trees are in good health and one tree is in poor health and encroaching into the canopy of a Coast Live oak tree that is to remain, as noted in the Arborist Report (see Attachment No. 5 for the Arborist Report). However, they have to be removed since four of these trees are located along the southerly side yard area and their location interferes with required drainage improvements along the property line and the other three trees are located over the proposed easement area for Southern California Edison (SCE). The last three trees are Sycamore trees and they are located at or near the center of the property where Unit Nos. 20 and 21 are proposed.

In terms of encroachments, the dripline of four Coast Live Oak trees will be encroached upon, as shown below in *light orange*. A few of the units (unit nos. 1, 14, and 32) all encroach within the driplines of the oak trees, as well as the main driveway. However, the encroachments will not harm these trees, as later discussed in this staff report.

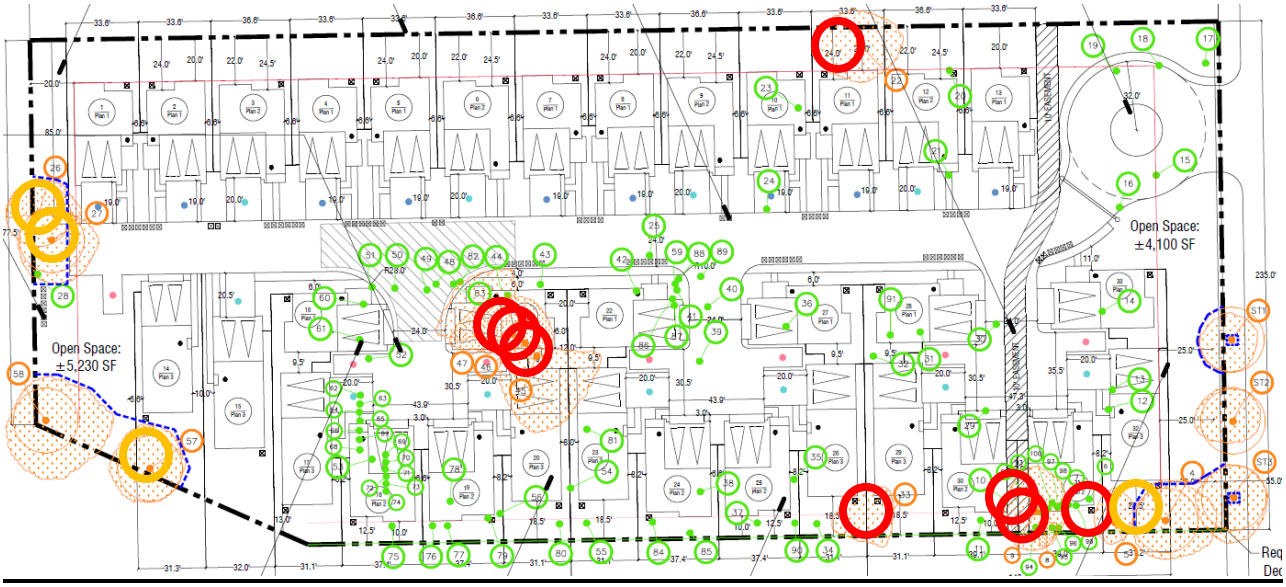


Figure 5 – Tree Site Plan O – Tree Removal O – Tree Encroachment

ANALYSIS

The R-2 zone has a maximum density of one unit per 3,750 square feet of lot area. This calculates to a maximum of 33 units for the subject site; therefore, the proposed 33-unit development complies with the density requirements of the underlying R-2 zone. The project will comply with the development standards of the R-2 Zone, including but not limited to setbacks, height, and open space.

The proposed multi-family development also requires approval of a tentative tract map to subdivide the airspace for the homes. The proposed development and subdivision of

condominiums will be consistent with the City's General Plan, Multiple-Family Residential Design Guidelines, the Development Code, the State Subdivision Map Act, and will not violate any requirements of the California Regional Water Quality Control Board.

Tree Removal

The removal of eight protected trees is warranted as five (5) of the trees are located either along the southerly property line where drainage for the site will need to be installed or will be in the path of a new underground electrical easement. The roots of these trees would need to be extensively cut to accommodate these improvements and would not be able to survive in their current location. The three (3) Sycamore trees at the center of the site have an extensive protected area which would make them difficult to preserve with any development. Furthermore, the Arborist report states that all of these trees are in mediocre health and would not thrive if they were to remain. Additionally, none of the trees would be suitable candidates for relocation.

As a result, the Applicant will be required to plant a minimum of 16 new 24-inch box trees for the removal of the protected trees. The Applicant intends to plant a total of 68 new trees with boxes that measure 24-inches or greater. Appropriate replacements proposed by the Applicant include five (5) 24-inch box Kurrajong trees and three (3) 36-inch box Camphor trees that will be planted in the front yard area of the site and eight (8) 24-inch box Columbia London Plane trees that will be planted along the main private drive, as shown on the landscape plans. A condition has been added to ensure that a Certified Arborist be on-site during construction, in order to monitor and ensure proper planting and care of all trees on the property. A follow-up Arborist report will also be required prior to issuance of a Certificate of Occupancy to confirm the planting of required replacement trees and the ongoing health of all trees on site.

Tree Encroachment

All five existing Coast Live Oak trees on site will remain. The proposed development, however, will encroach within the driplines of four of the five protected Coast Live Oak trees. The foundations for Units 14 and 32 will slightly encroach into the outer edges of the protected area for one tree each. These trees are expected to have no significant damage done to their root system (refer to the ***light orange*** circles in Figure 5 above). The driveway for Unit 1 will encroach within the dripline of one of the trees that are located at the rear of the site. The Certified Arborist determined the excavation for the driveway will not harm the tree as it is an acceptable distance from the critical root zone of the tree and would survive. The additional tree at the rear would be encroached by the main private drive for the development and, despite excavation taking place within the critical root zone, it will be monitored by a Certified Arborist to ensure impacts are minimized through careful excavation. All of the aforementioned trees being encroached upon are expected to survive as long as the Applicant adheres to the recommendations in the

Arborist Report during demolition and construction and a Certified Arborist will have to be on-site during grading to ensure all the trees are protected – refer to Condition No. 4.

FINDINGS

Tentative Tract Map

The proposed subdivision complies with the subdivision regulations of the Development Code, and the Subdivision Map Act, and the Regional Water Quality Control Board requirements. The following findings are the required for approval of the Tentative Tract Map:

A. The proposed map, subdivision design, and improvements are consistent with the General Plan, any applicable specific plan, and the Subdivisions Division of the Development Code.

Facts in Support of the Finding: The proposed development and tentative tract map for 33 multi-family detached units are in compliance with all of the provisions of the City's General Plan, Development Code, and the State Subdivision Map Act. The Medium Density Residential General Plan designation is intended to accommodate a variety of housing types and sizes and attached or detached housing types for both renter and owner households within a suburban neighborhood context. The R-2 zone is intended to provide areas for a variety of dwelling types, including detached multi-family units, and accessory uses compatible with the residential use of the property. The site is physically suitable for this type of development, and the approval of the architectural design for the building is compatible with the scale and character of the existing neighborhood. The proposal will not adversely affect the comprehensive General Plan and is consistent with the following General Plan goals and policies:

Land Use and Community Design Element

- Policy LU-1.1: Promote new infill and redevelopment projects that are consistent with the City's land use and compatible with surrounding existing uses.
- Policy LU-4.1: Require that new multi-family residential development be visually and functionally integrated and consistent in scale, mass, and character with structures in the surrounding neighborhood.
- Policy LU-4.3: Require the provision of adequate private and common open space for residential units. Require sufficient on-site recreational facilities to meet the daily needs of residents, if possible, commensurate with the size of the development.

B. The site is physically suitable for the type and proposed density of development.

Facts in Support of the Finding: The R-2 zone has a minimum of density of two units and a maximum density of one dwelling unit per 3,750 square feet of lot area. Based on the lot area of 2.88 acres, a maximum of 33 units are allowed on this site. The proposed 33-unit multi-family development complies with the density requirements and all other applicable zoning requirements, including but not limited to setbacks, height, and open space. Therefore, the site is physically suitable for the proposed 33-unit multi-family residential development.

C. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.

Facts in Support of the Finding: The proposed tentative tract map to subdivide the airspace for the 33 multi-family residential development is a subdivision of an infill site within an urbanized area and does not serve as a habitat for endangered or rare species. The project will not cause substantial environmental damage or impact wildlife.

D. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems.

Facts in Support of the Finding: The proposed subdivision will subdivide the airspace of the proposed multi-family development. The construction will be in compliance with all applicable Building and Fire Codes to ensure public health and safety. The proposed density will be below the maximum allowed by the R-2 zone and the City's existing infrastructure will adequately serve the new development. Therefore, the development will not cause any public health or safety problems.

E. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of, property within the proposed subdivision (This finding shall apply only to easements of record or to easements established by judgement of a court of competent jurisdiction and no authority is hereby granted to a legislative body to determine that the public at large has acquired easements for access through or use of property within the proposed subdivision).

Facts in Support of the Finding: The proposed design of the subdivision does not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. The project is maintaining a Southern California Edison easement for underground power utilities clear of any

construction. Therefore, the proposed subdivision will not conflict with any such easements.

F. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements specified by the California Regional Water Quality Control Board.

Facts in Support of the Finding: The Arcadia Public Works Services Department determined that the City's existing infrastructure will adequately serve the new development. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements specified by the California Regional Water Quality Control Board.

G. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities.

Facts in Support of the Finding: The proposed tentative tract map and 33-unit multi-family development have been reviewed by Building Services to ensure compliance with the California Building Code, which includes requirements associated with heating and cooling requirements.

H. The proposed subdivision, its design, density, and type of development and improvements conforms to the regulations of the City's Development Code and the regulations of any public agency having jurisdiction by law.

Facts in Support of the Finding: The proposed subdivision as conditioned complies with the density requirements of the City's Development Code, and all the improvements required for the site and each unit will comply with the regulations in the City's Development Code. The removal of the eight protected trees and the encroachments of four protected Coast Live oak trees are warranted in order to accommodate this development.

<u>Administrative Modification</u>

Section 9107.05.050 of the Arcadia Municipal Code requires that for an Administrative Modification to be granted, it is required that the Planning Commission make at least one of the following findings in order to approve the subject modification request:

1. Promote uniformity of development;
2. Prevent an unreasonable hardship; or
3. Secure an appropriate improvement of a parcel

Approval of the parking modification to provide a different arrangement for the guest parking spaces would secure an appropriate improvement for the multi-family development as more than adequate parking would still be provided for the site by allowing guests to park on the dedicated driveways of 20 of the proposed units and seven (7) parking spaces are provided for the 13 units that do not have parking on their dedicated driveways. Although the guest parking spaces located on the dedicated driveways will be for guests of the associated homes, the remaining 13 units will have guest parking provided in conformance to the Code at 0.5 spaces per unit. The 27 guest parking spaces being provided in this configuration will greatly surpass the 17 required spaces. This parking arrangement is similar to gated multi-family developments in other cities which allow guest parking on dedicated driveways to encourage single-family type, detached units. Although this is a multi-family development, the proposed detached units and private drives provide a single-family type character to the site and parking on the dedicated driveways of the units would be convenient for any guests of the associated homes and would not cause any inconveniences to any of the other units on site. Additionally, the proposed parking on the dedicated driveways will not interfere with access and circulation on the private drives. Therefore, approval of the parking modification would secure an appropriate improvement for the multi-family development.

Architectural Design

The proposed development is located within the Medium Density Residential (R-2) Zone, which is intended to accommodate varied housing types and sizes and attached or detached housing types for both renter and owner households within a suburban neighborhood context. The proposed massing, scale, design and landscaping are compatible with the other multi-family developments in the surrounding neighborhood. The proposed Traditional architecture styles of the development will be compatible with the existing single-family homes along Santa Anita Avenue and adjacent to the subject site. The articulation and incorporation of a variety of colors, finishes, and materials, including stucco, brick accent, and wood siding, help provide visual breaks in the massing of the proposed homes. Adequate landscaping is integrated throughout the site and an abundance of open space is being provided per unit. In addition, the project provides an enhanced streetscape scene that is compatible with the surrounding neighborhood. Therefore, the proposal is consistent with the City's Multifamily Residential Design Guidelines and all the applicable findings under a Site Plan and Design Review.

The proposed architecture styles of the development will also be compatible with the existing single-family homes along Santa Anita Avenue and adjacent to the subject site. The height and scale of the proposed homes are also compatible with the adjacent two-story homes to the south, west and north while a buffer exists between the single-story homes along the north side of the property in the form of rear yard areas and Santa Anita Avenue acts as a buffer between the single-story homes to the east. As all of the units in this multi-family development will be detached, the site will also serve as a transition along

Santa Anita Avenue between the single family properties to the north and the more dense Lennar development and commercial properties to the south of the site.

All City requirements regarding disabled access and facilities, occupancy limits, building safety, health code compliance, emergency equipment, environmental regulation compliance, and parking and site design shall be complied with by the property owner/applicant to the satisfaction of the Building Official, City Engineer, Planning & Community Development Administrator, Fire Marshal, and Public Works Services Director, or their respective designees.

ENVIRONMENTAL ASSESSMENT

Pursuant to the provisions of the California Environmental Quality Act (CEQA), the City has determined that the project is Categorically Exempt under CEQA Section 15332, Class 32, "In-Fill Development Projects" – refer to Attachment No. 6. The project would not result in significant impacts to traffic, noise, air quality, or water quality.

A vehicle miles traveled (VMT) analysis was also conducted to determine whether the proposed project would create a significant transportation impact under SB 742, which requires VMT to be the primary metric for impact assessment. The proposed project would not be screen out based on being located in a low VMT area using the San Gabriel Valley Council of Governments (SGVCOG) VMT Evaluation tool, however, by using the VMT reduction measures in the tool, including Tier 2 Multimodal Infrastructure and Tier 4 Transportation Demand Management (TDM) Programs, the Project's VMT does pass the low VMT screening analysis, and the impacts would be less than significant. With the City-mandated VMT reduction measures discussed in Appendix A of the Memo to the Categorical Exemption (refer to Attachment No. 6), the proposed Project would have a less than significant impact to traffic/transportation. As such, the following Project Design Features (PDFs) has been made as conditions of approval for the proposed project:

- **PDF-TRA-1 Bus Stop Design and Relocation:** The Applicant shall coordinate with the City and Metropolitan Transportation Authority (Metro) to ensure that a new bus stop for Metro Route 287 is located a maximum of 150 feet from the project site, on Santa Anita Avenue, north of Live Oak Avenue. The plans for the location and design of the bus stop shall be prepared to the satisfaction of Metro and shall be reviewed and approved by the City's Deputy Development Services Director/City Engineer prior to issuance of a building permit from Building Services. The new bus stop shall be constructed and operational prior to the issuance of a certificate of occupancy for the Project.

- **PDF-TRA-2 Preparation of Transportation Demand Management Plan:** The Applicant shall submit a Transportation Demand Management Plan (TDM Plan) to Planning Services. The TDM Plan will specify how the required VMT reduction measure (TP01- School Pool Program) will be implemented and managed. The

TDM Plan will be approved by the City prior to issuance of a certificate of occupancy from Building Services. The TDM Plan shall include the following:

School Pool Program, managed and implemented by the Project's Homeowner's Association (HOA) to match families in carpools for school pick-up and drop-off to nearby elementary, middle and high schools. The target participation from households for this program is 50% of Project residents.

- **PDF-TRA-3 Implementation of Transportation Demand Management Plan:** Prior to the issuance of a certificate of occupancy, the Applicant/Property Owner will record a Covenant on the property for the owner to implement and maintain the TDM Plan for the VMT Reduction Strategy as specified in PDF-TRA-2.

By including the Project Design Features (PDF-1, PDF-2, and PDF-3), the proposed Project's VMT per service population would be 30.13, which is 17.1% below the baseline VMT of 35.46 (Appendix A). Therefore, the Project would qualify as a residential project located within a low VMT-generating area and would therefore have a less than significant impact per the SGVAOG and City of Arcadia screening thresholds. No significant transportation impacts would occur from implementation of the proposed Project, and no mitigation is required. Therefore this project meets the requirements of a categorical exemption under State CEQA Guidelines Section 15332, Class 32.

PUBLIC NOTICE/COMMENTS

A public hearing notice for this item was published in Arcadia Weekly and mailed to the property owners located within 300 feet of the subject property on October 28, 2021. As of November 4, 2021, the City has received one comment letter, a letter of support from the property owner, Arcadia Congregational Church.

The Applicant was not required to notify any tenants of the proposed project as the property has been vacant.

RECOMMENDATION

It is recommended that the Planning Commission approve Multiple Family Architectural Design Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Diseased/Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02, subject to the following conditions, find that the project is Categorically Exempt from the California Environmental Quality Act (CEQA), and adopt Resolution No. 2084, subject to the following conditions of approval:

1. The project shall be developed and maintained by the Applicant/Property Owner in a manner that is consistent with the plans submitted and conditionally approved for MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02, subject to the approval of the Planning & Community Development Administrator or designee.
2. All windows shall be recessed a minimum of two (2) inches from the building wall. A construction detail indicating the 2-inch recess shall be included on the plans submitted to the Building Division for plan check.
3. Any required mechanical equipment, such as backflow devices and transformers, visible from the public right-of-way shall be screened from public view. Screening may include landscaping, solid walls or other methods deemed appropriate for the development. The placement and height of said screening shall be subject to review and approval by the Planning & Community Development Administrator, or designee.
4. A minimum of 16 24-inch box trees shall be planted on the subject property as replacement trees for the removal of the eight (8) protected trees. The trees shall be shown on the final landscape plan that is submitted to Building Services for plan check, subject to review and approval by the Planning & Community Development Administrator or designee, to ensure compliance with this condition. The project shall be developed and maintained in compliance with all of the recommended tree protection measures listed in the Arborist Report, dated August 25, 2021. During construction, a Certified Arborist shall be on-site to monitor and ensure proper placement of the trees as well as any other trees that are proposed to be protected under this approval, and a follow-up report shall be submitted to the City prior to issuance of a Certificate of Occupancy from Building Services.
5. During all project site construction, all construction-related activities, including maintenance of construction equipment and the staging of haul trucks, shall not take place between the hours of 6:00 p.m. and 7:00 a.m., Monday through Friday, between 5:00 p.m. and 8:00 a.m. on Saturday or at any time on Sundays and holidays specified in the City's Municipal Code.
6. At least two weeks prior to the proposed start of construction activity, the applicant shall post at least two signs or banners that include a brief description of the project, the anticipated construction schedule, the City's limits on the hours of construction, a contact name, phone, and email of a representative of the applicant/property owner that the public can contact with any questions, concerns, or complaints about construction activity related to the project. If there are any substantive changes in the project schedule or scope of work, or changes in the contact name or information, the applicant/property owner shall immediately provide an updated notice in the manner described above.

7. The Applicant/Property Owner shall submit a haul route map and staging plan to Planning Services prior to issuance of a demolition and a grading permit.

8. The applicant shall be responsible for the repair of all damage to public improvements in the public right-of-way resulting from construction-related activities, including, but not limited to, the movement and/or delivery of equipment, materials, and soils to and/or from the site.

9. Stationary construction noise sources, such as generators or pumps, should be located at least 100 feet from sensitive land uses, to the maximum extent feasible.

10. Construction staging areas should be located as far from noise-sensitive land uses to the maximum extent feasible.

11. During construction, the contractor shall ensure all construction equipment is equipped with appropriate noise-attenuating devices. Idling equipment shall be turned off when not in use.

12. Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

13. The project shall comply with the latest adopted edition of the following codes as applicable:
    a. California Building Code
    b. California Electrical Code
    c. California Mechanical Code
    d. California Plumbing Code
    e. California Energy Code
    f. California Fire Code
    g. California Green Building Standards Code
    h. California Existing Building Code
    i. Arcadia Municipal Code

14. All utility conductors, cables, conduits and wiring supplying electrical, cable and telephone service to a multiple family building shall be installed underground except risers which are adjacent to and attached to a building.

15. Grading plans shall be submitted to, and approved by Engineering, Planning and Building Services. The grading plans shall indicate all site improvements, and shall indicate complete drainage paths of all drainage water run-off.

16. A demolition permit shall be obtained from Building Services prior to the removal and/or demolition of the structures on site.

17. The Applicant/Property Owner shall be required to pay the following fees prior to approval of the Final Tract Map:

a. Map Fee	$100.00
b. Final Approval Fee (1 lot @ $25.00 ea.)	$ 25.00

TOTAL $125.00

18. As part of the Final Tract Map, the Applicant/Property Owner shall provide a 2'-0" dedication along the Santa Anita Avenue frontage for a total parkway width of 10'-0".

19. Prior to approval of the Final Tract Map, the Applicant/Property Owner shall either construct or post security for all public improvements as shown on the Tentative Map and the following required items;

    a. Remove and replace the existing curb, gutter and sidewalk from property line to property line, including additional sidewalk to provide adequate clearance around all obstacles, and additional sidewalk width at the bus stop.

    b. Coordinate with Public Works Services on the installation of new street trees.

    c. Completely remove and replace the drive approach per City Standard plan.

20. Prior to Certificate of Occupancy for the last five (5) units, the Applicant/Property Owner shall repair any damage caused by the development to the asphalt street frontages from property line to property line, including but not limited to trench cuts and construction traffic, per the direction of the Deputy Development Services Director/City Engineer.

21. The proposed development requires a Low Impact Development (LID) plan which shall comply with the Los Angeles County Department of Public Works 2014 LID standard Manual and show the selected measures on the grading plan.

22. Prior to the issuance of a building permit, the Applicant/Property Owner shall coordinate with the City and Metropolitan Transportation Authority (Metro) to ensure that a new bus stop for Metro Route 287 is located along the project frontage on Santa Anita Avenue or up to a maximum of 150 feet from the project site. The plans for the location and design of the bus stop shall be prepared to the satisfaction of Metro and shall be reviewed and approved by the City Engineer. The new bus stop shall be constructed and operational prior to the issuance of a Certificate of Occupancy for the project.

23. Prior to the issuance of the first Certificate of Occupancy to the multi-family residential development, the Applicant/Property Owner shall prepare and submit to the City a Plan for implementing a School Carpool Program as a VMT reduction measure (Tier 4, Transportation Demand Management, TP01). This Plan shall specify how the required VMT reduction measure (TP01- School Pool Program) will be implemented and managed by the project's homeowner's association (HOA) to match families in carpools for school pick-up and drop-off to nearby elementary, middle and high schools. The target participation from households for this program is 50%. This shall be reviewed and approved by the Planning & Community

Development Administrator and Deputy Development Services Director/City Engineer or designee, prior to issuance of the first Certificate of Occupancy, and this shall be disclosed to all buyers.

24. Prior to the issuance of the first Certificate of Occupancy to the multi-family residential development, the Applicant/Property Owner shall record a Covenant on the property for the owner to implement and maintain the Transportation Demand Management (TDM) Plan for VMT Reduction Strategies as specified in the previous condition. This shall be reviewed and approved by the Planning & Community Development Administrator and Deputy Development Services Director/City Engineer or designee, prior to issuance of the first Certificate of Occupancy, and this shall be disclosed to all buyers.
25. All structures shall be provided with an automatic fire sprinkler system per the City of Arcadia Fire Department's Single & Multi-Family Dwelling Sprinkler Standard.
26. The front vehicular gate shall be provided with a knox switch for Fire Department access.
27. Three on-site fire hydrants shall be provided at approved locations. These hydrants shall be painted safety red.
28. The required fire lane shall be marked with red curbing/stencils, signage or both at approved locations.
29. A twelve inch (12") cast iron water main with 62 psi static pressure is available on Santa Anita Avenue to serve the subject address. The Applicant/Property Owner shall provide calculations to determine the maximum domestic and fire demand, and verify the water service size required.
30. The Applicant/Property Owner shall install a master common domestic water meter with an approved double check back flow assembly for meter services protection that is capable of supplying sufficient water to meet all domestic and fire suppression need for all of the units.
31. If a common water service is to be used to supply both domestic water and fire sprinklers for each unit, the Applicant/Property Owner shall separate the fire service from the domestic water service for each unit with an approved backflow prevention device.
32. A separate water service and meter shall be required for common area landscape irrigation. A reduced pressure backflow device shall be installed.
33. Fire protection requirements shall be as stipulated by the Arcadia Fire Department and shall be conformed to Arcadia Standard Plan. A separate fire service with Double Check Detector Assembly (DCDA) shall be installed for fire service required.
34. The Applicant/Property Owner shall submit a Water Meter Permit Application to the Public Works Services Department prior to final plan check approval. Installation

shall be according to the specifications of the Public Works Services Department, Engineering Division, and installed by the Applicant/Property Owner. Abandonment of existing water services, if necessary, shall be carried out by the Applicant/Property Owner, according to Public Works Services Department, Engineering Division specifications.

35. The Applicant/Property Owner shall provide a Sewer Area Study to determine whether or not the existing City sewer system is capable of handling all anticipated demands of the proposed improvements. The development shall utilize the existing 8” City-owned sewer mains available at the west side of Santa Anita Avenue, if possible.

36. If any drainage fixture elevation is lower than the elevation of the next upstream manhole cover (358.91’), an approved backwater valve will be required.

37. All existing oak trees in the parkway shall remain and be protected. The Applicant/Property Owner shall remove the existing Magnolia tree in the parkway and plant a new 36-inch box Holly oak tree with a permit from Public Works. The location on the parkway of the Holly oak tree shall be determined by the Public Works Inspector.

38. The Applicant/Property Owner shall comply with the General Construction National Pollutant Discharge Elimination System (NPDES) Permit, submit a Notice of Intent (NOI) and pay applicable fees to the State Water Resources Control Board, and prepare a Storm Water Pollution Prevention Plan (SWPPP).

39. The proposed project shall be subject to LID requirements. These requirements include but are not limited to using infiltration trenches, bio-retention planter boxes, roof drains connected to a landscaped area, pervious concrete/paver, etc.

40. The Applicant/Property Owner shall comply with all City requirements regarding building safety, fire prevention, detection, suppression, emergency access, public right-of-way improvements, parking, water supply and water facilities, sewer facilities, trash reduction and recycling requirements, and NPDES measures to the satisfaction of the Building Official, Fire Marshal, Public Works Services Director, and Planning & Community Development Administrator. Compliance with these requirements is to be determined by having fully detailed construction plans submitted for plan check review and approval by the foregoing City officials and employees.

41. To the maximum extent permitted by law, Applicant must defend, indemnify, and hold City, any departments, agencies, divisions, boards, and/or commissions of the City, and its elected officials, officers, contractors serving as City officials, agents, employees, and attorneys of the City (“Indemnitees”) harmless from liability for damages and/or claims, actions, or proceedings for damages for personal injuries, including death, and claims for property damage, and with respect to all other actions and liabilities for damages caused or alleged to have been caused by

reason of the Applicant's activities in connection with MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02 on the Project site, and which may arise from the direct or indirect operations of the Applicant or those of the Applicant's contractors, agents, tenants, employees or any other persons acting on Applicant's behalf, which relate to the development and/or construction of the Project. This indemnity provision applies to all damages and claims, actions, or proceedings for damages, as described above, regardless of whether the City prepared, supplied, or approved the plans, specifications, or other documents for the Project.

In the event of any legal action challenging the validity, applicability, or interpretation of any provision of this approval, or any other supporting document relating to the Project, the City will promptly notify the Applicant of the claim, action, or proceedings and will fully cooperate in the defense of the matter. Once notified, the Applicant must indemnify, defend and hold harmless the Indemnitees, and each of them, with respect to all liability, costs and expenses incurred by, and/or awarded against, the City or any of the Indemnitees in relation to such action. Within 15 days' notice from the City of any such action, Applicant shall provide to City a cash deposit to cover legal fees, costs, and expenses incurred by City in connection with defense of any legal action in an initial amount to be reasonably determined by the City Attorney. City may draw funds from the deposit for such fees, costs, and expenses. Within 5 business days of each and every notice from City that the deposit has fallen below the initial amount, Applicant shall replenish the deposit each and every time in order for City's legal team to continue working on the matter. City shall only refund to Developer any unexpended funds from the deposit within 30 days of: (i) a final, non-appealable decision by a court of competent jurisdiction resolving the legal action; or (ii) full and complete settlement of legal action. The City shall have the right to select legal counsel of its choice that the Applicant reasonably approves. The parties hereby agree to cooperate in defending such action. The City will not voluntarily assist in any such third-party challenge(s) or take any position adverse to the Applicant in connection with such third-party challenge(s). In consideration for approval of the Project, this condition shall remain in effect if the entitlement(s) related to this Project is rescinded or revoked, whether or not at the request of the Applicant.

42. Approval of MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02 shall not be in effect unless the Property Owner and Applicant have executed and filed the Acceptance Form with the City on or before 30 calendar days after the Planning Commission has adopted the Resolution. The executed Acceptance Form submitted to the Development Services Department is to indicate awareness and acceptance of the conditions of approval.

PLANNING COMMISSION ACTION

Approval

If the Planning Commission intends to approve this project, the Commission should move to approve Multiple Family Architectural Design Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02, state that the proposal satisfies the requisite findings, and adopt the attached Resolution No. 2084 that incorporates the requisite environmental and subdivision findings, and the conditions of approval as presented in this staff report, or as modified by the Commission.

Denial

If the Planning Commission is to deny this project, the Commission should state the specific findings that the proposal does not satisfy based on the evidence presented with specific reasons for denial, and move to Multiple Family Architectural Design Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02 and direct staff to prepare a resolution for adoption at the next meeting that incorporates the Commission's decision and specific findings.

If any Planning Commissioner, or other interested party has any questions or comments regarding this matter prior to the November 9, 2021, Planning Commission Meeting, please contact Assistant Planner, Edwin Arreola at (626) 821-4334, or earreola@ArcadiaCA.gov.

Approved:

Lisa L. Flores
Planning & Community Development Administrator

Attachment No. 1: Resolution No. 2084
Attachment No. 2: Aerial Photo with Zoning Information and Photos of the Subject Property
Attachment No. 3: Tentative Tract Map (83531)
Attachment No. 4: Architectural Plans
Attachment No. 5: Arborist Report, dated August 25, 2021

Attachment No. 6: Letter of Support – Arcadia Congregational Church
Attachment No. 7: Categorical Exemption Memorandum, dated October 2021

Attachment No. 1

Resolution No. 2084

RESOLUTION NO. 2084

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF ARCADIA, CALIFORNIA, APPROVING MULTIPLE FAMILY ARCHITECTURAL DESIGN REVIEW NO. MFADR 21-02, TENTATIVE TRACT MAP NO. TTM 21-03 (83531), PLANNING COMMISSION ADMINISTRATIVE MODIFICATION NO. PC AM 21-04, PROTECTED HEALTHY TREE REMOVAL PERMIT NO. TRH 21-01, REMOVAL OF PROTECTED HAZARDOUS TREE PERMIT NO. TRD 21-05, AND PROTECTED TREE ENCROACHMENT PERMIT NO. TRE 21-02 WITH A CATEGORICAL EXEMPTION UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) FOR A NEW PRIVATE GATED DEVELOPMENT WITH 33 MULTI-FAMILY DETACHED RESIDENTIAL UNITS AT 2607 S. SANTA ANITA AVENUE

WHEREAS, on February 18, 2021, Multiple Family Architectural Design Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02, collectively referred to as the "Project," were filed by John Fitzpatrick, c/o Santa Anita BERC, LLC, on behalf of the property owner, Arcadia Congregational Church, for a new private gated development with 33 two-story multi-family detached units that will be built over two legal lots that will be consolidated into one lot and will require the airspace to be subdivided (the "Project"). The Project will also include a parking modification to provide a different arrangement for the guest parking spaces, the removal of eight protected trees, three of which are Sycamore trees, and to allow the Project to encroach within the dripline of some of the protected trees located at 2607 S. Santa Anita Avenue; and

WHEREAS, on October 27, 2021, Planning Services completed an environmental assessment for the Project in accordance with the California Environmental Quality Act ("CEQA"), and recommends that the Planning Commission determine the Project is

exempt under CEQA per Section 15332 of the CEQA Guidelines because the Project is considered an in-fill development project; and

WHEREAS, on November 9, 2021, a duly-noticed public hearing was held before the Planning Commission on said Project, at which time all interested persons were given full opportunity to be heard and to present evidence.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF ARCADIA HEREBY RESOLVES AS FOLLOWS:

SECTION 1. The factual data submitted by the Community Development Division in the staff report dated November 9, 2021, are true and correct.

SECTION 2. This Commission finds, based upon the entire record, pursuant to Sections 9105.03.060, 9107.05.050, & 9107.19.040 of the Development Code, all of the following findings can be made:

Tentative Tract Map

A. The proposed map, subdivision design, and improvements are consistent with the General Plan, any applicable specific plan, and the Subdivisions Division of the Development Code:

FACT: The Project is in compliance with all of the provisions of the City's General Plan, Development Code, and the State Subdivision Map Act. The Medium Density Residential General Plan designation is intended to accommodate a variety of housing types and sizes and attached or detached housing types for both renter and owner households within a suburban neighborhood context. The R-2 zone is intended to provide areas for a variety of dwelling types, including detached multi-family units, and accessory uses compatible with the residential use of the property. The site is physically suitable for

this type of development, and the approval of the architectural design for the Project is compatible with the scale and character of the existing neighborhood. The Project will not adversely affect the comprehensive General Plan and is consistent with the following General Plan goals and policies:

Land Use and Community Design Element

- Policy LU-1.1: Promote new infill and redevelopment projects that are consistent with the City's land use and compatible with surrounding existing uses.
- Policy LU-4.1: Require that new multi-family residential development be visually and functionally integrated and consistent in scale, mass, and character with structures in the surrounding neighborhood.
- Policy LU-4.3: Require the provision of adequate private and common open space for residential units. Require sufficient on-site recreational facilities to meet the daily needs of residents, if possible, commensurate with the size of the development.

B. The site is physically suitable for the type and proposed density of development:

FACT: The R-2 zone has a minimum of density of two units and a maximum density of one dwelling unit per 3,750 square feet of lot area. Based on the lot area of 2.88 acres, a maximum of 33 units are allowed on this site. The Project complies with the density requirements and all other applicable zoning requirements, including but not limited to setbacks, height, and open space. Therefore, the site is physically suitable for the Project.

C. The design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat:

FACT: The Project is a subdivision of an infill site within an urbanized area and does not serve as a habitat for endangered or rare species. The Project will not cause substantial environmental damage or impact wildlife.

D. The design of the subdivision or type of improvements is not likely to cause serious public health or safety problems:

FACT: The Project is to subdivide the airspace of the proposed multi-family development. The Project will be in compliance with all applicable Building and Fire Codes to ensure public health and safety. The proposed density will be below the maximum allowed by the R-2 zone and the City's existing infrastructure will adequately serve the Project. Therefore, the Project will not cause any public health or safety problems.

E. The design of the subdivision or the type of improvements will not conflict with easements acquired by the public at large for access through or use of, property within the proposed subdivision (This finding shall apply only to easements of record or to easements established by judgement of a court of competent jurisdiction and no authority is hereby granted to a legislate body to determine that the public at large has acquired easements for access through or use of property within the proposed subdivision):

FACT: The Project does not conflict with easements acquired by the public at large for access through or use of property within the proposed subdivision. The Project

is maintaining a Southern California Edison easement for underground power utilities clear of any construction. Therefore, the Project will not conflict with any such easements

F. The discharge of sewage from the proposed subdivision into the community sewer system will not result in violation of existing requirements specified by the California Regional Water Quality Control Board:

FACT: The Arcadia Public Works Services Department determined that the City's existing infrastructure will adequately serve the Project. The discharge of sewage from the Project into the community sewer system will not result in violation of existing requirements specified by the California Regional Water Quality Control Board

G. The design of the subdivision provides, to the extent feasible, passive or natural heating and cooling opportunities:

FACT: The Project has been reviewed by Building Services to ensure compliance with the California Building Code, which includes requirements associated with heating and cooling requirements

H. The proposed subdivision, its design, density, and type of development and improvements conforms to the regulation of the Development Code and the regulations of any public agency having jurisdiction by law:

FACT: The Project as conditioned complies with the density requirements of the City's Development Code, and all the improvements required for the site and each unit will comply with the regulations in the City's Development Code. The removal of the eight protected trees and the encroachments of four protected Coast Live oak trees are warranted in order to accommodate this development

Administrative Modification

I. The modification request achieves at least one of the following findings:

   a. Promotes uniformity of development;

   b. Prevents an unreasonable hardship; or

   c. Secures an appropriate improvement of a parcel.

FACT: Approval of the parking modification to provide a different arrangement for the guest parking spaces would secure an appropriate improvement for the Project as more than adequate parking would still be provided for the site by allowing guests to park on the dedicated driveways of 20 of the proposed units and seven (7) parking spaces are provided for the 13 units that do not have parking on their dedicated driveways. Although the guest parking spaces located on the dedicated driveways will be for guests of the associated homes, the remaining 13 units will have guest parking provided in conformance to the Code at 0.5 spaces per unit. The 27 guest parking spaces being provided in this configuration will greatly surpass the 17 required spaces. This parking arrangement is similar to gated multi-family developments in other cities which allow guest parking on dedicated driveways to encourage single-family type, detached units. Although this is a multi-family development, the proposed detached units and private drives provide a single-family type character to the site and parking on the dedicated driveways of the units would be convenient for any guests of the associated homes and would not cause any inconveniences to any of the other units on site. Additionally, the proposed parking on the dedicated driveways will not interfere with access and circulation on the private drives. Therefore, approval of the parking modification would secure an appropriate improvement for the Project.

Architectural Design Review

J. The proposal is consistent with the City's Multifamily Residential Design Guidelines:

FACT: The Project is located within the Medium Density Residential (R-2) Zone, which is intended to accommodate varied housing types and sizes and attached or detached housing types for both renter and owner households within a suburban neighborhood context. The proposed massing, scale, design and landscaping are compatible with the other multi-family developments in the surrounding neighborhood. The proposed Traditional architecture styles of the Project will be compatible with the existing single-family homes along Santa Anita Avenue and adjacent to the subject site. The articulation and incorporation of a variety of colors, finishes, and materials, including stucco, brick accent, and wood siding, help provide visual breaks in the massing of the proposed homes. Adequate landscaping is integrated throughout the site and an abundance of open space is being provided per unit. In addition, the Project provides an enhanced streetscape scene that is compatible with the surrounding neighborhood. Therefore, the Project is consistent with the City's Multifamily Residential Design Guidelines and all the applicable findings under a Site Plan and Design Review.

SECTION 3. Pursuant to the provisions of the California Environmental Quality Act ("CEQA"), this Project is a Class 32 Categorical Exemption as an infill-development project per Section 15332 of the CEQA Guidelines.

SECTION 4. For the foregoing reasons the Planning Commission determines that the Project is Categorically Exempt under the California Environmental Quality Act ("CEQA") Section 15332 , Class 32, and approves Multiple Family Architectural Design

Review No. MFADR 21-02, Tentative Tract Map No. TTM 21-03 (83531), Planning Commission Administrative Modification No. PC AM 21-04, Protected Healthy Tree Removal Permit No. TRH 21-01, Removal of Protected Hazardous Tree Permit No. TRD 21-05, and Protected Tree Encroachment Permit No. TRE 21-02 for a 33-unit multi-family residential development at 2607 S. Santa Anita Avenue, subject to the conditions of approval attached hereto.

SECTION 5. The Secretary shall certify to the adoption of this Resolution.

Passed, approved and adopted this 9th day of November, 2021.

Marilynne Wilander
Chair, Planning Commission

ATTEST:

Lisa L. Flores
Secretary

APPROVED AS TO FORM:

Stephen P. Deitsch
City Attorney

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Conditions of Approval

1. The project shall be developed and maintained by the Applicant/Property Owner in a manner that is consistent with the plans submitted and conditionally approved for MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02, subject to the approval of the Planning & Community Development Administrator or designee.
2. All windows shall be recessed a minimum of two (2) inches from the building wall. A construction detail indicating the 2-inch recess shall be included on the plans submitted to the Building Division for plan check.
3. Any required mechanical equipment, such as backflow devices and transformers, visible from the public right-of-way shall be screened from public view. Screening may include landscaping, solid walls or other methods deemed appropriate for the development. The placement and height of said screening shall be subject to review and approval by the Planning & Community Development Administrator, or designee.
4. A minimum of 16 24-inch box trees shall be planted on the subject property as replacement trees for the removal of the eight (8) protected trees. The trees shall be shown on the final landscape plan that is submitted to Building Services for plan check, subject to review and approval by the Planning & Community Development Administrator or designee, to ensure compliance with this condition. The project shall be developed and maintained in compliance with all of the recommended tree protection measures listed in the Arborist Report, dated August 25, 2021. During construction, a Certified Arborist shall be on-site to monitor and ensure proper placement of the trees as well as any other trees that are proposed to be protected under this approval, and a follow-up report shall be submitted to the City prior to issuance of a Certificate of Occupancy from Building Services.
5. During all project site construction, all construction-related activities, including maintenance of construction equipment and the staging of haul trucks, shall not take place between the hours of 6:00 p.m. and 7:00 a.m., Monday through Friday, between 5:00 p.m. and 8:00 a.m. on Saturday or at any time on Sundays and holidays specified in the City's Municipal Code.
6. At least two weeks prior to the proposed start of construction activity, the applicant shall post at least two signs or banners that include a brief description of the project, the anticipated construction schedule, the City's limits on the hours of construction, a contact name, phone, and email of a representative of the applicant/property owner that the public can contact with any questions, concerns, or complaints about construction activity related to the project. If there are any substantive changes in the project schedule or scope of work, or changes in the contact name or information, the applicant/property owner shall immediately provide an updated notice in the manner described above.

7. The Applicant/Property Owner shall submit a haul route map and staging plan to Planning Services prior to issuance of a demolition and a grading permit.

8. The applicant shall be responsible for the repair of all damage to public improvements in the public right-of-way resulting from construction-related activities, including, but not limited to, the movement and/or delivery of equipment, materials, and soils to and/or from the site.

9. Stationary construction noise sources, such as generators or pumps, should be located at least 100 feet from sensitive land uses, to the maximum extent feasible.

10. Construction staging areas should be located as far from noise-sensitive land uses to the maximum extent feasible.

11. During construction, the contractor shall ensure all construction equipment is equipped with appropriate noise-attenuating devices. Idling equipment shall be turned off when not in use.

12. Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

13. The project shall comply with the latest adopted edition of the following codes as applicable:
    a. California Building Code
    b. California Electrical Code
    c. California Mechanical Code
    d. California Plumbing Code
    e. California Energy Code
    f. California Fire Code
    g. California Green Building Standards Code
    h. California Existing Building Code
    i. Arcadia Municipal Code

14. All utility conductors, cables, conduits and wiring supplying electrical, cable and telephone service to a multiple family building shall be installed underground except risers which are adjacent to and attached to a building.

15. Grading plans shall be submitted to, and approved by Engineering, Planning and Building Services. The grading plans shall indicate all site improvements, and shall indicate complete drainage paths of all drainage water run-off.

16. A demolition permit shall be obtained from Building Services prior to the removal and/or demolition of the structures on site.

17. The Applicant/Property Owner shall be required to pay the following fees prior to approval of the Final Tract Map:

a. Map Fee		$100.00
b. Final Approval Fee (1 lot @ $25.00 ea.)		$ 25.00
	TOTAL	$125.00

18. As part of the Final Tract Map, the Applicant/Property Owner shall provide a 2'-0" dedication along the Santa Anita Avenue frontage for a total parkway width of 10'-0".

19. Prior to approval of the Final Tract Map, the Applicant/Property Owner shall either construct or post security for all public improvements as shown on the Tentative Map and the following required items;

    a. Remove and replace the existing curb, gutter and sidewalk from property line to property line, including additional sidewalk to provide adequate clearance around all obstacles, and additional sidewalk width at the bus stop.

    b. Coordinate with Public Works Services on the installation of new street trees.

    c. Completely remove and replace the drive approach per City Standard plan.

20. Prior to Certificate of Occupancy for the last five (5) units, the Applicant/Property Owner shall repair any damage caused by the development to the asphalt street frontages from property line to property line, including but not limited to trench cuts and construction traffic, per the direction of the Deputy Development Services Director/City Engineer.

21. The proposed development requires a Low Impact Development (LID) plan which shall comply with the Los Angeles County Department of Public Works 2014 LID standard Manual and show the selected measures on the grading plan.

22. Prior to the issuance of a building permit, the Applicant/Property Owner shall coordinate with the City and Metropolitan Transportation Authority (Metro) to ensure that a new bus stop for Metro Route 287 is located along the project frontage on Santa Anita Avenue or up to a maximum of 150 feet from the project site. The plans for the location and design of the bus stop shall be prepared to the satisfaction of Metro and shall be reviewed and approved by the City Engineer. The new bus stop shall be constructed and operational prior to the issuance of a Certificate of Occupancy for the project.

23. Prior to the issuance of the first Certificate of Occupancy to the multi-family residential development, the Applicant/Property Owner shall prepare and submit to the City a Plan for implementing a School Carpool Program as a VMT reduction measure (Tier 4, Transportation Demand Management, TP01). This Plan shall specify how the required VMT reduction measure (TP01- School Pool Program) will be implemented and managed by the project's homeowner's association (HOA) to match families in carpools for school pick-up and drop-off to nearby elementary, middle and high schools. The target participation from households for this program is 50%. This shall be reviewed and approved by the Planning & Community Development Administrator and Deputy Development Services Director/City Engineer or designee, prior to issuance of the first Certificate of Occupancy, and this shall be disclosed to all buyers.

24. Prior to the issuance of the first Certificate of Occupancy to the multi-family residential development, the Applicant/Property Owner shall record a Covenant on the property for the owner to implement and maintain the Transportation Demand Management (TDM) Plan for VMT Reduction Strategies as specified in the previous condition. This shall be reviewed and approved by the Planning & Community Development Administrator and Deputy Development Services Director/City Engineer or designee, prior to issuance of the first Certificate of Occupancy, and this shall be disclosed to all buyers.
25. All structures shall be provided with an automatic fire sprinkler system per the City of Arcadia Fire Department's Single & Multi-Family Dwelling Sprinkler Standard.
26. The front vehicular gate shall be provided with a knox switch for Fire Department access.
27. Three on-site fire hydrants shall be provided at approved locations. These hydrants shall be painted safety red.
28. The required fire lane shall be marked with red curbing/stencils, signage or both at approved locations.
29. A twelve inch (12") cast iron water main with 62 psi static pressure is available on Santa Anita Avenue to serve the subject address. The Applicant/Property Owner shall provide calculations to determine the maximum domestic and fire demand, and verify the water service size required.
30. The Applicant/Property Owner shall install a master common domestic water meter with an approved double check back flow assembly for meter services protection that is capable of supplying sufficient water to meet all domestic and fire suppression need for all of the units.
31. If a common water service is to be used to supply both domestic water and fire sprinklers for each unit, the Applicant/Property Owner shall separate the fire service from the domestic water service for each unit with an approved backflow prevention device.
32. A separate water service and meter shall be required for common area landscape irrigation. A reduced pressure backflow device shall be installed.
33. Fire protection requirements shall be as stipulated by the Arcadia Fire Department and shall be conformed to Arcadia Standard Plan. A separate fire service with Double Check Detector Assembly (DCDA) shall be installed for fire service required.
34. The Applicant/Property Owner shall submit a Water Meter Permit Application to the Public Works Services Department prior to final plan check approval. Installation shall be according to the specifications of the Public Works Services Department, Engineering Division, and installed by the Applicant/Property Owner. Abandonment of existing water services, if necessary, shall be carried out by the Applicant/Property Owner, according to Public Works Services Department, Engineering Division specifications.

35. The Applicant/Property Owner shall provide a Sewer Area Study to determine whether or not the existing City sewer system is capable of handling all anticipated demands of the proposed improvements. The development shall utilize the existing 8" City-owned sewer mains available at the west side of Santa Anita Avenue, if possible.

36. If any drainage fixture elevation is lower than the elevation of the next upstream manhole cover (358.91'), an approved backwater valve will be required.

37. All existing oak trees in the parkway shall remain and be protected. The Applicant/Property Owner shall remove the existing Magnolia tree in the parkway and plant a new 36-inch box Holly oak tree with a permit from Public Works. The location on the parkway of the Holly oak tree shall be determined by the Public Works Inspector.

38. The Applicant/Property Owner shall comply with the General Construction National Pollutant Discharge Elimination System (NPDES) Permit, submit a Notice of Intent (NOI) and pay applicable fees to the State Water Resources Control Board, and prepare a Storm Water Pollution Prevention Plan (SWPPP).

39. The proposed project shall be subject to LID requirements. These requirements include but are not limited to using infiltration trenches, bio-retention planter boxes, roof drains connected to a landscaped area, pervious concrete/paver, etc.

40. The Applicant/Property Owner shall comply with all City requirements regarding building safety, fire prevention, detection, suppression, emergency access, public right-of-way improvements, parking, water supply and water facilities, sewer facilities, trash reduction and recycling requirements, and NPDES measures to the satisfaction of the Building Official, Fire Marshal, Public Works Services Director, and Planning & Community Development Administrator. Compliance with these requirements is to be determined by having fully detailed construction plans submitted for plan check review and approval by the foregoing City officials and employees.

41. To the maximum extent permitted by law, Applicant must defend, indemnify, and hold City, any departments, agencies, divisions, boards, and/or commissions of the City, and its elected officials, officers, contractors serving as City officials, agents, employees, and attorneys of the City ("Indemnitees") harmless from liability for damages and/or claims, actions, or proceedings for damages for personal injuries, including death, and claims for property damage, and with respect to all other actions and liabilities for damages caused or alleged to have been caused by reason of the Applicant's activities in connection with MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02 on the Project site, and which may arise from the direct or indirect operations of the Applicant or those of the Applicant's contractors, agents, tenants, employees or any other persons acting on Applicant's behalf, which relate to the development and/or construction of the Project. This indemnity provision applies to all damages and claims, actions, or proceedings for damages, as described above, regardless of whether the City prepared, supplied, or approved the plans, specifications, or other documents for the Project.

In the event of any legal action challenging the validity, applicability, or interpretation of any provision of this approval, or any other supporting document relating to the Project, the City will promptly notify the Applicant of the claim, action, or proceedings and will fully cooperate in the defense of the matter. Once notified, the Applicant must indemnify, defend and hold harmless the Indemnitees, and each of them, with respect to all liability, costs and expenses incurred by, and/or awarded against, the City or any of the Indemnitees in relation to such action. Within 15 days' notice from the City of any such action, Applicant shall provide to City a cash deposit to cover legal fees, costs, and expenses incurred by City in connection with defense of any legal action in an initial amount to be reasonably determined by the City Attorney. City may draw funds from the deposit for such fees, costs, and expenses. Within 5 business days of each and every notice from City that the deposit has fallen below the initial amount, Applicant shall replenish the deposit each and every time in order for City's legal team to continue working on the matter. City shall only refund to Developer any unexpended funds from the deposit within 30 days of: (i) a final, non-appealable decision by a court of competent jurisdiction resolving the legal action; or (ii) full and complete settlement of legal action. The City shall have the right to select legal counsel of its choice that the Applicant reasonably approves. The parties hereby agree to cooperate in defending such action. The City will not voluntarily assist in any such third-party challenge(s) or take any position adverse to the Applicant in connection with such third-party challenge(s). In consideration for approval of the Project, this condition shall remain in effect if the entitlement(s) related to this Project is rescinded or revoked, whether or not at the request of the Applicant.

42. Approval of MFADR 21-02, TTM 21-03 (83531), PC AM 21-04, TRH 21-01, TRD 21-05, and TRE 21-02 shall not be in effect unless the Property Owner and Applicant have executed and filed the Acceptance Form with the City on or before 30 calendar days after the Planning Commission has adopted the Resolution. The executed Acceptance Form submitted to the Development Services Department is to indicate awareness and acceptance of the conditions of approval.

Attachment No. 2

Aerial Photo and Zoning Information and Photos of the Subject Property

Parcel Number: **5788-020-029**

Site Address: # 2607 S SANTA ANITA AVE

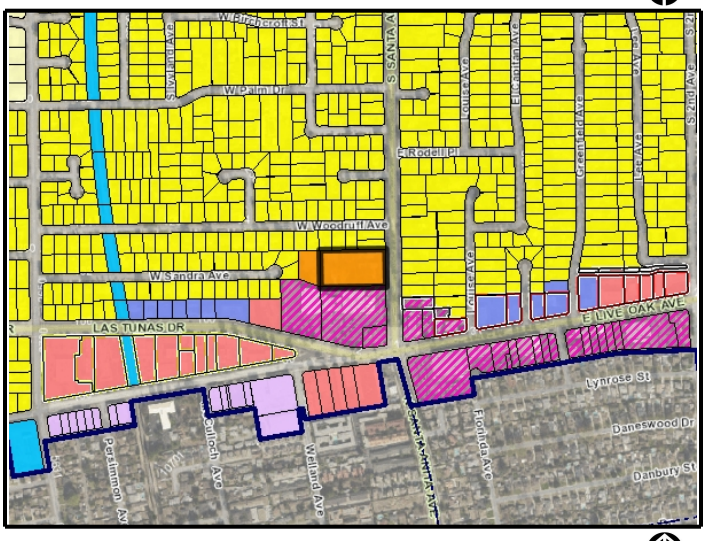
Property Owner(s): **Property Owner**



Property Characteristics	
Zoning:	R-2
General Plan:	MDR
Lot Area (sq ft):	
Main Structure / Unit (sq. ft.):	7,759
Year Built:	1961
Number of Units:	0

Overlays	
Architectural Design Overlay:	N/A
Downtown Overlay:	N/A
Downtown Parking Overlay:	N/A
Parking Overlay:	N/A
Racetrack Event Overlay:	N/A
Residential Flex Overlay:	N/A
Special Height Overlay:	N/A

Selected parcel highlighted



Parcel location within City of Arcadia

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

Report generated 04-Nov-2021

Parcel Number: 5788-020-015

Site Address: # 2607 S SANTA ANITA AVE

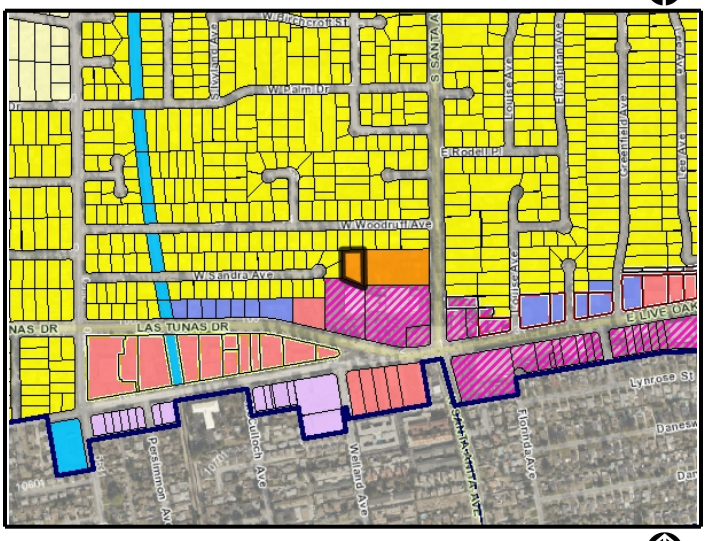
Property Owner(s): Property Owner



Property Characteristics	
Zoning:	R-2
General Plan:	MDR
Lot Area (sq ft):	
Main Structure / Unit (sq. ft.):	20,250
Year Built:	1966
Number of Units:	0

Overlays	
Architectural Design Overlay:	N/A
Downtown Overlay:	N/A
Downtown Parking Overlay:	N/A
Parking Overlay:	N/A
Racetrack Event Overlay:	N/A
Residential Flex Overlay:	N/A
Special Height Overlay:	N/A

Selected parcel highlighted



Parcel location within City of Arcadia

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

Report generated 04-Nov-2021



Church Building at the Front of the Property



Rear of Church Building



Front Façade of Prince Erik Hall



Rear Façade of Prince Erik Hall



Driveway Access and Parking Lot

Attachment No. 3

Tentative Tract Map (83531)

TENTATIVE TRACT MAP NO. 83531

2607 SOUTH SANTA ANITA AVENUE
IN THE CITY OF ARCADIA, COUNTY OF LOS ANGELES

GENERAL NOTES:

1. EXISTING LAND USE: MEDIUM DENSITY RESIDENTIAL (6-12 DU/AC)
2. PROPOSED LAND USE: MEDIUM DENSITY RESIDENTIAL (11.48 DU/AC)
3. EXISTING GENERAL PLAN: MDR
4. PROPOSED GENERAL PLAN: MDR
5. EXISTING ZONING: R-2
6. PROPOSED ZONING: R-2
7. WATER SERVICE PROVIDED BY: CITY OF ARCADIA
8. SEWER SERVICE PROVIDED BY: CITY OF ARCADIA
9. ALL PROPOSED UTILITIES ARE TO BE UNDERGROUND (OTHER THAN FOR TEMPORARY CONSTRUCTION PURPOSES)
10. ELECTRIC SERVICE PROVIDED BY: SOUTHERN CALIFORNIA EDISON
11. GAS SERVICE PROVIDED BY: SOCAL GAS CO.
12. TELEPHONE SERVICE PROVIDED BY: VERIZON
13. CABLE TELEVISION PROVIDED BY: TIME WARNER
14. PROJECT IS WITHIN THE ARCADIA SCHOOL DISTRICT
15. STREET IMPROVEMENTS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF THE CITY OF ARCADIA
16. ALL LOTS SHALL BE HOMEOWNER OR HOMEOWNER ASSOCIATION MAINTAINED
17. THE SUBJECT PROPERTY IS WITHIN AREA OF MINIMAL FLOOD HAZARD FLOOD ZONE "X" PER FIRM PANEL 06037C1675F
18. APN: 5788-020-015, 5788-020-029
19. PARKING PROVIDED: 93 SPACES (2.82 SPACES PER HOME)
    GARAGE: 66 UNIT SPACES
    DRIVEWAY: 9 SPACES (10' x 19')
    DRIVEWAY: 11 SPACES (10' x 20')
    HEAD IN: 7 SPACES (9' x 19')

PROPOSED LOT AREAS:

LOT NUMBER	PROPOSED GROSS & NET AREA	
#	SF	AC
COMMON AREA	56,403	1.295
33 HOME	68,784	1.579
TOTAL	125,187	2.874

DENSITY CALCULATIONS:

PROPOSED RESIDENTIAL	33 HOMES
NET AREA	2.874 AC
PROPOSED DENSITY	11.48 HOMES/AC

LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ARCADIA, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF LOT 66 OF SANTA ANITA COLONY, IN THE CITY OF ARCADIA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 42, PAGE 87 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, INCLUDED WITHIN THE FOLLOWING DESCRIBED LAND,

BEGINNING AT A POINT IN THE NORTHERLY LINE OF SAID LOT 66, DISTANCE NORTH 89° 59' 30" WEST THEREON 600.00 FEET FROM THE CENTER LINE OF SANTA ANITA AVENUE (100 FEET WIDE); THENCE SOUTH 89° 59' 30" EAST ALONG SAID NORTHERLY LINE AND THE EASTERLY PROLONGATION THEREOF 600.00 FEET TO SAID CENTER LINE OF SANTA ANITA AVENUE, THENCE SOUTH 0° 00' 15" WEST ALONG SAID CENTER LINE 335.00 FEET; THENCE NORTH 89° 59' 30" WEST PARALLEL WITH THE NORTHERLY LINE OF SAID LOT 66, A DISTANCE OF 475.00 FEET; THE NORTH 65° 17' 35" WEST 137.59 FEET TO A LINE WHICH IS PARALLEL WITH THE CENTER LINE OF SANTA ANITA AVENUE AND WHICH PASSES THROUGH THE POINT OF BEGINNING; THENCE NORTH 0° 00' 15" EAST PARALLEL WITH SAID CENTER LINE OF SANTA ANITA AVENUE 177.50 FEET TO THE POINT OF BEGINNING.

APN: 5788-020-015, 5788-020-029

BASIS OF BEARINGS:

THE BASIS OF BEARINGS AND COORDINATES FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 1983 (NAD 83), ZONE 5 (EPOCH 2010.00) BASED LOCALLY ON CONTROL STATIONS CRHS, ASU1, AND VDCY AS SHOWN ON THE CONTROL GROUND FILE. ALL DISTANCES SHOWN ARE GROUND DISTANCES, UNLESS SPECIFIED OTHERWISE. GRID DISTANCES MAY BE OBTAINED BY MULTIPLYING THE GROUND DISTANCES BY AVERAGE COMBINATION FACTOR OF 0.99997265 FROM THE GPS BASE POINT #100.

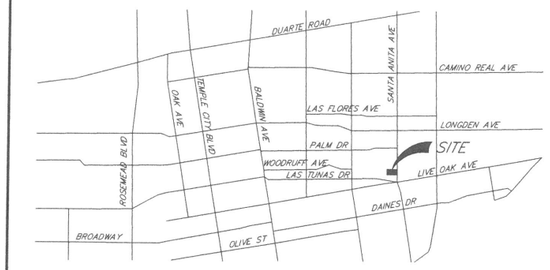
EASEMENTS:

ITEMS SHOWN HEREON WERE PLOTTED FROM RECORD DATA BASED ON PRELIMINARY TITLE REPORT ORDER NO. 0022156Z-894-VMO-RP1 DATED APRIL 23, 2018. PLOTTABLE EASEMENTS ARE INDICATED BY A " △ ": NON-PLOTTABLE EASEMENTS ARE INDICATED BY A " □ ":

△1 AN EASEMENT FOR STREET PURPOSES EXCEPTING THERE FROM THE EASTERLY 50' OF THE SAID PROPERTY OF THE LEGAL DESCRIPTION PER 2129 AND 3341, OF OFFICIAL RECORDS.

△2 AN EASEMENT FOR TELEPHONE UTILITIES DESCRIBED AS THE NORTHERLY 2' OF THE EASTERLY 170' OF SAID PROPERTY AS CALLED OUT ON THE LEGAL DESCRIPTION AND PER 3045, OF OFFICIAL RECORDS.

△3 AN EASEMENT GRANTED TO THE CALIFORNIA EDISON COMPANY FOR UTILITIES PER 5049, OF OFFICIAL RECORDS. (TO BE RELOCATED PER PARCEL MAP)



VICINITY MAP
NOT TO SCALE

VICINITY MAP

LEGEND:

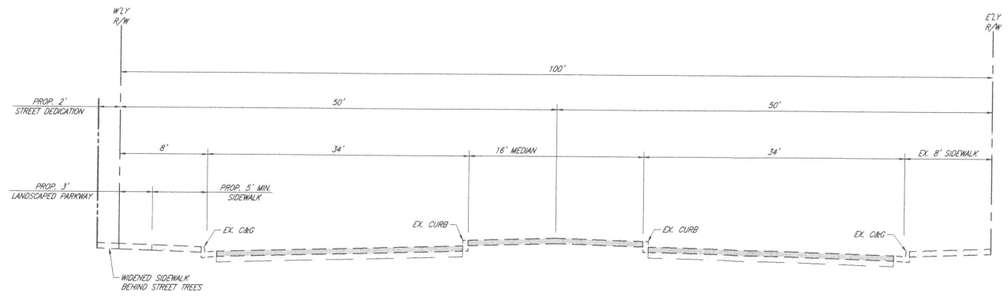
- PROP. LOT LINE
- EX. LOT LINE
- EX. C/L
- RECORD C/L
- PROP. R/W
- EX. R/W
- EASEMENT
- SETBACK
- BOUNDARY

ENGINEER:

KWC ENGINEERS
1880 COMPTON AVENUE, SUITE 100
CORONA, CA. 92881-3370
(951) 734-2130
ATTN: NICK V. NGUYEN, P.E.

OWNER/DEVELOPER

RIDGE CREST REAL ESTATE, LLC
1800 S. BRAND BLVD., SUITE 203
GLENDALE, CA 91204
(323) 450-2335
ATTN.: MATT LIVINGSTON



EXISTING SANTA ANITA AVENUE TYPICAL PUBLIC STREET SECTION
NOT TO SCALE

STATEMENT OF PREPARER

I HEREBY STATE THAT THIS MAP WAS PREPARED UNDER MY SUPERVISION AND THAT THE OWNER OF RECORD HAS KNOWLEDGE OF AND CONSENTS TO THE FILING OF THIS MAP.

_____ DATE _____
NICK V. NGUYEN, P.E.

REGISTERED PROFESSIONAL ENGINEER
NICK V. NGUYEN
No. 59138
CIVIL
STATE OF CALIFORNIA

PREPARED BY:
KWC ENGINEERS
CIVIL ENGINEERS • PLANNERS • SURVEYORS
1880 COMPTON AVENUE, SUITE 100 CORONA, CA. 92881-3370 951-734-2130

SHEET 1 OF 3 SHEET

J:\20\2093\PREEM\MAPS\TENT\2093 TTM-01.dwg 09/19/21 4:09pm
JN: 20.2093.02

W. WOODRUFF AVE.

S. SANTA ANITA AVE.

N89° 05' 18.47"E 548.00'

N00° 54' 56.53"W 717.51'

N00° 54' 56.53"W 735.00'

COMMON AREA

PROPOSE 1' WIDE U CHANNEL

EXIST. SCE ESMT TO BE QUITCLAIMED

16'x14' SCE TRANSFORMER PAD

10.0' SCE EASEMENT

2.0' STREET DEDICATION

28.0' SETBACK

SPECIAL SETBACK

01 360.50PAD
02 360.25PAD
03 360.00PAD
04 360.00PAD
05 360.00PAD
06 360.25PAD
07 360.25PAD
08 360.00PAD
09 360.00PAD
10 359.75PAD
11 359.50PAD
12 359.50PAD
13 359.25PAD
14 359.25PAD
15 360.00PAD
16 359.25PAD
17 360.00PAD
18 359.50PAD
19 359.50PAD
20 360.00PAD
21 359.25PAD
22 359.00PAD
23 359.75PAD
24 359.25PAD
25 359.25PAD
26 359.75PAD
27 359.00PAD
28 358.50PAD
29 359.25PAD
30 358.75PAD
31 358.75PAD
32 359.25PAD
33 358.50PAD

TTM 77121

SECTION "A–A"
NOT TO SCALE

SECTION "B–B"
NOT TO SCALE

SECTION "C–C"
NOT TO SCALE

SCALE: 1"=20'

REGISTERED PROFESSIONAL ENGINEER BRANDON M. BASSETT No.76472 CIVIL STATE OF CALIFORNIA

PREPARED BY:

KWC ENGINEERS

CIVIL ENGINEERS • PLANNERS • SURVEYORS
1880 COMPTON AVENUE, SUITE 100 CORONA, CA 92881-3310 951-734-2130

SHEET 2 OF 3 SHEET

JN: JO-20927.02 R:\20\20927\PRELIM\MAPS\TENT\20927 TM-02.dwg 02/19/21 4:10pm

W. WOODRUFF AVE.

S. SANTA ANITA AVE.

EX. BLOCK WALL

PROPOSE 1' WIDE U CHANNEL

PRESERVED TREE

EX. BLOCK WALL

PRESERVED TREE

PRESERVED TREE

EX. BLOCK WALL

EX. PP TO BE RELOCATED

EX. PP TO BE RELOCATED

EX. PP TO BE RELOCATED

PROP SEWER CONNECTION

PROP FIRE CONNECTION

PROP WATER CONNECTION

PRELIMINARY EARTHWORK		
CUT (CY)	FILL (CY)	IMPORT (CY)
1,331	2032	±700

TTM 77121

SCALE: 1"=20'

PREPARED BY:

KWC ENGINEERS

CIVIL ENGINEERS • PLANNERS • SURVEYORS

1880 COMPTON AVENUE, SUITE 100 CORONA, CA 92881-3370 951-734-2130

SHEET 3 OF 3 SHEET

Attachment No. 4

Architectural Plans



PLAN 1A - Cottage



PLAN 2B - Contemporary Farmhouse



PLAN 3A - Cottage

OUR TEAM

RC Homes, Inc. Ridge Crest Real Estate, LLC
Contact: John Fitzpatrick
550 N Larchmont Blvd., Suite 201, Los Angeles, CA 90004
323.450.2334 | www.rchomesinc.com

WHA. Architects . Planners . Designers .
Contact: Mike Cantrell
680 Newport Center Dr Suite 300, Newport Beach, CA 92660
949.250.0607 | www.WHAinc.com

SHEET INDEX:

SS	Street Scene
SP	Conceptual Site Plan
SP2	Conceptual Cluster Floor Plan
A1.1	Plan 1 I Floor Plan
A1.2	Plan 1 I Front Elevations
A1.3	Plan 1A I Cottage Exterior Elevations
A1.4	Plan 1B I Contemporary Farmhouse Exterior Elevations
A1.5	Plan 1 I Front Street Facing Elevations
A2.1	Plan 2 I Floor Plan
A2.2	Plan 2 I Front Elevations
A2.3	Plan 2A I Cottage Exterior Elevations
A2.4	Plan 2B I Contemporary Farmhouse Exterior Elevations
A3.1	Plan 3 I Floor Plan
A3.2	Plan 3 I Front Elevations
A3.3	Plan 3A I Cottage Exterior Elevations
A3.4	Plan 3B I Contemporary Farmhouse Exterior Elevations
A3.5	Alternate Exterior Elevations
A3.6	Alternate Exterior Elevations
AD	Architectural Details
AD2	Typical Window Details at Recessed Conditions
CM	Color Schemes

RC HOMES, INC.
a california home builder

THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

CITY SUBMITTAL

Note: Artist's Conception; Colors, Materials And Application May Vary.

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ARCHITECTS . PLANNERS . DESIGNERS
WHA.
ORANGE COUNTY . LOS ANGELES . BAY AREA

Call Out Summary

1. Stained Concrete Paving Rectangular Sawcut Pattern
2. Visitors Call Box
3. 24" Tall Free Standing Decorative Accent Walls
4. Large Dcorative COntainer Pottery w/ Accent Plants
5. 5 FT Tall Stucco Wall w/ Split-Face Plasters
6. Auto SLiding Entry Gates
7. Decorative Cobblestone Ground Cover
8. 6 FT Stucco Wall w/ Split-Face Plasters
9. 18" Tall Raised Planter
10. Project Signage
11. Community Peestrian Walkway
12. Asphalt Pavement
13. Vinyl Sideyard Gates & Lot Line Fence
14. 6 FT Tall Existing Masonry Perimeter Wall
15. 36" Tall Raised Planter
16. Expand Tree Well At Existing Street Tree and New Signage

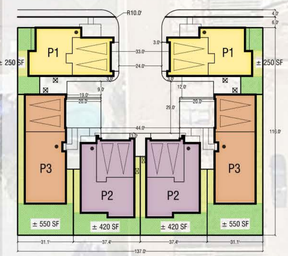
Open Space Summary

Qualifying Private Open Space (10' min.)

Other Private Open Space (<10' min.)



Typical 2-Story Small Lot SFD
Plan 1: ± 740 SF | Plan 2: ± 850 SF



Typical 2-Story Cluster SFD
Plan 1: ± 250 SF | Plan 2: ± 420 SF | Plan 3: ± 550 SF

20' setback from adjacent SFD Lots Per 9102.01.100 of the Zoning Code

Trash Cart

Relocated 10' SCE easement

Entry gate with call box

SCE Pull box / screened equipment location

Fire Hydrant

Cluster Mail Boxes

2' x 6' Bike Spaces

Open Space: ± 4,400 SF

Required 2' Dedication

S. SANTA ANITA AVE

typical
Plan 1 (Cluster SFD)
- ± 1,821 S.F.
- 3 Bd | 2.5 Ba; Opt Bd 4
- 2 car side-by-side garage

typical
Plan 3 (Cluster SFD)
- ± 2,123 S.F.
- 4 Bd | 3 Ba; Opt Bd 5
- 2 car side-by-side garage

typical
Plan 2 (Cluster SFD)
- ± 1,980 S.F.
- 3 Bd | 2.5 Ba, Tech
- 2 car side-by-side garage

Front Setback From S. Santa Anita Ave 25' Min. From "Special Setback" as per 9103.01.060.F

Project Summary

Total Site Area: ± 2.88 Acres

Total Units: 33 Homes
- (13) 2-Story Small Lot SFD
  - (9) Plan 1: ±1,821 SF; 3 Bd | 2.5 Ba; Opt Bd 4
  - (4) Plan 2: ±1,980 SF; 3 Bd | 2.5 Ba; Tech
- (20) 2-Story Cluster SFD
  - (6) Plan 1: ±1,821 SF; 3 Bd | 2.5 Ba; Opt Bd 4
  - (6) Plan 2: ±1,980 SF; 3 Bd | 2.5 B; Tech
  - (8) Plan 3: ±2,123 SF; 4 Bd | 3 Ba; Opt Bd 5

Density: 11.46 Homes per Acre

Parking:

Required: 82.5 Spaces (2.50 spaces per home)
- (33) 1 Unit x 2.0 Spaces = 66 Spaces
- (33) Guest x 0.5 Spaces = 16.5 Spaces

Provided: 93 Spaces (2.82 spaces per home)
- Garage: 66 Unit Spaces
- Driveway: 9 Spaces (10' x 19')
- Driveway: 11 Spaces (10' x 20')
- Head In: 7 Spaces (9' x 19')

Total: 27 Guest Parking Spaces

Open Space:

Required: 3,300 S.F. Total (100 S.F. per home)
- Common: 3,300 S.F. (100 S.F. per home)

Provided: 23,700 S.F. Total (718 S.F. per home)
- Common: 4,400 S.F. (10' Min. Dimension)
- Private: 19,300 S.F. (10' Min. Dimension)

Zoning Summary

APN:	5788-020-015 & 5788-020-029
Address:	2607 S. Santa Ana Ave, Arcadia, CA 91006
Zoning:	Medium Density Residential (R-2)
Max. Density:	1 unit per 3,750 sf of lot area 125,452.8 sf (site area) / 3,750 sf 33.45 du max
Building Setbacks:	Front Yard: 25' Side Yard: 10' Rear Yard: 10'

Santa Anita Ave Setback: 55' From Center Line (Overlayed with required min. 25' setback; setback whichever is greater

Building Separation:	6' minimum
Max. Building Height:	30' and 3 Stories
Min. Open Space:	100 SF per Unit

Notes:
1. Site plan is for conceptual purposes only.
2. Site plan must be reviewed by planning, building, and fire departments for code compliance.
3. Base information per civil engineer.
4. Civil engineer to verify all setbacks and grading information
5. Building Footprints might change due to the final design elevation style.
6. Open space area is subject to change due to the balcony design of the elevation.
7. Building setbacks are measured from property lines to building foundation lines.

Conceptual Site Plan

THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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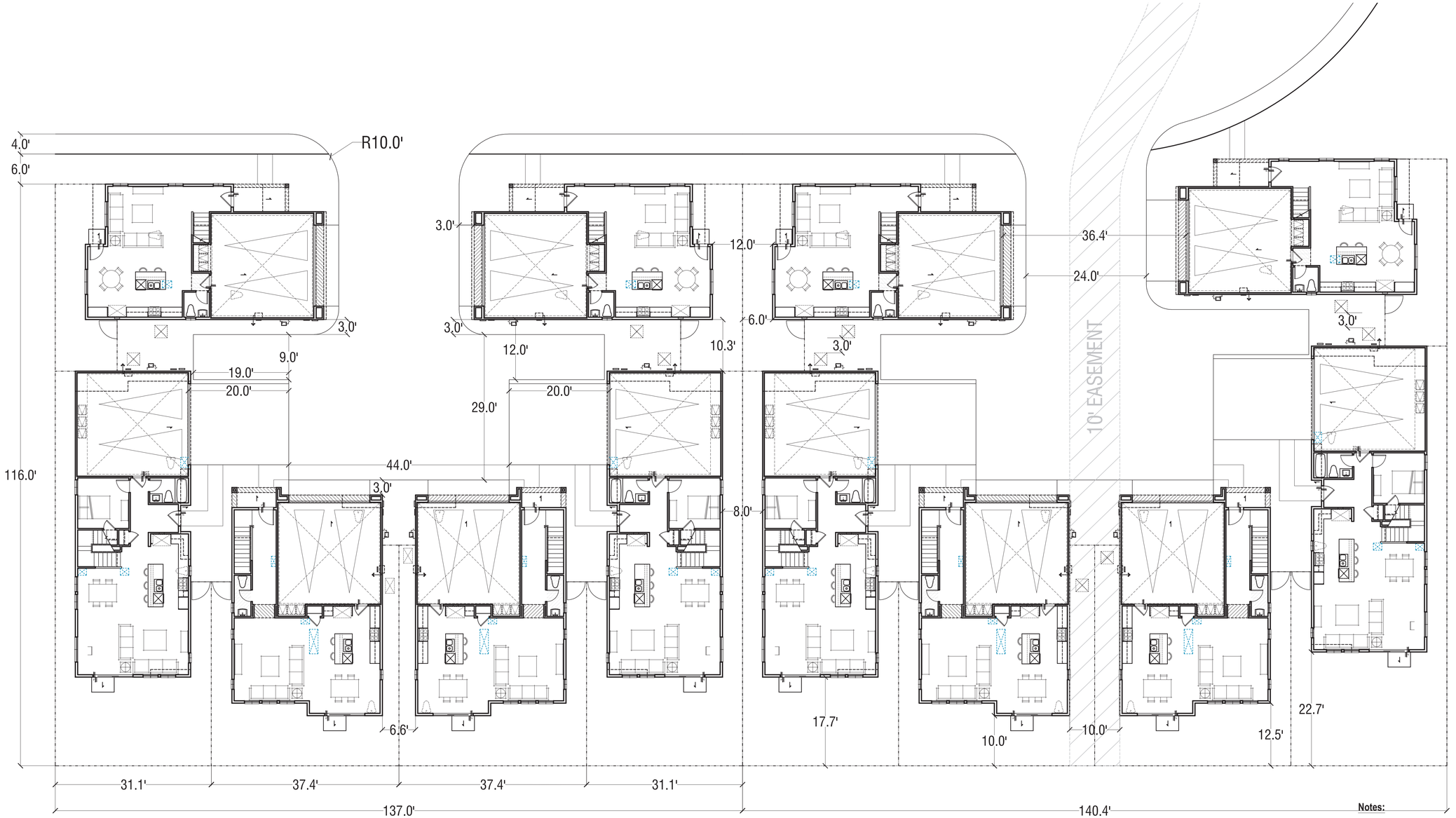
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Notes:

1. Site plan is for conceptual purposes only.
2. Site plan must be reviewed by planning, building, and fire departments for code compliance.
3. Base information per civil engineer.
4. Civil engineer to verify all setbacks and grading information
5. Building Footprints might change due to the final design elevation style.
6. Open space area is subject to change due to the balcony design of the elevation.
7. Building setbacks are measured from property lines to building foundation lines.

Conceptual Cluster Floor Plan

THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

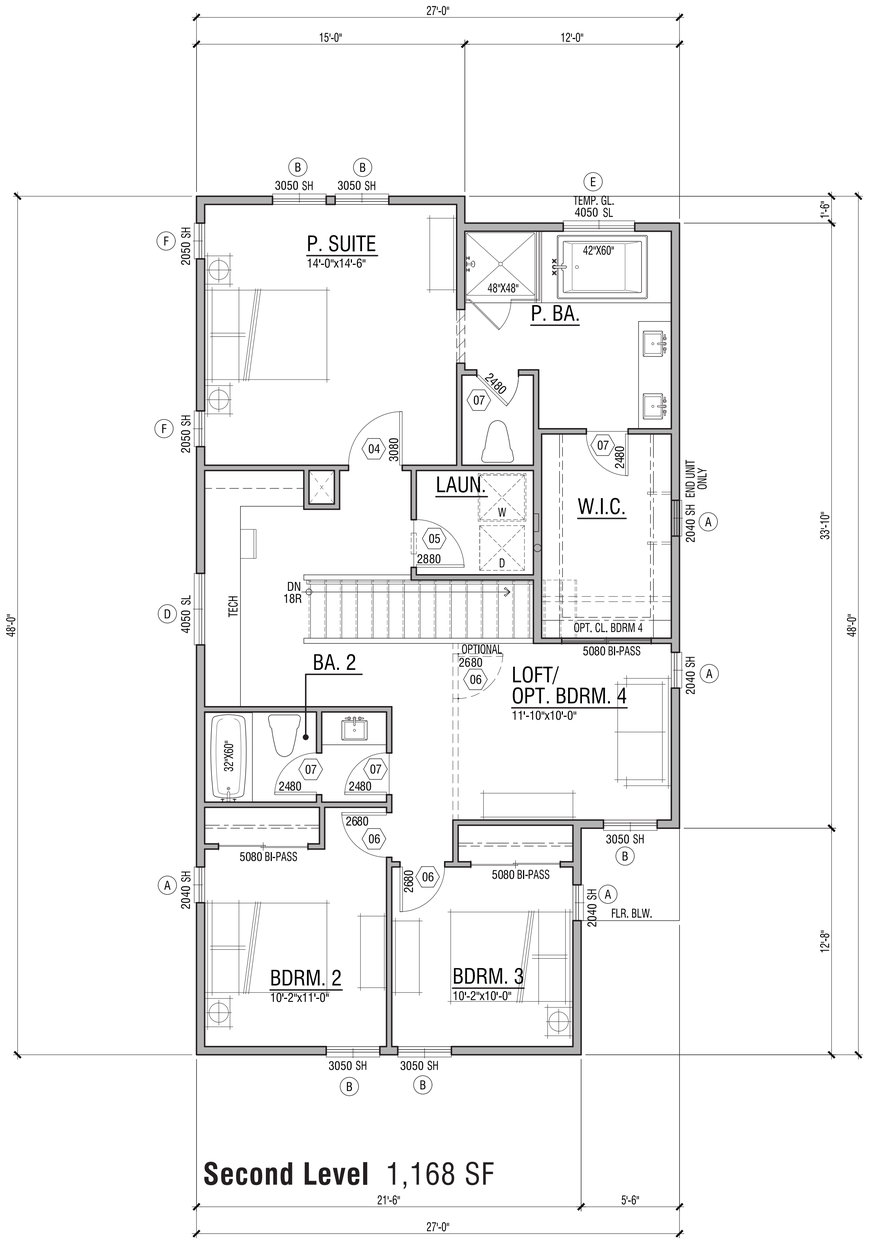
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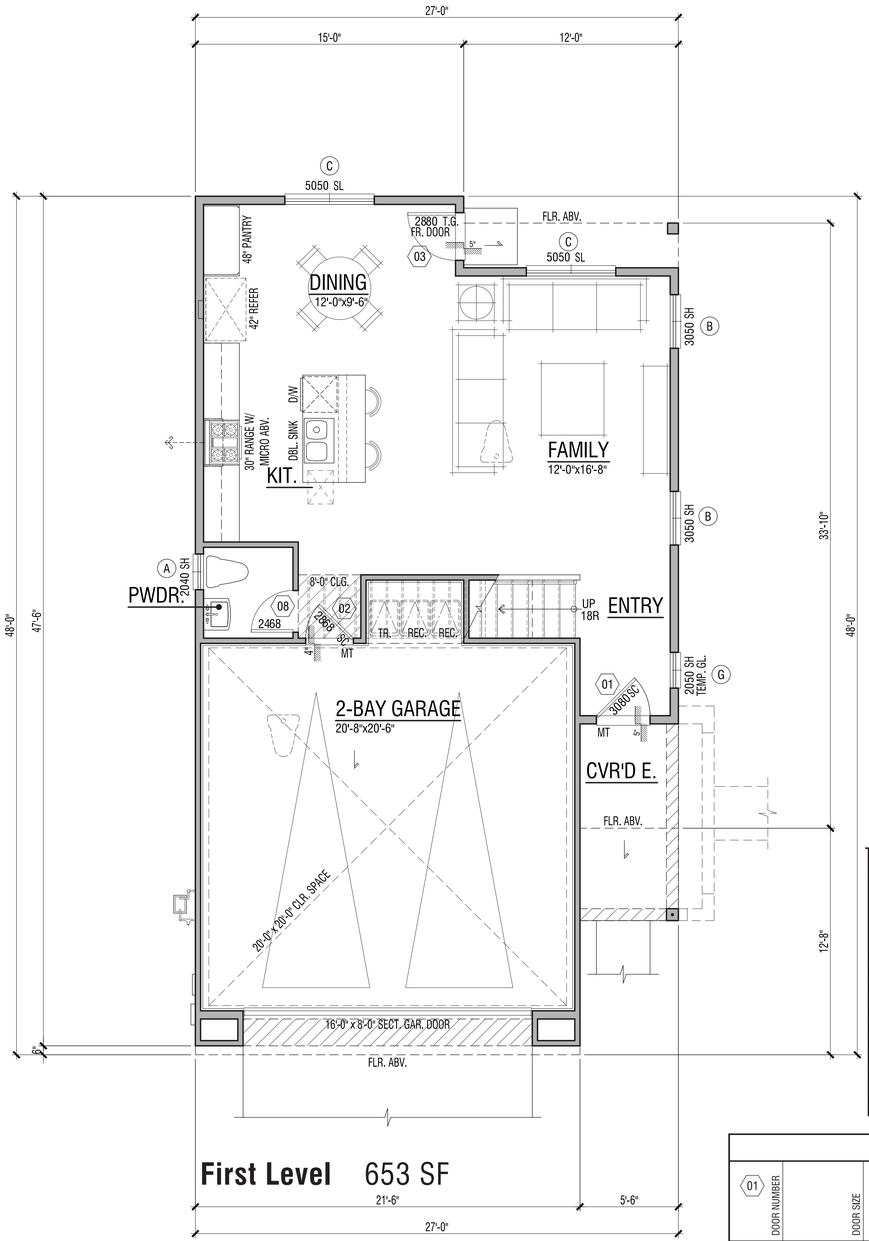
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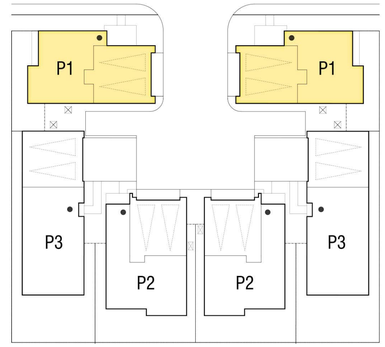
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Typical Cluster Plotting Location

DWELLING PLAN SUMMARY - PLAN 1	
ROOM TYPE	QUANTITY
BEDROOM(S)	3-4
BATH(S)	2.5

FLOOR AREA TABLE	PLAN 1A
FIRST LEVEL	653 SQ. FT.
SECOND LEVEL	1168 SQ. FT.
TOTAL	1821 SQ. FT.
2-BAY GARAGE	470 SQ. FT.
COVERED ENTRY	60 SQ. FT.

NOTE: SQUARE FOOTAGE MAY VARY DUE TO METHOD OF CALCULATION

Manufacturer:
Champion Windows (white vinyl)
or Equal

WINDOW SCHEDULE

(A) WINDOW LETTER	WINDOW SIZE	WINDOW TYPE	FRAME TYPE	GLAZING TYPE	GLAZING NOTE
A	2'-0" X 4'-0"	SINGLE HUNG	VINYL	DUAL PANE	
B	3'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	
C	5'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	
D	4'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	
E	4'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	TEMPERED
F	2'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	
G	2'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	TEMPERED

DOOR SCHEDULE

(01) DOOR NUMBER	DOOR SIZE	FRAME TYPE	THRESHOLD	DOOR TYPE	DOOR MATERIAL	NOTES
01	3'-0" X 8'-0"	WOOD	METAL	EXT. SOLID CORE	FIBERGLASS	
02	2'-8" X 6'-8"	WOOD	METAL	INT. SOLID CORE	WOOD	
03	2'-8" X 8'-0"	VINYL	VINYL	EXT. FRENCH DR.	VINYL	TEMPERED GLAZING
04	3'-0" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
05	2'-8" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
06	2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
07	2'-4" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
08	2'-4" X 6'-8"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
09	(2) 2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE BIPASS	WOOD	

1,821 SF
3 Bedroom | 2.5 Bath
Loft/Opt. Bedroom 4
2 Car Garage

PLAN 1 | Floor Plan

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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Plan 1A



Plan 1B

COTTAGE: Color Scheme# 1

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2" Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

CONTEMPORARY FARMHOUSE: Color Scheme# 3

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Exterior:	Stucco with Lap Siding
Window & Door Trim:	2" Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 1 | Front Elevations

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

Note: Artist's Conception; Colors, Materials And Application May Vary.

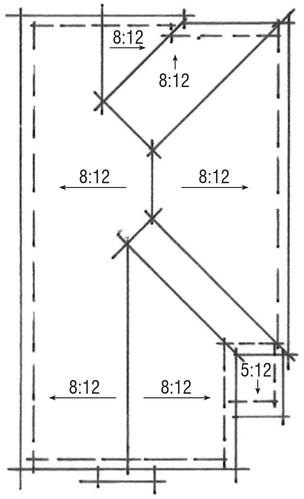
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Roof Plan: 1-8” Scale



Left



Rear



Right

COTTAGE: Color Scheme# 1

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2” Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 1A | Cottage

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THE ENCLAVE ON SANTA ANITA

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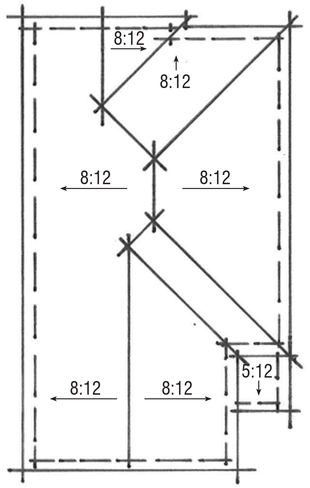
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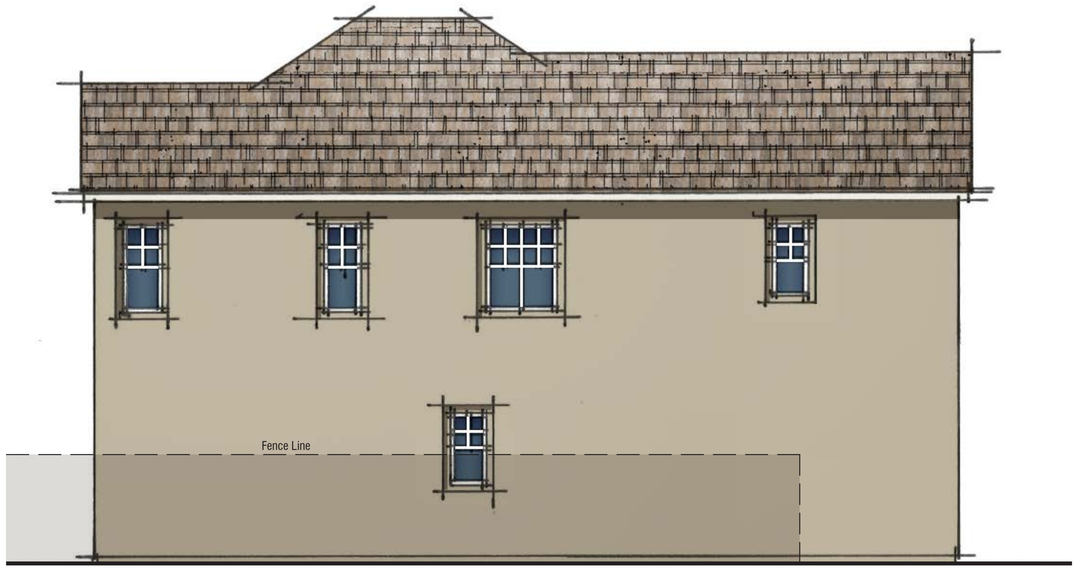
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Roof Plan: 1-8” Scale



Left



Rear



Right

CONTEMPORARY FARMHOUSE: Color Scheme# 3

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Exterior:	Stucco with Lap Siding
Window & Door Trim:	2” Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 1B | Contemporary Farmhouse

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THE ENCLAVE ON SANTA ANITA

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1A Front Street Facing

Used on Lots Facing Private Street & Santa Anita Avenue



1B Front Street Facing

Used on Lots Facing Private Street & Santa Anita Avenue

PLAN 1 | Front Street Facing Elevations (Enhanced)

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THE ENCLAVE ON SANTA ANITA

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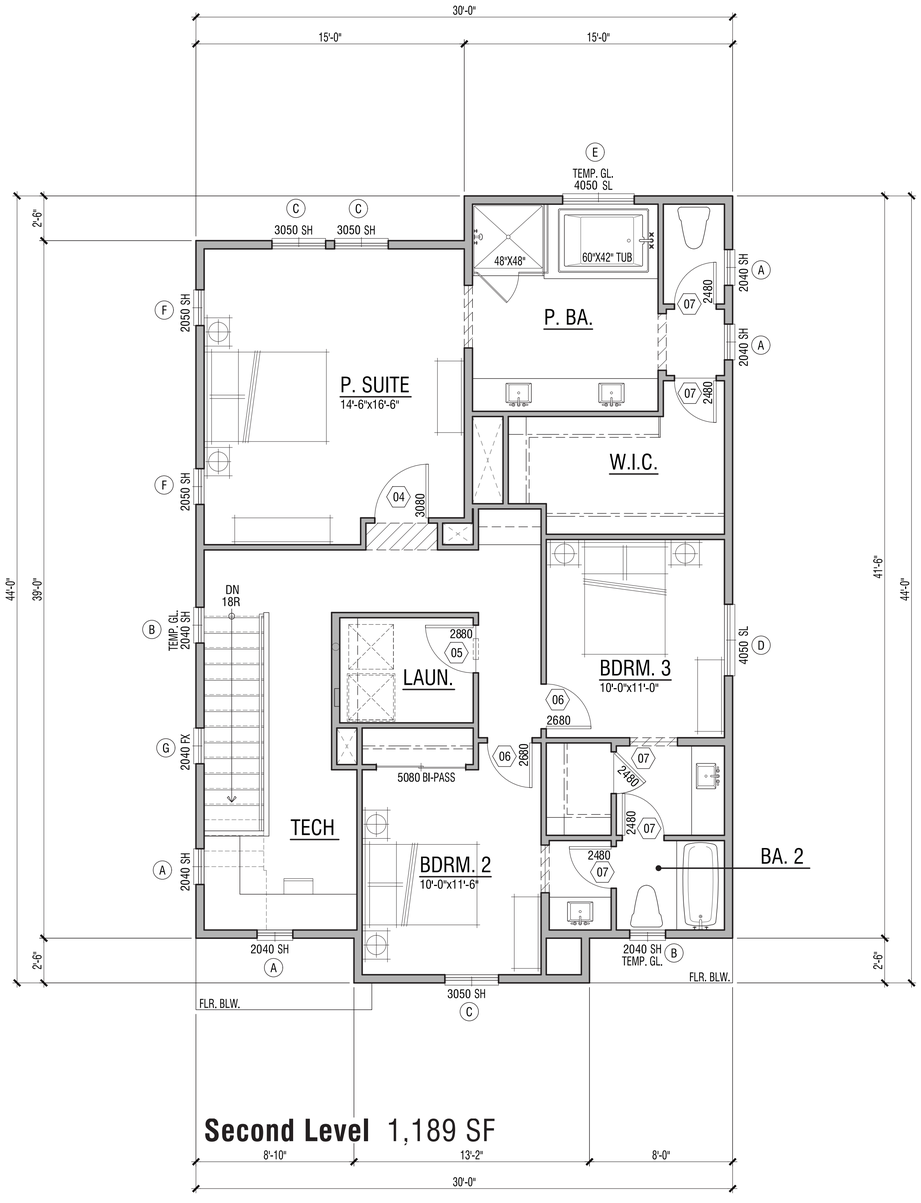
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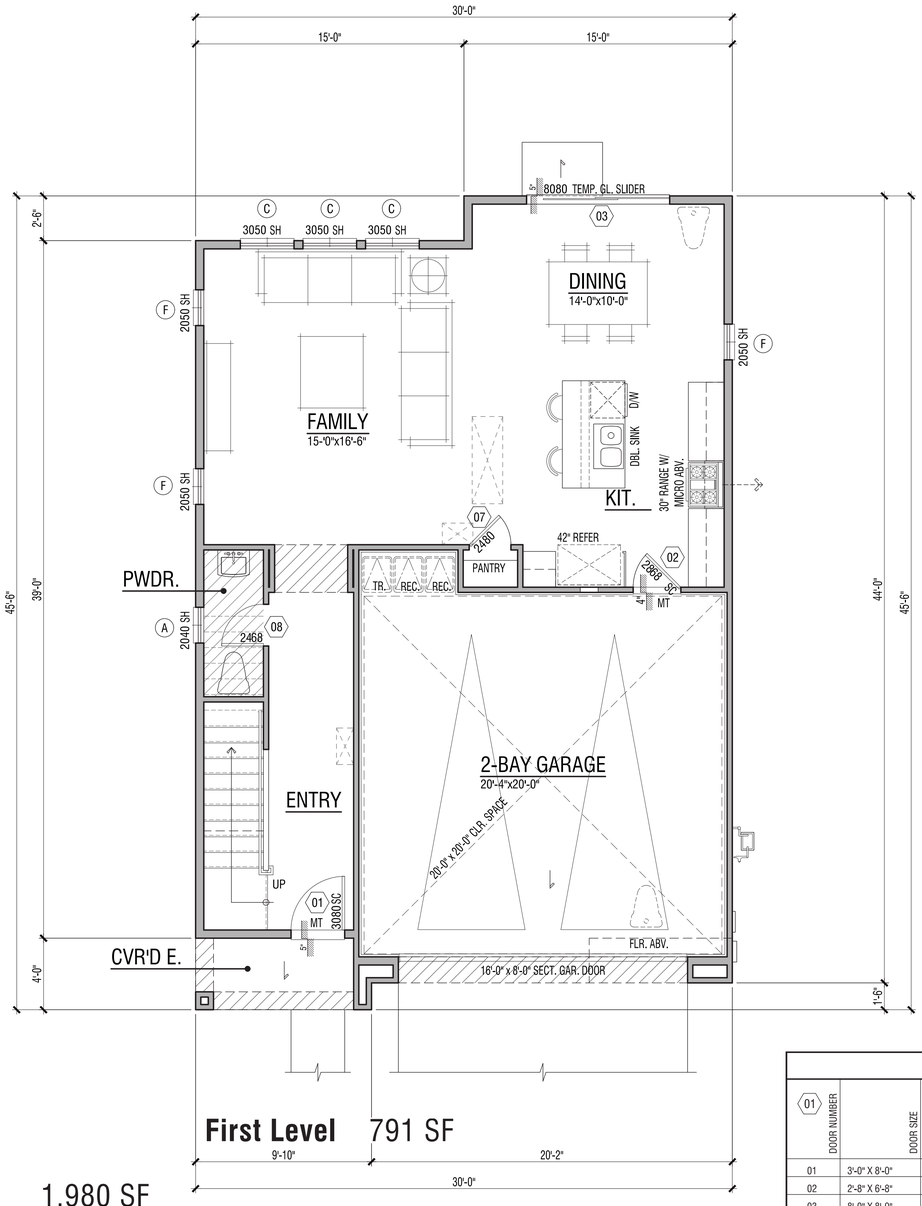
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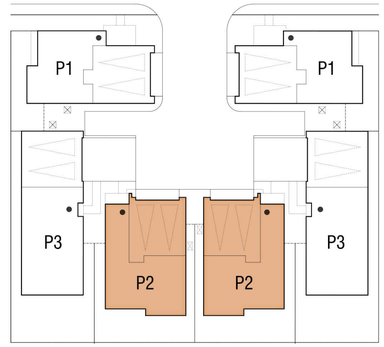


Second Level 1,189 SF



First Level 791 SF

1,980 SF
3 Bedroom | 2.5 Bath I Tech
2 Car Garage



Typical Cluster Plotting Location

DWELLING PLAN SUMMARY - PLAN 2	
ROOM TYPE	QUANTITY
BEDROOM(S)	3
BATH(S)	2.5

FLOOR AREA TABLE	PLAN 2A
FIRST LEVEL	791 SQ. FT.
SECOND LEVEL	1189 SQ. FT.
TOTAL	1980 SQ. FT.
2-BAY GARAGE	448 SQ. FT.
COVERED ENTRY	36 SQ. FT.

NOTE: SQUARE FOOTAGE MAY VARY DUE TO METHOD OF CALCULATION

Manufacturer:
Champion Windows (white vinyl)
or Equal

WINDOW SCHEDULE

Ⓐ WINDOW LETTER	WINDOW SIZE	WINDOW TYPE	FRAME TYPE	GLAZING TYPE	GLAZING NOTE
A	2'-0" X 4'-0"	SINGLE HUNG	VINYL	DUAL PANE	
B	2'-0" X 4'-0"	SINGLE HUNG	VINYL	DUAL PANE	TEMPERED
C	3'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	
D	4'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	
E	4'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	TEMPERED
F	2'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	
G	2'-0" X 4'-0"	FIXED	VINYL	DUAL PANE	

DOOR SCHEDULE

⬡01 DOOR NUMBER	DOOR SIZE	FRAME TYPE	THRESHOLD	DOOR TYPE	DOOR MATERIAL	NOTES
01	3'-0" X 8'-0"	WOOD	METAL	EXT. SOLID CORE	FIBERGLASS	
02	2'-8" X 6'-8"	WOOD	METAL	INT. SOLID CORE	WOOD	
03	8'-0" X 8'-0"	VINYL	VINYL	EXT. SLIDER	VINYL	TEMPERED GLAZING
04	3'-0" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
05	2'-8" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
06	2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
07	2'-4" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
08	2'-4" X 6'-8"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
09	(2) 2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE BIPASS	WOOD	

PLAN 2 | Floor Plan

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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Plan 2A

COTTAGE: Color Scheme# 2

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2" Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites



Plan 2B

CONTEMPORARY FARMHOUSE: Color Scheme# 3

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Gable:	Decorative Vent
Exterior:	Stucco with Lap Siding, Brick
Window & Door Trim:	2" Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 2 | Front Elevations

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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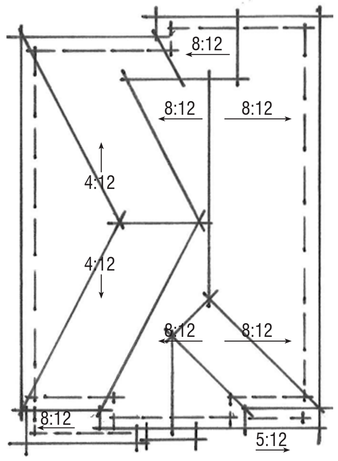
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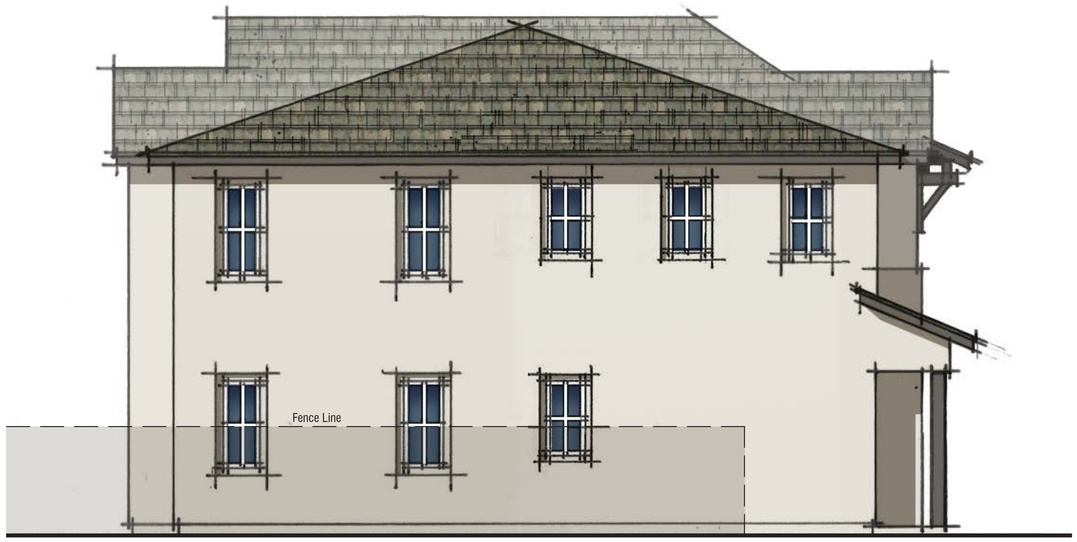
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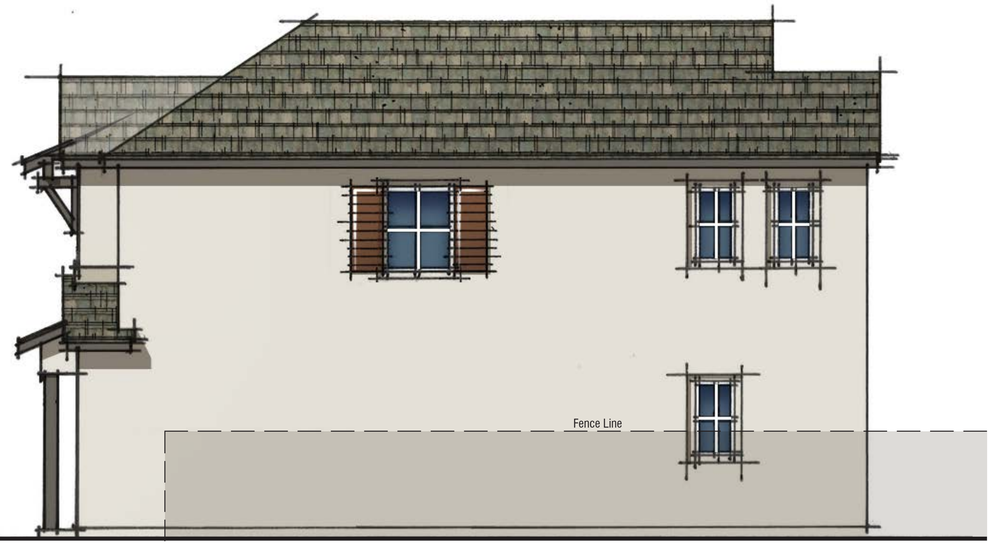
Roof Plan: 1-8” Scale



Left



Rear



Right

COTTAGE: Color Scheme# 2

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2” Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 2A | Cottage

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

Note: Artist’s Conception; Colors, Materials And Application May Vary.

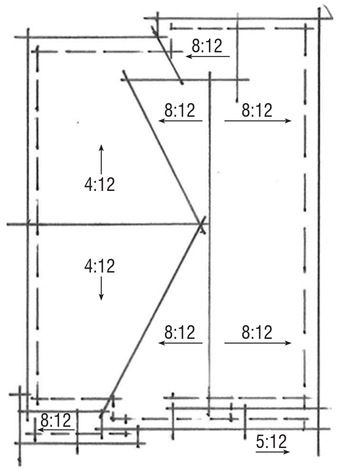
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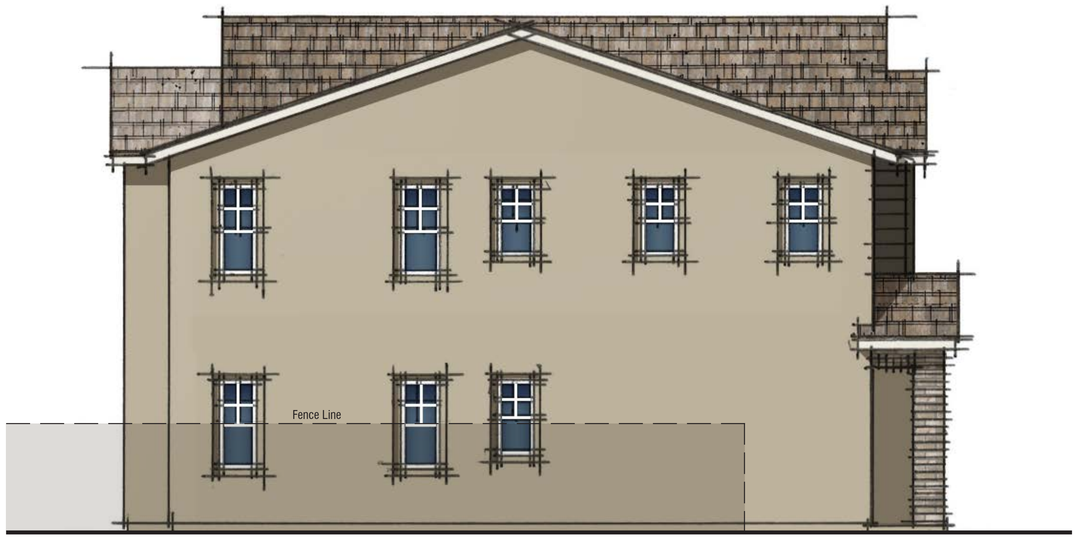
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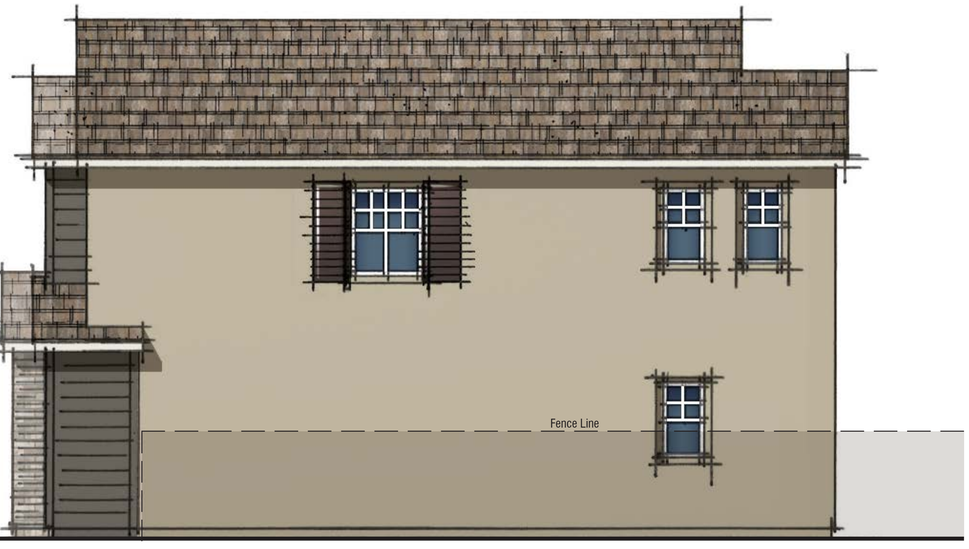
Roof Plan: 1-8” Scale



Left



Rear



Right

CONTEMPORARY FARMHOUSE: Color Scheme# 3

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Gable:	Decorative Vent
Exterior:	Stucco with Lap Siding, Brick
Window & Door Trim:	2” Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 2B | Contemporary Farmhouse

THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

Note: Artist’s Conception; Colors, Materials And Application May Vary.

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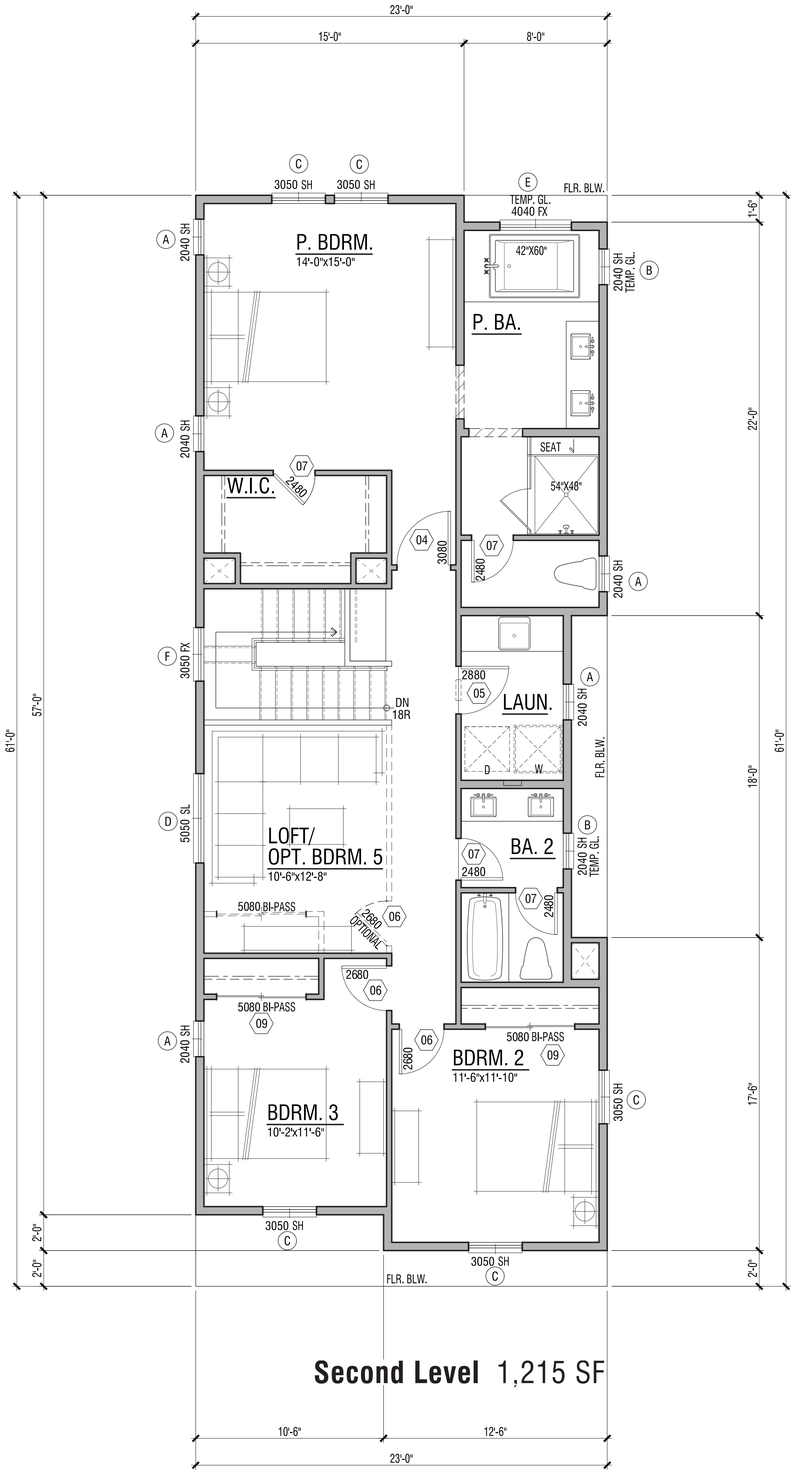
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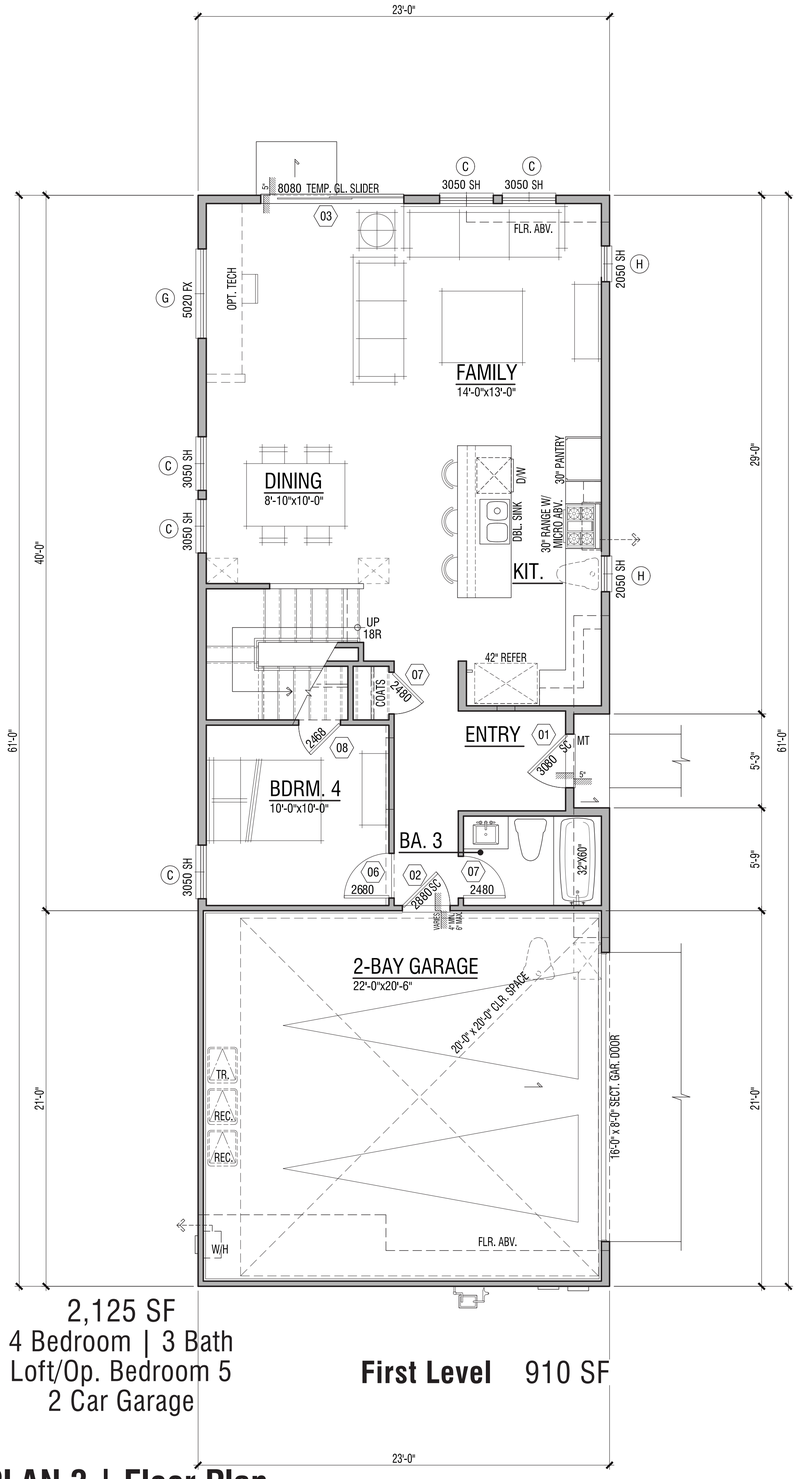
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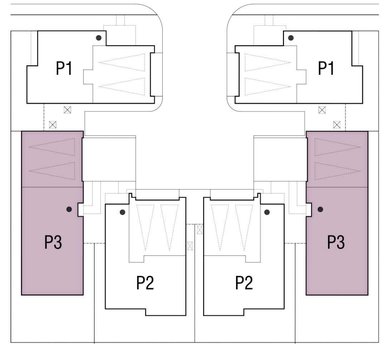
Second Level 1,215 SF



2,125 SF
4 Bedroom | 3 Bath
Loft/Op. Bedroom 5
2 Car Garage

First Level 910 SF

PLAN 3 | Floor Plan



Typical Cluster Plotting Location

DWELLING PLAN SUMMARY - PLAN 3	
ROOM TYPE	QUANTITY
BEDROOM(S)	4-5
BATH(S)	3

FLOOR AREA TABLE	PLAN 3A
FIRST LEVEL	910 SQ. FT.
SECOND LEVEL	1215 SQ. FT.
TOTAL	2125 SQ. FT.
2-BAY GARAGE	483 SQ. FT.
COVERED ENTRY	10 SQ. FT.

NOTE: SQUARE FOOTAGE MAY VARY DUE TO METHOD OF CALCULATION

Manufacturer:
Champion Windows (white vinyl) or Equal

WINDOW SCHEDULE

(A) WINDOW LETTER	WINDOW SIZE	WINDOW TYPE	FRAME TYPE	GLAZING TYPE	GLAZING NOTE
A	2'-0" X 4'-0"	SINGLE HUNG	VINYL	DUAL PANE	
B	2'-0" X 4'-0"	SINGLE HUNG	VINYL	DUAL PANE	TEMPERED
C	3'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	
D	5'-0" X 5'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	
E	4'-0" X 4'-0"	HORIZ. SLIDER	VINYL	DUAL PANE	TEMPERED
F	3'-0" X 5'-0"	FIXED	VINYL	DUAL PANE	
G	5'-0" X 2'-0"	FIXED	VINYL	DUAL PANE	
H	2'-0" X 5'-0"	SINGLE HUNG	VINYL	DUAL PANE	TEMPERED

DOOR SCHEDULE

(01) DOOR NUMBER	DOOR SIZE	FRAME TYPE	THRESHOLD	DOOR TYPE	DOOR MATERIAL	NOTES
01	3'-0" X 8'-0"	WOOD	METAL	EXT. SOLID CORE	FIBERGLASS	
02	2'-8" X 8'-0"	WOOD	METAL	INT. SOLID CORE	WOOD	
03	8'-0" X 8'-0"	VINYL	VINYL	EXT. SLIDER	VINYL	TEMPERED GLAZING
04	3'-0" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
05	2'-8" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
06	2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
07	2'-4" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
08	2'-4" X 6'-8"	WOOD	NONE	INT. HOLLOW CORE	WOOD	
09	(2) 2'-6" X 8'-0"	WOOD	NONE	INT. HOLLOW CORE BIPASS	WOOD	

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THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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Plan 3A

COTTAGE: Color Scheme# 4

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2” Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites



Plan 3B

CONTEMPORARY FARMHOUSE: Color Scheme# 1

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Gable:	Decorative Vent
Exterior:	Stucco with Lap Siding, Brick
Window & Door Trim:	2” Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 3 | Front Elevations

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Note: Artist’s Conception; Colors, Materials And Application May Vary.

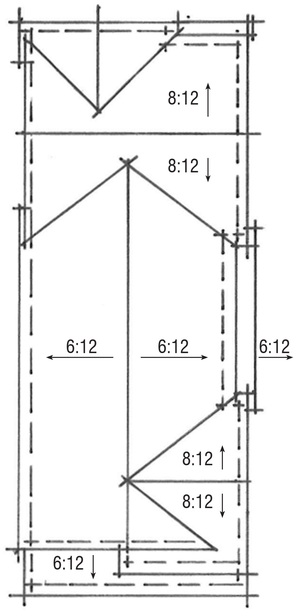
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Roof Plan: 1-8” Scale



Left



Rear



Right

COTTAGE: Color Scheme# 4

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia with Outlookers
Barge:	Wood Barge Board
Exterior:	Stucco
Window & Door Trim:	2” Recess at Stucco
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 3A | Cottage

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THE ENCLAVE ON SANTA ANITA

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Note: Artist’s Conception; Colors, Materials And Application May Vary.

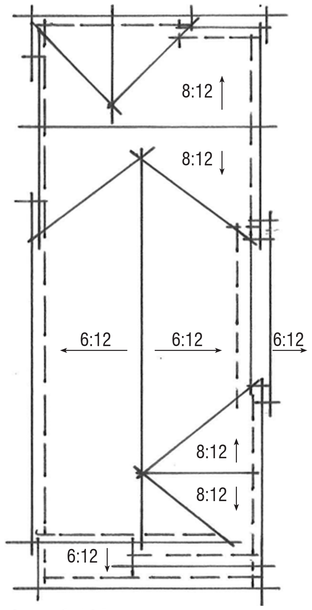
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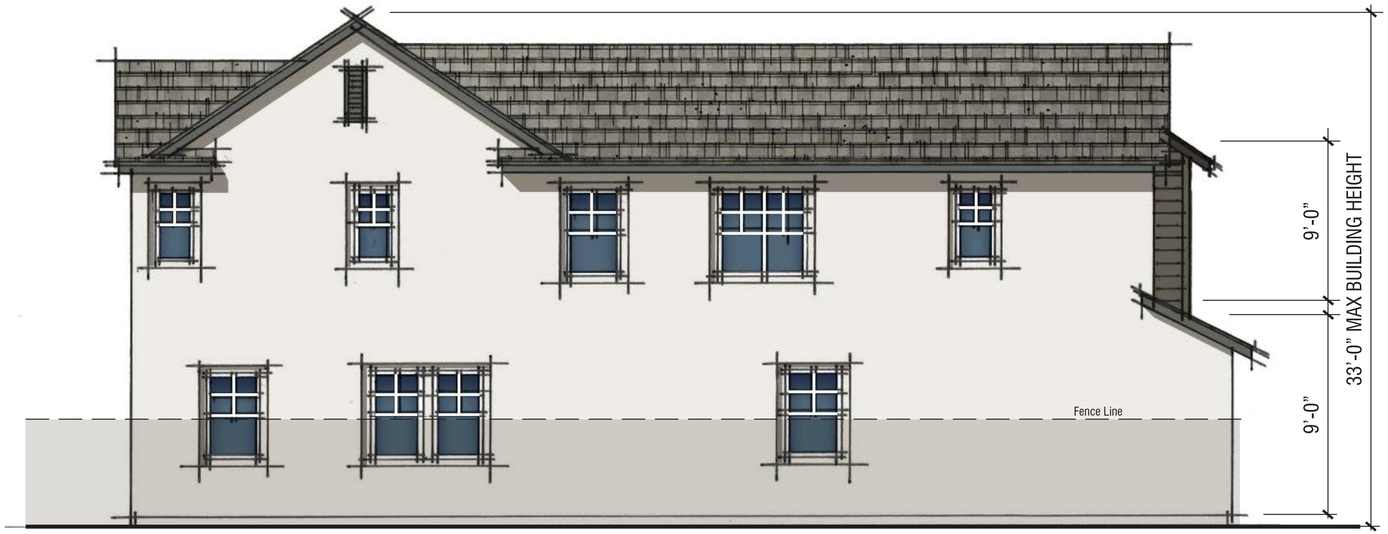
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Roof Plan: 1-8” Scale



Left



Rear



Right

CONTEMPORARY FARMHOUSE: Color Scheme# 1

Roof:	Concrete Shake Tile
Fascia:	2X Wood Fascia
Barge:	Wood Barge Board
Gable:	Decorative Vent
Exterior:	Stucco with Lap Siding, Brick
Window & Door Trim:	2” Recess at Stucco/Wood Trim at Siding
Entry Door:	Decorative Front Entry Door
Garage Door:	Metal Sectional Garage Door with Glass Lites

PLAN 3B | Contemporary Farmhouse

THE ENCLAVE ON SANTA ANITA

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Plan 3B - Lot 14
Priavte Street Facing Elevation



Plan 3B - Lot 14
Front Elevation



Plan 3A - Lot 15
Private Street Facing Elevation



Plan 3A - Lot 15
Front Elevation

Alternate Exterior Elevations

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THE ENCLAVE ON SANTA ANITA

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Plan 3A - Lot 32
Santa Anita Rear Street Facing Elevation



Plan 1BR - Lot 33
Santa Anita Rear Street Facing Elevation

Alternate Exterior Elevations

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Cottage









Contemporary Farmhouse

Architectural Details

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THE ENCLAVE ON SANTA ANITA

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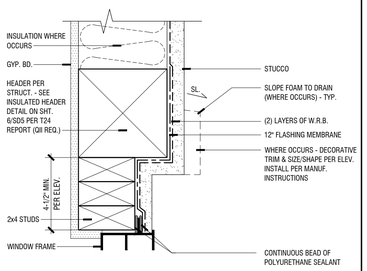
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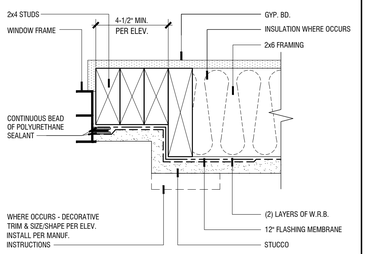
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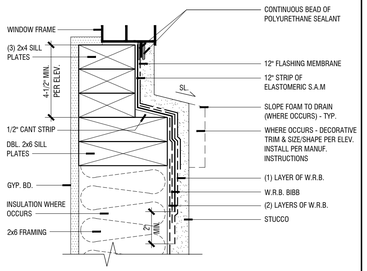
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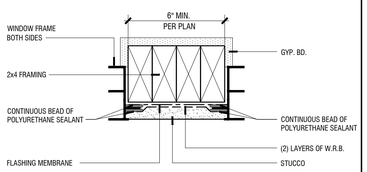
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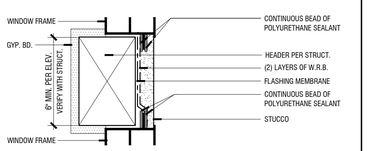
WINDOW JAMB



WINDOW SILL



WINDOW MULLION



TRANSOM AT WINDOW

NOTE: SEE DETAIL 1 ON SHT. 2.2 FOR APPLICATION

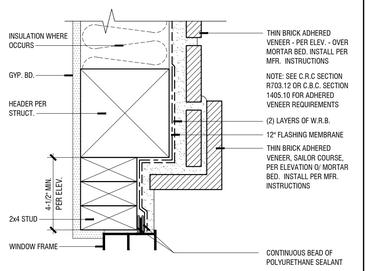
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RECSSED WINDOW INSTALLATION - 2x6 WALL AT STUCCO

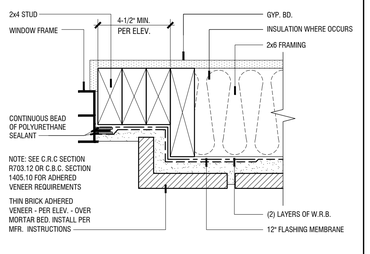
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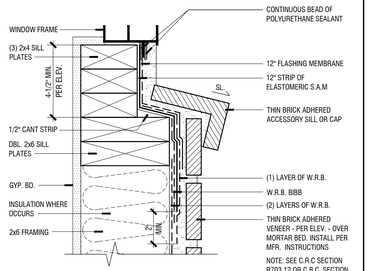
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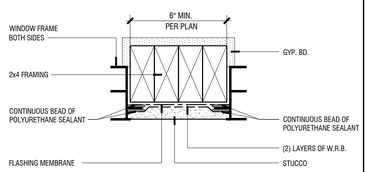
WINDOW HEAD



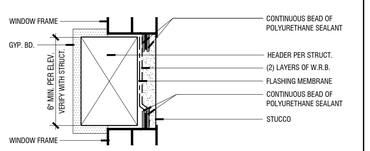
WINDOW JAMB



WINDOW SILL



WINDOW MULLION



TRANSOM AT WINDOW

NOTE: SEE DETAIL 1 ON SHT. D2.2 FOR APPLICATION

NOTE: CONTRACTOR TO CONSTRUCT AND CERTIFY THAT EXTERIOR OPENINGS EXPOSED TO THE WEATHER SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHER-RESISTANT PER C.R.C. SECTION R703.1 OR C.B.C. SECTION 1405.4, FLASHING AND COUNTER FLASHING.

RECSSED WINDOW INSTALLATION - 2x6 WALL AT THIN-BRICK

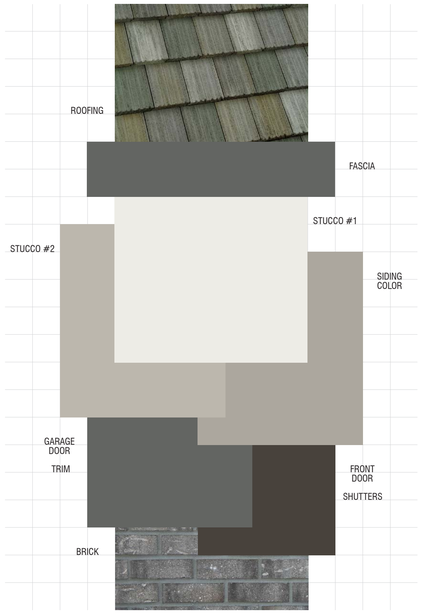
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3C-WI-WINR2-TBRK-01

3

Typical Window Details at Recessed Conditions

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June 1, 2021 | 2020343

SCHEME 1
All Elevations

For exact color refer to manufacturer actual samples.
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[1]2607 SOUTH SANTA ANITA AVE.

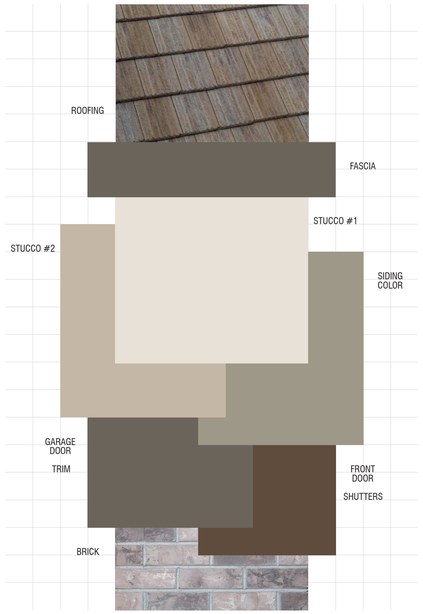
Arcadia, California
RC HOMES, INC.
February 5, 2021 | 2020343

Exterior Color & Materials

SCHEME 1 OF 4 — ALL ELEVATIONS

Material	Color	Manufacturer
Roofing: Concrete Shake Tile	SCP 8805 Seattle Blend Ref: .15 Emi: .94 A.SRI: 15 CRRC: 0918-0038	Eagle
Vinyl Windows *(factory finish)*	[1]White	TBD
Gutters & Downspouts	Match Adjacent Color	TBD
[1]Brick *(standard raked joint)*	Constellation Sanded	H.C. Muddox
[1]Mortar @ Brick	[1]Misty Cove	Orco
Stucco #1 *(16/20 sand finish)*	Match Sherwin Williams SW 7005 Pure White	Omega
[1]Stucco #2 *(16/20 sand finish)*	Match Sherwin Williams SW 7016 Mindful Gray	Omega
Siding Color *(applied to):* Horizontal Siding	SW 7017 Dorian Gray	Sherwin Williams
Trim Color *(applied to):* Barge Boards, Eaves, Fascia, Garage Door, [1]Outlookers, Posts, [1]Secondary Doors, Trim	SW 7068 Grizzle Gray	Sherwin Williams
Accent Color *(applied to):* Front Door, [1]Shutters	SW 7675 Sealskin	Sherwin Williams
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	TBD

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SCHEME 2
All Elevations

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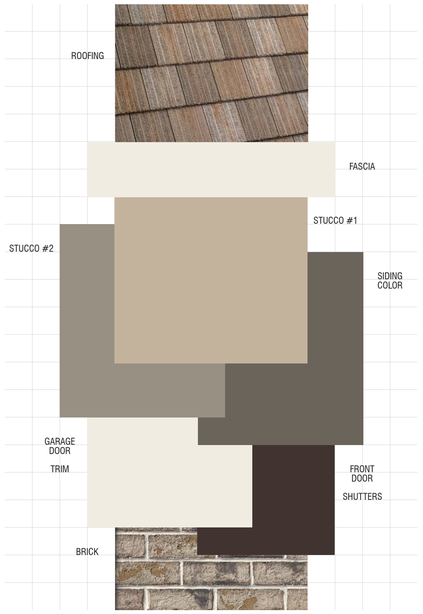
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Exterior Color & Materials

SCHEME 2 OF 4 — ALL ELEVATIONS

Material	Color	Manufacturer
Roofing: Concrete Shake Tile	5634 Kings Canyon Blend Ref: .13 Emi: .94 A.SRI: 16 CRRC: 0918-0044	Eagle
Vinyl Windows *(factory finish)*	[1]White	TBD
Gutters & Downspouts	Match Adjacent Color	TBD
[1]Brick *(standard raked joint)*	Chardel Blend	H.C. Muddox
[1]Mortar @ Brick	Soft Tan	Orco
Stucco #1 *(16/20 sand finish)*	Match Sherwin Williams SW 7627 White Heron	Omega
[1]Stucco #2 *(16/20 sand finish)*	Match Sherwin Williams SW 7506 Loggia	Omega
Siding Color *(applied to):* Horizontal Siding	SW 9126 Honed Soapstone	Sherwin Williams
Trim Color *(applied to):* Barge Boards, Eaves, Fascia, Garage Door, [1]Outlookers, Posts, [1]Secondary Doors, Trim	SW 7047 Porpoise	Sherwin Williams
Accent Color *(applied to):* Front Door, [1]Shutters	SW 9091 Half-Calf	Sherwin Williams
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	TBD

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SCHEME 3
All Elevations

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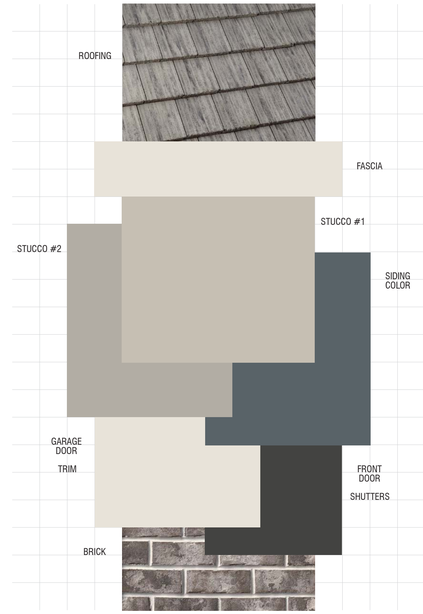
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Exterior Color & Materials

SCHEME 3 OF 4 — ALL ELEVATIONS

Material	Color	Manufacturer
Roofing: Concrete Shake Tile	5808 Tombstone Blend Ref: .17 Emi: .95 A.SRI: 20 CRRC: 0918-0097	Eagle
Vinyl Windows *(factory finish)*	[1]White	TBD
Gutters & Downspouts	Match Adjacent Color	TBD
[1]Brick *(standard raked joint)*	Coastal Bluff Salisbury Collection	Meridian
[1]Mortar @ Brick	Khaki	Orco
Stucco #1 *(16/20 sand finish)*	Match Sherwin Williams SW 7530 Barcelona Beige	Omega
[1]Stucco #2 *(16/20 sand finish)*	Match Sherwin Williams SW 9171 Felted Wool	Omega
Siding Color *(applied to):* Horizontal Siding	SW 7047 Porpoise	Sherwin Williams
Trim Color *(applied to):* Barge Boards, Eaves, Fascia, Garage Door, [1]Outlookers, Posts, [1]Secondary Doors, Trim	SW 7551 Greek Villa	Sherwin Williams
Accent Color *(applied to):* Front Door, [1]Shutters	SW 6006 Black Bean	Sherwin Williams
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	TBD

NOTE: Notify WHA if any variation occurs between these schemes and the construction documents prior to purchase.
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SCHEME 4
All Elevations

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Exterior Color & Materials

SCHEME 4 OF 4 — ALL ELEVATIONS

Material	Color	Manufacturer
Roofing: Concrete Shake Tile	5511 Flintridge Gray Ref: .21 Emi: .93 A.SRI: 20 CRRC: 0918-0003	Eagle
Vinyl Windows *(factory finish)*	[1]White	TBD
Gutters & Downspouts	Match Adjacent Color	TBD
[1]Brick *(standard raked joint)*	Wynnewood Select Terrehaute Select Series	Meridian
[1]Mortar @ Brick	Misty Cove	Orco
Stucco #1 *(16/20 sand finish)*	Match Sherwin Williams SW 1015 Skyline Steel	Omega
[1]Stucco #2 *(16/20 sand finish)*	Match Sherwin Williams SW 7643 Pussywillow	Omega
Siding Color *(applied to):* Horizontal Siding	SW 6236 Grays Harbor	Sherwin Williams
Trim Color *(applied to):* Barge Boards, Eaves, Fascia, Garage Door, [1]Outlookers, Posts, [1]Secondary Doors, Trim	SW 7009 Pearly White	Sherwin Williams
Accent Color *(applied to):* Front Door, [1]Shutters	SW 7069 Iron Ore	Sherwin Williams
Garage Door Weatherstrip *(factory finish)*	Match Garage Door Color	TBD

NOTE: Notify WHA if any variation occurs between these schemes and the construction documents prior to purchase.
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Color Schemes

THE ENCLAVE ON SANTA ANITA

2607 S. SANTA ANITA AVENUE ARCADIA, CA 91006 APN 5788-020-015 & 5788-020-029

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TOTAL ON SITE TREE SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY	REMARKS
	ARB MIY	Arbutus x 'Marina' Marina Strawberry Tree	24"box	3	MITIGATION TREE
	ARC CUN	Archontophoenix cunninghamiana King Palm	24"box	5	
	BRA PPL	Brachychiton populneus Kurrajong	24"box	5	MITIGATION TREE
	CER OCC	Cercis occidentalis Western Redbud	24"box	28	
	CIN CAM	Cinnamomum camphora Camphor Tree	36"box	3	
	ERI DEF	Eriobotrya deflexa Bronze Loquat	24"box	3	
	PLA COL	Platanus x acerifolia 'Columbia' Columbia London Plane Tree	24"box	8	MITIGATION TREE
	ROB PU2	Robinia x ambigua 'Purple Robe' Pink Flowering Locust	24"box	13	

TOTAL MITIGATION TREES ON SITE: 16
TOTAL ON SITE TREES: 68

LANDSCAPE PLAN SYMBOLS:

- OPEN SPACE LANDSCAPE
- FRONTYARD LANDSCAPE AREAS:
- PRIVATE LANDSCAPE AREA
- 5' TALL SOLID WALL
- 6' TALL VINYL FENCE
- SIDEYARD GATES
- AIR CONDITION UNITS

REFERENCE_NOTES_SCHEDULE

CODE	DESCRIPTION
1	STAINED CONCRETE PAVING RECTANGULAR SAWCUT PATTERN.
2	VISITORS CALL BOX
3	24" TALL FREE STANDING DECORATIVE ACCENT WALLS
4	LARGE DECORATIVE CONTAINER POTTERY with ACCENT PLANTS
5	5 FT TALL STUCCO WALL with SPLIT-FACE PILASTERS
6	AUTO SLIDING ENTRY GATES
7	DECORATIVE COBBLESTONE GROUND COVER
8	6 FT TALL STUCCO WALL with SPLIT-FACE PILASTERS
10	PROJECT SIGNAGE
11	COMMUNITY PEDESTRIAN WALKWAY
12	ASPHALT PAVEMENT
13	VINYL SIDEYARD GATES & LOT LINE FENCE
14	6FT TALL EXISTING MASONRY PERIMETER WALL
15	24" TALL RAISED PLANTER
16	EXPAND SIDEWALK AROUND STREET TREE WELLS.

FRONT YARD SETBACK AREA = 5,655 SF
Total Landscape = 4,140 SF (73%)
HARDSCAPE AREA = 1,515 SF (27%)

LAGDW # 4696
L.A. GROUP Design Works
Landscape Architecture
24013 Ventura Blvd. Suite 201
Calabasas, CA 91302
p 818.251-9718 f 818.251-9719

RIDGE CREST REAL ESTATE

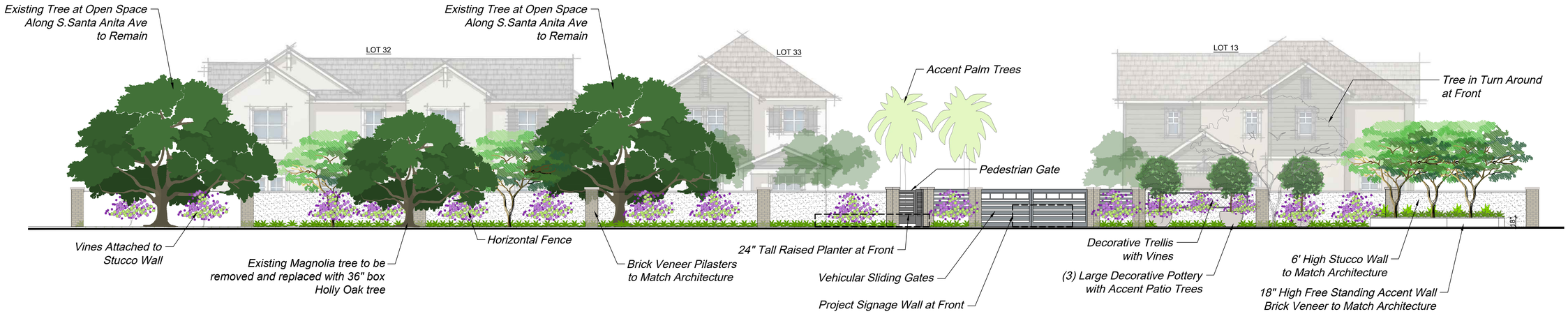
CONCEPTUAL LANDSCAPE SITE PLAN
THE ENCLAVE ON SANTA ANITA
ARCADIA, CA

L-1

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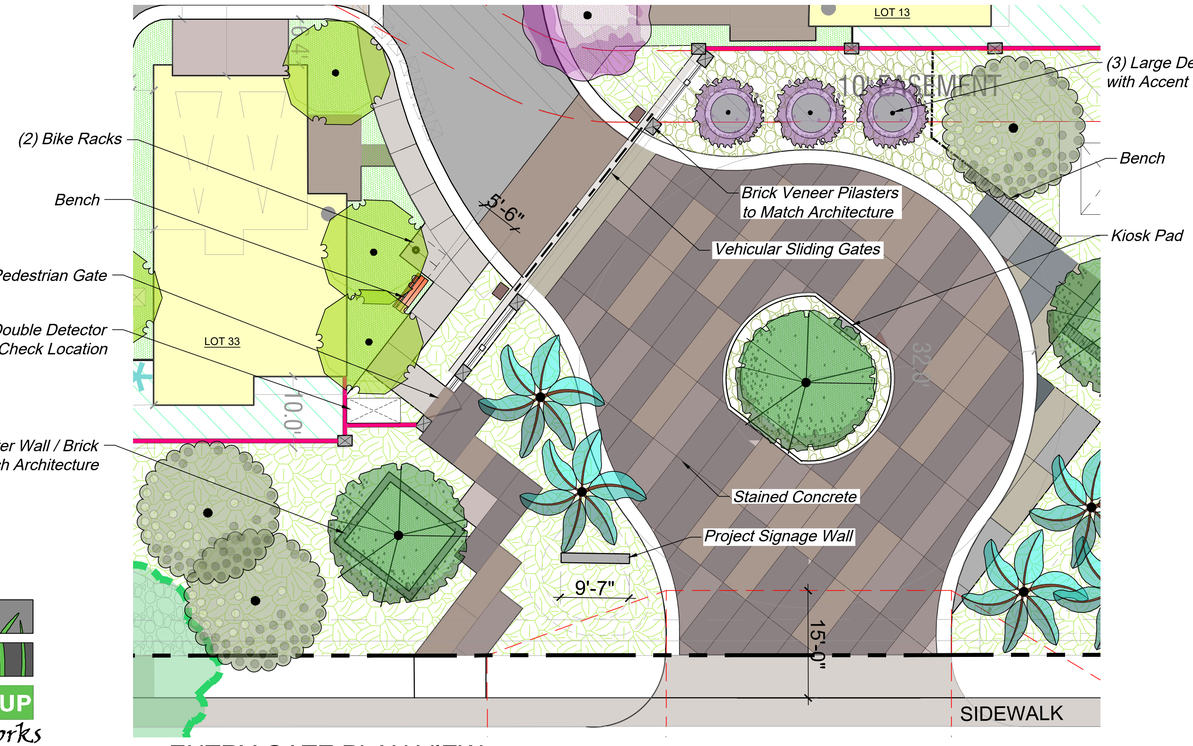
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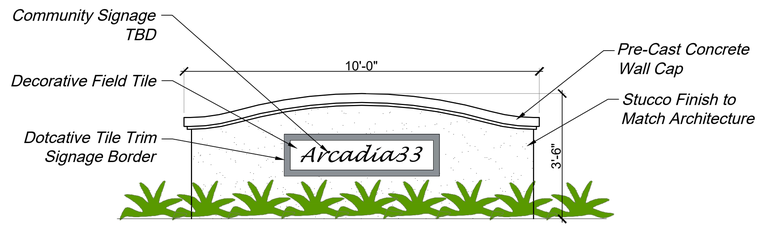
SANTA ANITA AVE. FRONTYARD ELEVATION

0 8' 16' 24' feet

SCALE: 1/8" = 1'-0"



ENTRY GATE PLAN VIEW



PROJECT SIGNAGE WALL ELEVATION

0 6" 12" 18" feet

SCALE: 1/2" = 1'-0"

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CONCEPTUAL LANDSCAPE SITE PLAN

THE ENCLAVE ON SANTA ANITA

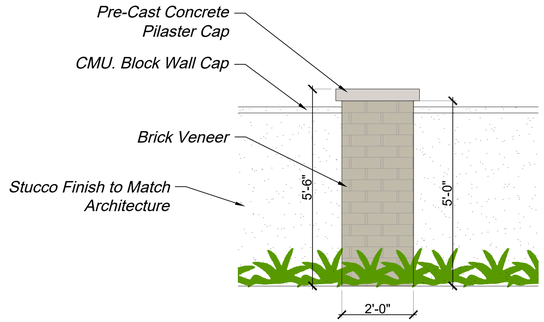
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STUCCO WALL with SPILT-FACE PILASTER ELEVATION

0 6" 12" 18" feet

SCALE: 1/2" = 1'-0"



COLORED CONCRETE



PEDESTRIAN GATE



VEHICULAR SLIDING GATES



LARGE DECORATIVE POTTERY



6' TALL X 3" WIDE VINYL SIDEYARD GATE (TYPICAL) AT BLUE STAR/ASTERIX LOCATION - SEE SHEET L-1



6' TALL VINYL SIDEYARD FENCING





CLUSTER MAIL BOX
12 TENANT DOOR DARK BRONZE



RECYCLED PLASTIC WASTE CONTAINER



STANDARD BOLLARD BIKE RACK



RECYCLED PICNIC TABLE



STEEL BENCH

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CONCEPTUAL LANDSCAPE SITE PLAN

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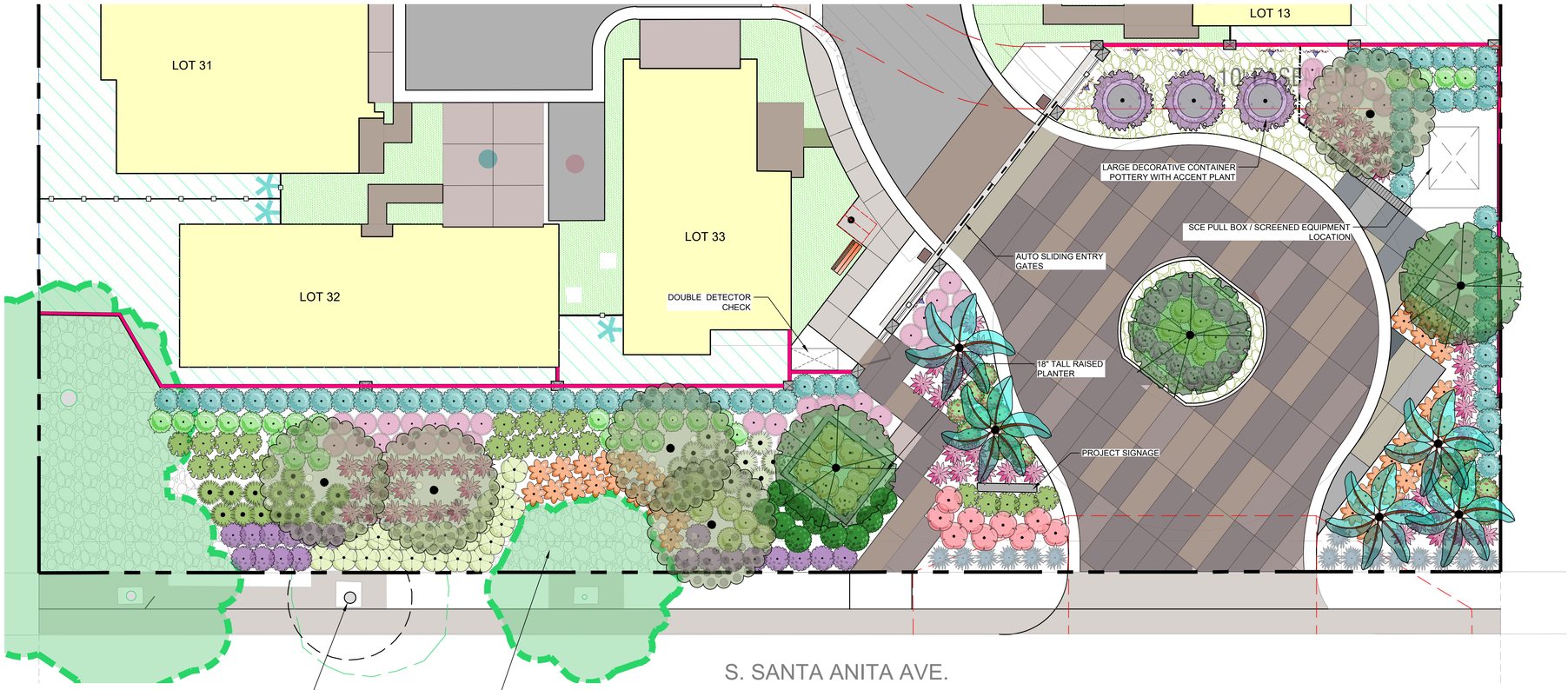
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TOTAL PROTECTED TREES TO BE REMOVED ON SITE: 8
TOTAL REPLACEMENT TREES (8 REMOVED x 2 NEW): 16 - 24" BOX
TOTAL NEW PROPOSED TREES ON SITE: 68

TREE REPORT RECOMMENDATION REPLACEMENT - EACH PROTECTED TREE REMOVED SHALL REPLACED WITH TWO (2) 24" BOX TREE.
BASED ON TREE INVENTORY & PROTECTED REPORT BY CARLBERG ASSOCIATES - AUG 24, 2021.

SUMMARY OF PROTECTED TREES AND MITIGATION

BASED ON TREE INVENTORY & PROTECTED REPORT BY CARLBERG ASSOCIATES - AUG 24, 2021

Tree No.	Common Name	Botanical Name	Proposed to be removed	Tree replacement
4	Coast Live Oak	Quercus agrifolia	No	
5	Camphor	Cinnamomum camphora	Yes	2
8	Arizona Ash	Fraxinus velutina	Yes	2
9	Arizona Ash	Fraxinus velutina	Yes	2
22	Jacarandia	Jacaranda mimosifolia	Yes	2
26	Coast Live Oak	Quercus agrifolia	No	
27	Coast Live Oak	Quercus agrifolia	No	
33	Holly Oak	Quercus ilex	Yes	2
45	California Sycamore	Platanus racemosa	Yes	2
46	California Sycamore	Platanus racemosa	Yes	2
47	California Sycamore	Platanus racemosa	Yes	2
57	Coast Live Oak	Quercus agrifolia	No	
58	Coast Live Oak	Quercus agrifolia	No	

TOTAL MITIGATION REQUIRED ON SITE: 16

FRONTYARD SETBACK PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT		QTY
	ARC CUN	Archontophoenix cunninghamiana King Palm	24"box		5
	BRA PPL	Brachychiton populneus Kurrajong MITIGATION TREE	24"box		5
	CIN CAM	Cinnamomum camphora Camphor Tree	36"box		3
	ERI DEF	Eriobotrya deflexa Bronze Loquat	24"box		3

TOTAL MITIGATION TREE ON FRONTYARD SETBACK: 5

REFERENCE
SEE L-1 FOR TOTAL ON SITE TREE SCHEDULE

SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT		QTY
	ANI FLA	Anigozanthos flavidus Kangaroo Paw	5 gal		9
	CAM POS	Campanula poscharskyana Serbian Bellflower	5 gal		8
	CAR GRE	Carissa macrocarpa `Green Carpet` Green Carpet Natal Plum	5 gal		14
	CHO TEC	Chondropetalum tectorum Small Cape Rush	5 gal		13
	DIA LRV	Dianella revoluta `DR5000` TM Little Rev Flax Lily	5 gal		21
	DIE BIC	Dietes bicolor Fortnight Lily	5 gal		35
	DIS BUC	Distictis buccinatoria Blood Red Trumpet Vine	5 gal		6
	HEM YLO	Hemerocallis x `Yellow` Yellow Daylily	5 gal		14
	LAN PUR	Lantana montevidensis Trailing Lantana	5 gal		19
	LIG TE3	Ligustrum texanum Texas Privet	5 gal		61
	MUH PIN	Muhlenbergia capillaris `Pink Flamingos` Pink Flamingo Muhly Grass	5 gal		46
	NAN DOM	Nandina domestica Heavenly Bamboo	5 gal		26
	PEN SPA	Pennisetum spathiolatum Rye Puffs	5 gal		11
	PHO FIR	Phormium tenax `Firebird` Fire Bird Flax	5 gal		52
	ROS B59	Rosa floribunda `Brilliant Pink Iceberg` Rose	5 gal		10
	ROS DWA	Rosmarinus officinalis `Prostratus` Dwarf Rosemary	5 gal		22
	SEN SER	Senecio serpens Blue Chalksticks	5 gal		15
	STR REG	Strelitzia reginae Bird Of Paradise	5 gal		17

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CONCEPTUAL LANDSCAPE FRONTYARD SETBACK PLANTING PLAN

THE ENCLAVE ON SANTA ANITA

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CANOPY SHADE TREES



Cinnamomum camphora



Robinia x ambigua 'Purple Robe'



Platanus x acerifolia 'Columbia'

SMALL TREES



Arbutus x 'Marina' Strawberry Tree



Eriobotrya deflexa Bronze Loquat



Cercis occidentalis

TALL VERT. TREES



Brachychiton populneus Kurrajong

PALMS



Archontophoenix cunninghamiana

ORNAMENTAL GRASSES



Chondropetalum tectorum



Dianella rev. `Little Rev` Little Rev Flex Lily



Helictotrichon sempervirens

ORNAMENTAL GRASSES - cont.



Muhlenbergia capillaris 'Pink Flamingos'



Pennisetum spathiolatum Slender Veldt Grass



Sesleria autumnalis Autumn Moor Grass

GROUNDCOVERS



Campanula poscharskyana



Delosperma alba White Ice Plant



Orange Gazania



Myoporum parvifolium Trailing Myoporum



Senecio serpens Blue Chalksticks



Thymus serpyllum Creeping Red Thyme

REFERENCE
SEE L-1 FOR TOTAL ON SITE TREE SCHEDULE

CONCEPT PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY	REMARKS
	ARB MIY	Arbutus x `Marina` Marina Strawberry Tree	24"box	3	MITIGATION TREE
	ARC CUN	Archontophoenix cunninghamiana King Palm	24"box	5	
	BRA PPL	Brachychiton populneus Kurrajong	24"box	5	MITIGATION TREE
	CER OCC	Cercis occidentalis Western Redbud	24"box	28	
	CIN CAM	Cinnamomum camphora Camphor Tree	36"box	3	
	ERI DEF	Eriobotrya deflexa Bronze Loquat	24"box	3	
	PLA COL	Platanus x acerifolia `Columbia` Columbia London Plane Tree	24"box	8	MITIGATION TREE
	ROB PU2	Robinia x ambigua `Purple Robe` Pink Flowering Locust	24"box	13	

TOTAL MITIGATION TREES ON SITE: 16
TOTAL ON SITE TREES: 68

ORNAMENTAL GRASSES	WUCOL
Chondropetalum tectorum / Small Cape Rush	LOW
Dianella revoluta `DR5000` TM / Little Rev Flax Lily	LOW
Helictotrichon sempervirens / Blue Oat Grass	MOD
Muhlenbergia capillaris `Pink Flamingos` / Pink Flamingo Muhly Grass	MOD
Pennisetum spathiolatum / Rye Puffs	LOW
Phormium tenax `Tom Thumb` / Dwarf Green Flax	LOW
Sesleria autumnalis / Autumn Moor Grass	MOD

GROUNDCOVERS	WUCOL
Campanula poscharskyana / Serbian Bellflower	MOD
Delosperma alba / White Ice Plant	LOW
Festuca glauca `Elijah Blue` / Elijah Blue Fescue	LOW
Gazania x `Mitsuwa Orange` / Orange Gazania	LOW
Myoporum parvifolium / Trailing Myoporum	LOW
Senecio serpens / Blue Chalksticks	LOW
Thymus serpyllum `Coccineum` / Creeping Red Thyme	MOD

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PLANT LIST & IMAGES

THE ENCLAVE ON SANTA ANITA

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FLOWERING PERENNIALS



Anigozanthos flavidus
'Big Red'



Hemerocallis 'Yellow'
Yellow Daylily

SHRUBS



Carrissa macrocarpa
'Green Carpet'



Dietes bicolor
Fortnight Lily

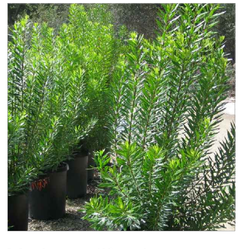


Lantana montevidensis
Trailing Lantana



Lavandula stoechas
Spanish Lavender

SHRUBS - cont.



Myrica californica
Pacific Wax Mrytle



Nandina domestica
Heavenly Bamboo



Phormium tenax
New Zealand Flex



Rosa florabunda
'Iceberg Pink'



Rosmarinus officinalis
Rosemary



Strelitzia reginae
Bird of Paradise

ACCENT PLANTING



Aeonium x 'Sunburst'
Sunburst Aeonium



Agave attenuata
Foxtail Agave



Agave x 'Blue Glow'
Blue Glow Agave



Aloe barberae
Tree Aloe



Phormium tenax 'Firebird'
New Zealand Flex



Phoenix roebelenii
Pigmy Date Palm

TALL SHRUBS/HEDGE



Bamboo multiplex
'Golden Goddess'



Ligustrum texanum
Texas Privet

VINES



Distictis buccinatoria
Blood Red Trumpet Vine

CONCEPT PLANT SCHEDULE

FLOWERING PERENNIALS	WUCOL
Anigozanthos flavidus / Kangaroo Paw	MOD
Hemerocallis x `Yellow` / Yellow Daylily	MOD

SHRUBS	WUCOL
Carissa macrocarpa `Green Carpet` / Green Carpet Natal Plum	LOW
Dietes bicolor / Fortnight Lily	LOW
Lantana montevidensis / Trailing Lantana	LOW
Lavandula stoechas / Spanish Lavender	LOW
Myrica californica / Pacific Wax Myrtle	LOW
Nandina domestica / Heavenly Bamboo	LOW
Phoenix roebelenii / Pigmy Date Palm Multi-Trunk	MOD
Phormium tenax / New Zealand Flax	LOW
Rosa floribunda `Brilliant Pink Iceberg` / Rose	MOD
Rosmarinus officinalis `Prostratus` / Dwarf Rosemary	LOW

ACCENT PLANTING	WUCOL
Aeonium x `Sunburst` / Sunburst Aeonium	LOW
Agave attenuata / Foxtail Agave	LOW
Agave x `Blue Glow` / Blue Glow Agave	LOW
Aloe barberae / Tree Aloe	LOW
Phormium tenax `Firebird` / Fire Bird Flax	LOW
Strelitzia reginae / Bird Of Paradise	MOD

TALL SHRUBS/HEDGE	WUCOL
Bambusa multiplex `Golden Goddess` / Golden Goddess Hedge Bamboo	MOD
Ligustrum texanum / Texas Privet	MOD

VINES	WUCOL
Distictis buccinatoria / Blood Red Trumpet Vine	MOD
Ficus pumila / Creeping Fig	MOD

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PLANT LIST & IMAGES

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Attachment No. 5

Arborist Report

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

TREE INVENTORY AND PROTECTION REPORT
2607 S. SANTA ANITA AVENUE
ARCADIA, CALIFORNIA 91006

SUBMITTED TO:

MATT LIVINGSTON
RIDGE CREST REAL ESTATE, LLC
550 N. LARCHMONT BOULEVARD, SUITE 201
LOS ANGELES, CA 90004

PREPARED BY:

SCOTT MCALLASTER
ISA CERTIFIED ARBORIST #WE-7011A
ISA QUALIFIED TREE RISK ASSESSOR

CHRISTY CUBA
ASCA REGISTERED CONSULTING ARBORIST #502
ISA CERTIFIED ARBORIST #WE-1982A
ISA QUALIFIED TREE RISK ASSESSOR

AUGUST 25, 2021

Santa Monica Office
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Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
Office: 626.428.5072

www.cycarlberg.com

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Carlberg ASSOCIATES
Horticulturists and
Registered Consulting
ARBORISTS

August 25, 2021

Matt Livingston
Ridge Crest Real Estate, LLC
550 N. Larchmont Blvd., Suite 201
Los Angeles, CA 90004

Re: Arborist Consultation Services - 2607 S. Santa Anita Avenue, Arcadia, CA

Dear Mr. Livingston,

EXECUTIVE SUMMARY

This tree report was prepared in accordance with the City of Arcadia Tree Preservation Ordinance No. 2338. One hundred trees of various species may be affected by the proposed development located at 2607 S. Santa Anita Avenue, Arcadia. There are 13 protected trees and 84 non-protected trees on or adjacent to the subject property. Three trees are "protected" by virtue of their status as City right-of-way trees. No other trees considered "protected" by the City of Arcadia's Tree Ordinance are affected. Based on the Plot Plan provided, eight protected trees are proposed for removal as a result of the proposed improvements, and one right-of-way tree will be removed per the City's directive. Five of the protected trees to remain will likely incur encroachments into their Root Protection Zones (RPZs). Recommendations for tree preservation during construction are provided at the end of this report.

BACKGROUND AND ASSIGNMENT

You propose 33 single-family residential units consisting of two-level buildings with 93 parking spaces and 28,130 square-feet of open space on the 2.88-acre property. The on-site trees are scattered within the property limits. We were retained to visit the property, inventory all trees, evaluate the potential impacts of construction, make recommendations for the protection of trees to remain, and prepare a Protected Tree Report for submittal to the City of Arcadia. We used the Site Plan (William Hezmalhalch Architects, May 3, 2021) to determine the impacts to the protected trees. This report is based on our site visit of April 13, 2021.

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OBSERVATIONS

We inspected 13 protected trees, 84 non-protected trees and three rights-of-way trees on the subject property. Tree trunks and canopies (driplines) were recorded in the field, from grade, using the Topo Survey (August 14, 2020, KWC Engineers) that you provided. On-site trees were numbered and tagged with an embossed, circular metal tag that was placed on the north side of the trunk. The right-of-way trees were numbered with an 'ST' designation, but were not tagged. The locations of the on-site and right-of-way trees are illustrated on the 'Protected Tree Location Exhibit' and the 'Protected Tree Impact Exhibit and Protection Plan.'

Table 1 summarizes the inventoried trees, their protected status, and their proposed dispositions. Captioned photographs and exhibits at the end of this report illustrate site context, tree locations, tree structure, and vigor. A full-sized copy of the 'Protected Tree Location Exhibit' and 'Protected Tree Impact Exhibit and Protection Plan' are included in back pockets at the end of this report.

DISCUSSION

There are numerous potential consequences related to residential construction that may affect trees during and after a typical construction process. They are as follows and are discussed below:

- EXCAVATION / TRENCHING - ROOT SEVERANCE
- SOIL COMPACTION (DURING AND POST-CONSTRUCTION)
- ALTERATION OF THE WATER TABLE/SITE DRAINAGE
- SUBSTANTIAL TRIMMING OF CANOPY OR ROOTS
- MECHANICAL DAMAGE
- IRRIGATION

A. Excavation/Trenching—Root Severance

Trenching can include excavation for irrigation, utility, or drainage lines. Trenching and excavation can also be required for foundations of structures and free-standing walls. Trenching and excavation removes soil and tree roots. When performed in the critical root zone (approximately 5x the trunk diameter of any tree) or within the dripline (outer edge of the natural canopy), there is the potential to remove large areas of root mass, and to shatter and tear roots that will remain connected to the tree(s). Torn and shattered roots cannot callous over or generate new roots in the manner of cleanly-cut roots. Torn and shattered roots are potentially unstable, are entry points for disease and decay organisms, and eventually die. Significant root loss and/or severance can be critical to the health and structure of trees to remain in a landscape.

B. Soil Compaction

Soil compaction is a complex set of physical, chemical, and biological constraints on tree growth. Principal components leading to limited growth are the loss of aeration and pore space, poor gas exchange with the atmosphere, lack of available water, and mechanical hindrance of root growth. Soil compaction is considered to be the largest single factor responsible for the decline of trees on construction sites.

C. Changes in Grade

Changes in grade, by the addition or removal of soil (filling or cutting), can be injurious. Lowering the grade around trees can have immediate and long-term effects on trees. The addition of soil and compaction for common engineering practices also results in long-term effects on trees. Typically, the vast majority of the root

mass exists within the top three feet of soil, and most of the fine roots active in water and nutrient absorption are in the top 12 inches.

D. Alteration of the Water Table/Site Drainage

The water table is the upper surface of the zone in which soil macropores are saturated with water; water tables may vary seasonally. Rather than a flat, static surface, the water moves down a gradient. Its depth varies, depending on the structure of the soil and rocks through which it flows. A perched water table may form in soils that have impermeable strata. Swamps are created where the water table intersects level ground.

Structures such as footings, basements, subterranean buildings, and retaining walls may intercept impermeable layers in the soil on which water perches. If adequate drainage is not provided, the water table uphill may gradually rise and interfere with tree roots. This type of damage usually takes a period of time to be recognized and diagnosed.[1]

Oaks are particularly susceptible to root infections, such as Armillaria and Phytophthora. Both of these fungal diseases can progressively weaken a root system, resulting in dead branches in the canopy of the tree, loss of stability of the entire tree because of decaying roots, and premature death of the tree.
Trees form roots in accordance with existing soil composition and water availability. Minor drainage changes in the winter and spring months are significant to the health of the trees.

E. Canopy And Root Pruning

Leaves perform vital functions for trees. Through photosynthesis, they manufacture sugars that feed the tree and are used to create the building blocks of wood. Leaves help to move water and nutrients up from the roots and around the tree through their vascular system and cool the tree down through transpiration. They moderate temperatures beneath the tree, lessen the drying action of winds, and intercept rainfall, which reduces erosion. On the ground, they moderate soil temperatures, retain moisture, and as they decompose, return their nutrients back to the soil to be recycled and reused by the tree. A healthy canopy of leaves is essential to ensure an adequate food supply for the roots to perform their important functions.

Typically, root systems extend outward past the dripline, two to four times the diameter of the average tree's crown. Main root functions include water and mineral conduction, food and water storage, and anchorage of the tree to the soil. Root systems consist of short-lived, fine-textured, feeder roots and larger, woody, perennial roots. Feeder roots, while averaging only 1/16 inch in diameter, constitute the major portion of the root system's surface area. Feeder roots act like sponges, growing predominantly outward and upward from the large roots near the soil surface where minerals, water and oxygen are usually abundant. Larger, woody roots and their subordinates tend to annually increase in diameter and grow horizontally. Predominantly located in the top 6 to 24 inches of the soil, these structural and storage roots usually do not grow deeper than three to seven feet. Root growth is generally inhibited by soil compaction and temperature. As the depth increases, soil compaction increases, and the availability of water, minerals, oxygen, and soil temperature all decrease.

Removal of significant amounts of the canopy and/or root system can lead to both immediate and long-term detrimental effects on trees. Effects can be physiological, structural, or both.

[1] Nelda Matheny and James R. Clark, Trees and Development: A Technical Guide to Preservation of Trees During Land Development, (Champaign, Illinois: International Society of Arboriculture, 1998), pp. 88-89.

F. Protection Against Mechanical Damage/Fencing

Fencing is a temporary enclosure erected around a tree to enclose as much of its safety zone as possible. Fences are critical to (1) prevent direct contact and damage to the canopy, branches, and trunk, (2) preserve roots and soil in an intact and non-compacted state, and (3) identify the Tree Protection Zone. Fencing must be in place before demolition or the initiation of construction and remain until adjacent construction activity no longer threatens tree health.

G. Irrigation

Trees that have suffered root loss may not be able to exploit as large a soil volume as before injury. Also, changed patterns of drainage may divert water away from trees. In either case, trees may benefit from supplemental irrigation. The following are general guidelines:

- *The amount of water applied must be appropriate to the species.*
- *Light, infrequent irrigations should be avoided.*
- *Excess irrigation from new landscaping should be avoided. Runoff from plantings should be minimized and/or directed away from trees.*
- *Wetting the trunk should be avoided.*[2]

The proposed residential construction project will result in the removal of eight protected trees (#5, 8, 9, 22, 33, 45, 46 and 47) and one right-of-way (#ST2) tree. Five protected trees (#4, 26, 27, 57, and 58) will experience encroachments within their root protection zones from the construction activities. The City of Arcadia defines the Root Protection Zone (RPZ) of a protected tree as the "…a circular ground radius corresponding to the distanced from the trunk to the edge of the tree dripline. The area indicated the tree's root system which contains sufficient roots and volume to maintain the tree's viability." The RPZ for each protected tree to remain is illustrated on the enclosed 'Protected Tree Impact Exhibit and Protection Plan.'

For structural safety, arboricultural research discourages root severance within five times a tree's trunk diameter (dbh) on any one side of the tree[3]. While individual tree species, health, and structural conditions may lead to variations in the recommended distance, 5x dbh is likely to be a sustainable distance for many trees. For the purposes of this report, we refer to this area as the 'critical root zone' (CRZ), which is different from the RPZ, and include it in our analysis and recommendations.

Construction Impacts on Trees to Remain

Tree #4 - Placement of the proposed residential building (Building #32) will occur at the outer limits of the RPZ. Since this tree has a trunk diameter of 29.3 inches, the CRZ would extend approximately 12 feet (radius) from the trunk. The building edge is approximately 18 feet from the trunk at its closest point. The excavation for the building foundation is outside of the CRZ and will unlikely result in significant damage to the root system of the tree.

Tree #26 - Placement of the proposed driveway to Building #1 will occur within the RPZ. Since this tree has a trunk diameter of 25.4 inches, the critical root zone would extend approximately 11 feet (radius) from the trunk. The driveway is to be located approximately 19 feet from the trunk at its closest point. The excavation for the driveway is outside of the CRZ and will unlikely result in significant damage to the root system of the tree.

[2] See Matheny and Clark, p. 125.
[3] "Likelihood of Tree Failure from Root & Sapwood Cutting", E. Thomas Smiley, Ph.D., Bartlett Tree Research Laboratories / Clemson University, 2014 Western Tree Management Symposium.

Tree #27 - Placement of the proposed access road will occur within the RPZ. Since this tree has a trunk diameter of 25.8 inches, the critical root zone would extend approximately 11 feet (radius) from the trunk. The driveway is to be located approximately six feet from the trunk at its closest point. The excavation for the driveway is within the CRZ and some degree of root severance is anticipated. The degree of structural root damage will depend on the actual number and orientation of those larger (greater than 2") roots. The overall level of impact is approximately 35% of the root system being potentially impacted. With careful excavation under the supervision of the project arborist, these impacts can be reduced.

Tree #57 - Placement of the proposed foundation for Building #14 will occur outside the RPZ. Since this tree has a trunk diameter of 28.4 inches, the critical root zone would extend approximately 12 feet (radius) from the trunk. The foundation is to be located approximately 24 feet from the trunk at its closest point. The excavation for the building is outside of the CRZ and will unlikely result in significant damage to the root system of the tree.

Tree #58 – This tree is located within the proposed Open Space area and no impacts are anticipated.

Since the location of actual roots is unknown until excavation occurs, actual impacts to specific roots cannot be determined at this time.

Explanation of Trees to Remove

The following trees have been evaluated for removal based on individual health and structure, suitability for transplant and whether the tree will conflict with the site development and required infrastructure. The trees identified for removal are in mediocre health and/or structure or worse and will not likely thrive in the proposed development. Due to their health and/or structure, as well as their size, none of the trees are candidates for relocation on the property. All removed trees will be mitigated per the City's Ordinance.

Tree #ST2 – Southern magnolia (*Magnolia grandiflora*) – Due to its mediocre health and structural quality, the City has mandated its removal. The City has required this tree to be replaced with a coast live oak (*Quercus agrifolia*).

Tree #5 – Camphor (*Cinnamomum camphora*) - This is a "Mature" tree in poor overall health ("D"), has poor structural quality ("D") and is a poor candidate to remain as part of a residential development. This tree is a poor candidate for relocation. It is currently encroaching into the canopy of Tree #4 (proposed to remain). Its location conflicts with the drainage improvements necessary along the entirety of the southern property line.

Trees #8 & 9 – Arizona ash (*Fraxinus velutina*)– These are "Mature" trees that have mediocre overall health ("C" & "C+"), have below average structural quality ("C-") and are poor candidates to remain as part of a residential development. These trees are also poor candidates for relocation. Their location conflicts with the drainage improvements necessary along the entirety of the southern property line. They are located adjacent to the required SCE power underground easement and excavation will likely impact their root systems.

Tree #22 – Jacaranda (*Jacaranda mimosifolia*) – This is a "Mature" tree that is in good health ("B"), but average structural quality ("C") and is a poor candidate to remain as part of a residential development. It has been repeatedly pruned for powerline and driveway clearance, which has resulted in poor branch structure. This tree is a poor candidate for relocation. It is located adjacent to the required SCE power underground easement and excavation will likely impact its root system.

Tree #33 – Holly oak (*Quercus ilex*)– This is a "Mature" tree that has average health ("C"), below-average structural quality ("C-") and is a poor candidate to remain as part of a residential development. This tree is also a poor candidate for relocation. Its location conflicts with the drainage improvements necessary along the entirety of the southern property line.

Trees #45 – 47 – These "Protected" California sycamores (*Platanus racemosa*) are located in the center of the property. All three sycamores are in mediocre overall health ("C+"), have average structural quality ("C+" & "C-") and are poor candidates to remain as part of a residential development. These trees are poor candidates for relocation. They all exhibit moderate canopy dieback and appear to be stressed due in part to a prolonged lack of sufficient irrigation. Due to the size of the trees and their natural leans, the protected zones are extensive. In order to preserve these trees, and for them to be an asset to the project, the entire root protection zone would need to preserved and enhanced. Irrigation would need to be improved and long-term maintenance will be necessary. Even with these measures, there is no guarantee that these trees will improve and thrive. Preservation of these trees would result in the loss of four proposed residential units.

CONCLUSION AND RECOMMENDATIONS

Of the 13 trees considered "protected" by the City of Arcadia's Tree Preservation Ordinance, eight are planned for removal and five are to be preserved with potential encroachments into their RPZs. One right-of-way tree will be removed per City mandate.

In my professional opinion, the project may proceed with minimal impacts to the protected trees if the following conditions are met:

- For every protected tree that is approved for removal, it shall be replaced with a minimum of two 24-inch box trees. When it is appropriate, the Director may modify, waive, increase, or reduce the tree replacement requirement.
- Any demolition, digging, excavating, or trenching within the root protection zone of any protected tree to remain will be monitored by a qualified arborist.
- Exposed roots to remain, if found, should be covered with wet burlap, carpet remnants or other material that may be kept moist until backfill can be placed.
- This report shall be part of the set of plans given to the contractor. The contractor should be familiar with the specific instructions and responsibilities pertaining to protected trees. It is recommended that a professional arborist be retained and meet with the contractor and his personnel prior to commencement of the project.
- If canopy pruning of protected trees is found to be necessary, it should only be performed by a qualified ISA Certified Arborist or ISA Certified Tree Worker.
- Those trees located in the right-of-way are the property of the City of Arcadia. Pruning or any other work required on these trees must be performed by the City.
- Protected trees shall not be removed unless approval is granted by the City of Arcadia.
- Construction monitoring reports should be submitted to the City Planner at appropriate intervals to be determined by that same agency or the monitoring arborist.
- With the exception of existing hardscape, equipment, materials, and vehicles shall not be stored, parked, or operated within the root protection zone of trees to remain.

- Equipment with overhead exhaust shall not be placed in such a manner as to scorch overhanging branches or foliage. Smaller equipment shall be used in such areas as deemed necessary by the monitoring arborist.
- Hand-held equipment should be used for trenching for foundations, irrigation, and utility placement to avoid shattering and tearing roots. If feasible, substantial roots (those greater than 2 inches in diameter) shall be bridged to avoid impacts to the root system.
- Turf should be maintained as far away from the trunks of all trees to remain, but at least 5-6 feet to discourage excessive summer moisture. Irrigation lines shall be placed outside of the RPZs.
- Fencing should be installed as illustrated on the enclosed tree protection plan and a 'Warning' sign is prominently displayed at regular intervals around the fencing line. The sign will be a minimum of 8.5 inches x 11 inches and clearly state the following:

TREE PROTECTION ZONE
THIS FENCING SHALL NOT BE REMOVED

Please feel welcome to contact me at (424) 285-3334 if you have any immediate questions or concerns.

Respectfully submitted,



Scott McAllaster
Certified Arborist, WE-7011A
ISA Qualified Tree Risk Assessor

scott@cycarlberg.com

This report comprises a total of 66 pages and two full-size maps. Unauthorized separation or removal of any portion of this report deems it invalid as a whole. Conditions represented in this report are limited to the inventory date and time. Risk assessments were not requested nor performed for the purposes of this report. Ratings for health, aesthetics, and structure do not constitute a health or structural guarantee beyond the date and time of the inspection.



EXHIBIT A - AERIAL VIEW OF THE PROJECT PROPERTY WITH APPROXIMATE BOUNDARY
(Source: Google Earth)

N

Not to Scale

TABLE 1 – COUNT OF INVENTORIED TREES

Common Name	Botanical Name	Quantity	California Native?
aleppo pine	*Pinus halepensis*	1	No
Arizona ash	*Fraxinus velutina*	11	No
Bailey's acacia	*Acacia baileyana*	1	No
black locust	*Robinia pseudoacacia*	2	No
Brazilian pepper	*Schinus terebinthifolia*	4	No
California fan palm	*Washingtonia filifera*	1	**Yes**
California sycamore	*Platanus racemosa*	3	**Yes**
camphor	*Cinnamomum camphora*	1	No
Canary Island date palm	*Phoenix canariensis*	5	No
carrotwood	*Cupaniopsis anacardioides*	1	No
Chinese elm	*Ulmus parvifolia*	1	No
coast live oak	*Quercus agrifolia*	5	**Yes**
deodar cedar	*Cedrus deodara*	4	No
fern pine	*Afrocarpus gracilior*	2	No
giant bird of paradise	*Strelitzia nicolai*	1	No
glossy privet	*Ligustrum lucidum*	4	No
holly oak	*Quercus ilex*	9	No
Hollywood juniper	*Juniperus chinensis 'Torulosa'*	1	No
Italian cypress	*Cupressus sempervirens*	15	No
jacaranda	*Jacaranda mimosifolia*	1	No
Japanese loquat	*Eriobotrya japonica*	1	No
lemon bottlebrush	*Callistemon citrinus*	2	No
lemon-scented gum	*Corymbia citriodora*	1	No
Mexican fan palm	*Washingtonia robusta*	3	No
mock orange	*Pittosporum tobira*	4	No
orchid tree	*Bauhinia variegata*	1	No

Common Name	Botanical Name	Quantity	California Native?
pecan	*Carya illinoinensis*	1	No
pindo palm	*Butia capitata*	3	No
river she-oak	*Casuarina cunninghamiana*	1	No
shamel ash	*Fraxinus uhdei*	1	No
shiny xylosma	*Xylosma congestum*	2	No
southern magnolia	*Magnolia grandiflora*	3	No
stone pine	*Pinus pinea*	1	No
Victorian box	*Pittosporum undulatum*	3	No
	TOTALS	**100**	

TABLE 2 – SUMMARY OF PROTECTED OAK AND SYCAMORE TREES

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City Protected Tree
4	coast live oak	*Quercus agrifolia*	29.3 @ 3'	30	19/24/18/15	B-	B-	Yes
26	coast live oak	*Quercus agrifolia*	25.4	30	16/20/0/15	B	B-	Yes
27	coast live oak	*Quercus agrifolia*	25.8	33	14/22/20/16	B	B	Yes
45	California sycamore	*Platanus racemosa*	20.3, 26.2	45	4/30/35/16	C	C-	Yes
46	California sycamore	*Platanus racemosa*	23.6	45	21/13/7/35	C+	C	Yes
47	California sycamore	*Platanus racemosa*	19.6	30	30/0/0/35	C+	C	Yes
57	coast live oak	*Quercus agrifolia*	28.4	35	20/16/16/19	A	B	Yes
58	coast live oak	*Quercus agrifolia*	34.9	40	20/32/28/17	B	B	Yes

TABLE 3 – SUMMARY OF PROTECTED MATURE TREES

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Physiological Condition (A-F)	Structural Condition (A-F)	City Protected Tree
5	camphor	*Cinnamomum camphora*	16.4	25	16/8/10/10	D	D	Yes
8	Arizona ash	*Fraxinus velutina*	12.7	16	2/7/10/2	C	C-	Yes
9	Arizona ash	*Fraxinus velutina*	2.1, 2.8, 2.9, 5.7, 7.3, 9, 14.5	25	21/14/18/15	C+	C-	Yes
22	jacaranda	*Jacaranda mimosifolia*	7.4, 7.5, 7.7, 7.8, 12.8, 13.6	25	15/20/18/22	B	C	Yes
33	holly oak	*Quercus ilex*	20.2	30	17/4/10/25	C	C-	Yes

TABLE 4 – SUMMARY OF PROTECTED RIGHTS-OF-WAY (STREET) TREES

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City Protected Tree
ST1	holly oak	*Quercus ilex*	8.9	20	12/12/15/15	B	B	Yes - ROW
ST2	southern magnolia	*Magnolia grandiflora*	21.7	25	16/13/10/18	C+	C+	Yes - ROW
ST3	holly oak	*Quercus ilex*	18.8	28	15/16/21/18	B	B	Yes - ROW

TABLE 5 – SUMMARY OF CITY OF ARCADIA UNPROTECTED TREES

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City of Arcadia Unprotected Tree
6	pecan	*Carya illinoinensis*	12.7	25	18/9/5/11	C	C-	Yes
15	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	Yes
18	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	Yes
20	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	Yes
21	Canary Island date palm	*Phoenix canariensis*	BT - 30'	40	9/9/9/9	B+	B+	Yes
24	lemon-scented gum	*Corymbia citriodora*	18.7, 18.8	45	10/12/26/20	B-	C	Yes
25	Canary Island date palm	*Phoenix canariensis*	BT - 20'	28	6/9/9/5	B	B-	Yes
28	shamel ash	*Fraxinus uhdei*	3.6, 8.4, 23.5	30	6/20/24/15	B+	B-	Yes
29	Brazilian pepper	*Schinus terebinthifolia*	12.7, 17.3	25	2/14/15/15	C+	C-	Yes
38	pindo palm	*Butia capitata*	BT - 13'	20	5/6/7/6	A	B	Yes
39	pindo palm	*Butia capitata*	BT -15'	22	4/9/10/5	A	B	Yes
41	Mexican fan palm	*Washingtonia robusta*	BT - 55	60	6/6/6/6	A	A	Yes
44	pindo palm	*Butia capitata*	BT -12'	18	7/6/7/8	A-	B+	Yes

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City of Arcadia Unprotected Tree
48	Brazilian pepper	*Schinus terebinthifolia*	1, 2, 2, 2.2, 4.5, 4.6, 5.3, 5.7, 5.7, 6.1, 7, 7.6, 7.6, 7.6, 8.2	25	15/9/16/17	B+	B-	Yes
52	Mexican fan palm	*Washingtonia robusta*	BT - 55'	60	3/5/10/5	A	A	Yes
53	Mexican fan palm	*Washingtonia robusta*	BT - 55'	60	4/5/5/7	A	A-	Yes
54	holly oak	*Quercus ilex*	11.7	30	13/12/16/14	A	B	No
59	California fan palm	*Washingtonia filifera*	BT - 20	30	3/5/5/3	B	B-	Yes
60	Italian cypress	*Cupressus sempervirens*	2.4	15	2/2/2/2	B	B	Yes
61	Italian cypress	*Cupressus sempervirens*	4.2	22	2/2/2/2	B	B	Yes
62	Italian cypress	*Cupressus sempervirens*	4.6	25	3/3/3/3	B	B	Yes
63	Italian cypress	*Cupressus sempervirens*	4.5	25	3/3/3/3	B	B	Yes
64	Italian cypress	*Cupressus sempervirens*	4.8	25	3/3/3/3	B	B	Yes
65	Italian cypress	*Cupressus sempervirens*	4.9	25	3/3/3/3	B	B	Yes
66	Italian cypress	*Cupressus sempervirens*	4.5	25	3/3/3/3	B	B	Yes
67	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City of Arcadia Unprotected Tree
68	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes
69	Italian cypress	*Cupressus sempervirens*	4.1	20	3/3/3/3	B	B	Yes
70	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes
71	Italian cypress	*Cupressus sempervirens*	5.5	25	3/3/3/3	B	B	Yes
72	Italian cypress	*Cupressus sempervirens*	4.8	25	3/3/3/3	B	B	Yes
73	Italian cypress	*Cupressus sempervirens*	4.6	25	3/3/3/3	B	B	Yes
74	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes
76	holly oak	*Quercus ilex*	2.9, 7.1	18	5/4/4/10	B	B-	No
82	Brazilian pepper	*Schinus terebinthifolia*	5.4	25	10/6/3/3	C-	C-	Yes
83	Brazilian pepper	*Schinus terebinthifolia*	2.2, 2.8	12	3/0/0/5	D	D	Yes
94	holly oak	*Quercus ilex*	4.5	12	3/5/2/3	B	C-	No
95	holly oak	*Quercus ilex*	5.2 @ 3'	12	3/3/3/3	B	C	No
96	holly oak	*Quercus ilex*	4.2 @ 3'	18	0/5/8/2	B	B-	No
100	holly oak	*Quercus ilex*	3.1	8	12/0/0/0	B	C	No

TABLE 6 – SUMMARY OF INVENTORIED NON-PROTECTED TREES

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City Protected Tree
7	Arizona ash	*Fraxinus velutina*	8.6, 11.2	30	26/18/6/4	C+	C-	No
11	mock orange	*Pittosporum tobira*	2.2, 2.3, 2.3, 3.1, 4.2, 4.6	14	12/7/5/10	C-	C-	No
12	lemon bottlebrush	*Callistemon citrinus*	7.7, 9.7	15	0/10/12/9	B-	C	No
13	lemon bottlebrush	*Callistemon citrinus*	6.8, 7.5, 9.1	18	7/12/12/8	B-	C	No
16	giant bird of paradise	*Strelitzia nicolai*	30 x 5'	25	6/10/6/14	B	B	No
17	orchid tree	*Bauhinia variegata*	11.8	20	12/14/14/16	B	B	No
34	shiny xylosma	*Xylosma congestum*	10.5	18	15/10/4/12	B	B-	No
37	glossy privet	*Ligustrum lucidum*	1.9, 2, 2.4, 3, 3.3, 5.4, 5.8, 6.2	18	12/7/6/13	B+	C+	No
40	carrotwood	*Cupaniopsis anacardioides*	1, 1.5, 1.6, 1.9, 2, 2.2, 2.6	15	3/5/5/7	A-	B	No
54	holly oak	*Quercus ilex*	11.7	30	13/12/16/14	A	B	No
55	mock orange	*Pittosporum tobira*	8.7, 10.8	16	15/3/3/14	B-	C-	No
75	glossy privet	*Ligustrum lucidum*	5.7, 6.5	20	6/6/5/9	C	C	No

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City Protected Tree
76	holly oak	*Quercus ilex*	2.9, 7.1	18	5/4/4/10	B	B-	No
77	Arizona ash	*Fraxinus velutina*	9.1	15	2/7/5/6	B	C	No
78	Japanese loquat	*Eriobotrya japonica*	7	18	12/1/3/12	B-	C+	No
79	glossy privet	*Ligustrum lucidum*	4.3, 4.7, 5.6	18	10/2/2/8	C-	C-	No
80	Bailey's acacia	*Acacia baileyana*	3.6	14	3/1/6/9	A	A-	No
81	black locust	*Robinia pseudoacacia*	7.3, 9.4	25	11/10/15/17	C-	C-	No
84	glossy privet	*Ligustrum lucidum*	4.9, 5.7, 6.5, 9	18	18/16/7/12	C+	C-	No
85	Chinese elm	*Ulmus parvifolia*	3, 4, 5.8	20	12/15/2/4	C	C-	No
86	mock orange	*Pittosporum tobira*	1.7, 2.1, 3.2, 4.1	10	5/5/7/5	B-	C	No
87	Arizona ash	*Fraxinus velutina*	4.2	20	2/7/8/6	B	B	No
88	Victorian box	*Pittosporum undulatum*	3.2, 5.4, 7.9	22	12/12/11/12	B	C	No
89	Victorian box	*Pittosporum undulatum*	3.5, 7.7	22	9/9/14/7	B	C-	No
90	shiny xylosma	*Xylosma congestum*	11.5	20	15/10/6/12	B	C	No
91	mock orange	*Pittosporum tobira*	2.5, 2.7, 3, 3.1, 4	10	3/4/10/10	B-	C	No

Tree No.	Common Name	Botanical Name	Diameter at 4.5 feet (dbh) In inches	Height (in feet)	Spread (in diameter feet)	Health Condition (A-F)	Structural Condition (A-F)	City Protected Tree
92	Arizona ash	*Fraxinus velutina*	8.5	18	2/3/3/2	B	C	No
93	Arizona ash	*Fraxinus velutina*	1.8, 2, 4.5, 4.6, 10.2	15	3/5/6/2	B	C	No
94	holly oak	*Quercus ilex*	4.5	12	3/5/2/3	B	C-	No
95	holly oak	*Quercus ilex*	5.2 @ 3'	12	3/3/3/3	B	C	No
96	holly oak	*Quercus ilex*	4.2 @ 3'	18	0/5/8/2	B	B-	No
97	Arizona ash	*Fraxinus velutina*	1.3, 9	16	17/3/3/3	B	C	No
98	Arizona ash	*Fraxinus velutina*	4.8	15	0/9/10/2	B	C	No
99	Arizona ash	*Fraxinus velutina*	4.3	15	6/6/4/7	A	A	No
100	holly oak	*Quercus ilex*	3.1	8	12/0/0/0	B	C	No

TABLE 7 – SUMMARY OF ALL INVENTORIED TREES

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
ST1	holly oak	*Quercus ilex*	8.9	20	12/12/15/15	B	B	No	Yes - ROW				Preserve	small tree well, slight sidewalk uplift, canopy raised, powerline thru canopy
ST2	southern magnolia	*Magnolia grandiflora*	21.7	25	16/13/10/18	C+	C+	No	Yes - ROW				Remove	small tree well, overgrowing well, MPE, tip dieback, powerline thru canopy, root decay
ST3	holly oak	*Quercus ilex*	18.8	28	15/16/21/18	B	B	No	Yes - ROW				Preserve	small tree well, MPE, powerline thru canopy, basal sprouts
4	coast live oak	*Quercus agrifolia*	29.3 @ 3'	30	19/24/18/15	B-	B-	No	Yes				Encroachment	ivy groundcover and up trunk, trunk buried by ivy, construction to south - likely root impacts, MPE
5	camphor	*Cinnamomum camphora*	16.4	25	16/8/10/10	D	D	No	Yes		X		Removal	ivy groundcover, up trunk & in canopy; extensive dieback, shaded by oak, MPE
6	pecan	*Carya illinoinensis*	12.7	25	18/9/5/11	C	C-	No	No				Removal	ivy groundcover, up trunk & in canopy,

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
														leafing out, moderate dieback
7	Arizona ash	*Fraxinus velutina*	8.6, 11.2	30	26/18/6/4	C+	C-	No	No				Removal	ivy groundcover, up trunk & in canopy, leans north, HOB, topped, 8' from south PL
8	Arizona ash	*Fraxinus velutina*	12.7	16	2/7/10/2	C	C-	No	Yes		X		Removal	topped, all epicormic growth, powerline above, 5' from south PL
9	Arizona ash	*Fraxinus velutina*	2.1, 2.8, 2.9, 5.7, 7.3, 9, 14.5	25	21/14/18/15	C+	C-	No	Yes		X		Removal	ivy groundcover, up trunk & in canopy, topped, HOB, moderate dieback
10	river she-oak	*Casuarina cunninghamiana*	25	40	8/2/14/5	C-	C-	No	No				Encroachment	ivy groundcover, up trunk & in canopy, ash intertwined, MPE
11	mock orange	*Pittosporum tobira*	2.2, 2.3, 2.3, 3.1, 4.2, 4.6	14	12/7/5/10	C-	C-	No	No				Removal	shaded out, moderate dieback, MPE
12	lemon bottlebrush	*Callistemon citrinus*	7.7, 9.7	15	0/10/12/9	B-	C	No	No				Removal	shaded out by #13, HOB, moderate dieback
13	lemon bottlebrush	*Callistemon citrinus*	6.8, 7.5, 9.1	18	7/12/12/8	B-	C	No	No				Removal	HOB, moderate dieback
14	Hollywood juniper	*Juniperus chinensis 'Torulosa'*	26.2 @ 3.5'	20	11/14/12/15	B-	C+	No	No				Removal	MPE, minor dieback
15	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	Yes	No	X			Preserve	some yellowing on frond tips

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
16	giant bird of paradise	*Strelitzia nicolai*	30 x 5'	25	6/10/6/14	B	B	No	No				Preserve	large grouping, trunks approximated, against building
17	orchid tree	*Bauhinia variegata*	11.8	20	12/14/14/16	B	B	Yes	No				Removal	minor dieback, MPE
18	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	Yes	No	X			Removal	some yellowing on frond tips
19	black locust	*Robinia pseudoacacia*	19.5	20	12/12/14/16	D	D	No	No				Removal	extensive dieback, sparse
20	Canary Island date palm	*Phoenix canariensis*	BT - 25'	35	9/9/9/9	B+	B+	No	No	X			Removal	in tree well in parking lot
21	Canary Island date palm	*Phoenix canariensis*	BT - 30'	40	9/9/9/9	B+	B+	No	No	X			Removal	in tree well
22	jacaranda	*Jacaranda mimosifolia*	7.4, 7.5, 7.7, 7.8, 12.8, 13.6	25	15/20/18/22	B	C	No	Yes		X		Removal	near powerlines, topped
23	stone pine	*Pinus pinea*	36.1	40	20/18/16/22	B	B-	No	No				Removal	in circular planter in parking lot, MPE, large tear with decay
24	lemon-scented gum	*Corymbia citriodora*	18.7, 18.8	45	10/12/26/20	B-	C	No	No	X			Removal	small trunk removed at base with decay, HOB, moderate dieback
25	Canary Island date palm	*Phoenix canariensis*	BT - 20'	28	6/9/9/5	B	B-	No	No	X			Removal	growing under deodar, asphalt surrounding
26	coast live oak	*Quercus agrifolia*	25.4	30	16/20/0/15	B	B-	No	Yes				Encorachment	shaded out by #27, unbalanced to north, minor

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
														dieback, 5' from PL wall
27	coast live oak	*Quercus agrifolia*	25.8	33	14/22/20/16	B	B	No	Yes				Encroachment	leans east, mechanical damage at base w/ bleeding, MPE
28	shamel ash	*Fraxinus uhdei*	3.6, 8.4, 23.5	30	6/20/24/15	B+	B-	No	No	X			Removal	asphalt surround trunk base, bougainvillea growing on trunk & in canopy, shaded by #27, unbalanced to south
29	Brazilian pepper	*Schinus terebinthifolia*	12.7, 17.3	25	2/14/15/15	C+	C-	No	No	X			Removal	12.7" trunk is dead, MPE, unbalanced to south, moderate dieback
30	fern pine	*Afrocarpus gracilior*	24.4	30	20/16/22/18	B	C+	No	No				Removal	adjacent to building, MPE, minor dieback
31	fern pine	*Afrocarpus gracilior*	25.7	30	14/24/17/16	B-	C	No	No				Removal	adjacent to building, MPE, moderate dieback, leans southeast
32	aleppo pine	*Pinus halepensis*	33.9	70	18/16/21/25	B	C-	No	No				Removal	codoms w/ included bark, one trunk topped, MPE
33	holly oak	*Quercus ilex*	20.2	30	17/4/10/25	C	C-	No	Yes		X	X	Removal	leans northwest, canker with bark checking at base, topped, moderate dieback, 5' from PL

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
34	shiny xylosma	*Xylosma congestum*	10.5	18	15/10/4/12	B	B-	No	No				Preserve	5' from PL, shaded by #33
35	southern magnolia	*Magnolia grandiflora*	26	40	14/15/15/19	B-	C+	No	No				Removal	moderate dieback, surface roots, HOB
36	southern magnolia	*Magnolia grandiflora*	12.2	30	8/8/11/9	C+	B-	No	No				Removal	moderate dieback, sparse canopy,
37	glossy privet	*Ligustrum lucidum*	1.9, 2, 2.4, 3, 3.3, 5.4, 5.8, 6.2	18	12/7/6/13	B+	C+	No	No				Removal	exposed roots, shaded by #35, 5' from PL, topped, pruned at PL for powerlines
38	pindo palm	*Butia capitata*	BT - 13'	20	5/6/7/6	A	B	Yes	No	X			Removal	dead fronds should be pruned
39	pindo palm	*Butia capitata*	BT -15'	22	4/9/10/5	A	B	Yes	No	X			Preserve	dead fronds should be pruned
40	carrotwood	*Cupaniopsis anacardioides*	1, 1.5, 1.6, 1.9, 2, 2.2, 2.6	15	3/5/5/7	A-	B	No	No				Removal	
41	Mexican fan palm	*Washingtonia robusta*	BT - 55	60	6/6/6/6	A	A	Yes	No	X			Removal	
42	deodar cedar	*Cedrus deodara*	29.7	60	14/22/20/17	B-	B-	No	No				Removal	8' from building, minor dieback
43	Victorian box	*Pittosporum undulatum*	5.3, 5.4, 8.3, 14.7	20	12/13/13/18	C	C	No	No				Removal	decay on trunk, adjacent to wall, old tear, west side sparse, moderate dieback
44	pindo palm	*Butia capitata*	BT -12'	18	7/6/7/8	A-	B+	Yes	No	X			Removal	string lights on trunk

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
45	California sycamore	*Platanus racemosa*	20.3, 26.2	45	4/30/35/16	C	C-	No	Yes				Removal	sycamore borer, moderate dieback, dead branches, overhangs building, HOB
46	California sycamore	*Platanus racemosa*	23.6	45	21/13/7/35	C+	C	No	Yes				Removal	sycamore borer, moderate dieback, HOB, staining on trunk (bleeding), dead branches
47	California sycamore	*Platanus racemosa*	19.6	30	30/0/0/35	C+	C	No	Yes				Removal	sycamore borer, HOB, leans northwest, moderate dieback
48	Brazilian pepper	*Schinus terebinthifolia*	1, 2, 2, 2.2, 4.5, 4.6, 5.3, 5.7, 5.7, 6.1, 7, 7.6, 7.6, 7.6, 8.2	25	15/9/16/17	B+	B-	No	No	X			Removal	adjacent to wall, under #49, interior dieback
49	deodar cedar	*Cedrus deodara*	23	40	10/18/20/11	B-	B-	No	No				Removal	interior dieback, top shaded by #50
50	deodar cedar	*Cedrus deodara*	23.2	45	13/16/19/10	B-	B-	No	No				Removal	slight lean east, canopy raised, interior dieback
51	deodar cedar	*Cedrus deodara*	22	35	18/8/10/17	B-	B-	No	No				Removal	leans northwest, interior dieback, canopy raised
52	Mexican fan palm	*Washingtonia robusta*	BT - 55'	60	3/5/10/5	A	A	Yes	No	X			Removal	

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
53	Mexican fan palm	*Washingtonia robusta*	BT - 55'	60	4/5/5/7	A	A-	No	No	X			Removal	
54	holly oak	*Quercus ilex*	11.7	30	13/12/16/14	A	B	No	No				Removal	adjacent to building, minor dieback, codoms
55	mock orange	*Pittosporum tobira*	8.7, 10.8	16	15/3/3/14	B-	C-	No	No				Removal	leans northwest, sparse, cavity & decay on both trunks
56	Arizona ash	*Fraxinus velutina*	24.1	40	21/14/12/25	C+	C-	No	No				Removal	topped, adjacent to powerlines, moderate dieback
57	coast live oak	*Quercus agrifolia*	28.4	35	20/16/16/19	A	B	No	Yes				Preserve	2' from PL, ivy groundcover, up trunk & in canopy, overhangs adjacent property, MPE
58	coast live oak	*Quercus agrifolia*	34.9	40	20/32/28/17	B	B	No	Yes				Preserve	2' from PL, overhangs adjacent property, MPE, thinner canopy than #57
59	California fan palm	*Washingtonia filifera*	BT - 20	30	3/5/5/3	B	B-	No	No	X			Removal	under canopy of #42, Victorian box growing from base
60	Italian cypress	*Cupressus sempervirens*	2.4	15	2/2/2/2	B	B	Yes	No	X			Removal	small cypress to north, not included
61	Italian cypress	*Cupressus sempervirens*	4.2	22	2/2/2/2	B	B	Yes	No	X			Removal	
62	Italian cypress	*Cupressus sempervirens*	4.6	25	3/3/3/3	B	B	Yes	No	X			Removal	

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
63	Italian cypress	*Cupressus sempervirens*	4.5	25	3/3/3/3	B	B	Yes	No	X			Removal	
64	Italian cypress	*Cupressus sempervirens*	4.8	25	3/3/3/3	B	B	Yes	No	X			Removal	
65	Italian cypress	*Cupressus sempervirens*	4.9	25	3/3/3/3	B	B	Yes	No	X			Removal	
66	Italian cypress	*Cupressus sempervirens*	4.5	25	3/3/3/3	B	B	Yes	No	X			Removal	
67	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes	No	X			Removal	
68	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes	No	X			Removal	
69	Italian cypress	*Cupressus sempervirens*	4.1	20	3/3/3/3	B	B	Yes	No	X			Removal	
70	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes	No	X			Removal	
71	Italian cypress	*Cupressus sempervirens*	5.5	25	3/3/3/3	B	B	Yes	No	X			Removal	
72	Italian cypress	*Cupressus sempervirens*	4.8	25	3/3/3/3	B	B	Yes	No	X			Removal	
73	Italian cypress	*Cupressus sempervirens*	4.6	25	3/3/3/3	B	B	Yes	No	X			Removal	
74	Italian cypress	*Cupressus sempervirens*	5.1	25	3/3/3/3	B	B	Yes	No	X			Removal	
75	glossy privet	*Ligustrum lucidum*	5.7, 6.5	20	6/6/5/9	C	C	No	No				Removal	old trunk removed, decay, moderate dieback

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
76	holly oak	*Quercus ilex*	2.9, 7.1	18	5/4/4/10	B	B-	No	No				Removal	4' from PL wall, pruned for powerlines
77	Arizona ash	*Fraxinus velutina*	9.1	15	2/7/5/6	B	C	No	No				Removal	4' from PL wall, pruned and topped for powerlines
78	Japanese loquat	*Eriobotrya japonica*	7	18	12/1/3/12	B-	C+	No	No				Removal	decay at old cuts, leans northwest
79	glossy privet	*Ligustrum lucidum*	4.3, 4.7, 5.6	18	10/2/2/8	C-	C-	No	No				Removal	extensive dieback, sparse, decay at base
80	Bailey's acacia	*Acacia baileyana*	3.6	14	3/1/6/9	A	A-	Yes	No				Preserve	slight lean southwest
81	black locust	*Robinia pseudoacacia*	7.3, 9.4	25	11/10/15/17	C-	C-	No	No				Removal	adjacent to building, extensive dieback
82	Brazilian pepper	*Schinus terebinthifolia*	5.4	25	10/6/3/3	C-	C-	No	No	X			Removal	shaded out
83	Brazilian pepper	*Schinus terebinthifolia*	2.2, 2.8	12	3/0/0/5	D	D	No	No	X			Removal	shaded out, 2.8" trunk mostly dead
84	glossy privet	*Ligustrum lucidum*	4.9, 5.7, 6.5, 9	18	18/16/7/12	C+	C-	No	No				Removal	topped and pruned for powerlines, 4' from PL, moderate dieback
85	Chinese elm	*Ulmus parvifolia*	3, 4, 5.8	20	12/15/2/4	C	C-	No	No				Removal	3' from PL, pruned and topped for powerlines, moderate dieback
86	mock orange	*Pittosporum tobira*	1.7, 2.1, 3.2, 4.1	10	5/5/7/5	B-	C	No	No				Removal	decay at base, adjacent to building

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
87	Arizona ash	*Fraxinus velutina*	4.2	20	2/7/8/6	B	B	No	No				Removal	adjacent to building, shaded out
88	Victorian box	*Pittosporum undulatum*	3.2, 5.4, 7.9	22	12/12/11/12	B	C	No	No				Removal	growing from base of #59
89	Victorian box	*Pittosporum undulatum*	3.5, 7.7	22	9/9/14/7	B	C-	No	No				Removal	growing from asphalt, thru wall
90	shiny xylosma	*Xylosma congestum*	11.5	20	15/10/6/12	B	C	No	No				Removal	pruned for powerline clearance, under canopy of #35
91	mock orange	*Pittosporum tobira*	2.5, 2.7, 3, 3.1, 4	10	3/4/10/10	B-	C	No	No				Removal	measured at 2', dead small trunks
92	Arizona ash	*Fraxinus velutina*	8.5	18	2/3/3/2	B	C	No	No				Removal	ivy groundcover, up trunk & in canopy, topped, HOB, moderate dieback
93	Arizona ash	*Fraxinus velutina*	1.8, 2, 4.5, 4.6, 10.2	15	3/5/6/2	B	C	No	No				Removal	ivy groundcover, up trunk & in canopy, topped, HOB, moderate dieback
94	holly oak	*Quercus ilex*	4.5	12	3/5/2/3	B	C-	No	No				Preserve	pruned at PL & topped, 3' from PL
95	holly oak	*Quercus ilex*	5.2 @ 3'	12	3/3/3/3	B	C	No	No				Preserve	pruned at PL & topped, 3' from PL
96	holly oak	*Quercus ilex*	4.2 @ 3'	18	0/5/8/2	B	B-	No	No				Preserve	pruned at PL & topped, 3' from PL
97	Arizona ash	*Fraxinus velutina*	1.3, 9	16	17/3/3/3	B	C	No	No				Removal	topped, ivy groundcover and up trunk

Tree #	Common Name	*Botanical Name*	Diameter at 4.5 feet (dbh) In inches	Height (feet)	Canopy Spread (N/E/S/W)	Health (A-F)	Structure (A-F)	Suitability for Relocation	City Protected Tree	City Unprotected Tree	City Protected Mature Tree	Non-Native Oak or CA Native Protected Tree	Preserve, Encroach, or Remove	Comments
98	Arizona ash	*Fraxinus velutina*	4.8	15	0/9/10/2	B	C	No	No				Removal	leaning into #7, topped
99	Arizona ash	*Fraxinus velutina*	4.3	15	6/6/4/7	A	A	No	No				Removal	
100	holly oak	*Quercus ilex*	3.1	8	12/0/0/0	B	C	No	No				Removal	leans north



EXHIBIT B - REDUCED COPY OF THE PROTECTED TREE LOCATION EXHIBIT (not to scale)

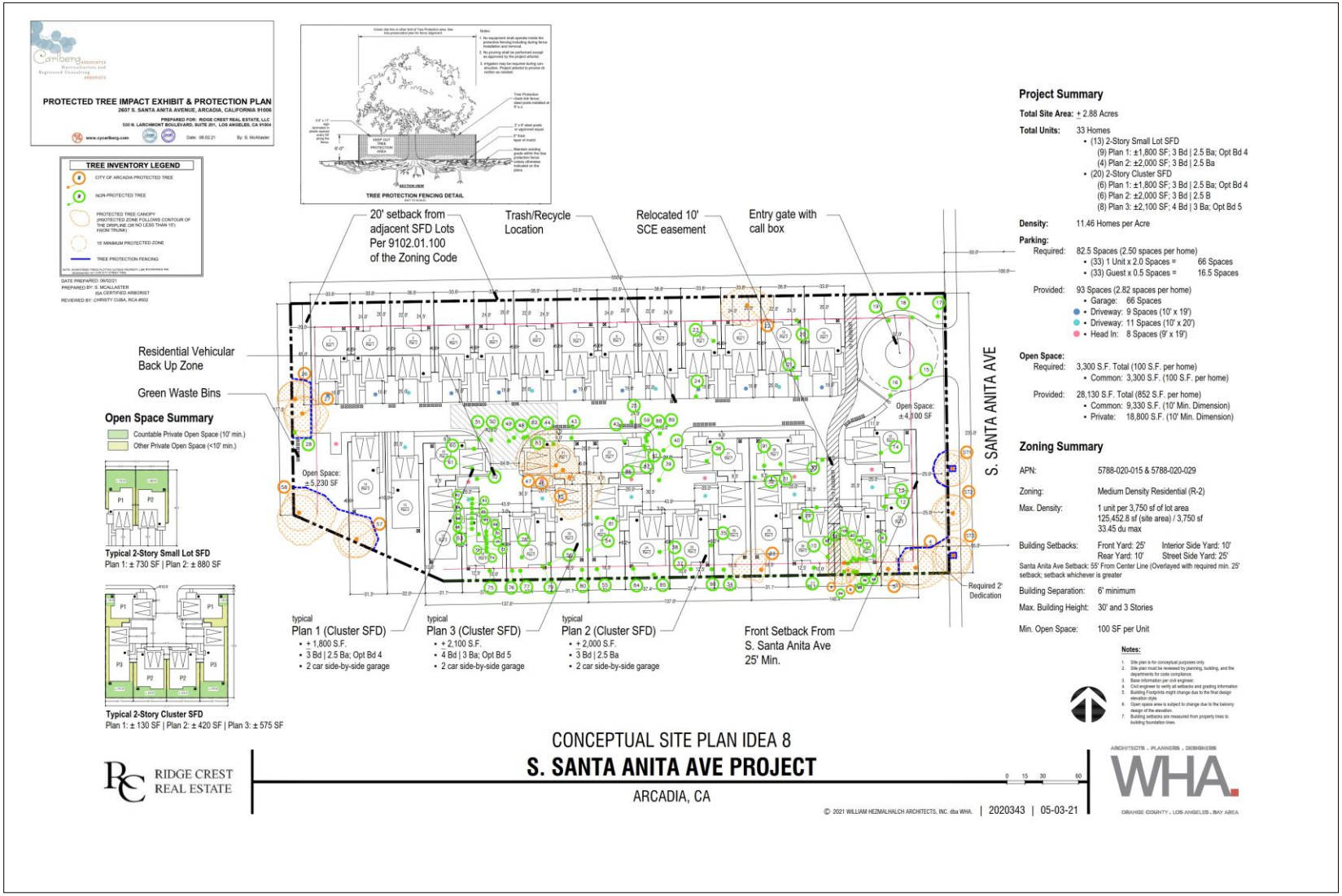
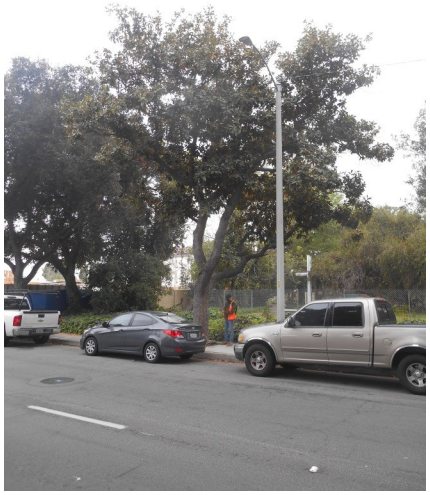


EXHIBIT C - REDUCED COPY OF THE PROTECTED TREE IMPACT EXHIBIT & PROTECTION PLAN (not to scale)

EXHIBIT D - CAPTIONED TREE PHOTOGRAPHS



Tree ST1



Tree ST2



Tree ST3



Tree 4



Tree 5



Tree 6



Tree 7



Tree 8



Tree 9



Tree 10



Tree 11



Trees 12(L), 13(R)



Tree 14



Tree 15



Tree 16



Tree 17



Tree 18



Tree 19



Tree 20



Tree 21



Tree 22



Tree 23



Tree 24



Tree 25



Tree 26



Tree 27



Trees 28



Tree 29



Tree 30



Tree 31



Tree 32



Tree 33



Tree 34



Tree 35



Tree 36



Tree 37



Tree 38



Tree 39



Tree 40



Tree 41



Tree 42



Tree 43



Tree 44



Trees 45—47 (R to L)



Tree 48



Trees 49—51 (L to R)



Trees 52(R), 53(L)



Tree 54



Tree 55



Tree 56



Tree 57



Tree 58



Tree 59



Tree 60



Tree 61



Trees 62—68 (R to L)



Trees 69—74 (R to L)



Tree 75



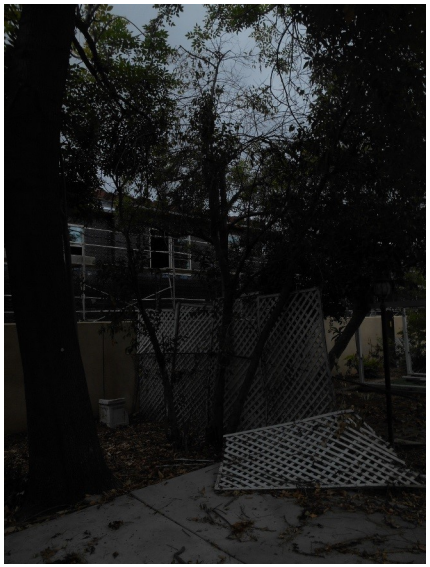
Tree 76



Tree 77



Tree 78



Tree 79



Tree 80



Tree 81



Trees 82(R), 83(L)



Tree 84



Tree 85



Tree 86



Tree 87



Tree 88



Tree 89



Tree 90



Tree 91



Trees 92(R), 93(L)



Tree 94



Tree 95



Tree 96



Tree 97



Tree 98



Tree 99



Tree 100

EXHIBIT E – CAPTIONED PHOTOS OF SYCAMORE TREES (#45 – 47)



California sycamores (Trees #45-47) are in average health with moderate dieback.



All three trees exhibit large canopy spreads and significant leaning which results in a large protected zone.







Trees exhibit moderate dieback – appears mainly due to lack of adequate irrigation.

CERTIFICATION OF PERFORMANCE

I, Scott McAllaster, certify:

- That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and appraisal (if appropriate) is stated in the attached report and the Terms of Assignment;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I further certify that I am an International Society of Arboriculture Certified Arborist, and have been involved in the practice of arboriculture and the study of trees for over 17 years.

Signed:



Date: August 25, 2021

Scott McAllaster
Certified Arborist, WE-7011A
ISA Qualified Tree Risk Assessor

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Risk assessments were neither requested nor performed on any of the trees for this project.

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings are based on an archetypal tree of the same species, determined by a subjective evaluation of physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition are rated A-F:

Health

A) **Outstanding** – Exceptional trees comprising above-average foliage production and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during the current growing season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.

B) **Above average** – Good to very good trees that exhibit minor necrotic (dead) or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.

C) **Average** – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small dead material in outer crown areas, decreased shoot growth, and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.

D) **Below Average/Poor** – trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.

F) **Dead or in spiral of decline** – this tree exhibits very little to no signs of life.

Structure

A) **Outstanding** – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that results in a sturdy form or architecture that can resist failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward signs of decay or pathological disease is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an “A” grade.

B) **Above average** - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists

failure under normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.

C) **Average** - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.

D) **Well Below Average/Poor** - Trees with poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.

F) **Severely Compromised** – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.

ABBREVIATIONS:

1s = one-sided canopy
1sRF = one-sided root flare
Bow = trunk or branch bow
BT = brown trunk of palms
Ckr = canker
Chlor = chlorotic
Cod = codominant trunks or branches
Cr = crowded
Crk = crack
Cvt = cavity
Ds = disease
Db = dieback
DBH = diameter at breast height (4.5 feet)
Dk = decay
DL = dog-leg in limb
E = east
Exc = Excurrent form
Exd = exudation
Epi = epicormic shoots
FC = flush cuts
Gird = girdling root / wire, etc.
Hd = headed / heading cuts
HOB = history of breakage
HR = heart rot
IB = included bark
Inj = injury / injured
LN = lean
LS = limited space
Lt = lion-tailed
LLCR = low live crown ratio
MB = mower scars
Multi = multiple trunks
N = north
OL = over-lifted / raised
OP = over-pruned
OverX = over-extended
P = pests
RF = root flare (NoRF = no root flare)
S = south
Sc = scaffold
Sh = shallow roots
SmL = small leaves
Sp = sparse
SR = surface roots
SS = stump sprouts/root crown sprouts
T = trunk
Tear = torn limb or trunk
Top'd = topped
W = west
X = crossed limbs or trunks

S in front of other abbreviation = significant, e.g., SDk = significant decay
M in front of other abbreviation = minor, e.g., mDb = minor

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Pasadena, 1999 – 2014

Certificates — Certified Arborist, WE-7011A, International Society of Arboriculture, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2015

AREAS OF EXPERTISE

Mr. McAllaster is experienced in the following areas of tree management and preservation:

- Tree health & risk assessments
- Inventories & reports for native and non-native trees
- Master planning
- Evaluation of trees for preservation, encroachment, relocation, restoration, and hazards
- Construction monitoring and reporting
- Value assessments (appraisals) for native and non-native trees
- Post-fire inventories, assessments, and valuations for native and non-native trees
- Guidelines for tree preservation, planting, pruning and maintenance specifications
- Tree and landscape resource mapping – GPS and AutoCAD
- Planning Commission, City Council, and community meetings representation
- Review of landscape plans for mitigation compliance & fire fuel modification planning
- Performance of long-term mitigation compliance monitoring & reporting

PREVIOUS CONSULTING EXPERIENCE

Mr. McAllaster has performed hundreds of tree inventories, health evaluations, impact analyses, hazard, and value assessments for counties, cities, sanitation districts, and water districts, as well as private developers, architects, engineers, and homeowners. He has over 17 years of experience in arboriculture and is trained in environmental planning, state and federal regulatory permitting, preparation of CEQA analyses, and habitat mitigation planning and implementation. Representative clients include:

City of Pasadena
City of Santa Clarita
City of Glendora
Los Angeles County Fire Department
Los Angeles County Sanitation Districts
Newhall County Water District
Pulte/Centex Homes
Newhall Land and Farming
E & S Ring, Inc.
Hollywood Forever Cemetery
Archdiocese of Los Angeles
St. John's Hospital, Santa Monica
Kovac Architects
Tim Barber, Ltd., Architects
Ojai Valley Community Hospital
The Kibo Group
El Monte Garden Senior Center
IMT Capital, LLC
San Diego Gas & Electric
Corky McMillin Companies
City of South Gate
City of Arcadia
D2 Development
Burrtec, Inc.
The Claremont Colleges
The New Home Company
William Carey University
Claremont Golf Course
Universal Hilton
Gensler Architects
Marmol Radziner, Architects
NAC Architecture
Aurora/Signature Health Services
Monte Vista Grove Homes
Highpointe Communities
Claremont University Center

AFFILIATIONS

Mr. McAllaster serves with the following national and regional professional organizations:

- Member, International Society of Arboriculture, Western Chapter
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Graduate, International Society of Arboriculture Certification Study Program, April 1998
Graduate, Consulting Academy, American Society of Consulting Arborists, February 2008

Experience — Consulting Arborist, Carlberg Associates, 2011 - Present
Director of Environmental Services & Senior Arborist, Land Design Consultants, Pasadena, 1994 – 2011
Park Specialist/Naturalist, City of Monrovia, 1988-1996

Certificates — Certified Arborist, WE-1982A, International Society of Arboriculture, 1998
Registered Consulting Arborist, #502, American Society of Consulting Arborists, 2011
Qualified Tree Risk Assessor, International Society of Arboriculture, 2013

AREAS OF EXPERTISE

Ms. Cuba is experienced in the following areas of tree management and preservation:

- Tree health & risk assessments
- Inventories & reports for native and non-native trees
- Master planning
- Evaluation of trees for preservation, encroachment, relocation, restoration, and hazards
- Value assessments (appraisals) for native and non-native trees
- Post-fire inventories, assessments, and valuations for native and non-native trees
- Guidelines for tree preservation, planting, pruning and maintenance specifications
- Pest and disease identification
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation
- Review of landscape plans for mitigation compliance & fire fuel modification planning
- Preparation of native habitat and woodland management plans
- Performance of long-term mitigation compliance monitoring & reporting
- Expert testimony

PREVIOUS CONSULTING EXPERIENCE

Ms. Cuba has performed hundreds of tree inventories, health evaluations, impact analyses, hazard, and value assessments for counties, cities, sanitation districts, and water districts, as well as private developers, architects, engineers, and homeowners. She has over 30 years of experience in the study of trees and arboricultural consulting, and is trained in environmental planning, state and federal regulatory permitting, preparation of CEQA analyses, and habitat mitigation planning and implementation. Representative clients include:

City of Pasadena
City of Monrovia
City of Santa Clarita
City of Glendora
Los Angeles County Fire Department
California Institute of Technology
Mia Lehrer + Associates
Pulte/Centex Homes
Newhall Land and Farming
KOVAC Design Studio
EPT Design
Pamela Burton & Company
Chandler School
Mesivta of Greater Los Angeles
Watt Companies, LLC
San Diego Gas & Electric
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
The New Home Company
City of South Gate
City of Sierra Madre
Belzberg Architects
Occidental College
Rose Bowl Stadium
Las Encinas Hospital/Aurora Health Services
Pomona College
Claremont University Consortium
Gensler Architects
Claremont Graduate University
Harvey Mudd College
Woodland Construction/D2Development/KIBO Group

AFFILIATIONS

Ms. Cuba serves with the following national and regional professional organizations:

- Member, American Society of Consulting Arborists
- Member, International Society of Arboriculture, Western Chapter
- Member and Past President (2015), Street Tree Seminar, Inc.

APPENDIX A

CITY OF ARCADIA TREE PRESERVATION ORDINANCE

Tree Preservation

Section 9110.01 Tree Preservation

Subsections:

9101.01.010 Purpose and Intent
9110.01.020 Applicability
9110.01.030ProtectedTrees
9110.01.040 Unprotected Trees
9110.01.050 Tree Maintenance
9110.01.060 Exemptions
9110.01.070 Tree Permit Requirements
9110.01.080 Tree Replacement
9110.01.090 Protective Measures
9110.01.100 Violations and Enforcement
9110.01.110 Liability
9110.01.120 Definitions

9110.01.010 Purpose and Intent

This Tree Preservation Chapter is established to recognize oaks, sycamores and mature trees as significant aesthetic and ecological resources as well as valuable environmental assets, and to create favorable conditions for the preservation and propagation of irreplaceable plant heritage for the benefit of the current and future residents of the City. It is the intent of this Chapter to maintain and enhance the public health, safety and welfare through the mitigation of soil erosion and air pollution. It is also the intent of this Chapter to preserve and enhance property values through conserving and enhancing the distinctive and unique aesthetic character of many areas in the City.

9110.01.020 Applicability

1. The provisions of this Chapter shall apply to all protected trees on all public and private property whether vacant, undeveloped, in the process of development or developed.

2. No protected trees as herein defined shall be removed, topped, trimmed, damaged or have its protected zone encroached upon except in conformance with the provisions of this section, except as allowed under Exemptions.

3. Tree valuations shall be established by the City's chosen methodology as set forth in the most current edition of the Guide for Plant Appraisal, published by the-International Society of Arboriculture. This shall be applied to those trees damaged, topped, trimmed or removed without a permit as well as those removed with a permit when an alternative replacement fee is required.

4. Any person, property owner, and contractor who violates or permits the violation of any provisions of this Ordinance shall be subject to the enforcement remedies set forth in the subsection 9110.01.100 Violations and Enforcement.

9110.01.030 Protected Trees

Protected Trees are recognized as valued environmental assets and significant aesthetic and ecological resources. Any proposed removal or encroachment upon the canopy or protected zone of a protected tree shall be subject to the provisions set forth in subsection 9110.01.070 Tree Permit Requirements. Protected trees shall include the following:

1. Engelmann Oak *(Quercus Engelmannii*) or Coast Live Oak *(Quercus Agrifolia)* with a trunk diameter larger than four (4) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring three (3) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.
2. Any other living California native or non-California native Oak tree with a trunk diameter larger than twelve (12) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring ten (10) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.
3. California, or western, Sycamore *(Platanus Racemose*) with a trunk diameter larger than six (6) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring four (4) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.
4. Mature Tree. Any tree, with the exception of the trees listed as Unprotected Trees, that have a trunk diameter larger than twelve (12) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring ten (10) inches each or greater in diameter, measured at a point of four and one-half (4½) feet above the root crown and the tree is located within a required front, side, street-side, or rear yard setback.

9110.01.040 Unprotected Trees

Unprotected trees are not subject to the regulations stated in this chapter. Unprotected trees shall include any non-oak and non-sycamore trees located outside a required front, side, street-side, or rear yard setback and any of the following trees located anywhere on a property:

1. Fruit and Nut trees
2. Shamel Ash (*Fraxinus uhdei*)
3. Ficuses, except Moreton Bay fig (*Ficus macrophylla*)
4. Eucalyptus
5. Tree of Heaven (*Ailanthus altissima*)
6. Palm Tree
7. Brazilian Pepper (*Schinus terebinthifolius*)
8. Carob (*Ceratonia siliqua*)
9. European White birch (*Betula pedula*)
10. Silk Oak (*Grevillea robusta*)
11. Mulberry (*Morus*)
12. Silver Maple (Acer saccharinum)
13. Italina Cypress (*Cupressus sempervirens*)
14. Western Cottonwood (*Populous fremontii*)
15. White Alder (*Alnus rhombifolia*)

16. Black Cottonwood (*Populus trichocarpa*)

17. All other varieties and/or hybrids of cottonwood (*Populus sp*.)

18. Arroyo willow (*Salix lasiolepis*)

19. Sweet Gum *(Liquidambar)*

9110.01.050 Tree Maintenance

1. Any portion of a tree that encroaches into the City's public right-of-way shall be maintained to prevent any visibility issue or pose any imminent danger to a person or property.
2. Any pruning or trimming of a protected tree shall not require a tree permit but shall be completed in accordance with the industry standards as set forth by the International Society of Arboriculture or the American National Standards Institute (ANSI), and in consultation with a Certified Arborist. All property owners shall be required to obtain a written recommendation from a Certified Arborist for any pruning and trimming work to a protected tree.
3. The removal of a tree limb from a protected tree shall not require a tree permit, but must be done in consultation with a Certified Arborist. The Certified Arborist shall be required to be on-site while the work is being performed and if necessary, the property owner shall provide proof to the City that this work was completed with a tree report detailing the need for removal.

9110.01.060 Exemptions

The following are exempt from the provisions of this Chapter:

1. Emergency Situation. A permit is not required where a protected tree is damaged by a storm, fire, or other natural disaster, the Development Services Director or the Director of Public Works Services or their designees, or any member of a law enforcement agency or Fire Department, in the performance of his or her duties, determines that protected tree poses an imminent threat to the public safety, or general welfare.
2. Visual Barriers. Removal or relocation of protected trees necessary to obtain adequate line-of- sight distances as required by the Development Services Director or the Director of Public Works Services or their designees.
3. Public Utility. Actions taken for the maintenance, and/or protection of existing electrical power or communication lines or other property of a public utility.
4. City Property. Removal, cutting, or pruning of protected trees on City owned property, which in the opinion of the Director of Public Works Services or designee, will cause damage to existing public improvements, pose danger to persons or property, or which are in a location that does not permit the development of the site for public purposes.
5. Public Property. Actions taken by local agencies for the maintenance of protected and unprotected trees located on property under their jurisdiction.
6. Mature trees, as defined herein, shall not be subject to encroachment permit requirements if they are not located on the property where development is proposed.

9110.01.070 Tree Permit Requirements

A tree permit is required for all protected trees, as defined by this Chapter.

A. Tree Permits *[Combined with portions of 9702.01.030 – Application and Fees and 9702.01.040 – Action on Application]*

1. Removal of Dead, Diseased and/or Hazardous Protected Trees.
    a) If the Director or designee determines that the tree is dead or hazardous, a tree report is not required and removal

may be authorized.

b) In all other cases, a tree report is required from a Certified Arborist. The report must include an evaluation of the health of the protected tree and a recommendation.

c) Upon the receipt of a complete application, the Director or designee shall have seven (7) days to take action on the application, unless it is being acted upon with another discretionary permit

2. Removal of A Healthy Protected Tree

a) A tree report shall be required from a Certified Arborist. The tree report must include an evaluation of the health of the protected tree, and the following information, at a minimum, the following:

(1) An explanation as to why the tree's removal is necessary.
(2) An explanation as to why tree removal is more desirable than alternative project designs.
(3) An explanation of any mitigation measures.

b) Upon the receipt of a complete application to remove a healthy protected tree, the Director or designee shall have thirty (30) days to take action on the application, unless it is being acted upon with another discretionary permit.

c) A Notice of Pending Decision shall be required for the Removal of a Healthy Tree application and shall be provided in compliance with Development Code Section 9108.13 (Public Notices and Hearings). The notice shall be mailed to all owners of real property as shown on the latest assessment rolls of the City or of the County, located within a radius of 300 feet of the exterior boundaries of the subject property. Surrounding residents shall have up to 14 days to submit any comments before the date of the Director's consideration and final decision as stated in the notice.

3. Encroachment into a Protected Zone of Protected Trees.

a) A tree report is required from a Certified Arborist. The tree report shall specify the location and condition of the trees, include potential impacts of the development, recommended actions and mitigation measures in order to preserve the long-term health of the trees. The tree report shall include, at a minimum, the following:

(1) An explanation why is it necessary to encroach upon the tree(s);
(2) An explanation why is the encroachment upon the tree(s) more desirable than an alternative project design; and
(3) An explanation of any mitigation measures.

b) Upon the receipt of the application, the Director or designee shall have thirty days (30) days to take action on the application, unless it is being acted upon with another discretionary permit.

B. Application Requirements *[Portions from 9702.01.030 – Application and Fees]*

All applications shall be completed using a form provided by the City and shall contain all required information, including:

1. A complete evaluation of the tree and a tree report;
2. Required fees per City's Fee Resolution; and
3. The City may require additional information based on each individual situation and application related to the health of the tree(s).

C. City's Designated Homeowners' Associations *[Originally under 9702.01.040 – Action on Application]*

If the subject property is within a Homeowners Association area established pursuant to the Arcadia Municipal Code, and a project is being submitted to the Architectural Review Board, the property owner shall submit their tree removal request and project plans along with their architectural plans, to the Architectural Review Board of said Homeowners Association for review and approval, conditional approval or denial, prior to filing an application with the City for tree encroachment and/or healthy tree removal permit.

D. Expirations of Permit or Approval

Unless otherwise stated in the approval, the privileges granted under these applications shall become null and void if not utilized within twelve (12) months from the date of the final approval, unless otherwise specified in the permit or approval, or an extension is approved by the applicable Review Authority, in compliance with Development Code Section 9108.11.080 Expirations and Subsection 9108.11.090 (Time Extensions).

E. Appeals

The Review Authority's decision may be appealed, in compliance with Development Code Section 9108.07 (Appeals). The appeal shall be filed with the Department or City Clerk, within 10 days following the actual date the decision was rendered and accompanied with the filing fee identified in the City's Fee Schedule.

9110.01.080 Tree Replacement

1. Tree Replacement. For every protected tree that was approved to be removed, it shall be replaced with a minimum of two (2) new 24-inch box trees. When it is appropriate, the Director may modify, waive, increase, or reduce the tree replacement requirement.
2. Follow-up Report. The Certified Arborist, at the expense of the property owner, shall submit a follow-up report to the City that the work was completed, and to the satisfaction of the Director.

9110.01.090 Protective Measures

The following protective measures are hereby established for protected trees during development or construction activity to minimize any damage to the root system:

1. No building, structure, wall or impervious paving shall be located within the protected zone of any protected tree.
2. No construction related activities shall occur within the protected zone of any protected tree, including but not limited to, building construction, storage of materials, grade changes, or attachment of wires to or around tree trunks, stems, or limbs.
3. Each and every protected tree shall be shielded from damage during construction by a six (6) foot high chain link fence surrounding the entire dripline. The fence shall be supported by two-inch galvanized poles driven into the ground at appropriate distances. Fencing shall be installed prior to the commencement of any development on the site and remain in place throughout the construction and landscape period.
4. Branches that may be injured by vehicles or that interfere with construction shall be pruned carefully.
5. The root protection zone should be irrigated with clean potable water to keep the tree in good health and vigor before, during, and after construction.
6. All work conducted in the ground within the root protection zone of any protected tree should be completed with hand tools.
7. Any required trenching should occur outside of the dripline or protected zone of a protected tree.
8. Cutting of roots should be avoided.
9. "Natural" or pre-construction grade should be maintained in the root protection zone.

9110.01.100 Violations and Enforcement

A. The Development Services Department, through its Code Services Officers, shall enforce the provisions of this Chapter. Additionally, Police Officers, planners, inspectors from Building Services and the Public Works Services Department, in the course of their duties, will monitor construction activities for compliance with the provisions of this Chapter. Any irregularities or suspected violations will be reported immediately to the Community Development Division for follow-up action.

B. Whenever any construction or work is being performed contrary to the provisions of this Chapter, any tree permit, or any conditions of the appropriate development permit, a City inspector may issue a notice to the responsible party to "stop work" on the project on which the violation has occurred or upon which the danger exists. The notice shall state the nature of the

violation or danger and no work shall be allowed until the violation has been rectified and approved by the Director of Development Services or designee.

C. Criminal and Civil Remedies.

1. Criminal.

   Any person who violates any provisions of this Chapter including violations of inspector's orders shall be subject to the following remedies in addition to misdemeanor penalties for violation of the Municipal Code.

2. Restitution-Civil Penalties.

   a) It has been determined that the protected trees within the City are valuable environmental assets to the citizens of this community and as a result of the loss of any of these protected trees, the public should be recompensed, and penalties applied to assure the primary goal of conservation, protection, and preservation of protected trees as set forth in this Chapter.

   (b) Accordingly, any person violating the provisions of this Chapter shall be responsible for proper restitution including but not limited to the following or any combination thereof: (1) payment of a fine of up to $1,000.00 or the amount set forth in a schedule of fines, in accordance with Chapter 4A of the Arcadia, (2) an order to pay to the City an amount equal to the replacement value or the actual replacement cost of the tree (3) replacement the protected tree, which has been removed, and/or (4) planting new protected trees or other trees which may be more appropriate to the site. Replacement shall be made based on the value or the actual replacement cost, whichever is higher, plus the cost of planting the replacement trees. The type, number, size and location of said equivalent replacement trees shall be determined by the Director or designee.

   (c) Tree values shall be established by the City's chosen methodology as set forth in the most current edition of the Guide for Plant Appraisal, published by the International Society of Arboriculture.

   (d) The City Attorney is authorized to take whatever legal steps are necessary for recovery of civil penalties.

D. Administrative Remedies.

1. A suspension of any building permits until all mitigation measures specified by the City are satisfactorily completed.
2. Completion of all mitigation measures as established by the City.

9110.01.110 Liability

Nothing in this chapter shall be deemed to impose any liability upon the City, its officers, or employees. No duty of care or maintenance is imposed upon the City, its officers or employees with reference to private property, and no private property owner or other person in possession of private property is relieved from the duties to keep protected trees in a safe condition on their property. This Ordinance does not relieve the owner or possessor of private property from the duty to keep protected trees subject to this chapter in such a condition as to prevent the protected tree from constituting a hazard or dangerous condition to persons or property.

9110.01.120 Definitions

This Section provides definitions of the technical and other terms and phrases used in this Chapter as a means of providing consistency in its interpretation. Where any definition in this Section may conflict with definitions in other titles of the Arcadia Municipal Code, these definitions shall prevail for the purposes of this Code. If a word is not defined in this Section or in other provisions of the Municipal Code, the most common dictionary definition is presumed to be correct.

Branch/Limb. A secondary outward growing stem that grows from the main trunk of a tree.

Canopy/Crown. Upper part of the tree consisting of branches, leaves, and foliage.

Certified Arborist. An individual who has demonstrated knowledge and competency through obtainment of the current International Society of Arboriculture arborist certification, or who is a member of the American Society of Consulting Arborists.

Damage. Damage shall mean any action undertaken that goes beyond industry pruning standards that is done without consultation of Certified Arborist which causes injury, death, or disfigurement to a protected tree. This includes, but is not limited to, severe pruning, cutting, poisoning, overwatering, topping, trimming, relocating or transplanting a protected tree, or trenching, excavating or paving within the protected zone of a protected tree.

Dead tree. A tree that exhibits no signs of life whatsoever (e.g. green leaves or live limbs) during a period of the year when they should be present.

Diameter-at-breast-height (DBH). The standard measurement of the size of a tree. The diameter shall be measure at four and one-half (4½) feet above the root crown.

Director. In a matter involving private property, "Director" shall mean the Director of Development Services of the City of Arcadia or appointed designee. In the matter involving public property, "Director" shall mean the Director of Public Works Services of the City of Arcadia or appointed designee.

Dripline. Dripline shall mean a series of points formed by the vertical dripping of water, on any property, from the outward branches and leaves of a protected tree.

Encroachment. Encroachment shall mean any intrusion into the protected zone of a protected tree including, but not limited to, grading, fencing, landscaping, hardscape, excavation, trenching, parking of vehicles, storage of materials or equipment, or the construction of structures or other improvements.

Multi-Trunk. Multi-trunk means any tree with multiple trunks attributed to a single tree. For purposes of determining the diameter of a multi-trunk tree, the diameter of each trunk shall be measured at a point four and one-half (4½) feet above the root crown.

Over Excavation. Over excavation refers to soil excavation that goes beyond the depth required for the formation of a structure.

Private Property. Private property shall mean land owned by individuals, partnerships, corporations, firms, churches, and the like to which land access by the public is generally restricted.

Protected Trees. Protected Trees are those trees that are recognized as valued environmental assets and significant aesthetic and ecological resources herein this Chapter. Any proposed removal or encroachment upon the canopy or protected zone of a protected tree shall be subject to the provisions set forth in subsection 9701.01.070 Tree Permit Requirements. See Subsection 9701.01.030 for a list of the protected trees.

Protected Tree Report. A Protected Tree Report is prepared and completed by a Certified Arborist. The report shall specify the location and condition of the trees, include potential impacts of the development, recommended actions and mitigation measure in order to preserve the long-term health of the trees.

Protected Zone. Protected zone shall mean a specifically defined area totally encompassing a protected tree within which work activities are strictly controlled. When depicted on a map, the outermost edge of the protected zone will appear as an irregular shaped circle that follows the contour of the dripline of the protected tree. In no case shall the protected zone be less than fifteen (15) feet from the trunk of a protected tree, or exclude the known root structure in the case of irregularly shaped trees.

Pruning. Pruning is the removal of selected branches that are dead, a hazard to public or property, or are otherwise selected for removal while preserving the overall form of the tree. Pruning can be done as a standard maintenance of the tree canopy and to give a tree a more balanced appearance, to reduce the weight on one side of a tree in order to prevent the tree from toppling, or to remove branches that are at risk of breaking and injuring people or damaging property.

Public Property. Public property shall mean land owned by a public or governmental entity and generally accessible to the public.

Removal. Removal shall mean the uprooting, cutting, or severing of the main trunk, of a protected tree.

Root Crown. Root crown shall mean that portion of a protected tree trunk from which roots extend laterally into the ground. Area where the main roots join the plant stem, usually at or near ground level. Also known as the root collar.

Root Flare. The root flare is the area at the base of a tree where the trunk transitions from trunk and bark tissues into root system tissues. Roots should be growing outward from the base of a tree at the same level as the surrounding soil or slightly above it. This creates a “flare” of roots that should always be exposed and never covered with soil or other materials.

Root Protection Zone. A circular ground radius corresponding to the distanced from the trunk to the edge of the tree dripline. The area indicates the tree's root system which contains sufficient roots and volume to maintain the tree's viability.

Stem. A woody structure that gives rise to other branches. A tree trunk is often referred to as a stem.

Topping. The removal of the uppermost branches of a tree, or cutting the trunk, in order to reduce its height without regard to overall form, structural integrity and the long-term tree health. Typically results in a horizontal cut across the trunk and leaving lateral branches. Topping is not an approved arboricultural industry standard and should be avoided. Topping results in injuries and may result in the early failure and death of trees.

Tree. A woody perennial plant with a single or multiple trunks, which typically develop a mature size of over several inches in trunk diameter.

Tree Protection Plan. A Tree Protection Plan is plan which outlines specific required measures and standards to protect trees during the pre-construction, demolition, construction, and post-construction development phases in order to safeguard the health and long-term welfare of protected tree(s) on a development site.

Thinning. Thinning is a selective removal of live branches to reduce the overall density of a canopy. Routine thinning does not necessarily improve the health of a tree; in fact, removal of foliage through pruning can reduce growth and energy reserves.

Trimming. Trimming means the alteration of the outward shape of a tree without regard to which branches are to be trimmed. Typically results in a geometric rather than natural shape.

Undeveloped Property. Undeveloped property shall mean land which is in its natural, original, or pristine state.

Unprotected Trees. Unprotected trees shall mean trees that are not subject to the regulations stated in the Chapter. Unprotected trees shall include any non-oak and non-sycamore tree located outside a required front, side, street-side, or rear yard setback and any of the following trees located anywhere on a property. See 9701.01.040 Unprotected Trees the list of unprotected trees.

Vacant Property. Vacant property shall mean land on which no buildings or improvements have been erected or orchards planted but which may have been graded for drainage or other purposes.

Attachment No. 6

Letter of Support -
Arcadia Congregational Church

Arcadia Congregational
United Church of Christ
226 West Colorado Blvd.
Arcadia, CA 91007
(626) 447-8053 † E-mail: arcadiacucc62@yahoo.com † Web: arcadiaucc.org

October 19, 2021

Re. Letter of Support for development of 2607 S Santa Anita Ave, Arcadia, CA

Dear City of Arcadia,

We wish to submit this letter in support of the proposed development project by Ridge Crest Real Estate, LLC on the approximately 2.75 acre property located at 2607 S. Santa Anita Ave.

As you may be aware, the Arcadia Congregational Church has been an active participant in the Arcadia community for 68 years. We have owned this property during that time and have been fortunate to have been a part of many key milestone events for many of our congregants. We fully support the redevelopment of this property so that the land will continue to be a home to families, albeit in a different manner; while the property use will change, we are pleased that it will continue to provide a home to residents of Arcadia. In fact, the sale and redevelopment of the property will allow the Church to be well funded and continue to offer the many services we provide our congregants and the Arcadia community. Redevelopment of the property will help benefit both the new residents here as well as our congregation, so we offer the project and Ridge Crest Real Estate our full support and look forward to your approval of their plans.

Sincerely,

Arcadia Congregational Church, Arcadia, California,
a California nonprofit corporation
Name: Dianne Pateta
Title: Moderator

Attachment No. 7

Categorical Exemption Memorandum

MEMORANDUM

to Support an Exemption to the California Environmental Quality Act Enclave on Santa Anita Project— 2607 South Santa Anita Avenue Arcadia, California 91006

Prepared for:

City of Arcadia
240 W. Huntington Drive
Arcadia, California 91007

Prepared by:

DUDEK
38 N. Marengo Avenue
Pasadena, California 91101

OCTOBER 2021

Printed on 30% post-consumer recycled material.

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1 Introduction

The Enclave on Santa Anita (Project or proposed Project), located at 2607 South Santa Anita Avenue, involves the demolition of an existing church and associated structures and the development of 33 homes on an approximately 2.88-acre (125,567 square foot) site located in the City of Arcadia (City) in northeast Los Angeles County (LAC). The Project site is located on two legal parcels: APN 5788-020-029 and APN 5788-020-015.

The City has reviewed the proposed Project and has determined that the appropriate environmental documentation, in compliance with the California Environmental Quality Act (CEQA) would be a Categorical Exemption (CE). This document provides support for the applicability of a CE and a Notice of Exemption (NOE) may be filed upon the approval of the City's proposed actions. According to Section 15062(a) of the State CEQA Guidelines, if filed, an NOE must contain the following information:

1. A brief description of the project,
2. The location of the project (either by street address and cross street for a project in an urbanized area or by attaching a specific map, preferably a copy of a USGS 15' or 7-1/2' topographical map identified by quadrangle name),
3. A finding that the project is exempt from CEQA, including a citation to the State Guidelines section or statute under which it is found to be exempt,
4. A brief statement of reasons to support the finding, and
5. The applicant's name, if any.

This Memorandum provides substantial evidence to support the finding of the CE and NOE and provides the above-required information. The NOE and this supporting Memorandum represent the City's independent judgment and analysis. As discussed further in Section 3.0, Evaluation Pursuant to the California Environmental Quality Act, based on information reviewed, the proposed Project meets the requirements of a categorical exemption under State CEQA Guidelines Section 15332, Class 32, “In-Fill Development Projects” CE.

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2 Project Setting and Description

2.1 Project Location

The Project site is located at 2607 South Santa Anita Avenue in the City of Arcadia (City). The site is located on South Santa Anita Avenue and is mid-block between West Woodruff Avenue (142 feet to the north) and West Live Oak Avenue (353 feet to the south). Regional access to the Project site is provided via the I-210, I-605, and I-10. The I-210 travels in an east-west direction and lies approximately 2.2-mile north of the Project site. Figure 1, Project Location, provides a graphic of the Project's regional location and local vicinity with an aerial view of the surrounding land uses and the boundaries of the Project area (which includes APN 5788-020-029 and APN 5788-020-015).

2.2 Existing Conditions and Setting

2.2.1 On-Site and Surrounding Land Uses

The Project site is located on two adjoining parcels, APN 5788-020-029, and APN 5788-020-015, which both have a General Plan Land Use designation of Medium Density Residential (MDR) (City of Arcadia 2010a). The 125,187 square-foot (2.88-acre) Project site is zoned Multifamily Residential (R-2) (City of Arcadia 2021, 2021a). The MDR designation and R-2 Multifamily Residential Zone are intended to support varied housing types and sizes within a suburban neighborhood context (City of Arcadia 2010a). Adjacent property land use designations include Low Density Residential (LDR) to the north, east, and west, and Mixed-Use parcels to the south (see Table 2, General Plan and Zoning Ordinance Consistency, of Section 3.1, Class 32 In-Fill Development, for further details relating to land use and zoning).

Approximately half of the Project site is paved to support a ground level parking lot spread across the northern extents of both parcels. The southern half of the Project site includes the former Arcadia Congressional Church building[1], which was recently subject to a structural fire.

The Project area also supports a variety of trees and other urban landscaping, such as non-native grasses and various small to medium sized shrubs. Based on an arborist report prepared by Carlberg Associates (2021), there are 100 mature native and non-native trees occupying the Project site or located immediately adjacent to the Project site. Five (5) of these mature trees are native Coastal Live Oaks.

The nearest school to the Project site is Longley Way Elementary School, which is located approximately 0.46 miles west. The Project area is adjacent to single family residences to north and west, as well as to the south, where residences are located approximately 87-feet away across on the east side of South Santa Anita Avenue. The nearest public park is Santa Anita Park located 0.55 miles north-northeast of the Project site.

Land uses surrounding the immediate Project area consist almost entirely of single-family residential except for a narrow commercial and mixed-use development component running east to west along Live Oak Avenue, including several high-density zoned residential parcels to the west. Regional access to the Project site is provided via the I-

[1] The Arcadia Congressional Church building is no longer in active use as a religious facility. The congregation (also referred to as Arcadia Congressional Church) who utilized the site has relocated to the Santa Anita Church, located north west of the Project site at 226 West Colorado Boulevard.

210, I-605, and I-10. The I-210 travels in an east-west direction and lies approximately 2.2-mile north of the Project site. The California Department of Transportation (Caltrans) classifies the I-210 as an Eligible State Scenic Highway (not officially designated) where it traverses the City (Caltrans 2021). Local access to the Project site is provided primarily via South Santa Anita Avenue and East Live Oak Avenue, which intersect roughly half a block east of the Project site. In addition, Foothill Transit Route 492, and Metro Routes 78 and 287 provide bus service within .5 mile of the proposed project.

2.3 Project Description

The proposed Project would include the development of 33 multi-family detached dwelling units (du), including 13 two-story small lot homes with two design plans (i.e., 1,821 sf and 1,980 sf) and 20 two-story cluster homes with 3 design plans (i.e., 1,821 sf, 1,980 sf, and 2,123 sf). The proposed Project would include 93 parking spaces (2.82 spaces per home) and landscaping throughout the site. Approximately 4,400 square feet of open space would be provided at the eastern edge of the Project site. The maximum density of the Project is 11.48 homes per acre, which is compatible and consistent with applicable land use and zoning regulations (refer to Table 1, General Plan and Zoning Ordinance Consistency, for further details).

The proposed 33 detached 2-story homes would be arranged along the northern and southern borders of the property oriented towards the centerline, with the 20 southern properties clustered into three smaller horseshoe shaped cul-de-sacs (see Figure 2, Site Plans). The proposed homes along the northern and western boundary would include a minimum 20-foot setback from the adjacent residential parcels, and the homes on the eastern boundary would have a minimum 25-foot setback from Santa Anita Avenue.

One ingress/egress with an entry gate and callbox would be located in the northeast corner of the Project site accessible from South Santa Anita Avenue. The design renderings' (Figure 3, Architectural Renderings) exterior color schemes and proposed exterior building materials suggest that the aesthetics of the proposed homes would be compatible with existing surrounds. Any exterior lighting/security lighting would be required to comply with Section 9102.01.130, Exterior Lighting Standards for Residential Properties and Zones, of the City of Arcadia Development Code. The proposed Project would also meet or exceed the City's Development Code requirement of 3,400 sf (100 sf/home) of open space (City of Arcadia 2021).

The proposed Project would require the removal of 83 mature trees, including three (3) California sycamore trees and 5 other trees whose trunks are greater than 12-inches in diameter and which are protected under Division 10, Section 9110.01, Tree Preservation, of the City's Development Code. Of the 83 trees to be removed, 13 are protected under the City's Tree Preservation Ordinance. There are also three non-protected off-site street trees one of which will be removed. The project applicant proposes to plant a total of 68 new trees, including 16 new replacement trees in accordance with AMC requirements, as stated in Section 2.3.4, Tree Preservation and Removal.

2.3.1 Construction

Construction activities related to the proposed Project would begin in Fall 2021 and end in early Winter 2023. Construction would be broken down into four phases, including: Phase 1 (Demolition and Site Preparation), Phase 2 (Grading), Phase 3 (Paving), and Phase 4 (Building Construction and Architectural Coating). Building construction would likewise be broken down into an additional three phases. Approximately eleven units would be built per phase, with a two-month break in between each phase. The specific number of homes in each phase

may be adjusted depending on market conditions. No pile driving, blasting or onsite rock crushing related to the proposed Project is anticipated at this time. Please refer to Table 1, Construction Activities and Scheduling, below, for more details.

Table 1. Construction Activities and Scheduling

Phase Name	Phase Type	Days Of Work/Week	Total Days
Phase 1	Demolition	5 Days/Week	25
	Site Preparation		5
Phase 2	Grading	5 Days/Week	20
Phase 3	Paving	5 Days/Week	25
Phase 4	Building Construction	5 Days/Week	290
	Architectural Coating		30

2.3.2 Operation

Once operational, the Project would provide housing for approximately 95 people (DOF 2021). [2] Access would be from one ingress/egress from South Santa Anita Avenue, which would be gated and equipped with a call box. No public access without prior homeowner association (HOA) or resident approval would be permitted. The Project would ultimately be able to accommodate/park up to 93 standard two-axle vehicles[3]. Water and sewer service would be provided by the City of Arcadia. Other utility providers would include SoCal Gas Company, Verizon, and Time Warner. All private lots, common spaces, and landscaped areas would be homeowner or HOA maintained.

2.3.3 Landscaping

The proposed Project would include open space, front yard, and private landscaped areas. The open space landscaping would primarily be located along the Project site's South Santa Anita Avenue frontage and would likely be the most visible to neighbors and other non-resident community members. This area would include tall vertical trees, such as Italian Cyprus and Kurrajong, as well as palm species, ornamental grasses (Pink Flamingos, Slender Veldt Grass, and Autumn Moore Grass), flowering perennials (Yellow Daylily, Spanish Lavender, Fortnight Lily), shrubs (Pacific Wax Myrtle, Rosemary, Bird of Paradise), vines on a decorative trellis along the 6-foot accent wall, and other various ground coverings (White Ice Plant, Blue Chalksticks, Trailing Myoporum). The front yard and interior landscaping would include a variety of shade trees (Camphor, Sweet Bay, California Sycamore), and other smaller decorative trees (Bronze Loquat, Marina Strawberry Tree). Other decorative landscaping would include a decorative sawtooth patterned concrete driveway and roundabout at the ingress/egress, decorative cobblestone, large decorative container pottery with accent plants, and a 6-foot-tall perimeter masonry wall.

[2] To calculate the total estimated occupancy of the Project, an estimated persons per household rate for the City of Arcadia (2.85) was multiplied by the total number of proposed homes (33), to arrive at 94.05, rounded up to 95 persons. The persons per household estimate of 2.85 was provided by the California Department of Finance (DOF), in their *E-5 Population and Housing Estimates for Cities, Counties, and the State, 2011-2021 with 2010 Census Benchmark,* released in May 2021.

[3] Each home would include a private two car garage. There would be an additional 20 driveway spaces, as well as seven "head-in" spaces for visitors, resulting in a total of 93 spaces, or 2.82 spaces per home.

2.3.4 Tree Preservation and Removal

As previously discussed in Section 2.2.1, On-Site and Surrounding Land Uses, there are 100 mature native and non-native trees occupying the Project site or located immediately adjacent to the Project site (Carlberg Associates 2021). Five (5) of these mature trees are native coastal live oaks, which would be preserved in place. The Project would, however, require the removal of 83 mature trees, including three (3) California Sycamore trees and 5 other trees whose trunks are greater than 12-inches in diameter and which are protected under Division 10, Section 9110.01, Tree Preservation, of the City's Development Code (Tree Preservation Ordinance). Of the 83 trees to be removed, a total of 13 are protected under the City's Tree Protection Ordinance. Removal of healthy, protected trees would require the City's issuance of a Tree Permit for the Removal of Healthy Protected Trees (Section 91101.01.070(A)(2)). Implementation for the Project would also likely result in encroachment upon the dripline of three (3) preserved coast live oaks, which would require a Tree Permit for Encroachment into a Protected Zone of Protected Trees (Section 91101.01.070(A)(3)). There are also three non-protected, off-site street trees, one of which would be removed. Encroachment upon trees would not require issuance of any additional permits, per Chapter 8, Comprehensive Tree Management Program, of the City's Municipal Code.,

Per Section 9110.01.080 of the City's Development Code, for every protected tree proposed for removal, a minimum of two (2) new 24-inch box trees must be planted. In addition, a Certified Arborist, at the expense of the Applicant, would be required to submit a follow-up report to the City confirming that the replacement trees were planted at an acceptable ratio (e.g., at least 2:1). Per the landscape plan, the Project proposes to plant a total of 68 new trees, which would satisfy the requirements of the Tree Preservation Ordinance and would result in a net increase of trees on the Project site. (For further information regarding regulatory compliance related to tree removal, encroachment, preservation, and replacement, please refer to Section 3.1, Class 32 In-Fill Development.)

2.4 Discretionary Actions

A Discretionary Decision is an action taken by a government agency (for this Project, the government agency is the City of Arcadia) that calls for an exercise of judgment in deciding whether to approve a project (CEQA Guidelines §15357). The City's anticipated discretionary action is adoption of the Class 32 CE. This CE may also serve as the documentation used under CEQA for additional discretionary actions by the City related to the proposed Project. Discretionary actions subject to the City's review and approval include, but are not limited to:

1. Adoption of the CE
2. Approval of an Oak Tree Encroachment Permit
3. Approval of a Healthy Tree Removal Permit
4. Site Plan and Design Review
5. Architectural Design Review

3 Evaluation Pursuant to CEQA

Section 21084 of the Public Resources Code (PRC) requires that the State CEQA Guidelines include a list of classes of projects that have been determined not to have a significant effect on the environment and therefore, are exempt from the provisions of CEQA. Section 15300 of the State CEQA Guidelines includes a list of classes of projects that do not have a significant effect on the environment and do not require preparation of an environmental document. As presented below, based on information provided by the City of Arcadia, this Project qualifies under a Class 32 "In-fill Development Projects" CE.

3.1 Class 32 In-Fill Development

Pursuant to Section 15332 of the State CEQA Guidelines, a Class 32 exemption applies to the following type of projects:

> Class 32 consists of projects characterized as in-fill development meeting the conditions described in this section.
>
> (a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designations and regulations.
> (b) The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban areas.
> (c) The project site has no value as habitat for endangered, rare, or threatened species.
> (d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.
> (e) The site can be adequately served by all required utilities and public services.

The proposed Project is consistent with the requirements of a Class 32 CE, as detailed below as well as in Section 3.3, Additional Substantiation. The proposed Project is located in an urbanized area of Arcadia, meets the criteria for an in-fill development, and meets all the conditions of CEQA Guidelines Section 15332, as listed above.

Section 15332(a). As discussed in Section 2.2.1, On-Site and Surrounding land Uses, the Project site is located on two adjoining parcels, APN 5788-020-029 and APN 5788-020-015, which both have a General Plan Land Use designation of Medium Density Residential (MDR) (City of Arcadia 2010a). The 125,187 square-foot (2.88-acre) Project site is zoned Multifamily Residential (R-2) (City of Arcadia 2021, 2021a). The MDR designation and R-2 Multifamily Residential Zone are intended to support varied housing types and sizes within a suburban neighborhood context (City of Arcadia 2010a). The proposed Project does not propose any zoning or land use changes and would not require any General Plan amendments. Please refer to Table 2, General Plan and Zoning Ordinance Consistency, below, for further details.

Table 2. General Plan and Zoning Ordinance Consistency

General Plan Land Use Designations		Zoning District		Maximum Allowable Density (du/acre)	Project Density (du/ acre)	Minimum Lot Area (square feet)	Project Lot Area (square feet)	Minimum Distance Between Structures (feet)	Project Distance Between Structures (feet)
MDR	Medium Density Residential	R-2	Multifamily Residential Zone	12	11.46	7,500	125,453	6	6.6 to 12

Source: City of Arcadia (2021), City of Arcadia (2021a), City of Arcadia General Plan (2010)

As stated above, the Project is consistent with the applicable General Plan Land Use designation as well as with applicable Zoning designations and regulations. For further discussion. Please refer to the subheading Land Use and Planning of Section 3.3, Additional Substantiation.

Section 15332(b). The approximately 2.88-acre site on which the Project is located is within the City of Arcadia and is substantially surrounded by urban land uses. Because the Project site is less than 5 acres and is located within the city limits of Arcadia and is surrounded by developed properties, including other residential and mixed-use properties, the Project meets the requirements of Section 15332(b).

Section 15332(c). The Project site is fully developed and located within an urbanized area of the City of Arcadia with no value as habitat for endangered, rare, or threatened species. Approximately half of the Project site is paved to support a ground level parking lot spread across the northern extents of both Project parcels. The southern half is largely covered with buildings, including a vacant church, an events hall, and other ancillary structures. The Project area also supports a variety of trees and other urban landscaping, such as non-native grasses and various small to medium sized shrubs. Based on an arborist report (Carlberg Associates 2021), there are 100 mature native and non-native trees occupying the site or located immediately adjacent to the site. Based upon the arborist report, the Project site has no value as habitat for endangered, rare, or threatened species.

While not relevant to the Project's compliance with Section 15332(c), the City of Arcadia has requirements concerning removal of certain trees, which shall be complied with by the Project applicant. The following analysis is provided for informational purposes only and is not relevant to determine the applicability of the Class 32 CE. The City of Arcadia requires a permit for removal or encroachment upon the canopy or protected zone of a protected tree, which are defined as:

1. Engelmann Oak (*Quercus Engelmannii*) or Coast Live Oak (*Quercus Agrifolia*) with a trunk diameter larger than four (4) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring three (3) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.
2. Any other living California native or non-California native Oak tree with a trunk diameter larger than twelve (12) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring ten (10) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.

3. California, or western, Sycamore (*Platanus Racemose*) with a trunk diameter larger than six (6) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring four (4) inches each or greater in diameter, measured at a point four and one-half (4½) feet above the root crown.
4. Mature Tree. Any tree, with the exception of the trees listed as Unprotected Trees, that have a trunk diameter larger than twelve (12) inches measured at a point four and one-half (4½) feet above the root crown, or two (2) or more trunks measuring ten (10) inches each or greater in diameter, measured at a point of four and one-half (4.50) feet above the root crown and the tree is located within a required front, side, street-side, or rear yard setback.

The proposed Project would remove 28 City-defined protected trees and would result in encroachment into the protected zone of five (5) Coastal Live Oaks due to the proposed Project site development. The City's Tree Preservation Ordinance (Ordinance) requirements for healthy protected tree removals associated with development projects are summarized as follows:

a) A tree report shall be required from a Certified Arborist. The tree report must include an evaluation of the health of the protected tree, and the following information, at a minimum, the following:
    (1) An explanation as to why the tree's removal is necessary.
    (2) An explanation as to why tree removal is more desirable than alternative project designs.
    (3) An explanation of any mitigation measures.
b) Upon the receipt of a complete application to remove a healthy protected tree, the Director[4] or designee shall have thirty (30) days to take action on the application, unless it is being acted upon with another discretionary permit.
c) A Notice of Pending Decision shall be required for the Removal of a Healthy Tree application and shall be provided in compliance with Development Code Section 9108.13 (Public Notices and Hearings). The notice shall be mailed to all owners of real property as shown on the latest assessment rolls of the City or of the County, located within a radius of 300 feet of the exterior boundaries of the subject property. Surrounding residents shall have up to 14 days to submit any comments before the date of the Director's consideration and final decision as stated in the notice.

Further, Section 9110.01.080, of the Tree Preservation Ordinance requires the following:

1. Tree Replacement. For every protected tree that was approved to be removed, it shall be replaced with a minimum of two (2) new 24-inch box trees. When it is appropriate, the Director may modify, waive, increase, or reduce the tree replacement requirement.
2. Follow-up Report. The Certified Arborist, at the expense of the property owner, shall submit a follow-up report to the City that the work was completed, and to the satisfaction of the Director.

Pursuant to Section 9110.01.080 of the Tree Preservation Ordinance, a field inventory and assessment of trees occupying the Project site or located immediately adjacent to the Project site was conducted on April 13, 2021 by a Carlberg Associates Certified Arborist. The findings of the survey were included in a repot (Arborist Report) issued

[4] According to Section 9110.01.120 of the City's Development Code, in a matter of healthy, protected tree removals or encroachments involving private property, "Director" shall mean the Director of Development Services of the City of Arcadia or appointed designee. In the matter involving public property, "Director" shall mean the Director of Public Works Services of the City of Arcadia or appointed designee.

to the City on August 25, 2021. The Arborist Report included a discussion of tree inventory, evaluation, analysis methods, a summary of findings, identification of anticipated impacts, and tree protection recommendations consistent with Section 9110.01 of the Tree Preservation Ordinance and the tree removal permit process specified therein, as well as Chapter 8, Comprehensive Tree Management Program, of the City's Municipal Code governing the planting, maintenance, removal and replacement of City-owned trees on public property.

While the Project Applicant proposes to preserve the five (5) existing on-site and/or site adjacent Coastal Live Oak trees, implementation of the proposed Project would likely result in encroachment upon their dripline. In accordance with Section 91101.01.070(A)(3) of the Tree Preservation Ordinance, the Project applicant would be required to apply for and await issuance of a Tree Permit for encroachment into a protected zone of protected trees. As such, although not required to be analyzed under CEQA, all impacts of the proposed Project related to protected tree removals and encroachment would be less than significant, and with compliance with City regulations, no mitigation measures would be required

Although impacts of Project related tree removal and encroachment will reduce Project impacts through compliance with the existing local regulatory framework, the mature existing trees, as well as any existing surrounding shrubs, could potentially provide nesting habitat for special status migratory bird and/or raptor species. This would not be addressed via adherence to the City's tree protection and management ordinances, discussed above. As such, removal of these trees and/or shrubs has the potential to disturb nesting birds, as would most large-scale Project construction activities. However, under the provisions of the federal Migratory Bird Treaty Act (MBTA) (Title 33, United States Code, Section 703 et seq., and Title 50, Code of Federal Regulation, Part 10), it is unlawful by any means or manner to pursue, hunt, take, capture or kill any migratory bird, as well as any part, nest, or egg of any such bird, except as permitted by regulations issued by the U.S. Fish and Wildlife Service. California Fish and Game Code Section (CFGC) 3513 provides protection to the birds listed under the MBTA on a State level. Additionally, CFGC 3503 makes it unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, including birds of prey (e.g., eagles, hawks, falcons, owls), except as otherwise provided by the CFGC. Protection of nesting birds is required by law and any nests that may be present within the Project site must be avoided until the nest has been abandoned and the chicks have fledged, pursuant to regulations. Therefore, if nesting birds or raptors are present, they would be protected by existing federal and state regulations, potential impacts would be less than significant, and no mitigation measures are required.

Section 15332(d): The Project would not result in significant impacts to traffic, noise, air quality, or water quality, as described below.

3.1.1 Transportation/Traffic

On October 21, 2021, a vehicle miles traveled (VMT) analysis was conducted by a qualified Dudek transportation planner to determine whether the proposed Project would create a significant transportation impact under the current CEQA guidelines and Senate Bill (SB) 743, which requires VMT to be the primary metric for impact assessment. The methodologies and findings of this analysis are summarized below.

A VMT analysis (Appendix A) for the proposed Project was prepared consistent with the City of Arcadia Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment (August 2020) and the Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018).

The City's recently adopted guidelines include methodologies, screening criteria, analysis procedures and mitigation measures for conducting a CEQA VMT analysis for projects located within the City. According to the City's "Low VMT Area Screening" criteria, residential projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary.

A project would result in a significant project generated VMT impact if either of the following conditions are satisfied:

- The baseline project generated VMT per service population exceeds the 15% below the San Gabriel Valley Council of Governments (SGVCOG) Northwest subarea baseline VMT per service population, or
- The cumulative project generated VMT per service population exceeds 15% below the SGVCOG Northwest subarea baseline VMT per service population

As shown in the VMT analysis (Appendix A), and summarized in Table 3, below, the proposed Project would not be screened out based on being located in a low VMT area using the SGVCOG VMT Evaluation tool; however, by using VMT Reduction Measures in the tool, including Tier 2 Multimodal Infrastructure and Tier 4 Transportation Demand Management (TDM) Programs, the Project's VMT does pass the low VMT screening analysis, and impacts would be less than significant. Specific reduction strategies are discussed in further detail in Section 4.2, VMT Screening Analysis and VMT Reduction Measures, in Appendix A. With the VMT reduction measures from the City's tool included as City-mandated Conditions of Approval on the proposed Project, the Project's VMT per Service Population would be 30.13, which is less than the VMT threshold of 30.14 per Service Population, and impacts would be less than significant.

Table 3. Project VMT Summary

Criteria	VMT per Service Population
Subarea Average (Baseline) VMT	35.46
VMT Threshold (15% below Baseline)	30.14
Project VMT	31.43
Project VMT with PDF Reduction Measures	30.13

Source: Appendix A

With the City-mandated VMT reduction measures discussed in Appendix A, the proposed Project would have a less than significant impact to traffic/transportation. As such, the following PDFs—which are required Conditions of Approval for the Project—would be included:

- **PDF-TRA-1 Bus Stop Design and Relocation:** The Applicant shall coordinate with the City and Metropolitan Transportation Authority (Metro) to ensure that a new bus stop for Metro Route 287 is located a maximum of 150 feet from the project site, on Santa Anita Avenue, north of Live Oak Avenue. The plans for the location and design of the bus stop shall be prepared to the satisfaction of Metro and shall be reviewed and approved by the City's Deputy Development Services Director/City Engineer prior to issuance of a building permit from Building Services. The new bus stop shall be constructed and operational prior to the issuance of a certificate of occupancy for the Project.
- **PDF-TRA-2 Preparation of Transportation Demand Management Plan:** The Applicant shall submit a Transportation Demand Management Plan (TDM Plan) to Planning services. The TDM Plan will specify how the required VMT reduction measure (TP01- School Pool Program) will be implemented and managed. The TDM Plan will be approved by the City prior to issuance of a certificate of occupancy from Building Services. The TDM Plan shall include the following:

  - **School Pool Program,** managed and implemented by the Project's Homeowner's Association (HOA) to match families in carpools for school pick-up and drop-off to nearby elementary, middle, and high schools. The target participation from households for this program is 50% of Project residents.
- **PDF-TRA-3 Implementation of Transportation Demand Management Plan:** Prior to the issuance of a certificate of occupancy, the Applicant/Property Owner will record a Covenant on the property for the owner to implement and maintain the TDM Plan for the VMT Reduction Strategy as specified in PDF-TRA-2.

By including the Project Design Features (PDF-1, PDF-2, and PDF-3), the proposed Project's VMT per service population would be 30.13, which is 17.1% below the baseline VMT of 35.46 (Appendix A). Therefore, the Project would qualify as a residential project located within a low VMT-generating area and would therefore have a less than significant impact per the SGVAOG and City of Arcadia screening thresholds. No significant transportation impacts would occur from implementation of the proposed Project, and no mitigation is required.

3.1.2 Noise

On July 1, 2021, Dudek prepared an analysis of the potential noise and vibration impacts associated with construction and operation of the proposed Project (Appendix B). The below is a summary discussion of the analysis and its findings.

Parcels adjacent to and surrounding the immediate Project site consist almost entirely of single-family residential uses, except for a narrow commercial and mixed-use development component running east to west along Live Oak Avenue, including several high-density zoned residential parcels to the west. Sensitive receptors near the Project site include the residential uses located immediately north, south, and west of the Project site and the residences located east of South Santa Anita Avenue.

On-site noise-generating activities associated with the proposed Project would include short-term construction activities, as well as on-site operational noise associated with the proposed Project, primarily consisting of mechanical noise from heating, ventilation, and air conditioning (HVAC) equipment. The proposed Project would also generate off-site traffic noise along local roadways in the area.

Construction

The Arcadia Municipal Code addresses noise in several sections. In Article IV, Part 1, General Provisions, Section 4610.3 "Noise Limits," the Municipal Code designates a noise limit of 55 dBA from stationary noise sources within residential land uses from 7:00 a.m. to 10:00 p.m.; from 10:00 p.m. to 7:00 a.m., the noise limit is 50 dBA. Section 4610.3(c) of the City's Municipal Code limits noise from air-conditioning equipment, pumps, fans, or similar machinery in excess of 55 dBA on residential property. The construction activities associated with the proposed Project would take place exclusively during these permitted hours.

Although nearby off-site residences would be exposed to elevated construction noise levels, the exposure would be short term and would cease upon completion of Project construction, and Project construction would not violate the City's standards for construction noise. While construction noise impacts would be less than significant and CEQA does not require the imposition of mitigation measures for insignificant impacts, the following standard construction best management practices (BMPs) shall be incorporated into the Project's demolition and construction phases as Project Design Features (PDFs) and Conditions of Approval for the Project.

- **PDF-NOI-1**: The construction contractor specifications will include the following best practices, to be implemented during construction activities:
  - Construction shall not take place between the hours of 6:00 p.m. and 7:00 a.m. on weekdays, between 5:00 p.m. and 8:00 a.m. on Saturday, or at any time on Sunday or a federal holiday.
  - Stationary construction noise sources such as generators or pumps should be located at least 100 feet from sensitive land uses, to the maximum extent feasible.
  - Construction staging areas should be located as far from noise-sensitive land uses to the maximum extent feasible.
  - During construction, the contractor shall ensure all construction equipment is equipped with appropriate noise-attenuating devices. Idling equipment shall be turned off when not in use.
  - Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

Operations

Long-term operational noise associated with the proposed Project would include noise from Project-generated traffic and from HVAC equipment associated with the Project. The proposed Project would generate traffic along adjacent and nearby arterial roadways (i.e., Santa Anita Avenue, Live Oak Avenue, Las Tunas Drive). The City does not have a specific noise criterion for evaluating off-site noise impacts to residences or noise-sensitive areas from Project-related traffic. For the purposes of this noise analysis, such impacts are considered significant when they cause an increase of 5 dB compared to existing noise levels, or cause noise levels to exceed a 65 dBA CNEL noise threshold. As demonstrated in Appendix B, increase in noise levels from Project-related traffic would be approximately 1/100th of a decibel, not even amounting to a change of 0.1 dB. In the context of community noise (i.e., outside of a listening lab or other controlled environment), a change in noise level of 1 dB or less is not audible. Furthermore, the increase would be well below the threshold of significance of 5 dB and would not cause any given location to exceed 65 dBA CNEL. Therefore, the potential increase in traffic noise related to the proposed Project would be less than significant.

HVAC equipment could have the potential to create significant noise impacts. The specific details (location, size, manufacturer, and model) of the Project's HVAC equipment have not yet been determined. However, based on examination of several major manufacturers' HVAC equipment specifications for representative models, sound pressure levels at 1 meter (3.3 feet) range from approximately 55 to 72 dBA. The nearest existing residential property would be approximately 25 feet to the southwest of the nearest potential HVAC location, which would result in an HVAC noise level of approximately 49 dBA $L_{eq.}$ If two adjacent HVAC units were operating simultaneously, the resultant noise level at the nearest existing residences would be approximately 52 dBA L_{eq}. Therefore, HVAC noise would not exceed the City's noise standard (Section 4610.3(c) of the City's Municipal Code) pertaining to noise from air-conditioning equipment of 55 dBA (Appendix B). Therefore, noise related to onsite mechanical noise from the proposed Project would be less than significant.

Vibration

Construction activities have the potential to expose persons to excessive ground-borne vibration or ground-borne noise. Activities most associated with excessive ground-borne vibration or ground-borne noise include pile driving, blasting, and other special construction techniques. However, none of these techniques would be employed during construction of the proposed Project; therefore, excessive ground-borne vibration and ground-borne noise would not be generated. Vibration levels from Project construction would be less than the thresholds of annoyance and

potential for structural damage. Operation of the proposed Project would not result in any sources of vibration. Therefore, impacts would be less than significant.

Airports

Public and private airports and private airstrips have the potential to expose people residing or working in the Project area to excessive noise. The closest airport to the Project site is San Gabriel Valley Airport (formerly known as El Monte Airport), which is located approximately 1.2 miles away (Caltrans 2019), however, the Project site is not located within the San Gabriel Valley Airport's airport influence area (County of Los Angeles 2004). No private airstrips are located within the broader vicinity of the Project site (AirNav.com 2021). Therefore, impacts associated with public and private airports would be less than significant, and no impacts associated with private airstrip noise would occur.

Conclusion

In summary, with implementation of standard PDFs as required by the City-mandated Conditions of Approval, the proposed Project's noise and vibration impacts would be less than significant and no mitigation is required.

3.1.3 Air Quality

On September 7, 2021, Dudek conducted a quantitative air quality analysis to determine whether the proposed Project would result in the emissions of criteria air pollutants that may cause an exceedance of applicable air quality standards (Appendix C-1). The findings have been detailed below.

Compliance with Applicable Air Quality Plans

The proposed Project site is located in the City of Arcadia within the South Coast Air Basin (SCAB), which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County, and is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

The SCAQMD administers the SCAB's Air Quality Management Plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for the SCAB is the 2016 AQMP (SCAQMD 2017). [5] The 2016 AQMP focuses on available, proven, and cost-effective alternatives to traditional air quality strategies while seeking to achieve multiple goals in partnership with other entities seeking to promote reductions in greenhouse gases (GHGs) and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017).

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the regional air quality plans, and if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining

[5] The SCAQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 parts per billion) for the SCAB and the Coachella Valley. Preliminary rule development for the 2022 AQMP is expected to begin in July 2021 including control measures developed through Residential and Commercial Buildings and Mobile Source Working Groups.

consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3 of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

> ***Consistency Criterion No. 1:*** Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.
>
> ***Consistency Criterion No. 2:*** Whether the project would exceed the assumptions in the AQMP, or increments based on the year of project buildout and phase.

To address the first criterion, project-generated criteria air pollutant emissions have been estimated and analyzed for significance and are addressed under Section 3.3(b). Detailed results of this analysis are included in Appendix B, Air Quality Calculations. As presented in Section 3.3(b), construction and operation of the proposed Project would not generate criteria air pollutant emissions that exceed the SCAQMD's thresholds, and it would therefore be consistent with Criterion No. 1.

The second criterion regarding the potential of the proposed Project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the proposed Project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstruct implementation of, the AQMP if the growth they produce in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (SCAG 2016). SCAQMD uses this document, which is based on general plans for cities and counties in the SCAB, to develop the AQMP emissions inventory (SCAQMD 2017).[6] The SCAG RTP/SCS, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the AQMP is generally consistent with local government plans. The proposed Project site is designated as Medium Density Residential (R-2) within Arcadia (City of Arcadia 2021). As such, the proposed Project would not conflict with existing land use designations.

In summary, based on the considerations presented for the two criteria, impacts relating to the proposed Project's potential to conflict with or obstruct implementation of the applicable AQMP would be less than significant. No mitigation is required.

[6] Information necessary to produce the emissions inventory for the South Coast Air Basin (SCAB) is obtained from the South Coast Air Quality Management District (SCAQMD) and other governmental agencies, including the California Air Resources Board (CARB), California Department of Transportation, and Southern California Association of Governments (SCAG). Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into its Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities projections in their 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy are integrated in the 2016 Air Quality Management Plan (SCAQMD 2017).

Compliance with Applicable Ambient Air Quality Standards

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable contribution on air quality. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003).

A quantitative analysis was conducted to determine whether the proposed Project might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or cumulatively contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include ozone (O3), nitrogen dioxide (NO2), carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM10; course particulate matter), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM2.5; fine particulate matter), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and oxides of nitrogen (NOx), which are important because they are precursors to O3, as well as CO, sulfur oxides (SOx), PM10, and PM2.5.

Regarding NAAQS and CAAQS attainment status,[7] the SCAB is designated as a nonattainment area for federal and state O3 and PM2.5 standards (CARB 2019; EPA 2021). The SCAB is also designated as a nonattainment area for state PM10 standards; however, it is designated as an attainment area for federal PM10 standards. The SCAB is designated as an attainment area for federal and state CO and NO2 standards, as well as for state sulfur dioxide standards. Although the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.[8]

The proposed Project would result in emissions of criteria air pollutants for which the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (EPA) have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause, or contribute to, violations of these standards. The SCAQMD CEQA Air Quality Significance Thresholds set forth quantitative emission significance thresholds for criteria air pollutants, which, if exceeded, would indicate the potential for a project to contribute to violations of the NAAQS or CAAQS. Table 4 lists the SCAQMD Air Quality Significance Thresholds (SCAQMD 2019).

Table 4. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	*Construction (Pounds per Day)*	*Operation (Pounds per Day)*
VOC	75	55
NOx	100	55
CO	550	550

[7] An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the EPA and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

[8] Re-designation of the lead NAAQS designation to attainment for the Los Angeles County portion of the SCAB is expected based on current monitoring data. The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the Project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

Table 4. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
SOx	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead [a]	3	3
Toxic Air Contaminants (TACs) and Odor Thresholds		
Toxic air contaminants [b]	Maximum incremental cancer risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic and Acute Hazard index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	

Source: SCAQMD 2019.
Notes: VOC = volatile organic compound; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = sulfur oxides; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District;

[a] The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the proposed Project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

[b] Toxic air contaminants include carcinogens and noncarcinogens.

The Project would result in a cumulatively considerable net increase for O3, which is a nonattainment pollutant, if the proposed Project's construction or operational emissions would exceed the SCAQMD VOC or NOx thresholds shown in Table 4. These emission-based thresholds for O3 precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse O3 impacts to occur) because O3 itself is not emitted directly.

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from construction and operation of the Project. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with construction and operational activities from a variety of land-use projects. The following discussion quantitatively evaluates Project-generated construction and operational emissions and impacts that would result from implementation of the proposed Project.

Construction Emissions

Construction of the proposed Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, and VOC off-gassing from architectural coatings and asphalt pavement application) and off-site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NOx, CO, PM_{10}, and $PM_{2.5}$. Application of architectural coatings, such as exterior paint and other finishes, and application of asphalt pavement would also produce VOC emissions. Construction emissions can vary substantially from day to day depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions.

For purposes of estimating Project emissions, and based on information provided by the Project applicant, it is assumed that the Project would commence in Fall 2021, would last approximately 16 months, and conclude in Winter 2023. A detailed depiction of expected construction schedules—including information regarding phasing, equipment used during each phase, trucks, and worker vehicles—is provided in Appendix C-1.

General construction equipment modeling assumptions are provided in Table 5, below.

Table 5. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	*Average Daily Vendor Truck Trips*	*Total Haul Truck Trips*	*Types*	*Quantity*	*Usage Hours*
Demolition	14	0	314	Concrete/Industrial Saws	1	8
				Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	3	8
Site Prep	8	0	2326	Graders	1	8
				Scrapers	1	8
				Tractors/Loaders/Backhoes	1	7
Grading	10	0	0	Graders	1	8
				Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	2	7
Building Construction	12	4	0	Forklifts	2	7
				Generator Sets	1	8
				Tractors/Loaders/Backhoes	1	6
Paving	16	0	0	Cement and Mortar Mixers	1	8
				Pavers	1	8
				Paving Equipment	1	8
				Rollers	2	8
				Tractors/Loaders/Backhoes	1	8
Architectural Coating	2	0	0	Air Compressors	1	6

Notes: See Appendix C-1 for details.

6 3.1.3-2 provides the default values for equipment mix, horsepower, and load factor provided in CalEEMod were used for all construction equipment. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site five days per week. Detailed construction equipment modeling assumptions are provided in Appendix C-1.

Emissions generated during construction (and operation) of the Project are subject to the rules and regulations of the SCAQMD. Rule 403 (Fugitive Dust)[9] requires the implementation of measures to control the emission of visible fugitive/nuisance dust, such as wetting soils that would be disturbed. It was assumed that the active sites would be watered at least two times daily, resulting in an approximately 55% reduction of fugitive dust (CalEEMod default value), to represent compliance with SCAQMD standard dust control measures in Rule 403. The application of architectural coatings, such as exterior/interior paint and other finishes, and the application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings that comply with the requirements of SCAQMD's Rule 1113 (Architectural Coatings).[10]

Table 6, Estimated Maximum Daily Construction Criteria Air Pollutant Emissions, shows the estimated maximum daily construction emissions associated with the construction phase of the proposed Project.

Table 6 Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

	VOC	NOx	Co	SOx.	PM_{10}[a]	$PM_{2.5}$[a]
Year	*pounds per day*					
2021	4.32	59.03	30.85	0.12	6.05	2.68
2022	14.75	7.68	9.81	0.02	0.60	0.46
2023	14.67	7.05	9.72	0.02	0.54	0.40
Maximum Daily Emissions	**14.75**	**59.03**	**30.85**	**0.12**	**6.05**	**2.68**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: SCAQMD 2019
Notes: VOC = volatile organic compound; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = sulfur oxides; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District.
See Appendix C-1 for detailed results.
[a] These estimates reflect control of fugitive dust (watering two times daily) required by SCAQMD Rule 403.

As shown in Table 6, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NOx, CO, SOx, PM10, or PM2.5 during project construction. Therefore, construction impacts of the proposed Project would be less than significant, and no mitigation measures are required.

Operational Emissions

CalEEMod was used to estimate operational emissions from area sources (including emissions from consumer product use, architectural coatings, and landscape maintenance equipment), energy, and mobile sources.

[9] SCAQMD Rule 403 requires implementation of various best available fugitive dust control measures for different sources for all construction activity sources within its jurisdictional boundaries. Dust control measures include, but are not limited to, maintaining stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilizing soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilizing backfill during handling and at completion of activity; and pre-watering material prior to truck loading and ensuring that freeboard exceeds 6 inches. While SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming twice daily watering of active sites (55% reduction in PM_{10} and $PM_{2.5}$ [CAPCOA 2017]).

[10] SCAQMD Rule 1113, Architectural Coatings, requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

In regard to energy sources, Title 24 of the California Code of Regulations serves to enhance and regulate California's building standards. The current Title 24, Part 6 standards, referred to as the 2019 Title 24 Building Energy Efficiency Standards, became effective on January 1, 2020. The current version of CalEEMod assumes compliance with the 2019 Title 24 Building Energy Efficiency Standards.

Operation of the Project would generate criteria air pollutant emissions from mobile sources (vehicular traffic) as a result of residents driving to and from the Project site. The maximum weekday trip rates were taken from Section 3.1.1, Transportation/Traffic, and were assumed to be 312 one-way trips per day. The maximum weekday trip rate was then scaled according to the CalEEMod default ratio for the land use to estimate updated weekend trip rates. CalEEMod was used to estimate emissions from proposed vehicular sources (refer to Appendix C-1). CalEEMod default data, including trip characteristics, emissions factors, and trip distances, were conservatively used for the model inputs. Emission factors representing the vehicle mix and emissions for 2023 were used to estimate emissions associated with vehicular sources.

Table 7 represents the maximum daily emissions associated with the first year that the Project would be operational (2023). The values shown are the maximum summer and winter daily emissions results from CalEEMod. Complete details of the emissions calculations are provided in Appendix C-1.

Table 7. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Emission Source	VOC	NOx	CO	SOx	PM_{10}	$PM_{2.5}$
	pounds per day					
Area	1.46	0.03	2.72	0.00	0.02	0.01
Energy	0.03	0.21	0.09	0.00	0.02	0.02
Mobile	0.98	1.02	10.15	0.02	2.28	0.62
Total	**2.47**	**1.26**	**12.96**	**0.02**	**2.32**	**0.65**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NOx = oxides of nitrogen; CO = carbon monoxide; SOx = sulfur oxides; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District.
See Appendix C-1 for complete results.
Operational year 2023 was assumed. The values shown are the maximum summer or winter daily emissions results from CalEEMod. The total values may not add up exactly due to rounding.

As shown in Table 7, the increase in emissions associated with the operation of the proposed Project would not exceed the SCAQMD thresholds for VOC, NOx, CO, SOx, PM_{10}, or $PM_{2.5}$.

As previously discussed, the SCAB has been designated as a federal nonattainment area for O3 and $PM_{2.5}$, and a state nonattainment area for O3, PM_{10}, and $PM_{2.5}$. Construction and operational activities of the proposed Project would generate VOC and NOx emissions (precursors to O3) and emissions of PM_{10} and $PM_{2.5}$. However, as indicated in Tables 6 and 7, Project-generated emissions would not exceed the SCAQMD emission-based significance thresholds for VOCs, NOx, PM_{10}, or $PM_{2.5}$, and therefore the proposed Project would not cause a cumulatively significant impact.

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the Project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.[11] However, future projects would be subject to CEQA and would require an air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would also be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all sites in the SCAQMD. In addition, cumulative VOC emissions would be subject to SCAQMD Rule 1113 (Architectural Coatings).

Therefore, the proposed Project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and impacts would be less than significant during construction and operation. No mitigation is required.

Sensitive Receptors

Localized project impacts associated with construction criteria air pollutants emissions are assessed below and were determined to be less than significant.

Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to the SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). Sensitive receptors near the proposed Project site include single-family residential adjacent and to the north of the proposed Project site. At its nearest, Project construction would take place within approximately 20 feet of the adjacent single-family residential dwellings north of the proposed Project site.

Localized Significance Thresholds

A localized significance threshold (LST) analysis was performed to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the proposed Project site as a result of proposed Project activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (2008). The proposed Project is located within Source-Receptor Area 9 (East San Gabriel Valley).

The greatest on-site daily emissions of NOx, CO, PM_{10}, and $PM_{2.5}$ generated during construction occurred during the demolition period of the proposed Project construction. It was assumed that one rubber-tired dozer and three crawler tractors (CalEEMod category: tractor/loader/backhoes) would be used based on CalEEMod defaults. CalEEMod default values assume that during an 8-hour day, rubber-tired dozers and crawler tractors can each disturb a maximum of 0.5 acres. This results in two acres disturbed per day from one rubber-tired dozer and three crawler tractors. The SCAQMD LST values for two acres within Source–Receptor Area 9 with a receptor distance of 25 meters (82 feet), which are representative of the closest sensitive receptor, were compared to emissions from the proposed Project.

[11] The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

Project construction activities would result in temporary sources of on-site criteria air pollutant emissions associated with off-road equipment exhaust and fugitive dust generation. According to the Final Localized Significance Threshold Methodology, "off-site mobile emissions from the Project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Trucks and worker trips associated with the proposed Project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Therefore, off-site emissions from trucks and worker vehicle trips are not included in the LST analysis. The maximum daily on-site construction emissions generated during construction of the proposed Project are presented in Table 8 and compared to the SCAQMD localized significance criteria for Source–Receptor Area 9 to determine whether Project-generated on-site construction emissions would result in potential LST impacts.

Table 8. Construction Localized Significance Thresholds Analysis

Year	NO_2	CO	PM_{10}	$PM_{2.5}$
	pounds per day (on site)			
2021	40.08	26.83	4.10	2.38
2022	7.50	9.30	0.42	0.40
2023	6.90	9.27	0.36	0.35
Maximum Daily on Site Emissions	**40.08**	**26.83**	**4.10**	**2.38**
SCAQMD LST Criteria	*128*	*953*	*7*	*5*
Threshold Exceeded?	**No**	**No**	**No**	**No**

Source: SCAQMD 2008.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
See Appendix C-1 for detailed results.
Localized significance thresholds are shown for a 2-acre project site and a distance of 25 meters (82 feet) to the nearest sensitive receptor.

As shown in Table 8, proposed construction activities would not generate emissions in excess of site-specific LSTs; therefore, localized Project construction impacts would be less than significant. No mitigation is required.

Toxic Air Contaminants

In addition to impacts from criteria pollutants, certain projects may include emissions of pollutants identified by the state and federal government as toxic air contaminants (TACs) or hazardous air pollutants. State law has established the framework for California's TAC identification and control project, which is generally more stringent than the federal project, and is aimed at TACs that are a problem in California. The state has formally identified more than 200 substances as TACs, including the federal hazardous air pollutants, and is adopting appropriate control measures for sources of these TACs. To reduce the potential for criteria air pollutants, the Applicant proposes the following as a project design feature (PDF):

- **PDF-AQ-1 – CARB-certified Tier 4 Interim Engines:** To reduce the potential for criteria air pollutants, specifically particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), as a result of construction of the Project, the Applicant proposes as a PDF that prior to the start of construction activities, ensures that all 75 horsepower or greater diesel-powered equipment are powered with CARB-certified Tier 4 interim engines.

In an abundance of caution, a voluntary health risk assessment (HRA) was performed for construction of the Project, as discussed below. The HRA data is also included in Appendix C-2, Health Resources Assessment, of this CE.

The most recent guidance from the Office of Environmental Health Hazard Assessment (OEHHA) is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, required revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. Cancer risk parameters, such as age-sensitivity factors, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2. SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2017) and Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (SCAQMD 2003c) provide guidance to perform dispersion modeling for use in HRAs within the SCAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SCAQMD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Some TACs increase non-cancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index (HIC) is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The HIC estimates for all receptor types used the OEHHA-derived calculation method, which uses high-end exposure parameters for the inhalation and next top two exposure pathways and mean exposure parameters for the remaining pathways for non-cancer risk estimates. The HIC is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system.[12] A hazard index less than 1.0 means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant. The SCAQMD recommends a HIC significance threshold of 1.0 (project increment) and an acute hazard index of 1.0.

The greatest potential for TAC exposure from project construction is from diesel particulate matter (DPM), as the exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure values are established and regulated, and therefore, these are not addressed in this assessment.

The dispersion modeling was performed using AERMOD, which is the model SCAQMD requires for atmospheric dispersion of emissions. AERMOD (Version 19191) is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2018).

Construction Health Risk

Construction Health Risk Assessment

A HRA was performed to evaluate potential health risk associated with construction of the Project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix A.

[12] The HIC estimates for all receptor types used the OEHHA-derived calculation method (OEHHA 2015).

For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, and because of the small size of the project site, the CalEEMod scenario for the Project was adjusted to not include vendor and haul diesel truck one-way trips.

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2021a). Air dispersion modeling was performed using the EPA's AERMOD Version 19191 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.9.0. The HRA followed OEHHA 2015 guidelines (OEHHA 2015) and SCAQMD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SCAQMD and EPA guidance and identified as representative of the project site and project activities. Principal parameters of this modeling are presented in Table 9.

Table 9. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Azusa air monitoring station (AZUS) was used for the dispersion modeling (SCAQMD 2021b). A 5-year meteorological data set from 2012 through 2016 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban dispersion option was selected due to the developed nature of the project area and per SCAQMD guidelines.
Terrain Characteristics	The elevation of the site is 597 feet (182 meters) above sea level.
Elevation Data	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the United States Geological Survey's National Elevation Dataset format with a resolution of 1/3 degree (approximately 10 meters), consistent with the SCAQMD guidance (SCAQMD 2021a).
Source Release Characterizations	Air dispersion modeling of DPM emissions was conducted assuming the off-road equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment and on-site truck travel DPM emissions were modeled as a line of adjacent volume sources across the project site to represent project construction with a release height of 5 meters, plume height of 2.33 meters, and plume width of 11.63 meters (SCAQMD 2008; EPA 2018).

Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District; DPM = diesel particular matter; CalEEMod = California Emissions Estimator Model.
See Appendix A.

Regarding receptors, the construction scenario used a 2-kilometer by 2-kilometer Cartesian receptor grid with 50-meter spacing to establish the impact area and evaluate locations of maximum health risk impact (SCAQMD 2021a).

The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (ADMRT, dated 21081). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly

based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the non-cancer chronic health indices. There is no reference exposure level (REL) for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the purposes of this construction HRA, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. The 16-month exposure duration was assumed to start during the third trimester of pregnancy through 16 months of age based on the duration of construction. The exposure pathway for DPM is inhalation only.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs since some TACs increase non-cancer health risk due to long-term (chronic) exposures and some TACs increase non-cancer health risk due to short-term (acute) exposures. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in the HRA. Chronic exposure is evaluated in the construction HRA. Non-carcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at, or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less than one (1.0) means that adverse health effects are not expected.

The Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of project construction are presented in Table 10.

Table 10. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	2.10	10	Less than Significant
Chronic Hazard Index – Residential	Index Value	0.002	1.0	Less than Significant

Source: SCAQMD 2019.
Note: CEQA = California Environmental Quality Act.

As shown in Table 10, Project construction activities would result in a Residential Maximum Individual Cancer Risk of 2.10 in 1 million, which is less than the significance threshold of 10 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.010, which is below the 1.0 significance threshold.

Health Effects of Criteria Air Pollutants

Construction and operation of the proposed Project would generate criteria air pollutant emissions; however, the Project would not exceed the SCAQMD mass-emission thresholds.

The SCAB is designated as nonattainment for O3 for the NAAQS and CAAQS. Thus, existing O3 levels in the SCAB are at unhealthy levels during certain periods. Health effects associated with O3 include respiratory symptoms,

worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2021). The contribution of VOCs and NOx to regional ambient O3 concentrations is the result of complex photochemistry. The increases in O3 concentrations in the SCAB due to O3 precursor emissions tend to be found downwind of the source location because of the time required for the photochemical reactions to occur. Further, the potential for exacerbating excessive O3 concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O3 NAAQS and CAAQS tend to occur between April and October when solar radiation is highest. Due to the lack of quantitative methods to assess this complex photochemistry reliably and meaningfully, the holistic effect of a single project's emissions of O3 precursors is speculative. Because the proposed Project would not involve activities that would result in O3 precursor emissions (i.e., VOCs or NOx) that would exceed the SCAQMD thresholds, as shown in Tables 6 through 8, the proposed Project is not anticipated to substantially contribute to regional O3 concentrations and its associated health impacts during construction or operation.

In addition to O3, NOx emissions contribute to potential exceedances of the NAAQS and CAAQS for NO_2. Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2021). As shown in Tables 6 through 8, proposed Project construction and operations would not exceed the SCAQMD NOx threshold, and existing ambient NO_2 concentrations would be below the NAAQS and CAAQS. Thus, the proposed Project is not expected to result in exceedances of the NO_2 standards or contribute to associated health effects.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2021). CO hotspots were discussed previously as a less-than-significant impact. Thus, the proposed Project's CO emissions would not contribute to the health effects associated with this pollutant.

The SCAB is designated as nonattainment for PM_{10} under the CAAQS and nonattainment for $PM_{2.5}$ under the NAAQS and CAAQS. Health effects associated with PM_{10} include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2021). As with O3 and NOx, and as shown in Tables 6 through 8, the proposed Project would not generate emissions of PM_{10} or $PM_{2.5}$ that would exceed the SCAQMD's thresholds. Accordingly, the proposed Project's PM_{10} and $PM_{2.5}$ emissions are not expected to cause an increase in related regional health effects for this pollutant.

In summary, the proposed Project would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health effects associated with those pollutants. Therefore, impacts would be less than significant.

Other Emissions & Odors

The evaluation of other emissions is focused on the potential for the Project to generate odors. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the Project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the Project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The Project would result in the development of 33 homes, which are not typical sources associated with substantial odors. Therefore, Project operations would result in an odor impact that is less than significant.

Conclusion

In summary, as the Tier 4 PDF element is required as Condition of Approval for the Project, impacts related to air quality and emissions would be less than significant. No mitigation is required.

3.1.4 Water Quality

The existing Project site is fully developed, with approximately half of the site being paved to support a ground level parking lot spread across the northern extents of both Project parcels. The southern half of the Project site is largely covered with buildings, including a vacant church, an events hall, and other ancillary structures. The demolition of existing buildings and paved surfaces and subsequent development of the 33 homes would not substantively alter the amount of impervious area of the Project site. Best Management Construction Practices (BMPs) and a Standard Urban Stormwater Mitigation Plan would be implemented during construction pursuant to the California State Water Resources Control Board Water Quality Order No. 99-08-DWQ (General Construction Permit) through the preparation of a Storm Water Pollution Protection Plan (SWPPP). BMPs include scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs also include treatment requirements, operating procedures, and practice to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (SWRCB 2009). Through implementation of a SWPPP and stormwater BMPS, the potential for polluted runoff associated with construction activities would be minimized. During operation, the proposed Project would comply with the latest County of Los Angeles Department of Public Works LID Standards Manual (LAC 2014). The LID Standards Manual provides guidance for the implementation of stormwater quality control measures in new projects with the intention of improving water quality and mitigating potential water quality impacts from stormwater and non-stormwater discharges (LAC 2014). In addition, according to the LAC Flood Zone Determination map, the Project site is not within a Federal Emergency Management Agency (FEMA) designated flood zone (LAC 2021a). Therefore, the proposed Project would not violate any water quality standard or waste discharge requirement during construction and operation and impacts to water quality standards would be less than significant.

Section 15332(e). As addressed in the topical analyses in Section 3.3, Additional Substantiation, below, the Project would increase demand for utilities and public services, as it would result in an estimated population increase of 95 permanent residents (SCAG 2019). However, according to the City of Arcadia Public Works Services Department, the City has potable water and sanitary sewer facilities to serve the additional residents (Appendix E-1). In addition, Southern California Edison has confirmed that existing capacity is sufficient to serve the 33 new homes (Appendix

E-2). The increase of 95 residents within 33 homes would also not exceed growth projections for the City of Arcadia, the impacts of which have already been analyzed in the City of Arcadia's Certified 2010 General Plan Update EIR, (City of Arcadia 2010b), as the Project does not propose a Zone change or General Plan Amendment. The Project site is appropriately zoned for the proposed use and 11.48 du/acre proposed density[13]. Chapter 4.13, Public Services, of the 2010 General Plan Update EIR, states that impacts on public services and facilities from future development and associated population growth pursuant to the General Plan Update[14] would be less than significant (City of Arcadia 2010a). Therefore, the proposed Project would be consistent with the requirements of Section 15332 of the State CEQA Guidelines. See Section 3.3, Additional Substantiation, for additional substantiation related to public services and utilities. Impacts to utilities and public services associated with construction and operation of the proposed Project would be less than significant.

3.2 Exceptions to the Use of Categorical Exemptions

All categorical exemptions are subject to the exceptions described in Section 15300.2, Exceptions, of the State CEQA Guidelines, as follows which, if triggered, would invalidate the use of a CE:

(a) **Location.** Classes 3, 4, 5, 6 and 11 are qualified by consideration of where the project is to be located – a project that ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may have an impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state or local agencies. This exception therefore is inapplicable.

(b) **Cumulative Impact.** All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time, is significant.

The City provided a list of all other planned or pending projects within its jurisdictional borders. As shown in Table 11, the nearest proposed or pending Project is a small three-dwelling unit residential project located approximately 1.61 miles northeast of the Project site at 141 Alice Street, and is currently in the Plan Check phase. The cumulative projects as provided by the City are listed below according to relative distance from the proposed Project site.

Table 11. Cumulative Projects Relative to the Project Site

Location (Ranked)	Cumulative Project Location	Status	Distance from Proposed Project (Miles)
1	147 Alice Street	Plan Check	1.61
2	43 Genoa Street	Planning Review	1.65
3	157 Genoa Street	Plan Check Complete	1.68
4	416 Genoa Street	Under Construction	1.72
5	141 Fano Street	Planning Review	1.75

[13] The current Project site zoning of R-2, and corresponding General Plan land use designation of Multifamily Residential 12, both have an allowable density of up to 12 du/acre.

[14] Conditional upon the implementation of the goals, policies, standard conditions and implementation actions identified therein, including payment of school impact fees (S.C. 4.13-2) (City of Arcadia 2010a).

Table 11. Cumulative Projects Relative to the Project Site

Location (Ranked)	Cumulative Project Location	Status	Distance from Proposed Project (Miles)
6	420 South 1st Avenue (Mixed Use Building)	Planning Review	1.81
7	135 El Dorado Street	Under Construction	1.82
8	405 South 1st Avenue (Mixed Use Building)	Permits Issued	1.84
9	414 S 2nd Avenue	Plan Check	1.87
10	230 California Street	Under Construction	1.97
11	314 California Street	Under Construction	1.97
12	125 California Street	Under Construction	1.97
13	116 Bonita Street	Under Construction	2.00
14	130 West Huntington Drive (Le Meridien Hotel/Condos/Retail)	Hotel Complete/ Condos Under Construction	2.13
15	200 Street 2nd Avenue	Planning Review	2.14
16	117 East Huntington Drive (Huntington Plaza/Mixed Use)	Plan Check	2.19
17	125 W Huntington Drive (Hotel Indigo)	Plan Check Complete	2.20
18	25 N Santa Anita Ave (Huntington Parkview Mixed Use)	Planning Review	2.22
19	205 North Santa Anita Avenue (Santa Anita Mixed Use)	May be withdrawn but almost complete for public hearing	2.31
20	288 North Santa Anita Avenue (Medical Office/Retail Building)	Under Construction	2.36
21	920 North Santa Anita Avenue	Planning Review	2.83

Source: City of Arcadia Development Services Department

A Class 32 CE requires confirmation that no significant cumulative impacts would result for the topics of traffic, noise, air quality, or water quality. There are no other planned or proposed projects of the same type in the same place as the proposed Project. As such, there would be no cumulative impacts, significant or otherwise, resulting from implementation of the proposed Project. However, for informational purposes only, a discussion of cumulative impacts specific to the topics of traffic, noise, air quality, or water quality is provided below.

Transportation/Traffic. As previously discussed, per the CEQA required technical analysis, the Project would have no significant impacts related to the topic of transportation or traffic. A non-CEQA transportation study which includes LOS analysis is generally required when either the AM or PM peak hour trip generation is expected to exceed 100 vehicle trips from the proposed development, or a project will add 51 or more AM or PM peak hour trips to any intersection. As shown in Table 12, using the trip rates for detached units per the Institute of Transportation Engineers (ITE 2017), Trip Generation Manual, the proposed Project is estimated to generate a total of 312 daily trips, with 24 AM peak hour trips and 33 PM peak hour trips.

Table 12. Project Trip Generation

Trip Generation Rates								
			AM Peak Hour			*PM Peak Hour*		
Land Use	*Size/Unit*	*Daily*	*% In*	*% Out*	*Total*	*% In*	*% Out*	*Total*
Multi-Family Detached Housing [1]	per du	9.44	0.19	0.56	0.74	0.62	0.37	0.99
Trip Generation								
Enclave	33 du	312	6	18	24	21	12	33

Source: Appendix A
[1] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017

Based on the relatively low trip generation of the proposed Project (i.e. less than 100 AM or PM peak hour trips and less than 51 peak hour trips added to any intersection), a non-CEQA LOS analysis is not required per City's guidelines. Additionally, there are no other planned or proposed projects of the same type in the same place as the proposed Project. As such, there would be no cumulative transportation or traffic impacts related to VMT or LOS, and the Project would continue to qualify for a CE under Class 32, In-fill Development Projects (PRC Section 15332).

Noise. As previously discussed, there are no proposed or planned projects within the direct Project vicinity. As such, the proposed Project would not contribute to a potentially cumulative noise impact during short-term construction activities. As previously discussed in Section 3.1.2, upon completion of construction activities, on-site operational noise would be generated by HVAC equipment. However, as discussed above, the Project would result in less than significant operational noise impacts. The Project site is currently zoned as R-2, Multifamily Residential Zone. As such, general noise associated with residential use has already been analyzed in the previously Certified City of Arcadia 2010a General Plan EIR and as identified therein, is less than significant on a cumulative level. Project-related traffic would have no audible impact on traffic noise, as previously discussed in Section 3.1.2. As such, the proposed Projects would have less-than-significant direct and cumulative impacts related to noise.

Air Quality. Cumulative localized impacts related to air quality would potentially occur if a project were to occur concurrently with another off-site project. Currently, there are no known construction activities that would overlap with the proposed Project in proximity to the Project site. However, future projects would be subject to CEQA and would require an air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would also be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all sites in the SCAQMD. In addition, cumulative VOC emissions would be subject to SCAQMD Rule 1113 (Architectural Coatings). There are no other planned or proposed projects of the same type in the same place as the proposed Project. As such, there would be no cumulative air quality impacts associated with the proposed Project per PRC Section 15332.

Water Quality. As previously discussed in Section 3.1.4, the Project would not substantively alter the amount of impervious area of the Project site. The demolition of existing buildings and paved surfaces and subsequent development of the 33 homes would not result in changes to or violations of water quality standards or waste discharge requirements, or substantially degrade surface water quality. No subterranean facilities, such as parking structures, are proposed and there would be no contact with groundwater. All development projects are required to be in compliance with applicable regulations and the City's stormwater management requirements related to water

quality. Because the Project would have no significant direct impact on water quality, the proposed Project would have a less than significant cumulative impact on water quality. Additionally, there are no other planned or proposed projects of the same type in the same place as the proposed Project. As such, there would be no cumulative water quality impacts associated with the proposed Project per PRC Section 15332.

In summary, the negligible impacts due to construction or implementation of the proposed Project would not have a cumulatively considerable contribution to impacts related to any environmental topic per CEQA Guidelines Appendix G.

> (c) **Significant Effect.** A CE shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

Neither the Project site, nor the proposed Project, have any features or characteristics that would distinguish it from others typically included in the exempt classes; therefore, there are no unusual circumstances, as further described in Section 3.3 below. An "unusual circumstance" is determined by the Lead Agency in consideration of whether Project-specific characteristics are unusual in the context of local conditions. There are no features of the proposed Project that would be considered "unusual" per the Supreme Court's understanding of the definition as determined by the *Berkeley Hills Preservation vs City of Berkeley*, which stated that, "The plain language of the [CEQA] Guidelines [Section 15300.2(c)] …requires that a potentially significant [environmental] effect must be due to 'unusual circumstances' (See *Berkeley Hillside Preservation vs. City of Berkeley* (2015) 60 Cal. 4th 1086)." The Project site is in a highly urbanized area; and the construction of the dwelling units at a density authorized by the City's General Plan and Zoning Code is proposed in a manner that is consistent with the preparation of a Class 32 CEs. Additionally, as discussed in the topical evaluation presented below, the Project would not have any significant impacts on the environment. See Section 3.3 below for additional substantiation.

> (d) **Scenic Highways.** A categorical exemption shall not be used for a project, which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

The proposed Project is not within the immediate vicinity of a state designated scenic highway. The California Department of Transportation (Caltrans) classifies the I-210 as an Eligible State Scenic Highway (not officially designated) where it traverses the City (Caltrans 2021). However, the Project site is located 2.2-mile south of the I-210 and would not be visible from the highway. Therefore, the Project would not result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway.

> (e) **Hazardous Waste Sites.** A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

Government Code Section 65962.5 requires the California Environmental Protection Agency (CalEPA) to compile a list of hazardous waste and substances sites (Cortese List). While the Cortese List is no longer maintained as a single list, the following databases provide information that meet the Cortese List requirements: (1) List of Hazardous Waste and Substances sites from Department of Toxic Substances Control Envirostor database (Health

and Safety Codes 25220, 25242, 25356, and 116395); (2) List of open and active LUST Sites by County and Fiscal Year from the State Water Resources Control Board GeoTracker database (Health and Safety Code 25295); (3) List of solid waste disposal sites identified by the State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273[e] and 14 CCR Section 18051); (4) List of "active" Cease and Desist Orders and Cleanup and Abatement Orders from the State Water Resources Control Board (Water Code Sections 13301 and 13304); and, (5) List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by the Department of Toxic Substances Control. On March 25, 2021, Dudek conducted a search of the above-mentioned online databases that provide information on Cortese List sites. The Project address (2607 South Santa Anita Avenue) was not identified in any of the databases (Dudek 2021).

(f) **Historical Resources.** A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

A Historical Resources Assessment Report was prepared for the Project site in October 2020 (Appendix D). Based upon research and analysis, the Project site was determined to be ineligible for listing in the National Register or the California Register dues to lack of sufficient historical merit. Because Government Code Section 37361 limits the ability of local governments to impose historical designations on church properties and exempts them from such local processes, it also is not eligible under local criteria. Therefore, the property is not considered a historical resource for the purposes of CEQA.

4 References

AirNav.com. 2021. Airports search. Accessed June 24, 2021.

Caltrans (California Department of Transportation). 2019. California Aviation Facilities. Web Map Application. Accessed June 25, 2021. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=966ebca3d4044e84bb352b98c5a62a35.

Caltrans. 2021. California State Scenic Highway System Map. Accessed June 16, 2021. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=2e921695c43643b1aaf7000dfcc19983

CARB (California Air Resource Basin). 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005. Accessed August 2016. http://www.arb.ca.gov/ch/landuse.htm.

CARB. 2021. "Common Air Pollutants." Accessed on January 26, 2021.

CARB. 2019. "Maps of State and Federal Area Designations." Accessed on January 26, 2021. https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations

CAPCOA. 2017. *California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2.* Prepared by Trinity Consultants and the California Air Districts. Accessed on January 21, 2021. http://www.caleemod.com/.

Carlberg Associates. 2021. The Inventory and Protection Report, 2607 S. Santa Anita Avenue, Arcadia, CA, 91006. Prepared August 25, 2021.

City of Arcadia. 2010a. City of Arcadia General Plan. Accessed June 15, 2021. https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/general%20plan/Land%20Use%20Element%20Update%20Final.pdf

City of Arcadia. 2010b. City of Arcadia General Plan Update Draft Program Environmental Impact Report. Accessed October 18, 2021. https://www.arcadiaca.gov/shape/development_services_department/planning___zoning/general_plan.php#outer-708

City of Arcadia. 2020. City of Arcadia Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment, August 2020.

City of Arcadia. 2021. Article IX: Division and Use of Land, Chapter 1, Development Code. Accessed: June 15, 2021. https://library.municode.com/ca/arcadia/codes/code_of_ordinances?nodeId=ARTIXDIUSLA_CH1DECO_DIV1ENAPEN_S9101.01PUAPDECO

City of Arcadia. 2021a. Public Zoning Viewer. Accessed June 15, 2021. https://arcadia.gis.lacounty.gov/zoningmapviewer/

City of Arcadia. 2021b. "Will Serve Notice for the South Santa Anita Avenue Project". Submitted June 24, 2021.

EPA (U.S. Environmental Protection Agency). 2018. AERMOD Implementation Guide. https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_implementation_guide.pdf

EPA. 2021. "EPA Region 9 Air Quality Maps and Geographic Information." Accessed on January 21, 2021.

Foothill Transit. 2021. Service Area Map. Accessed June 17, 2021. http://foothilltransit.org/lines-and-schedules/service-area-map/

ITE (Institute of Transportation Engineers). 2017. Trip Generation Manual. 10th ed.

LAC (Los Angeles County). 2014. Los Angeles County Department of Public Works Low Impact Development Standards Manual. February 2014. Accessed June 22, 2021. https://dpw.lacounty.gov/ldd/lddservices/docs/Low_Impact_Development_Standards_Manual.pdf

LAC. 2021a. Los Angeles County Flood Zone Determination (Map). Accessed June 16, 2021. https://apps.gis.lacounty.gov/dpw/m/?viewer=floodzone

OEHHA (Office of Environmental Health Hazard Assessment). 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*. Accessed January 26, 2021. https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

OPR (California Governor's Office of Planning and Research). 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA. December 2018. Accessed November 2020. http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

SCAG (Southern California Association of Governments). 2019. Connect SoCal Program EIR, Section 3.14, Populations & Housing. Accessed: June 30, 2021. https://scag.ca.gov/sites/main/files/file-attachments/dpeir_connectsocal_3_14_populationhousing.pdf?1606003672

SCAG. 2020. *2020–2045 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability, and a High Quality of Life.* Adopted September 3, 2020. Accessed January 21, 2021. https://scag.ca.gov/sites/main/files/file-attachments/fpeir_connectsocal_complete.pdf?1607981618

SCAQMD (South Coast Air Quality Management District). 2003a. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. Accessed on January 26, 2021. http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf?sfvrsn=2.

SCAQMD. 2003b. Final 2003 AQMP Appendix V Modeling and Attainment Demonstrations. August 2003. https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2003-air-quality-management-plan/2003-aqmp-appendix-v.pdf?sfvrsn=2.

SCAQMD. 2003c. Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. Accessed July 6, 2021. http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.

SCAQMD. 1993. CEQA Air Quality Handbook.

SCAQMD. 2008. Final Localized Significance Threshold Methodology. Revised July 2008. Accessed January 21, 2021. http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf.

SCAQMD. 2017a. Final 2016 Air Quality Management Plan. Accessed January 21, 2021. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=15

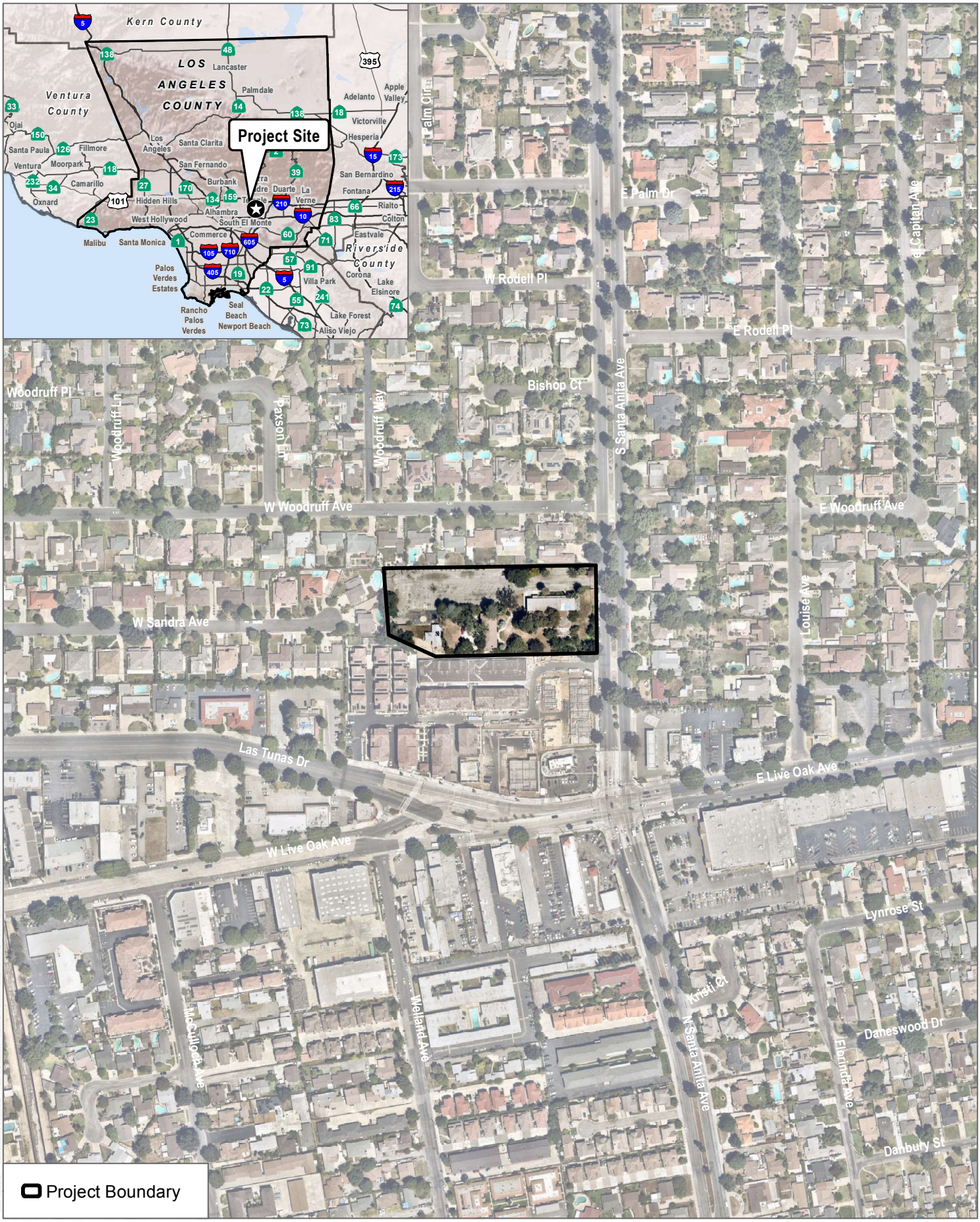
SCAQMD. 2019. SCAQMD Air Quality Significance Thresholds. Originally published in CEQA Air Quality Handbook, Table A9-11-A. Revised April 2019. Accessed September 7, 2021. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf

SCAQMD. 2021a. "SCAQMD Modeling Guidance for AERMOD." Accessed March 2021. https://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance.

SCAQMD. 2021b. "Meteorological Data for Dispersion Modeling." Accessed March 2021. http://www.aqmd.gov/home/air-quality/meteorological-data.

SWRCB (State Water Resources Control Board). 2009. *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associates with Construction and Land Disturbance Activities*. Accessed June 22, 2021. https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2009/wqo/wqo2009_0009_dwq.pdf.

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SOURCE: NearMap 2021, County of Los Angeles 2011

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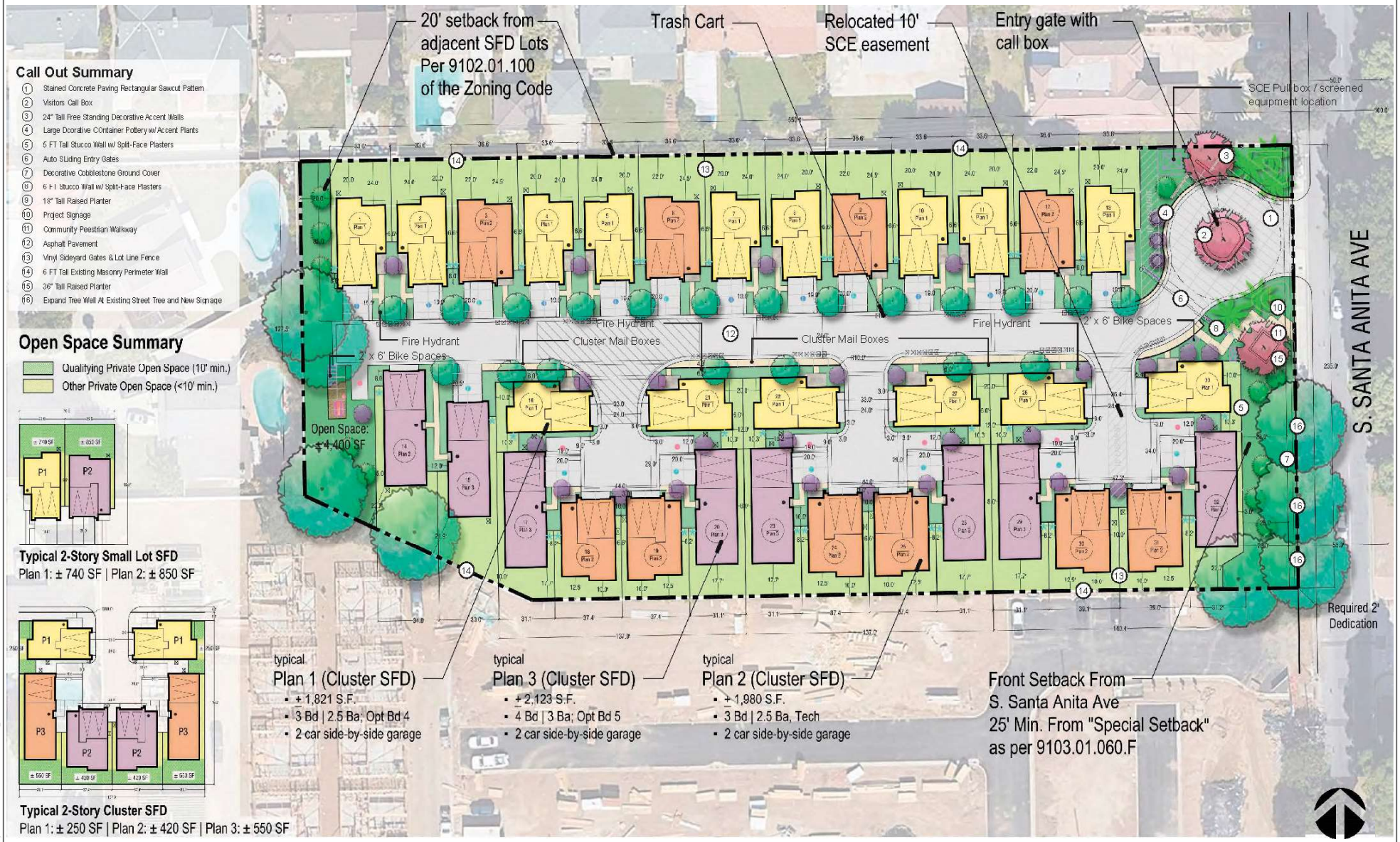
DUDEK

FIGURE 1

Project Location

Enclave on Santa Anita Project

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SOURCE: William Hezmalhalch Architects, Inc. DBA WHA 2021

DUDEK

FIGURE 2

Conceptual Site Plan

Enclave on Santa Anita Project

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SOURCE: William Hezmalhalch Architects, Inc. DBA WHA 2021

FIGURE 3

Architectural Rendering

Enclave on Santa Anita Project

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Appendix A

VMT Analysis Memorandum

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MEMORANDUM

To:	Lisa Flores, City of Arcadia Edwin Areola, City of Arcadia Philip Wray, City of Arcadia
From:	Sabita Tewani, AICP, Transportation Planner Dennis Pascua, Transportation Services Manager
Subject:	Vehicle Miles Traveled (VMT) Analysis for Enclave Project, City of Arcadia
Date:	October 27, 2021
cc:	Kristin Starbird, Senior Project Manager
Attachment(s):	Figure 1 SVGCOG VMT Evaluation Tool Report

The Enclave at South Santa Anita Avenue project (proposed project) consists of a 2.88-acre site with 33 family residential units in the City of Arcadia (City). The following vehicle miles traveled (VMT) analysis was conducted to determine whether the proposed project would create a significant transportation impact under the current CEQA guidelines and Senate Bill (SB) 743 which requires VMT to be the primary metric for impact assessment. This VMT analysis has been prepared consistent with the City of Arcadia *Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (August 2020) and the Office of Planning and Research (OPR) *Technical Advisory on Evaluating Transportation Impacts in CEQA* (December 2018).

1 Project Description and Location

The proposed project consists of a 33-unit, residential development (11.46 dwelling units per acre [du/ac]) and associated on-site improvements. The project is located on a vacant parcel west of Santa Anita Avenue, north of the Santa Anita Avenue/Live Oak Avenue intersection. Primary vehicular site access would be provided via a driveway on Santa Anita Avenue. Figure 1, Project Location, shows the location of the project within the City and the San Gabriel Valley region.

2 Senate Bill 743 Background

A change to transportation analysis in CEQA environmental review occurred when Governor Jerry Brown signed Senate Bill 743 into a law that required an update in the metric of transportation impact from level of service (LOS) and automobile delay to one that promotes the reduction of GHG emissions, the development of multimodal transportation networks, and a diversity of land uses for transit priority areas. SB 743 required OPR to amend the CEQA Guidelines to provide an alternative to LOS for evaluating transportation impacts. Under the new transportation guidelines, LOS, or vehicle delay, is no longer considered an environmental impact under CEQA.

The updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. Under the new guidelines, VMT has been adopted as the most appropriate measure of transportation impacts under CEQA and the

guidelines are in effect statewide since July 1, 2020. Subsequently, the City adopted the VMT metric along with the guidelines and significance criteria for transportation impact analysis in the City's Transportation Study Guidelines (August 2020). The section below summarizes and uses the City's guidelines for the project's VMT analysis.

3 VMT Guidelines, Methodology and Thresholds of Significance

3.1 Statewide Guidelines

OPR approved the addition of new Section 15064.3, "Determining the Significance of Transportation Impacts" to the state's CEQA Guidelines. Section 15064.3 (b)(1) Criteria for Analyzing Transportation Impacts includes presumptions that certain projects (including residential, retail, office, and mixed-use projects) proposed within one-half mile of an existing major transit stop or along a high-quality transit corridor will have a less-than-significant impact on VMT. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact. If the specified presumption does not apply, VMT should be analyzed through a qualitative or quantitative analysis. The Updated CEQA Guidelines are accompanied by the Technical Advisory (OPR Technical Advisory), which includes specifications for how to estimate and forecast VMT and provides lead agencies suggestions regarding methodologies to analyze VMT associated with a project. However, CEQA generally defers to lead agencies on the choice of methodology to analyze impacts.

3.2 San Gabriel Valley Council of Governments (SGVCOG)

San Gabriel Valley Council of Governments (SGVCOG) is the regional planning agency for the City. To assist member agencies with complying to SB 743 mandates, the SGVCOG worked with member agencies and undertook the SB 743 Implementation Study to assist with implementation questions about the methodology, thresholds, and mitigation approaches for VMT impact analysis in its member agencies. The study analyzed existing traffic conditions in the region to develop a baseline standard that determines significance CEQA thresholds for future land use and transportation projects. As part of the process, a web-based tool (SGVCOG VMT Screening Tool) was developed to determine whether a proposed project would require a full VMT analysis based on each City's adopted CEQA criteria. Member agencies including the City of Arcadia have now adopted these criteria in compliance with SB 743.

3.3 City of Arcadia Transportation Study Guidelines for VMT and LOS Assessment

The City used the information produced through the SGVCOG Implementation Study to adopt a methodology and significance thresholds for use in CEQA compliance. Given the need to prepare VMT-based CEQA transportation impact analyses to satisfy the requirements of SB 743 as well as the need to evaluate the performance of the roadway system based on delay and LOS for General Plan Policy requirements, the City of Arcadia *Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment* were released in August 2020 (Transportation Study Guidelines). The City's guidelines provide guidance on assessment for General Plan Consistency (e.g. non-CEQA LOS analysis) and CEQA compliance (e.g. VMT analysis), as well as the format for the transportation study.

A non-CEQA transportation study which includes level of service (LOS) analysis is generally required when either the AM or PM peak hour trip generation is expected to exceed 100 vehicle trips from the proposed development or a project will add 51 or more AM or PM peak hour trips to any intersection.

As shown in Table 1, using the trip rates for detached units per the Institute of Transportation Engineers (ITE 2017), Trip Generation Manual, the proposed project is estimated to generate a total of a total of 312 daily trips, with 24 AM peak hour trips and 33 PM peak hour trips.

Table 1. Project Trip Generation

Trip Generation Rates									
				AM Peak Hour			PM Peak Hour		
Land Use	Size/Unit		Daily	% In	% Out	Total	% In	% Out	Total
Multi-Family Detached Housing [1]	per DU		9.44	0.19	0.56	0.74	0.62	0.37	0.99
Trip Generation									
Enclave	33	DUs	312	6	18	24	21	12	33

Notes:
[1] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017

Based on the relatively low trip generation of the proposed project (i.e. less than 100 AM or PM peak hour trips and less than 51 peak hour trips added to any intersection), a non-CEQA LOS analysis is not required per City's guidelines.

Therefore, this memorandum addresses the VMT analysis per CEQA compliance and City's requirements. The methodology for VMT analysis for individual land development project is based on screening, estimating project-level VMT assessment, and developing mitigation measures. The basic process is to compare a project's estimated VMT per capita, VMT per employee or VMT per service population (i.e. sum of residents and employees) to the average values on a sub-regional or city-wide basis. The target is to achieve a VMT per capita, VMT per employee or VMT per service population that is 15% below the appropriate average based on suggestions in these guidelines.

3.4 Methodology

The City's recently adopted guidelines includes methodology, screening criteria, analysis procedures and mitigation measures for conducting a CEQA VMT analysis for projects located within the City. There are three types of screening that may be applied to screen projects from conducting a detailed project-level assessment:

a) **Transit Priority Area (TPA) Screening:** Projects located within a TPA[1] may be presumed to have a less than significant impact absent substantial evidence to the contrary. Foothill Transit Route 492 and Metro Routes 78 and 287 provide bus service within ½ mile of the proposed project, however based on the peak

[1] A TPA is defined as a half mile area around an existing major transit stop or an existing stop along a high-quality transit corridor per the definitions below. Public Resources Code § 21099(a)(7) Pub. Resources Code, § 21064.3 - 'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods. Pub. Resources Code, § 21155 - For purposes of this section, a 'high-quality transit corridor' means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

commute period frequency of these routes, the project location is not considered to be within a TPA, and therefore cannot be screened out using this criterion.

b) **Project Type Screening:** Some project types such as local-serving retail, schools, parks, assisted living, senior housing, and projects generating less than 110 daily trips[2] may be presumed to have a less than significant impact absent substantial evidence to the contrary. The proposed project is not screened out using project type criteria. As shown in Table 1, using the trip rates for detached units per the Institute of Transportation Engineers (ITE 2017), Trip Generation Manual, the proposed project is estimated to generate a total of a total of 312 daily trips, with 24 AM peak hour trips and 33 PM peak hour trips. Therefore, the project cannot be screened out using 110 daily project trips criterion.

c) **Low VMT Area Screening:** Residential and office projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, other employment-related and mixed-use land use projects may qualify for the use of screening if the project can reasonably be expected to generate VMT per resident, per worker, or per service population that is similar to the existing land uses in the low VMT area. As shown in the VMT analysis below, the proposed project would not be screened out using the SGVCOG VMT Evaluation tool, however as shown in Section 4.0 by using VMT Reduction Measures in the tool, the project's VMT can pass the low VMT screening analysis.

3.5 Thresholds of Significance

The updated CEQA Guidelines themselves do not establish a significance threshold, the OPR's Technical Advisory and the City Transportation Study Guidelines 2020 recommend a threshold of significance to determine potential project generated VMT impacts and project's effect on VMT impacts. Per City's guidelines, the total VMT per service population or the VMT associated with either home-based trips for residential projects or home-based work trips for employment generating projects (e.g. office, industrial, commercial) may be used for the impact analysis.

A project would result in a significant project generated VMT impact if either of the following conditions are satisfied:

- The baseline project generated VMT per service population exceeds the 15% below the SGVCOG Northwest subarea baseline VMT per service population, or
- The cumulative project generated VMT per service population exceeds 15% below the SGVCOG Northwest subarea baseline VMT per service population

Based on the conditions mentioned above, the efficiency metric of total VMT per service population has been used to assess the project's VMT impact. The threshold of 15% below the SGVCOG Northwest Subarea baseline VMT rate for the traffic analysis zone where the project is located would apply to determine project's transportation impact.

[2] This threshold ties directly to the OPR technical advisory and notes that CEQA provides a categorical exemption for existing facilities, including additions to existing structures of up to 10,000 square feet, so long as the project is in an area where public infrastructure is available to allow for maximum planned development and the project is not in an environmentally sensitive area. (CEQA Guidelines, § 15301, subd. (e)(2).) Typical project types for which trip generation increases relatively linearly with building footprint (i.e., general office building, single tenant office building, office park, and business park) generate or attract an additional 110-124 trips per 10,000 square feet. Therefore, absent substantial evidence otherwise, it is reasonable to conclude that the addition of 110 or fewer trips could be considered not to lead to a significant impact.

4 Vehicle Miles Traveled Screening and Analysis

4.1 VMT Screening for Land Use Projects

The OPR's Technical Advisory suggests that agencies may screen out VMT impacts using project size, maps, transit availability, and provision of affordable housing. The guidance recommended by OPR has been modified by the City Transportation Study Guidelines 2020 to be better suited to local and sub-area conditions of San Gabriel Valley. As mentioned in Section 3.4, the proposed project would not be screened out using the City's low VMT area criterion for screening, however it would pass the screening using reduction measures provided in the tool that would be implemented by the applicant as project design features.

4.2 VMT Screening Analysis and VMT Reduction Measures

As mentioned above, residential and office projects located within a low VMT-generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. The proposed project is a residential development and is likely to have commute characteristics similar to other residential uses in the traffic analysis zone (TAZ)[3]. Therefore, the total VMT per service population at the TAZ level was used for comparing with the VMT thresholds at subarea level. The VMT Screening Tool published by SGVCOG was used to determine the total VMT per Service Population in the TAZ in which the proposed project is located. The SGVCOG Screening Tool VMT map is available on the following link.

- https://apps.fehrandpeers.com/SGVCOGVMT/

The SGVCOG tool uses the Southern California Association of Governments (SCAG) travel forecasting model to measure VMT performance for individual TAZs.

The project site is designated as Medium Density Residential in the City of Arcadia's General Plan Land use (City of Arcadia 2010), which allows for unit density of 6-12 dwelling units per acre with typical population density of 17-35 persons per acre. Since the proposed density of the project is 11.46 du/acre (i.e. less than 12 du/acre), the project is consistent with the existing and proposed land use per the General Plan.

Attachment 1 provides the SGVCOG VMT Evaluation Tool Report. The project is located within TAZ 22219100 of the SCAG model and is comprised of 2 parcels. Both of the project's parcels are located in TAZ 22219100 of the SCAG model. The VMT per service population of this TAZ is 33.67 which is less than the subarea baseline VMT of 35.46 but greater than the threshold VMT of 30.14 (15% less than sub areas baseline VMT of 35.46).

Since the total VMT per service population is higher than the threshold VMT, the following VMT reduction measures from the City's tool were applied to the project.

[3] TAZs are geographic polygons similar to Census block groups used to represent areas of homogenous travel behavior.

- **Tier 2 Multimodal Infrastructure:** These strategies require a project developer to provide funding for and/or construct improvements to the surrounding transportation network that encourage the use of biking, walking and transit instead of driving.

    - **MI03 Increase Transit Accessibility**: Building the project within a proximity to a transit station or stop with high-quality service enhances access to transit which facilities the use of transit for people traveling to/from the project site. Facilitating transit use results in a mode shift from driving to transit and thereby reduces VMT. In the SGVCOG VMT Evaluation Tool, this strategy is applied by taking the distance between the project site and the closest transit stop without project improvements and the distance to the closest transit stop with project improvements and applying an elasticity factor; therefore, the project can reduce its VMT by relocating a transit stop closer to the site.

        - ***Distance to closest transit stop without project is approximately 900 feet north of the project site along southbound Santa Anita Avenue; and relocation and/or addition of transit stop adjacent to project is estimated to be approximately less than 150 feet.***

- **Tier 4 Transportation Demand Management (TDM) Programs:** These measures are programmatic strategies that reduce VMT by providing alternatives to driving alone, as well as incentives, such as ride sharing programs, transit subsidies, and shuttle services. These strategies require implementation on an ongoing basis once the project is occupied. Following strategies were included in the reduction measures to calculate the VMT of the proposed project:

    - **TP01 School Pool Program:** The strategy would require the organization of a program that matches families in carpools for school pick-up and drop-off. The program would be open to all families in the development. Organizing a School Pool Program helps match parents who transport students to schools without a bussing program, including private schools, charter schools, and neighborhood schools where students cannot walk or bike. School pools reduce the total number of vehicle trips traveling to and from schools, thereby reducing VMT.

        - ***It is assumed that the project would have 50% of Expected Participant Households..***

With the above mentioned VMT reduction measures from the City's tool, the project's VMT per Service Population will be reduced to 30.13 which is less than the threshold VMT of 30.14 per Service Population.

Table 2. Project VMT Summary

Criteria	VMT per Service Population
Subarea Average (Baseline) VMT	35.46
VMT Threshold (15% below Baseline)	30.14
Project VMT	31.43
Project VMT with Reduction Measures	30.13

Notes: VMT - Vehicle Miles Traveled

4.3 Project Design Features

With the above mentioned VMT reduction measures incorporated as Project Design Features (PDF), as required by the City, the proposed project would have a less than significant impact to traffic/transportation. Therefore, the City will require that the following PDFs be included as Conditions of Approval for the project:

- **PDF-TRA-1 Bus Stop Design and Relocation:** The Applicant shall coordinate with the City and Metropolitan Transportation Authority (Metro) to ensure that a new bus stop for Metro Route 287 is located a maximum of 150 feet from the project site, on Santa Anita Avenue, north of Live Oak Avenue. The plans for the location and design of the bus stop shall be prepared to the satisfaction of Metro and shall be reviewed and approved by the City Engineer prior to issuance of a building permit from Building Services. The new bus stop shall be constructed and operational prior to the issuance of a certificate of occupancy for the project.

- **PDF-TRA-2 Preparation of Transportation Demand Management Plan:** The Applicant shall submit a Transportation Demand Management Plan (TDM Plan) to Planning services. The TDM Plan will specify how each of the required VMT reduction measures (TP01- School Pool Program, will be implemented and managed. The TDM Plan will be approved by the City prior to issuance of a certificate of occupancy from Building Services. The TDM Plan shall include the following:

    - **School Pool Program,** managed and implemented by the project's homeowner's association (HOA) to match families in carpools for school pick-up and drop-off to nearby elementary, middle and high schools. The target participation from households for this program is 50%.

- **PDF-TRA-3 Implementation of Transportation Demand Management Plan:** Prior to the issuance of a certificate of occupancy, the Applicant/Property Owner will record a Covenant on the property for the owner to implement and maintain the TDM Plan for VMT Reduction Strategies as specified in PDF-TRA-2.

5 Project Access

The project access would be via Santa Anita Avenue via a gated entry. The project access would operate as a right-in-right-out only. Northbound project traffic along Santa Anita Avenue would make a U-turn at the Live Oak Avenue/Santa Anita Avenue intersection. The project site would have a 24-foot wide internal roadway that would provide access to individual units. The site plan also includes three residential vehicular back-up zones which would facilitate on-site movement of project traffic as well as provide access for emergency vehicles.

6 Transit, Bike and Pedestrian Facilities

As mentioned above, Foothill Transit Route 492 and Metro Routes 78 and 287 provide bus service near the proposed project. The nearest bus stops are located along northbound Santa Anita Avenue, across the project site and along southbound Santa Anita Avenue approximately 900 feet north of the project site. There is an existing Class II bike lane along Live Oak Avenue between El Monte Avenue and Welland Avenue. There are paved sidewalks along Santa Anita Avenue and in the vicinity of the project site.

7 Conclusions

Based on the VMT screening analysis shown in the memorandum for the proposed project, the following conclusions are made:

- The proposed project consists of a 33-unit residential development located on a partially developed parcel west of Santa Anita Avenue and north of the Santa Anita Avenue/Live Oak Avenue in the City.
- The proposed project would generate approximately a total of 312 daily trips, with 24 AM peak hour trips and 33 PM peak hour trips.
- As shown in Attachment A, the VMT per service population of the project's TAZ is 31.43 which is higher than threshold VMT of 30.14 (15% less than baseline VMT of 35.46). By including the VMT reduction measures as Project Design Features (PDF-TRA-1, PDF-TRA-2, and PDF-TRA-3), as required by the City, the proposed project's VMT per service population would be reduced to 30.13, which is 17.7% below the baseline VMT of 35.46. Therefore, the proposed project would have a have a less than significant impact.

8 References

City of Arcadia. 2020. City of Arcadia Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment, August 2020.

ITE (Institute of Transportation Engineers). 2017. Trip Generation Manual. 10th ed.

OPR (California Governor's Office of Planning and Research). 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA. December 2018. Accessed November 2020. http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.



SOURCE: Bing Maps, County of Los Angeles 2011

DUDEK

0 50 100 Meters
0 175 350 Feet
1:4,000

FIGURE 1

Project Location

2670 South Santa Anita Ave Project

Attachment A

SVGCOG VMT Evaluation Tool Report

SGVCOG VMT Evaluation Tool Report

Project Details

Timestamp of Analysis: October 26, 2021, 04:17:57 PM

Project Name: Enclave

Project Description: 33 units

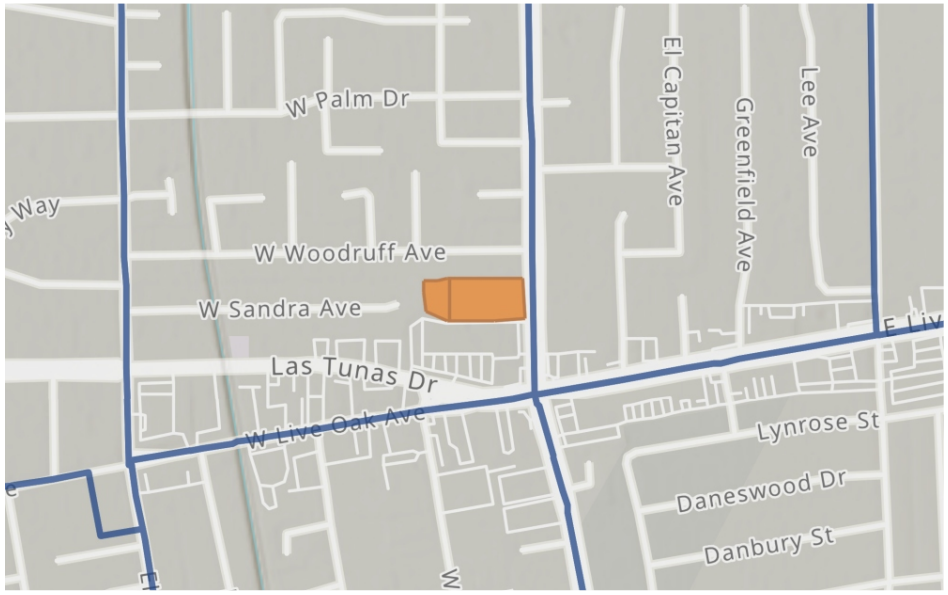
Project Location

Jurisdiction: Arcadia

APN	TAZ
5788-020-015	22219100
5788-020-029	22219100

Inside a TPA?

No (Fail)



Analysis Details

Data Version: SCAG Regional Travel Demand Model
2016 RTP Base Year 2012

Analysis Methodology: TAZ

Baseline Year: 2021

Project Land Use

Residential:

Single Family DU:	
Multifamily DU:	33
Total DUs:	33

Non-Residential:

Office KSF:

Local Serving Retail KSF:

Industrial KSF:

Residential Affordability (percent of all units):

Extremely Low Income:	0 %
Very Low Income:	0 %
Low Income:	0 %

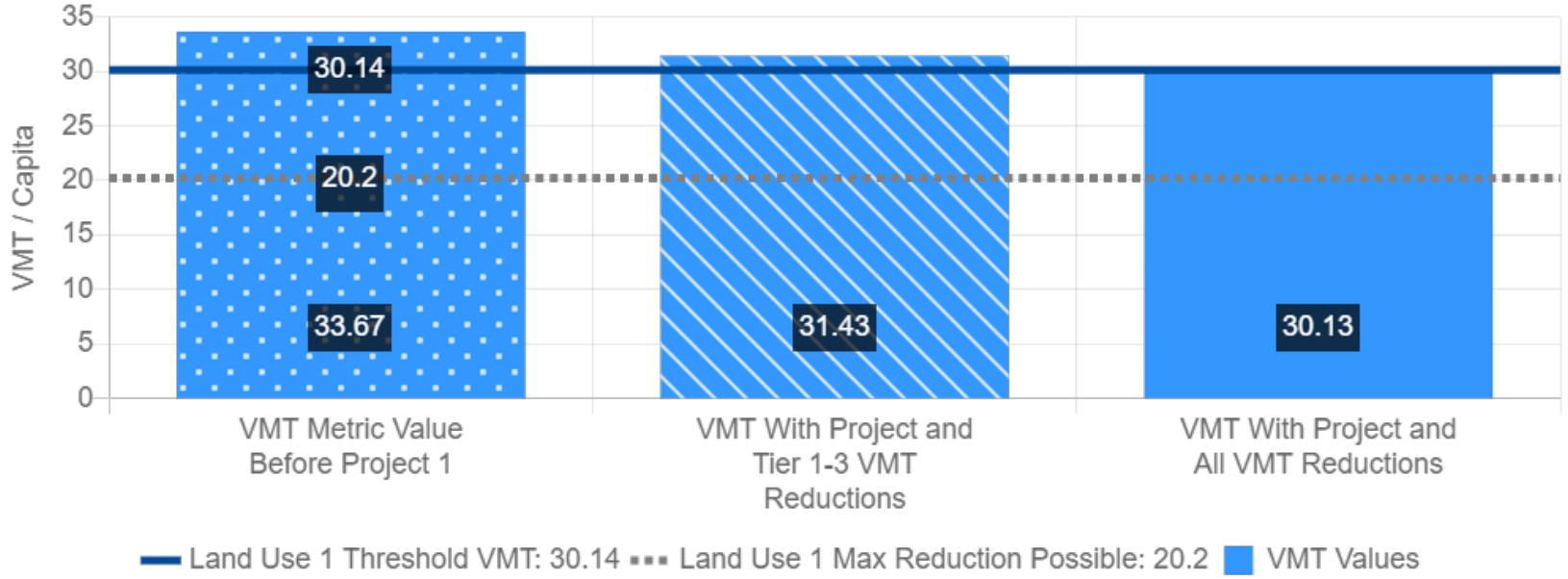
Parking:

Motor Vehicle Parking:	93
Bicycle Parking:	

Residential Vehicle Miles Traveled (VMT) Screening Results

Land Use Type 1:	Residential
VMT Without Project 1:	Total VMT per Service Population
VMT Baseline Description 1:	Subarea Average
VMT Baseline Value 1:	35.46
VMT Threshold Description 1:	-15%
Land Use 1 has been Pre-Screened by the Local Jurisdiction:	N/A

	Without Project	With Project & Tier 1-3 VMT Reductions	With Project & All VMT Reductions
Project Generated Vehicle Miles Traveled (VMT) Rate	33.67	31.43	30.13
Low VMT Screening Analysis	No (Fail)	No (Fail)	Yes (Pass)



Tier 2 Multimodal Infrastructure

MI03 Increase Transit Accessibility

Distance to Closest Transit Stop:	900 ft
Distance to Closest Transit Stop With Project:	150 ft

Tier 4 TDM Programs

TP01 School Pool Programs

School Pool Program Percent of Expected Participant Households:	50 %

Appendix B

Noise Memorandum

DUDEK

MAIN OFFICE
605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 T 800.450.1818 F 760.632.0164

MEMORANDUM

To:	Lisa Flores, City of Arcadia Edwin Areola, City of Arcadia Philip Wray, City of Arcadia
From:	Mike Greene, Dudek
Subject:	Noise Assessment for the Enclave at South Santa Anita Avenue Project
Date:	September 22, 2021
Attachment(s):	Figures 1 - 2 A – Construction Noise Modeling Input/Output Files B – Heating, Ventilation, and Air Conditioning Specifications

This memorandum estimates potential noise and vibration impacts from construction and operation of the subject project in accordance with the California Environmental Quality Act (CEQA) Guidelines.

The contents and organization of this memorandum are as follows: project description, environmental setting, regulatory setting, noise and vibration impacts assessment, conclusions, and references cited.

1 PROJECT DESCRIPTION

The proposed project consists of a 33 dwelling unit development (11.46 dwelling units per acre) and associated on-site and off-site improvements. The project is located on a currently vacant parcel west of Santa Anita Avenue, north of the Santa Anita Avenue/Live Oak Avenue intersection. Primary vehicular site access would be provided via a driveway on Santa Anita Avenue. The site is occupied by a church building, which is used occasionally by the San Gabriel Valley LGBTQ Center. Figure 1, Project Location, shows the location of the project within the City and the San Gabriel Valley region. The conceptual site plan is shown in Figure 2.

2 ENVIRONMENTAL SETTING

2.1 Noise and Vibration Characteristics

2.1.1 Noise

Sound may be described in terms of level or amplitude (measured in decibels (dB)), frequency or pitch (measured in hertz (Hz) or cycles per second), and duration (measured in seconds or minutes). The standard unit of measurement of the amplitude of sound is the decibel. Because the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) performs this compensation by discriminating against low and very high frequencies in a manner approximating the sensitivity of the human ear. Several descriptors of noise (noise metrics) exist to help predict average community reactions to the adverse effects of environmental noise, including traffic-generated noise, on a community. These descriptors include the equivalent noise level over a given period (L_{eq}), the statistical sound level (L_n), the day–night average noise level (L_{dn}), and the community noise equivalent level (CNEL). Each of these descriptors uses units of dBA. Table 1 provides examples of A-weighted noise levels from common sounds. In general, human sound perception is such that a change in sound level of 3 dB is barely noticeable, a change of 5 dB is clearly noticeable, and a change of 10 dB is perceived as doubling or halving of the sound level (Caltrans 2013).

Table 1
Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
—	110	Rock band
Jet flyover at 300 meters (1,000 feet)	100	—
Gas lawn mower at 1 meter (3 feet)	90	—
Diesel truck at 15 meters (50 feet), at 80 kph (50 mph)	80	Food blender at 1 meter (3 feet) Garbage disposal at 1 meter (3 feet)
Noisy urban area, daytime gas lawn mower at 30 meters (100 feet)	70	Vacuum cleaner at 3 meters (10 feet)
Commercial area Heavy traffic at 90 meters (300 feet)	60	Normal speech at 1 meter (3 feet)
Quiet urban daytime	50	Large business office Dishwasher, next room
Quiet urban nighttime	40	Theater, large conference room (background)
Quiet suburban nighttime	30	Library
Quiet rural night time	20	Bedroom at night, concert hall (background)
—	10	Broadcast/recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing

Source: Caltrans 2013
Notes: dBA = A-weighted decibels; kph = kilometers per hour; mph = miles per hour.

L_{eq} is a sound energy level averaged over a specified period (typically no less than 15 minutes for environmental studies). L_{eq} is a single numerical value that represents the amount of variable sound energy received by a receptor during a time interval. For example, a 1-hour L_{eq} measurement would represent the average amount of energy contained in all the noise that occurred in that hour. L_{eq} is an effective noise descriptor because of its ability to assess the total time-varying effects of noise on sensitive receptors (see Section 2.2). L_{max} is the greatest sound level measured during a designated time interval or event.

Unlike the L_{eq} metrics, L_{dn} and CNEL metrics always represent 24-hour periods, usually on an annualized basis. L_{dn} and CNEL also differ from L_{eq} because they apply a time-weighted factor designed to emphasize noise events that occur during the evening and nighttime hours (when speech and sleep disturbance is of more concern). "Time weighted" refers to the fact that L_{dn} and CNEL penalize noise that occurs during certain sensitive periods. In the case of CNEL, noise occurring during the daytime (7:00 a.m.–7:00 p.m.) receives no penalty. Noise during the evening (7:00 p.m.–10:00 p.m.) is penalized by adding 5 dB, while nighttime (10:00 p.m.–7:00 a.m.) noise is penalized by adding 10 dB. L_{dn} differs from CNEL in that the daytime period is defined as 7:00 a.m.–10:00 p.m., thus eliminating the evening period. L_{dn} and CNEL are the predominant criteria used to measure roadway noise affecting residential receptors. These two metrics generally differ from one another by no more than 0.5 dB to 1 dB, and as such are often treated as equivalent to one another.

2.1.2 Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earthmoving equipment.

Several different methods are used to quantify vibration. Peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. PPV is most frequently used to describe vibration impacts to buildings and is usually measured in inches per second. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body and is defined as the average of the squared amplitude of the signal. Decibel notation

(VdB) is commonly used to measure RMS. The decibel notation acts to compress the range of numbers required to describe vibration.

High levels of vibration may cause physical personal injury or damage to buildings. However, vibration levels rarely affect human health. Instead, most people consider vibration to be an annoyance that can affect concentration or disturb sleep. In addition, high levels of vibration can damage fragile buildings or interfere with equipment that is highly sensitive to vibration (e.g., electron microscopes). Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

2.2 Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would be considered noise and vibration sensitive and may warrant unique measures for protection from intruding noise. Sensitive receptors near the project site include the residential uses located immediately north, south and west of the project site and the residences located east of South Santa Anita Avenue. These sensitive receptors represent the nearest residential land uses with the potential to be impacted by construction and operation of the proposed project. Additional sensitive receptors are located farther from the project site in the surrounding community and would be less impacted by noise and vibration levels than the above-listed sensitive receptors.

2.3 Existing Noise Conditions

Based upon guidance from the Federal Transit Administration (FTA 2018) on estimating community noise exposure based upon population density and roadway types, the project site has noise levels of approximately 65 dBA L_{dn}/CNEL within 50 to 100 feet from Santa Anita Avenue. At interior locations, the typical noise level would be approximately 60 dBA L_{dn}/CNEL.

3 REGULATORY SETTING

The Project is located within the City of Arcadia. According to the City's General Plan, the established maximum exterior noise standard for residential land use areas is 65 dBA CNEL. The established maximum interior noise standard for residential land use areas is 45 dBA CNEL.

The Arcadia Municipal Code addresses noise in several sections. In Article IV, Part 1, General Provisions, Section 4610.3 "Noise Limits," the Municipal Code designates a noise limit of 55 dBA

from stationary noise sources within residential land uses from 7:00 a.m. to 10:00 p.m.; from 10:00 p.m. to 7:00 a.m., the noise limit is 50 dBA. Section 4610.3(c) of the City's Municipal Code limits noise from air-conditioning equipment, pumps, fans or similar machinery in excess of 55 dBA on residential property. In Article IV, Part 6, Nighttime Construction, Section 4261 "Prohibited Hours Defined," Section 4262 "Construction Limited," Section 4262.1 "Same. Exception," and Section 4263 "Permit," the Municipal Code specifies that nighttime construction between the hours of 6:00 p.m. and 7:00 a.m. of any weekday, 5:00 p.m. and 8:00 a.m. on Saturday, and anytime on Sunday and holidays is prohibited.

4 NOISE AND VIBRATION IMPACTS ASSESSMENT

4.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of noise and vibration impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.).

4.2 Impact Analysis

4.2.1 Would the Project result in 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 applicable standards of other agencies?

On-site noise-generating activities associated with the proposed project would include short-term construction activities, as well as on-site operational noise associated with the proposed project, primarily consisting of mechanical noise from heating, ventilation, and air conditioning (HVAC) equipment. The proposed project would also generate off-site traffic noise along local roadways in the area.

Short-Term Construction Impacts

Construction noise and vibration are temporary phenomena. Construction noise and vibration levels vary from hour to hour and day to day, depending on the equipment in use, the operations being performed, and the distance between the source and receptor.

Equipment that would be in operation during construction would include, in part, excavators, graders, backhoes, compressors, welders, and paving equipment. The typical maximum noise levels for various pieces of construction equipment at a distance of 50 feet are presented in Table 2. Note that the equipment noise levels presented in Table 2 are maximum noise levels. Typically, construction equipment operates in alternating cycles of full power and low power, producing

average noise levels less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time.

Table 2
Construction Equipment Maximum Noise Levels

Equipment Type	Typical Equipment (dBA at 50 Feet)	Quiet Equipment[a] (dBA at 50 Feet)
Air compressor	81	71
Backhoe	85	80
Concrete pump	82	80
Concrete vibrator	76	70
Crane	83	75
Truck	88	80
Dozer	87	83
Generator	78	71
Loader	84	80
Paver	88	80
Pneumatic tools	85	75
Water pump	76	71
Power hand saw	78	70
Shovel	82	80
Trucks	88	83

Source: FHWA 2006.
Notes: dBA = A-weighted decibels.
[a] Estimated levels obtainable by selecting quieter procedures or machines and implementing noise-control features requiring no major redesign or extreme cost.

The maximum noise levels at 50 feet for typical construction equipment would be 88 dBA for the equipment typically used for this type of development project, although the hourly noise levels would vary. Construction noise in a well-defined area typically attenuates at approximately 6 dB per doubling of distance. Project construction would take place both near and far from adjacent, existing noise-sensitive uses. For example, construction near the northern, Southern, and western project boundaries would take place within approximately 25 feet of existing residences, but during construction of other project components, construction would be several hundred feet away from noise-sensitive receptors. Most construction activities associated with the proposed project would occur at distances of approximately 130 feet from existing noise-sensitive uses (the approximate geometric center of the project site).

The Federal Highway Administration's Roadway Construction Noise Model (RCNM) (FHWA 2008) was used to estimate construction noise levels at the nearest occupied noise-sensitive land

use. (Although the model was funded and promulgated by the Federal Highway Administration, the RCNM is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are often used for other types of construction.) Input variables for the RCNM consist of the receiver/land use types, the equipment type and number of each (e.g., two graders, a loader, a tractor), the duty cycle for each piece of equipment (e.g., percentage of hours the equipment typically works per day), and the distance from the noise-sensitive receiver. To account for the existing masonry wall (approximately 6 feet in height) located along the northern, western, and southern property boundaries, a 5-dB reduction in received construction noise was assumed; this is a conservative assumption because a structure (such as a solid wall) which breaks the direct path (i.e., the line-of-sight) between a source and receiver would achieve a minimum noise reduction of 5 dB (Caltrans 2013). The RCNM has default duty-cycle values for the various pieces of equipment, which were derived from an extensive study of typical construction activity patterns. Those default duty-cycle values were used for this noise analysis.

Using the Federal Highway Administration's RCNM and construction information, the estimated noise levels from the major construction phases were calculated for the nearest noise-sensitive land uses, as presented in Table 3. The RCNM inputs and outputs are provided in Attachment A.

Table 3
Construction Noise Model Results Summary

Construction Phase	Construction Noise at Representative Receiver Distances (L_{eq} (dBA))	
	Nearest Residence - Construction Distance (Approximately 25' Away)	*Typical Residence - Construction Distance (Approximately 130' Away)*
Demolition	85	73
Site Preparation	83	71
Grading	84	72
Building Construction	76	66
Paving	80	70
Architectural Coating	75	60

Source: Attachment A.

As presented in Table 3, the construction noise levels are predicted to be as high as 85 dBA L_{eq} at the nearest existing residences when construction takes place near the northern, southern, and western project boundaries, approximately 25 feet away. Note that these estimated noise levels would only occur as heavy equipment is operated along the project boundaries, which will take place only intermittently throughout the workday at any particular location, and only during the more intensive periods of project construction. On an average construction workday, heavy equipment

will be operating sporadically throughout the project site and more frequently away from the southernmost edge of the site. At more typical distances closer to the center of the project site, construction noise levels are estimated to range from approximately 60 to 73 dBA L_{eq} at the nearest existing residences.

As previously discussed, the City of Arcadia exempts noise from construction provided that construction activities take place between the hours of 7:00 a.m. and 6:00 p.m. on weekdays, between 8:00 a.m. and 5:00 p.m. on Saturdays, and not at any time on Sundays or federal holidays. It is anticipated that construction activities associated with the proposed project would take place exclusively during these permitted hours.

Although nearby off-site residences would be exposed to elevated construction noise levels, the exposure would be short term and would cease upon completion of project construction, and project construction would not violate the City's standards for construction noise. Therefore, short-term construction impacts associated with a temporary increase in noise levels would be less than significant.

While construction noise impacts would be less than significant, the following standard construction best management practices are always recommended on all projects – regardless of level of significance – to further reduce already less than significant noise levels. As such, the City requires the following Project Design Features, which are also Conditions of Approval of the project/:

- **PDF-NOI-1**: Construction shall not take place between the hours of 6:00 p.m. and 7:00 a.m. on weekdays, between 5:00 p.m. and 8:00 a.m. on Saturday, or at any time on Sunday or a federal holiday.
- **PDF-NOI-2**: Stationary construction noise sources such as generators or pumps should be located at least 100 feet from sensitive land uses, as feasible.
- **PDF-NOI-3**: Construction staging areas should be located as far from noise-sensitive land uses as feasible.
- **PDF-NOI-4**: During construction, the contractor shall ensure all construction equipment is equipped with appropriate noise-attenuating devices. Idling equipment shall be turned off when not in use.

- **PDF-NOI-5**: Equipment shall be maintained so that vehicles and their loads are secured from rattling and banging.

Long-Term Operational Impacts

Long-term operational noise associated with the proposed project includes noise from project-generated traffic and from HVAC equipment associated with the project's office. Each of these is addressed below.

Off-Site Traffic Noise Levels

The proposed project would generate traffic along adjacent and nearby arterial roadways (i.e., Santa Anita Avenue, Live Oak Avenue, Las Tunas Drive). The City does not have a specific noise criterion for evaluating off-site noise impacts to residences or noise-sensitive areas from project-related traffic. For the purposes of this noise study, such impacts are considered significant when they cause an increase of 5 dB compared to existing noise levels, or cause noise levels to exceed a 65 dBA CNEL noise threshold. An increase or decrease in noise level of 5 dBA is the minimum before any noticeable change in community response would be expected (Caltrans 2013). Therefore, a clearly perceptible increase (+5 dB) in noise exposure of sensitive receptors or a Project-related exceedance of the 65 dBA CNEL noise threshold could be considered significant.

Based on the traffic analysis for the project (Dudek 2021), the project is estimated to generate 321 daily vehicle trips, with a total of 25 trips occurring during the AM peak hour and 34 trips occurring during the PM peak hour. The City of Arcadia Traffic Engineering Division's Traffic Volume Map (City of Arcadia 2019) indicates that Santa Anita Avenue carries approximately 32,070 vehicles per day in the project vicinity. Live Oak Avenue carries approximately 30,170 vehicles per day, and Las Tunas Drive carries approximately 23,135 vehicles per day. The potential noise increase from the additional project-related vehicle trips was estimated using the following formula (Beranek and Ver 1992):

$$\text{delta} = 10*\text{Log}(V2/V1),$$

in which delta is the change (in decibels) in the traffic noise level, V2 is the new traffic volume (Santa Anita Avenue with project, for example), and V1 is the reference traffic volume (Santa Anita Avenue without the project, for example).

Using this formula and the traffic data referenced above, the increases or decreases in traffic noise were calculated for the major streets in the vicinity of the proposed project. As shown in Table 4, the increase in noise levels from project-related traffic would be approximately $1/100^{th}$ of a decibel, not even amounting to a change of 0.1 dB. In the context of community noise (i.e., outside of a

listening lab or other controlled environment), a change in noise level of 1 dB or less is not audible. Furthermore, the increase would be well below the threshold of significance of 5 dB and would not cause any given location to exceed 65 dBA CNEL. Therefore, the potential increase in traffic noise related to the proposed project would be less than significant. No mitigation is required.

Table 4
Estimated Project-Related Traffic Noise Increase

Roadway	Traffic Volume Without Project (ADT)	Traffic Volume With Project (ADT)	Estimated Project-Related Noise Increase (dB)	Potentially Significant Impact?
Santa Anita Avenue north of Live Oak Avenue	32,070	32,391	0.01	No
Live Oak Avenue at Santa Anita Avenue	30,170	30,491	0.01	No
Las Tunas Drive west of Live Oak Avenue	23,135	23,456	0.01	No

Notes: ADT = average daily traffic; dB = decibels.

HVAC Noise

HVAC equipment would have the potential to create significant noise impacts. The specific details (location, size, manufacturer, and model) of the HVAC equipment have not yet been determined. However, based on examination of several major manufacturers' HVAC equipment specifications for representative models (details of which are provided in Attachment B), sound pressure levels at a distance of 1 meter (3.3 feet) range from approximately 55 to 72 dBA. The nearest existing residential property would be approximately 25 feet to the southwest of the nearest potential HVAC unit (assuming that the units are placed near the rear yard area of the residential buildings). Conservatively assuming a sound pressure level of 72 dBA, the noise level at a distance of 25 feet from one HVAC unit would be approximately 54 dBA L_{eq} at the nearest existing residential property. To account for the existing masonry wall (approximately 6 feet in height) located along the northern, western and southern property boundaries, a conservative 5-dB reduction in received HVAC noise at the nearby existing residences was assumed, as was done for the construction noise analysis. Thus, the HVAC noise level at the nearest existing residential property would be approximately 49 dBA $L_{eq.}$ If two adjacent HVAC units were operating simultaneously, the resultant noise level at the nearest existing residences would be approximately 52 dBA L_{eq}. Therefore, HVAC noise would not exceed the City's noise standard (Section 4610.3(c) of the City's Municipal Code) pertaining to noise from air-conditioning equipment of 55 dBA. Therefore, noise related to onsite mechanical noise from the proposed project would be less than significant. No mitigation is required.

4.2.2 Would the Project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction activities have the potential to expose persons to excessive ground-borne vibration or ground-borne noise. Ground-borne vibration information related to construction activities has been collected by the California Department of Transportation (Caltrans 2020). Information from Caltrans indicates that continuous vibrations with a peak particle velocity of approximately 0.1 inches/second begin to annoy people. The heavier pieces of construction equipment, such as bulldozers, would have peak particle velocities of approximately 0.089 inches/second or less at a distance of 25 feet (FTA 2018). Ground-borne vibration is typically attenuated over short distances. At the distance from the nearest residences to the proposed project site (approximately 25 feet), and with the anticipated construction equipment, the peak particle velocity vibration level would be approximately 0.089 inches/second. This vibration level would be below the vibration threshold of potential annoyance of 0.1 inches/second.

The major concern with regard to construction vibration is related to building damage. Construction vibration as a result of the proposed project would not result in structural building damage, which typically occurs at vibration levels of 0.5 inches/second or greater for buildings of reinforced-concrete, steel, or timber construction. The heavier pieces of construction equipment used would include typical construction equipment for this type of project, such as backhoes, front-end loaders, and flatbed trucks. Pile driving, blasting, and other special construction techniques will not be used for construction of the proposed project; therefore, excessive ground-borne vibration and ground-borne noise would not be generated. Vibration levels from project construction would be less than the thresholds of annoyance and potential for structural damage. Operation of the proposed project would not result in any sources of vibration. Therefore, impacts would be less than significant.

4.2.3 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, expose people residing or working in the project area to excessive noise levels?

The closest airport is San Gabriel Valley Airport (formerly known as El Monte Airport), which is located approximately 1.2 miles away (Caltrans 2019). The project site is not located within the San Gabriel Valley Airport's airport influence area (County of Los Angeles 2004). The project site is not located within two miles of any other airports or near any other airport planning boundary/airport land use planning area (County of Los Angeles 2004). Therefore, less than significant impacts associated with public or public use airports would occur.

No private airstrips are located within the broader vicinity of the project site (AirNav.com 2021). Therefore, no impacts associated with private airstrip noise would occur.

5 CONCLUSIONS

In summary, with implementation of standard best management practices and project design features for construction and operation, the proposed project's noise and vibration impacts would be less than significant.

6 REFERENCES CITED

14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

AirNav.com. 2021. Airports search. Accessed June 24, 2021. http://www.airnav.com/airports/.

Beranek, L.L. and I.L. Ver, eds. 1992. *Noise and Vibration Control Engineering*. New York: John Wiley & Sons, Inc.

Caltrans (California Department of Transportation). 2013. *Technical Noise Supplement to the Caltrans Traffic Noise Analysis Protocol.* Division of Environmental Analysis, Environmental Engineering, Hazardous Waste, Air, Noise, Paleontology Office. September 2013.

Caltrans. 2019. California Aviation Facilities. Web Map Application. Accessed June 25, 2021. https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=966ebca3d4044e84bb352b98c5a62a35.

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. Division of Environmental Analysis, Environmental Engineering, Hazardous Waste, Air, Noise, Paleontology Office. Sacramento, CA. April 2020.

City of Arcadia. 2019. Traffic Volume Map. Accessed June 26, 2021. https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/traffic%20and%20engineering/Traffic%20Volume%20Map%202019.pdf

Diehl, G.M., ed. 1973. *Machinery Acoustics*. New York: John Wiley & Sons Inc.

Dudek. 2021. Enclave at South Santa Anita Avenue Vehicle Miles Traveled (VMT) Analysis.

FHWA (Federal Highway Administration). 2006. FHWA-HEP-06-015. *Construction Noise Handbook*. Prepared under contract by John A. Volpe National Transportation Systems Center. Cambridge, Massachusetts: FHWA, Office of Natural and Human Environment. August 2006.

FHWA. 2008. *Roadway Construction Noise Model (RCNM), Software Version 1.1.* Washington, DC: U.S. Department of Transportation, Research and Innovative Technology Administration, John A. Volpe National Transportation Systems Center, Environmental Measurement and Modeling Division.

FTA (U.S. Department of Transportation, Federal Transit Administration). 2018. Transit Noise and Vibration Impact Assessment Manual. September 2018.

Los Angeles County Airport Land Use Commission. 2004. Los Angeles County Airport Land Use Plan. December 1, 2004. Accessed June 25, 2021. http://planning.lacounty.gov/assets/upl/data/pd_alup.pdf

ATTACHMENT A

Construction Noise Modeling Input/Output Files

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Demoltion

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence - Cor	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	25	5
Dozer	No	40		81.7	40	5
Backhoe	No	40		77.6	55	5
Front End Loader	No	40		79.1	40	5
Tractor	No	40	84		50	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	90.6	83.6	N/A	N/A	N/A	N/A
Dozer	78.6	74.6	N/A	N/A	N/A	N/A
Backhoe	71.7	67.8	N/A	N/A	N/A	N/A
Front End Loader	76	72.1	N/A	N/A	N/A	N/A
Tractor	79	75	N/A	N/A	N/A	N/A
Total	90.6	84.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Residence - Cons	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	130	5
Dozer	No	40		81.7	130	5
Backhoe	No	40		77.6	130	5
Front End Loader	No	40		79.1	130	5
Tractor	No	40	84		130	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	76.3	69.3	N/A	N/A	N/A	N/A
Dozer	68.4	64.4	N/A	N/A	N/A	N/A
Backhoe	64.3	60.3	N/A	N/A	N/A	N/A
Front End Loader	65.8	61.8	N/A	N/A	N/A	N/A
Tractor	70.7	66.7	N/A	N/A	N/A	N/A
Total	76.3	72.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Site Preparation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence - Cor	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85		25	5
Scraper	No	40		83.6	40	5
Front End Loader	No	40		79.1	55	5

		Results				
		Calculated (dBA)		Noise Limits (dBA)		
				Day	Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader		86	82	N/A	N/A	N/A	N/A
Scraper		80.5	76.5	N/A	N/A	N/A	N/A
Front End Loader		73.3	69.3	N/A	N/A	N/A	N/A
	Total	86	83.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Residence - Cons	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85		130	5
Scraper	No	40		83.6	130	5

Front End Loader	No	40		79.1	130	5

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	71.7	67.7	N/A	N/A	N/A	N/A
Scraper	70.3	66.3	N/A	N/A	N/A	N/A
Front End Loader	65.8	61.8	N/A	N/A	N/A	N/A
Total	71.7	70.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Grading

				---- Receptor #1 ----		
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
Nearest Residence - Cor	Residential	65	60	55		

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85		25	5
Dozer	No	40		81.7	40	5
Front End Loader	No	40		79.1	55	5
Tractor	No	40	84		40	5

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	86	82	N/A	N/A	N/A	N/A
Dozer	78.6	74.6	N/A	N/A	N/A	N/A
Front End Loader	73.3	69.3	N/A	N/A	N/A	N/A
Tractor	80.9	77	N/A	N/A	N/A	N/A
Total	86	83.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

				---- Receptor #2 ----		
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
Typical Residence - Cons	Residential	65	60	55		

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		130	5
Dozer	No	40		81.7	130	5
Front End Loader	No	40		79.1	130	5
Tractor	No	40	84		130	5

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Grader	71.7	67.7	N/A	N/A	N/A	N/A
Dozer	68.4	64.4	N/A	N/A	N/A	N/A
Front End Loader	65.8	61.8	N/A	N/A	N/A	N/A
Tractor	70.7	66.7	N/A	N/A	N/A	N/A
Total	71.7	71.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Building Construction

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence - Cor	Residential	65	60	55

---- Receptor #1 ----

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	25	5
Man Lift	No	20		74.7	40	5
Generator	No	50		80.6	55	5
Backhoe	No	40		77.6	40	5

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Man Lift	75.7	68.7	N/A	N/A	N/A	N/A
Man Lift	71.6	64.6	N/A	N/A	N/A	N/A
Generator	74.8	71.8	N/A	N/A	N/A	N/A
Backhoe	74.5	70.5	N/A	N/A	N/A	N/A
Total	75.7	75.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Residence - Cons	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Man Lift	No	20		74.7	130	5
Man Lift	No	20		74.7	130	5
Generator	No	50		80.6	130	5
Backhoe	No	40		77.6	130	5

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Man Lift	61.4	54.4	N/A	N/A	N/A	N/A
Man Lift	61.4	54.4	N/A	N/A	N/A	N/A
Generator	67.3	64.3	N/A	N/A	N/A	N/A
Backhoe	64.3	60.3	N/A	N/A	N/A	N/A
Total	67.3	66.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Paving

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence - Cor	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Mixer Truck	No	40		78.8	25	5
Paver	No	50		77.2	40	5
Concrete Pump Truck	No	20		81.4	55	5
Roller	No	20		80	40	5
Roller	No	20		80	65	5
Tractor	No	40	84		50	5

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck		79.8	75.8	N/A	N/A	N/A	N/A
Paver		74.2	71.1	N/A	N/A	N/A	N/A
Concrete Pump Truck		75.6	68.6	N/A	N/A	N/A	N/A
Roller		76.9	69.9	N/A	N/A	N/A	N/A
Roller		72.7	65.7	N/A	N/A	N/A	N/A
Tractor		79	75	N/A	N/A	N/A	N/A
	Total	79.8	80.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Residence - Cons	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Mixer Truck	No	40		78.8	130	5
Paver	No	50		77.2	130	5
Concrete Pump Truck	No	20		81.4	130	5
Roller	No	20		80	130	5
Roller	No	20		80	130	5
Tractor	No	40	84		130	5

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck		65.5	61.5	N/A	N/A	N/A	N/A
Paver		63.9	60.9	N/A	N/A	N/A	N/A
Concrete Pump Truck		68.1	61.1	N/A	N/A	N/A	N/A
Roller		66.7	59.7	N/A	N/A	N/A	N/A
Roller		66.7	59.7	N/A	N/A	N/A	N/A
Tractor		70.7	66.7	N/A	N/A	N/A	N/A
	Total	70.7	70.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Report date: 9/8/2021
Case Description: 2607 S. Santa Anita Ave - Architectural Coatings

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence - Cor	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	25	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	78.7	74.7	N/A	N/A	N/A	N/A
Total	78.7	74.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical Residence - Con	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	130	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	64.4	60.4	N/A	N/A	N/A	N/A
Total	64.4	60.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

ATTACHMENT B

Heating, Ventilation, and Air Conditioning Specifications

24VNA9 Infinity® 19VS Variable Speed Air Conditioner with Puron® Refrigerant 1 – 5 Tons

Carrier
turn to the experts

Product Data



INFINITY® 19VS

The Infinity® 19VS air conditioner offers high-efficiency variable speed performance in a remarkably small cabinet and provides up to 19 SEER cooling efficiency. The variable speed inverter capacity control delivers up to 5 stages of operation for exceptional load matching, dehumidification and zoning performance.

This product has been designed and manufactured to provide flexible system matching and work with a wide variety of indoor units and controls.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- Up to 19 SEER / 13 EER
- Microtube Technology™ refrigeration system

Sound

- Sound level as low as 55 dBA in low speed (Silencer System II).
- Soft start and smooth ramp to operating speeds

Comfort

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25-100%
- Air cooled Inverter variable speed drive
  - — System requires Infinity® Touch Control with version 11 software or newer for 5 stage operation on sizes 24 - 60 and version 12 or higher on size 13.
  - — Ratings provided with 2-stage thermostats and suitable non-communicating indoor products for 2-stage operation.

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- Inverter control drives compressor and fan motor
- No control module attached to fan motor
- Infinity intelligence monitors critical system parameters
- Pressure equalizer valve for easy compressor starting
- High pressure switch
- Suction pressure transducer
- Compressor discharge temperature sensor
- Suction temperature sensor
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:

- 2 control wires to outdoor unit in complete Infinity system and Touch Control
- Energy Tracking capability with the Infinity® Touch Control (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity® system.)
- Smaller and lighter than 2-stage units
- Minimum and Maximum adjustments with Infinity® Touch Control
- Compatible with non-communicating thermostats

Durability

WeatherArmor Ultra™ protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

Applications

- Line sets up to 100 ft (30.5 m) equivalent length
- No long-line accessories required.

MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N
2	4	V	N	A	9	3	6	A	0	0	3	0
Product Series		Product Family	Tier	Major Series	SEER	Cooling Capacity		Variations	Open	Open	Voltage	Minor Series
24 = AC		V = VS HP	N= Infinity Series	A = Puron	9 = 19 SEER	1,000 Btuh (nominal)		A = Standard B = Design Variation	0=Not Defined	0=Not Defined	3=208/230–1	0, 1, 2...

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

Qualifying Models Only

STANDARD FEATURES

FEATURES	Unit Size – Voltage, Series							
	13	24B	25	36	37	48	49	60
Puron Refrigerant	X	X	X	X	X	X	X	X
Variable Speed Rotary Compressor	X	X	X	X	X	X	X	X
Air–Cooled Integrated Inverter Drive	X	X	X	X	X	X	X	X
Louvered Coil Guard	X	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X	X
Internal Pressure and Temperature Protection	X	X	X	X	X	X	X	X
Suction Pressure Transducer	X	X	X	X	X	X	X	X
High Pressure Switch	X	X	X	X	X	X	X	X
Internal Crankcase Heater	X	X	X	X	X	X	X	X
Enhanced Diagnostics with Infinity® Touch Control (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)	X	X	X	X	X	X	X	X
Deluxe Sound Blanket	X	X	X	X	X	X	X	X
Outdoor Air Temperature Sensor	X	X	X	X	X	X	X	X

X = Standard

PHYSICAL DATA

UNIT SIZE SERIES	13–30	24B–30	25–31	36–31	37–30	48–30	49–30	60–30
Compressor Type	Variable Speed Rotary							
REFRIGERANT	Puron® (R–410A)							
Control	TXV (Puron® Hard Shutoff)							
Charge lb (kg)	4.6 (2.09)	4.80 (2.18)	5.5 (2.50)	6.0 (2.72)	7.5 (3.40)	7.5 (3.40)	9.6 (4.35)	8.30 (3.76)
COND FAN	Forward Swept Propeller Type, Direct Drive							
Air Discharge	Vertical							
Air Qty (CFM)	1600	2500	2500	2500	4500	4500	4800	4500
Motor HP	1/5	1/5	1/3	1/3	1/3	1/3	1/3	1/3
Motor RPM	650	825	1050	1050	850	850	850	900
COND COIL								
Face Area (Sq ft)	11.12	11.12	13.90	13.90	21.50	21.50	27.53	23.65
Fins per In.	20	20	20	20	20	20	25	20
Rows	1	1	1	1	1	1	1	1
Circuits	6	5	6	6	8	8	8	8
VALVE CONNECT. (In. ID)								
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8							
REFRIGERANT TUBES (In. OD)								
Rated Vapor*	3/4	3/4	7/8	7/8	1–1/8	1–1/8	1–1/8	1–1/8
Max Liquid Line	3/8							

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

Maximum Line Lengths for Air Conditioner Applications

	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	100 (30.5)	100 (30.5)	N/A
Outdoor unit ABOVE indoor unit	100 (30.5)	100 (30.5)	100 (30.5)
Outdoor unit BELOW indoor unit	See Table *'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'*		

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	AC with Puron® Refrigerant – Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0–20 (0 – 6.1)	21–30 (6.4 – 9.1)	31–40 (9.4 – 12.2)	41–50 (12.5 – 15.2)	51–60 (15.5 – 18.3)	61–70 (18.6 – 21.3)	71–80 (21.6 – 24.4)
1–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
2–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
3–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
4–Ton	3/8	100*	100*	100*	100*	100	100	––
5–Ton	3/8	100*	100*	100*	100*	100	100	––

*** Maximum actual length not to exceed 100 ft (30.5 m)**

† Total equivalent length accounts for losses due to elbows or fitting.

–– = outside acceptable range

LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories. Longer line set applications are not permitted.

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in.)	24VNA9 Cooling Capacity Loss (%) Total Equivalent Line Length (ft)				
		25	50	75	80	100
13	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	**0.1**	**0.4**	**0.6**	**0.7**	**0.8**
24B	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	**0.1**	**0.4**	**0.6**	**0.7**	**0.8**
25	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
37 48 49	3/4	0.7	1.6	2.4	2.6	3.2
	7/8	0.3	0.7	1.1	1.2	1.6
	1 1/8	0.0	0.1	0.2	0.3	0.4
60	3/4	1.0	2.3	3.5	3.8	4.8
	7/8	0.4	1.0	1.7	1.8	2.3
	1 1/8	0.0	0.1	0.3	0.4	0.5

Rating Line Size in **BOLD**

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Infinity Control Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Stage 5 Airflow	Max Stage 1 Airflow	
1–Ton	420	300	300
2–Ton	739	300	300
3–Ton	990	300	300
4–Ton	1389	542	457
5–Ton	1600	700	600

Cooling – Efficiency Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1–Ton	420	300
2–Ton	825	585
3–Ton	1050	600
4–Ton	1400	875
5–Ton	1800	975

Cooling Max Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
1–Ton (550 cfm/ delivered ton)	780	434
2–Ton (24)	850	585
2–Ton (25) (550 cfm/ delivered ton)*	1350	510
3–Ton	1200	600
4–Ton	1600	875
4–Ton–49	1450	875
5–Ton	2000	975

* Serial number beginning with 0115E and newer

LEGEND::

Max Capacity Airflow – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non–zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

Highest Min. Capacity Airflow – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

Min Cooling (Dehum or Zoning) – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut–back.

ELECTRICAL DATA

UNIT SIZE– VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE ** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
13–30	208–230–1	253	197	N/A	10.3	0.58	13.5	20
24B–30				N/A	10.3	0.58	13.5	20
25–31				N/A	17.7	1.20	23.6	40
36–31				N/A	18.4	1.20	24.2	40
37–30				N/A	19.6	1.20	26.0	40
48–30				N/A	20.9	1.20	27.3	40
49–30				N/A	19.6	1.40	26.0	40
60–30				N/A	30.9	1.40	40.0	60

* Permissible limits of the voltage range at which the unit will operate satisfactorily

** Time–Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE–VOLTAGE, SERIES	
13–30	**If a Touch Control is installed, subcooling recommendation displayed in Charging Mode must be followed. If not, subcooling chart shown on the charging label must be followed**
24B–30	
25–31	
36–31	
37–30	
48–30	
49–30	
60–30	

RPM-CAPACITY-SOUND (dBA)*

STAGE #	COMP RPM	CAPACITY %	SOUND (dBA)
24VNA913			
1	1500	58%	58
2	1867	72%	59
3	2100	81%	59
4	2350	90%	59
5	2600	100%	60
24VNA924B			
1	1500	35%	55
2	2566	56%	60
3	3150	69%	65
4	3950	87%	66
5	4700	100%	68
24VNA925			
1	1200	36%	56
2	1900	58%	61
3	2400	73%	63
4	2600	79%	67
5	3300	100%	69
24VNA936			
1	1200	25%	56
2	2400	50%	61
3	3300	69%	65
4	4200	88%	69
5	4800	100%	71
24VNA937			
1	1200	40%	56
2	1800	60%	63
3	2200	73%	67
4	2600	87%	67
5	3000	100%	68
24VNA948			
1	1500	35%	62
2	2460	57%	65
3	2800	65%	67
4	3650	84%	70
5	4320	100%	72
24VNA949			
1	1200	38%	57
2	1840	59%	62
3	2300	74%	66
4	2700	87%	68
5	3120	100%	73
24VNA960			
1	1200	32%	57
2	2180	55%	61
3	2850	70%	64
4	3700	90%	70
5	4140	100%	72

*Estimated sound for stages 2, 3, and 4
For 2−stage operation: Low = Stage 2, High = Stage 5

SOUND POWER LEVEL (dBA)

Unit Size – Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling
013 – 30	Freq (Hz)	1500 RPM	2600 RPM
	125	62.0	64.0
	250	61.0	59.5
	500	54.0	55.0
	1000	53.0	57.0
	2000	49.0	50.0
	4000	42.0	49.5
	8000	47.5	49.5
	Sound Rating (dBA)	59	63
024B – 30	Freq (Hz)	1500 RPM	4700 RPM
	125	63.0	67.5
	250	57.0	66.5
	500	51.5	61.5
	1000	47.5	58.0
	2000	41.5	54.5
	4000	38.0	57.5
	8000	45.5	53.5
	Sound Rating (dBA)	55	67
025 – 31	Freq (Hz)	1200 RPM	3300 RPM
	125	59.5	70.0
	250	56.0	67.5
	500	54.0	67.5
	1000	50.0	63.5
	2000	41.5	59.0
	4000	35.0	58.0
	8000	48.0	51.5
	Sound Rating (dBA)	55	69
036 – 31	Freq (Hz)	1200 RPM	4800 RPM
	125	59.5	70.0
	250	56.0	68.0
	500	54.0	66.0
	1000	50.0	64.0
	2000	41.5	61.5
	4000	35.0	62.0
	8000	48.0	55.5
	Sound Rating (dBA)	55	72
037 – 30	Freq (Hz)	1200 RPM	3000 RPM
	125	64.0	74.0
	250	61.0	68.0
	500	57.5	66.5
	1000	53.5	61.5
	2000	49.0	59.5
	4000	42.0	57.5
	8000	44.0	51.0
	Sound Rating (dBA)	60	69
048 – 30	Freq (Hz)	1500 RPM	4320 RPM
	125	67.0	73.5
	250	63.0	71.5
	500	57.0	69.5
	1000	54.5	64.5
	2000	51.0	62.5
	4000	54.0	62.5
	8000	47.5	54.5
	Sound Rating (dBA)	64	72
49 – 30	Freq (Hz)	1200	3120
	125	44.5	52.0
	250	48.5	63.0
	500	50.5	63.5
	1000	51.5	67.5
	2000	47.5	61.5
	4000	43.5	58.5
	8000	47.5	54.5
	Sound Rating (dBA)	57	73.0
060 – 30	Freq (Hz)	1200 RPM	4140 RPM
	125	61.5	71.5
	250	59.5	73.0
	500	54.5	70.0
	1000	50.5	65.0
	2000	44.0	62.0
	4000	41.5	60.5
	8000	49.0	58.0
	Sound Rating (dBA)	57	72

NOTE: Tested in compliance with AHRI 270 – 1995 but not listed with AHRI.

ACCESSORIES

KIT NUMBER	KIT NAME	13–30	24B–30	25–31	36–31	37–30	48–30	49–30	60
KSASF0101AAA	SPRT FEET KIT						X	X	X
KSASF0201AAA	SPRT FEET KIT	X	X	X	X	X			
KSATX0201PUR	TXV KIT	X	X	X					
KSATX0301PUR	TXV KIT				X	X			
KSATX0401PUR	TXV KIT						X	X	
KSATX0501PUR	TXV KIT								X
KSBTX0201PUR	TXV KIT	X	X	X					
KSBTX0301PUR	TXV KIT				X	X			
KSBTX0401PUR	TXV KIT						X	X	
LM10KK003	VAPOR LINE MUFFLER	X	X	X	X	X	X	X	X

x = Accessory

Accessory Description and Usage

Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended for rooftop applications

Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Required if indoor unit does not already contain Puron® refrigerant TXV

Vapor Line Muffler

An external muffler installed in the vapor line to minimize vibration transmitted through refrigerant lines

Usage Guideline:

Recommended if vapor line is not installed per recommendations in the installation instructions and vibration may be transmitted into the structure.

CONTROLS

SYSTXCCITN01–A	Infinity® Touch Control (non–Wi–Fi) (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)
SYSTXCCITC01–A	Infinity® Touch Control (Wi–Fi) (version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)
SYSTXCCITW01–A	Infinity® Touch Control with Wi–Fi & Wireless Access Point
SYSTXCC4ZC01	Infinity® 4–Zone Damper Control Module
SYSTXCCSMS01	Infinity® Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)
SYSTXCCNIM01	Infinity® Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non–zoning applications.)
SYSTXCCSMS01	Infinity® Smart Sensor

THERMOSTATS

PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT	COOL
TP–PAC01	7–Day	√	√	1	1
TP–NRH01–A	NP	√	√	3	2
TP–NAC01	NP	√	√	1	1

DIMENSIONS

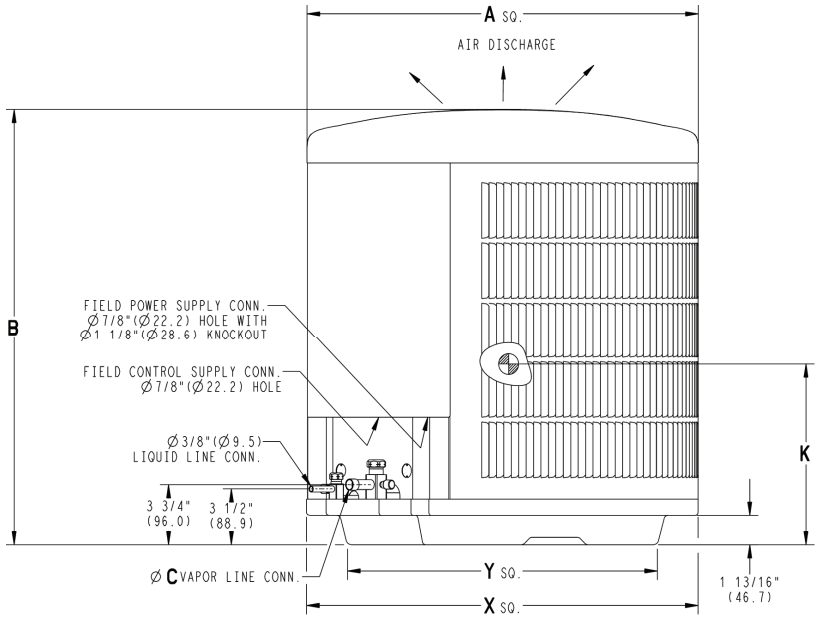
UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
						INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
24VNA913A0030050	0	Y	N	N	N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	135	61.2	158	71.7	25 1/4	641.5	36 9/16	929.5
24VNA924B0030050	0	Y	N	N	N	23 1/8	587.3	32 1/8	815.6	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	11 1/4	285.8	11 1/4	285.8	14 1/2	368.3	135	61.2	158	71.7	25 1/4	641.5	36 9/16	929.5
24VNA925A0031050	1	Y	N	N	N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	160	72.6	186	84.4	25 1/4	641.5	43 3/8	1102.2
24VNA936A0031050	1	Y	N	N	N	23 1/8	587.3	38 15/16	988.4	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	10 3/4	273.1	10 3/4	273.1	18 1/4	463.6	160	72.6	186	84.4	25 1/4	641.5	43 3/8	1102.2
24VNA937A0030050	0	Y	N	N	N	31 3/16	792.5	39 3/8	1000.5	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	216	98.0	255	115.7	33 5/16	846.6	45 1/4	1149.1
24VNA948A0030050	0	Y	N	N	N	31 3/16	792.5	39 3/8	1000.5	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	14 1/2	368.3	14 5/8	371.5	18 3/4	476.3	216	98.0	255	115.7	33 5/16	846.6	45 1/4	1149.1
24VNA949A0030050	0	Y	N	N	N	35	889.0	43 13/16	1112.6	7/8	22.2	6 9/16	166.1	28 7/16	722.8	9 1/8	231.3	5/16	7.9	3	76.2	16 1/4	412.8	16 1/4	412.8	20 1/2	520.7	262	118.8	300	136.1	37 1/8	943.1	50 3/16	1274.9
24VNA960A0030050	0	Y	N	N	N	31 3/16	792.5	42 13/16	1086.9	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	16 1/2	419.1	15	381.0	20	508.0	241	109.3	282	127.9	33 5/16	846.6	48 1/4	1224.8

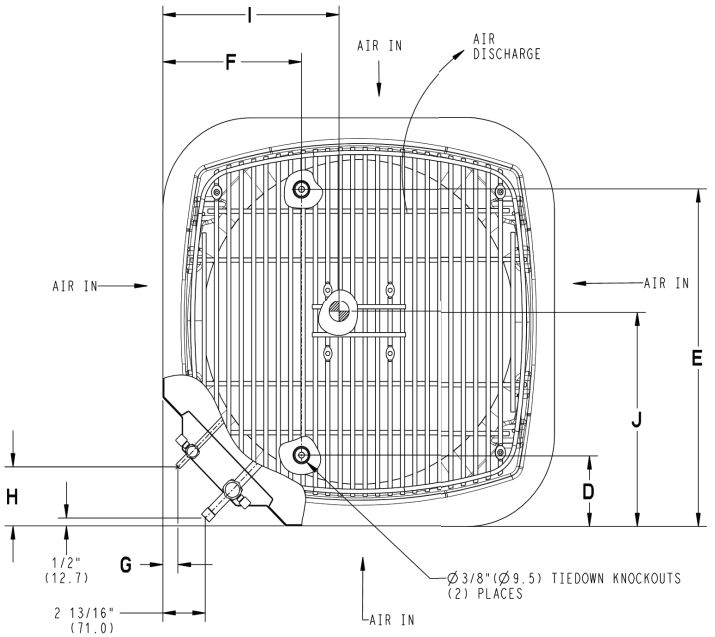
208-230-1-60	208/230-3-60	460-3-60	575-3-60

Y=YES
N=NO

NOTES:

1. CENTER OF GRAVITY ◔ .





UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
13,24,25,36	23 1/8	587.3	17 7/8	454.6
-	25 3/4	654.0	20 7/16	518.5
37,48,60	31 3/16	792.5	22 15/16	583.2
49	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD5238-4 REV. F

TESTED AHRI COMBINATION RATINGS*

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Carrier database at: www.MyCarrierRatings.com

Outdoor Model Number	Indoor Model Number	Furnace Model Number	Cooling Capacity High	EER	SEER	ID CFM
24VNA913A*030*	FE4ANF002L+UI		12800	13.0	17.0	420
24VNA924B*030*	FE4ANF002L+UI		24000	11.0	17.5	825
24VNA925A*031*	FE4AN(B,F)005L+UI		24000	12.5	19.0	825
24VNA936A*031*	FE4AN(B,F)005L+UI		35000	10.5	18.0	1050
24VNA937A*030*	FE4ANB006L+UI		33600	13.0	18.5	1050
24VNA948A*030*	FE4ANB006L+UI		46500	11.0	18.0	1400
24VNA949A*030*	CNPV*6024AL*+UI	58CV(A,X)155–22	44500	12.5	19.0	1200
24VNA960A*030*	FE4ANB006L+UI		57000	10.0	16.5	1600

* Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:
Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.
EER — Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio
UI — User Interface

NOTE: Ratings contained in this document are subject to change at any time.

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

EDB °F (°C)	EVAP. AIR	24VNA913 / FE4ANF002L Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**420**	12.59	5.26	1.36	**420**	13.48	5.59	1.17	**420**	14.21	5.86	0.98	**420**	15.07	6.18	0.81	**420**	15.92	6.51	0.65	**420**	16.76	6.83	0.50
	67 (19.4)		11.37	7.16	1.35		12.17	7.50	1.17		12.84	7.79	0.98		13.61	8.13	0.82		14.37	8.46	0.67		15.11	8.79	0.53
	63 (17.2)		10.47	8.64	1.34		11.21	8.99	1.17		11.83	9.30	0.99		12.53	9.64	0.83		13.22	9.98	0.69		13.89	10.32	0.56
	57 (13.9)		9.83	9.83	1.34		10.40	10.40	1.17		10.89	10.89	0.99		11.42	11.42	0.84		11.93	11.93	0.71		12.42	12.42	0.59
80 (26.7)	72 (22.2)	**420**	12.55	7.18	1.36	**420**	13.44	7.52	1.17	**420**	14.16	7.81	0.98	**420**	15.02	8.15	0.81	**420**	15.87	8.49	0.65	**420**	16.71	8.83	0.50
	67 (19.4)		11.34	9.04	1.35		12.13	9.40	1.17		12.80	9.71	0.98		13.57	10.07	0.82		14.33	10.42	0.67		15.07	10.76	0.53
	63 (17.2)		10.52	10.47	1.35		11.23	10.87	1.17		11.84	11.20	0.99		12.54	11.57	0.83		13.22	11.93	0.69		13.88	12.28	0.56
	57 (13.9)		10.48	10.48	1.34		11.08	11.08	1.17		11.59	11.59	0.99		12.16	12.16	0.83		12.70	12.70	0.70		13.22	13.22	0.57
STAGE 3																									
75 (23.9)	72 (22.2)	**300**	10.14	4.18	1.01	**300**	10.85	4.45	0.90	**420**	12.12	5.12	0.77	**420**	12.91	5.41	0.66	**420**	13.68	5.70	0.54	**420**	14.43	5.98	0.42
	67 (19.4)		9.12	5.54	1.01		9.75	5.82	0.91		10.91	7.08	0.79		11.61	7.38	0.68		12.29	7.68	0.57		12.95	7.97	0.47
	63 (17.2)		8.38	6.62	1.01		8.96	6.90	0.91		10.04	8.60	0.79		10.67	8.92	0.69		11.28	9.23	0.60		11.88	9.53	0.50
	57 (13.9)		7.73	7.73	1.00		8.17	8.17	0.92		9.57	9.57	0.80		10.07	10.07	0.70		10.54	10.54	0.61		11.01	11.01	0.52
80 (26.7)	72 (22.2)	**300**	10.10	5.57	1.01	**300**	10.82	5.86	0.90	**420**	12.07	7.11	0.77	**420**	12.86	7.42	0.66	**420**	13.63	7.73	0.54	**420**	14.38	8.03	0.42
	67 (19.4)		9.09	6.92	1.01		9.73	7.22	0.91		10.89	9.03	0.79		11.58	9.36	0.68		12.25	9.68	0.57		12.91	9.99	0.47
	63 (17.2)		8.39	7.99	1.01		8.97	8.29	0.91		10.24	10.24	0.79		10.78	10.78	0.69		11.34	11.19	0.59		11.92	11.53	0.50
	57 (13.9)		8.23	8.23	1.01		8.70	8.70	0.91		10.23	10.23	0.79		10.75	10.75	0.69		11.26	11.26	0.60		11.76	11.76	0.50
STAGE 1																									
75 (23.9)	72 (22.2)	**200**	8.50	3.45	0.83	**200**	9.09	3.68	0.77	**300**	8.44	3.60	0.51	**300**	9.06	3.83	0.44	**300**	9.67	4.05	0.36	**300**	10.28	4.28	0.28
	67 (19.4)		7.65	4.36	0.83		8.17	4.60	0.77		7.61	5.05	0.51		8.16	5.29	0.45		8.70	5.53	0.39		9.23	5.77	0.31
	63 (17.2)		7.04	5.08	0.82		7.51	5.32	0.77		7.02	6.18	0.51		7.51	6.44	0.46		8.00	6.69	0.40		8.46	6.93	0.34
	57 (13.9)		6.23	6.15	0.81		6.63	6.39	0.77		6.75	6.75	0.52		7.16	7.16	0.47		7.54	7.54	0.41		7.90	7.90	0.36
80 (26.7)	72 (22.2)	**200**	8.48	4.39	0.83	**200**	9.06	4.63	0.77	**300**	8.40	5.06	0.51	**300**	9.02	5.30	0.44	**300**	9.64	5.55	0.36	**300**	10.24	5.80	0.28
	67 (19.4)		7.63	5.29	0.83		8.15	5.54	0.77		7.59	6.49	0.51		8.14	6.76	0.45		8.68	7.02	0.39		9.21	7.28	0.31
	63 (17.2)		7.03	6.01	0.82		7.49	6.26	0.77		7.23	7.23	0.51		7.66	7.66	0.46		8.08	8.08	0.40		8.50	8.42	0.33
	57 (13.9)		6.58	6.58	0.82		6.94	6.94	0.77		7.22	7.22	0.51		7.65	7.65	0.46		8.06	8.06	0.40		8.46	8.46	0.34

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA924B / FE4ANF002L Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**825**	23.43	9.90	2.85	**825**	25.03	10.49	2.52	**825**	26.46	11.02	2.20	**825**	28.00	11.60	1.91	**825**	29.51	12.16	1.63	**825**	31.01	12.73	1.37
	67 (19.4)		21.30	13.70	2.81		22.76	14.32	2.49		24.07	14.89	2.18		25.46	15.50	1.90		26.82	16.10	1.63		28.19	16.70	1.38
	63 (17.2)		19.74	16.69	2.78		21.07	17.34	2.47		22.29	17.94	2.17		23.58	18.57	1.89		24.85	19.20	1.63		26.11	19.82	1.39
	57 (13.9)		18.74	18.74	2.76		19.81	19.81	2.45		20.78	20.78	2.15		21.79	21.79	1.88		22.78	22.78	1.63		23.74	23.74	1.39
80 (26.7)	72 (22.2)	**825**	23.36	13.70	2.85	**825**	24.96	14.32	2.52	**825**	26.39	14.88	2.20	**825**	27.93	15.49	1.91	**825**	29.44	16.09	1.63	**825**	30.94	16.69	1.37
	67 (19.4)		21.24	17.45	2.81		22.69	18.11	2.49		24.00	18.72	2.18		25.39	19.36	1.90		26.76	19.99	1.63		28.12	20.63	1.38
	63 (17.2)		19.96	19.96	2.78		21.18	20.93	2.47		22.35	21.63	2.17		23.61	22.34	1.89		24.86	23.02	1.63		26.10	23.70	1.38
	57 (13.9)		19.93	19.93	2.78		21.05	21.05	2.47		22.07	22.07	2.16		23.12	23.12	1.89		24.16	24.16	1.63		25.17	25.17	1.39
STAGE 3																									
75 (23.9)	72 (22.2)	**650**	16.60	7.18	1.72	**650**	17.75	7.59	1.53	**650**	18.75	7.96	1.31	**650**	19.88	8.37	1.12	**650**	20.99	8.78	0.94	**650**	22.08	9.18	0.77
	67 (19.4)		15.01	10.22	1.72		16.06	10.66	1.53		16.99	11.06	1.32		18.00	11.49	1.14		18.99	11.92	0.97		19.97	12.34	0.81
	63 (17.2)		13.88	12.59	1.71		14.82	13.06	1.54		15.70	13.48	1.32		16.62	13.94	1.15		17.52	14.38	0.99		18.40	14.82	0.84
	57 (13.9)		13.48	13.48	1.71		14.25	14.25	1.54		14.97	14.97	1.32		15.70	15.70	1.16		16.40	16.40	1.01		17.10	17.10	0.86
80 (26.7)	72 (22.2)	**650**	16.54	10.24	1.72	**650**	17.69	10.68	1.53	**650**	18.68	11.07	1.31	**650**	19.81	11.51	1.12	**650**	20.92	11.94	0.94	**650**	22.01	12.37	0.77
	67 (19.4)		14.98	13.23	1.72		16.01	13.70	1.53		16.94	14.13	1.32		17.95	14.59	1.14		18.93	15.05	0.97		19.91	15.50	0.81
	63 (17.2)		14.42	14.42	1.72		15.24	15.24	1.53		15.99	15.99	1.32		16.77	16.77	1.15		17.61	17.39	0.99		18.46	17.89	0.83
	57 (13.9)		14.40	14.40	1.72		15.22	15.22	1.53		15.96	15.96	1.32		16.74	16.74	1.15		17.50	17.50	0.99		18.23	18.23	0.84
STAGE 1																									
75 (23.9)	72 (22.2)	**650**	14.01	6.30	1.38	**650**	15.00	6.65	1.24	**585**	9.25	4.60	0.54	**585**	9.85	4.81	0.46	**585**	10.45	5.01	0.37	**585**	11.04	5.22	0.29
	67 (19.4)		12.64	9.35	1.39		13.52	9.73	1.25		8.32	7.38	0.55		8.85	7.61	0.48		9.37	7.84	0.40		9.89	8.07	0.33
	63 (17.2)		11.71	11.62	1.39		12.49	12.06	1.26		8.11	8.11	0.55		8.56	8.56	0.48		9.00	9.00	0.41		9.43	9.43	0.34
	57 (13.9)		11.67	11.67	1.39		12.35	12.35	1.26		8.11	8.11	0.55		8.55	8.55	0.48		8.98	8.98	0.41		9.42	9.42	0.34
80 (26.7)	72 (22.2)	**650**	13.95	9.39	1.38	**650**	14.94	9.76	1.24	**585**	9.20	7.43	0.54	**585**	9.80	7.66	0.45	**585**	10.39	7.90	0.37	**585**	10.98	8.13	0.29
	67 (19.4)		12.66	12.32	1.39		13.52	12.75	1.25		8.77	8.77	0.54		9.26	9.26	0.47		9.73	9.73	0.39		10.19	10.19	0.31
	63 (17.2)		12.55	12.55	1.39		13.28	13.28	1.26		8.77	8.77	0.54		9.25	9.25	0.47		9.72	9.72	0.39		10.18	10.18	0.31
	57 (13.9)		12.53	12.53	1.39		13.26	13.26	1.26		8.76	8.76	0.54		9.24	9.24	0.47		9.71	9.71	0.39		10.17	10.17	0.31

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA925/FE4ANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**825**	23.68	9.99	2.51	**825**	25.12	10.51	2.21	**825**	26.43	11.00	1.90	**825**	27.77	11.50	1.62	**825**	29.08	11.99	1.34	**825**	30.34	12.47	1.07
	67 (19.4)		21.55	13.82	2.50		22.88	14.39	2.21		24.10	14.93	1.92		25.35	15.48	1.65		26.55	16.01	1.39		27.72	16.54	1.13
	63 (17.2)		19.97	16.81	2.49		21.22	17.43	2.22		22.38	18.00	1.93		23.54	18.59	1.67		24.67	19.16	1.42		25.77	19.72	1.17
	57 (13.9)		18.96	18.96	2.48		19.97	19.97	2.21		20.91	20.91	1.94		21.84	21.84	1.69		22.75	22.75	1.45		23.62	23.62	1.21
80 (26.7)	72 (22.2)	**825**	23.52	13.77	2.50	**825**	24.94	14.33	2.20	**825**	26.25	14.85	1.90	**825**	27.59	15.38	1.61	**825**	28.89	15.91	1.34	**825**	30.15	16.42	1.07
	67 (19.4)		21.46	17.56	2.50		22.78	18.18	2.21		24.00	18.75	1.92		25.24	19.33	1.65		26.45	19.90	1.39		27.61	20.46	1.13
	63 (17.2)		20.19	20.19	2.49		21.30	21.10	2.22		22.43	21.76	1.93		23.57	22.40	1.67		24.68	23.02	1.42		25.77	23.62	1.17
	57 (13.9)		20.15	20.15	2.49		21.20	21.20	2.22		22.18	22.18	1.93		23.15	23.15	1.67		24.09	24.09	1.43		25.00	25.00	1.19
STAGE 3																									
75 (23.9)	72 (22.2)	**650**	15.55	6.67	1.25	**650**	16.54	7.02	1.17	**650**	17.29	7.30	1.03	**650**	18.23	7.64	0.91	**650**	19.14	7.98	0.77	**650**	20.05	8.32	0.61
	67 (19.4)		14.11	9.43	1.25		15.02	9.82	1.18		15.76	10.15	1.05		16.63	10.52	0.95		17.47	10.89	0.82		18.29	11.25	0.67
	63 (17.2)		13.09	11.60	1.25		13.94	12.02	1.19		14.67	12.38	1.06		15.47	12.78	0.97		16.26	13.17	0.85		17.02	13.56	0.71
	57 (13.9)		12.65	12.65	1.25		13.36	13.36	1.20		13.97	13.97	1.07		14.62	14.62	0.98		15.26	15.26	0.87		15.89	15.89	0.75
80 (26.7)	72 (22.2)	**650**	15.43	9.41	1.24	**650**	16.40	9.79	1.17	**650**	17.14	10.08	1.03	**650**	18.08	10.45	0.91	**650**	18.99	10.81	0.77	**650**	19.94	11.19	0.61
	67 (19.4)		14.07	12.14	1.25		14.97	12.56	1.18		15.70	12.91	1.05		16.56	13.31	0.94		17.39	13.70	0.82		18.21	14.09	0.67
	63 (17.2)		13.49	13.49	1.25		14.23	14.23	1.19		14.84	14.84	1.06		15.54	15.49	0.96		16.30	15.95	0.84		17.05	16.38	0.71
	57 (13.9)		13.47	13.47	1.25		14.20	14.20	1.19		14.81	14.81	1.06		15.50	15.50	0.96		16.17	16.17	0.85		16.81	16.81	0.72
STAGE 1																									
75 (23.9)	72 (22.2)	**650**	12.12	5.39	0.73	**650**	12.92	5.68	0.75	**585**	10.55	4.66	0.46	**585**	11.18	4.89	0.44	**585**	11.84	5.13	0.39	**585**	12.52	5.37	0.28
	67 (19.4)		10.98	7.95	0.74		11.73	8.27	0.77		9.58	6.85	0.47		10.16	7.10	0.47		10.74	7.35	0.43		11.36	7.61	0.34
	63 (17.2)		10.22	9.94	0.74		10.91	10.29	0.77		8.93	8.56	0.49		9.46	8.83	0.49		10.00	9.10	0.46		10.55	9.37	0.38
	57 (13.9)		10.14	10.14	0.74		10.74	10.74	0.78		8.82	8.82	0.49		9.29	9.29	0.50		9.75	9.75	0.47		10.21	10.21	0.40
80 (26.7)	72 (22.2)	**650**	11.99	7.94	0.73	**650**	12.79	8.25	0.75	**585**	10.41	6.81	0.46	**585**	11.06	7.06	0.44	**585**	11.73	7.32	0.38	**585**	12.41	7.59	0.28
	67 (19.4)		10.97	10.45	0.74		11.70	10.80	0.76		9.55	8.98	0.47		10.13	9.25	0.47		10.71	9.53	0.43		11.32	9.81	0.34
	63 (17.2)		10.83	10.83	0.74		11.46	11.46	0.77		9.40	9.40	0.48		9.89	9.89	0.48		10.37	10.37	0.44		10.87	10.87	0.36
	57 (13.9)		10.82	10.82	0.74		11.44	11.44	0.77		9.39	9.39	0.48		9.87	9.87	0.48		10.35	10.35	0.44		10.85	10.85	0.36

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA936 / FE4ANF005 Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**1050**	34.24	14.18	4.44	**1050**	36.41	14.99	3.89	**1050**	38.29	15.70	3.36	**1050**	40.30	16.47	2.87	**1050**	42.28	17.24	2.41	**1050**	44.18	17.98	1.98
	67 (19.4)		31.38	19.07	4.38		33.35	19.95	3.85		35.13	20.75	3.34		36.99	21.60	2.87		38.79	22.42	2.43		40.52	23.22	2.02
	63 (17.2)		29.21	22.90	4.33		31.07	23.84	3.81		32.74	24.70	3.31		34.48	25.59	2.86		36.17	26.47	2.44		37.79	27.32	2.04
	57 (13.9)		27.05	27.05	4.27		28.50	28.50	3.77		29.85	29.85	3.28		31.20	31.20	2.84		32.65	32.25	2.44		34.08	33.21	2.06
80 (26.7)	72 (22.2)	**1050**	34.04	18.92	4.44	**1050**	36.21	19.79	3.88	**1050**	38.09	20.56	3.35	**1050**	40.10	21.39	2.86	**1050**	42.08	22.22	2.41	**1050**	43.98	23.01	1.98
	67 (19.4)		31.25	23.78	4.38		33.23	24.72	3.84		35.00	25.57	3.33		36.86	26.47	2.86		38.66	27.35	2.42		40.39	28.21	2.02
	63 (17.2)		29.21	27.55	4.33		31.05	28.56	3.81		32.70	29.48	3.31		34.43	30.44	2.86		36.11	31.38	2.43		37.72	32.28	2.04
	57 (13.9)		28.61	28.61	4.32		30.14	30.14	3.80		31.53	31.53	3.30		32.95	32.95	2.85		34.31	34.31	2.44		35.64	35.64	2.05
STAGE 3																									
75 (23.9)	72 (22.2)	**900**	21.81	9.32	1.96	**900**	23.25	9.85	1.83	**900**	24.29	10.24	1.67	**900**	25.66	10.75	1.50	**900**	27.01	11.26	1.31	**900**	28.33	11.75	1.10
	67 (19.4)		19.85	13.12	1.96		21.18	13.71	1.84		22.21	14.19	1.68		23.48	14.77	1.52		24.72	15.33	1.35		25.94	15.89	1.15
	63 (17.2)		18.41	16.08	1.95		19.66	16.73	1.85		20.68	17.29	1.68		21.87	17.91	1.54		23.02	18.53	1.37		24.16	19.14	1.19
	57 (13.9)		17.71	17.71	1.95		18.75	18.75	1.85		19.63	19.63	1.68		20.61	20.61	1.54		21.57	21.57	1.39		22.50	22.50	1.22
80 (26.7)	72 (22.2)	**900**	21.64	13.06	1.95	**900**	23.07	13.65	1.83	**900**	24.08	14.08	1.66	**900**	25.46	14.65	1.49	**900**	26.81	15.21	1.31	**900**	28.13	15.76	1.10
	67 (19.4)		19.77	16.83	1.95		21.09	17.48	1.84		22.11	18.01	1.67		23.37	18.64	1.52		24.60	19.26	1.35		25.82	19.87	1.15
	63 (17.2)		18.86	18.86	1.95		19.95	19.95	1.84		20.82	20.82	1.68		21.94	21.67	1.53		23.07	22.38	1.37		24.19	23.06	1.19
	57 (13.9)		18.83	18.83	1.95		19.91	19.91	1.84		20.79	20.79	1.68		21.82	21.82	1.53		22.82	22.82	1.37		23.80	23.80	1.20
STAGE 1																									
75 (23.9)	72 (22.2)	**800**	14.74	6.58	0.98	**800**	15.80	6.96	1.00	**600**	10.82	4.81	0.48	**600**	11.57	5.09	0.46	**600**	12.38	5.38	0.39	**600**	13.21	5.69	0.27
	67 (19.4)		13.36	9.71	0.98		14.34	10.16	1.02		9.83	7.10	0.49		10.52	7.42	0.49		11.24	7.76	0.44		11.99	8.11	0.34
	63 (17.2)		12.47	12.13	0.98		13.37	12.65	1.03		9.17	8.88	0.51		9.81	9.25	0.51		10.45	9.62	0.47		11.13	10.00	0.38
	57 (13.9)		12.37	12.37	0.98		13.18	13.18	1.03		9.09	9.09	0.51		9.66	9.66	0.52		10.22	10.22	0.48		10.81	10.81	0.40
80 (26.7)	72 (22.2)	**800**	14.58	9.69	0.97	**800**	15.63	10.12	1.00	**600**	10.67	7.06	0.47	**600**	11.46	7.39	0.46	**600**	12.27	7.73	0.39	**600**	13.08	8.07	0.27
	67 (19.4)		13.36	12.75	0.98		14.32	13.27	1.02		9.80	9.32	0.49		10.49	9.70	0.49		11.21	10.08	0.44		11.95	10.47	0.34
	63 (17.2)		13.20	13.20	0.98		14.04	14.04	1.02		9.68	9.68	0.49		10.28	10.28	0.49		10.89	10.89	0.45		11.52	11.52	0.36
	57 (13.9)		13.18	13.18	0.98		14.02	14.02	1.02		9.67	9.67	0.49		10.26	10.26	0.49		10.87	10.87	0.45		11.50	11.50	0.36

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR EWB °F (°C)	24VNA937 / FE4ANB006L Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
		ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**1050**	32.70	13.63	3.49	**1050**	34.98	14.48	3.05	**1050**	37.03	15.26	2.59	**1050**	39.26	16.11	2.21	**1050**	41.44	16.95	1.86	**1050**	43.61	17.78	1.54
	67 (19.4)		31.53	19.22	3.08		31.81	19.44	3.03		33.70	20.30	2.58		35.71	21.22	2.21		37.69	22.14	1.87		39.65	23.05	1.56
	63 (17.2)		27.56	22.33	3.44		29.48	23.32	3.02		31.25	24.26	2.58		33.12	25.24	2.21		34.94	26.21	1.88		36.75	27.17	1.58
	57 (13.9)		25.78	25.78	3.41		27.31	27.31	3.00		28.73	28.73	2.56		30.19	30.19	2.21		31.62	31.62	1.89		33.01	33.01	1.61
80 (26.7)	72 (22.2)	**1050**	32.58	18.47	3.49	**1050**	34.86	19.41	3.05	**1050**	36.91	20.26	2.59	**1050**	39.14	21.19	2.21	**1050**	41.32	22.11	1.86	**1050**	43.48	23.02	1.54
	67 (19.4)		31.43	24.01	3.08		31.71	24.30	3.03		33.60	25.24	2.58		35.61	26.24	2.21		37.59	27.23	1.87		39.55	28.22	1.56
	63 (17.2)		27.61	27.02	3.44		29.49	28.13	3.02		31.23	29.15	2.58		33.10	30.22	2.21		34.91	31.27	1.88		36.70	32.31	1.58
	57 (13.9)		27.36	27.36	3.44		28.98	28.98	3.01		30.45	30.45	2.57		32.00	32.00	2.21		33.49	33.49	1.89		34.96	34.96	1.59
STAGE 3																									
75 (23.9)	72 (22.2)	**900**	22.96	9.72	2.41	**900**	24.70	10.37	2.11	**900**	26.36	10.99	1.76	**900**	28.08	11.65	1.50	**900**	29.77	12.29	1.25	**900**	31.45	12.93	1.03
	67 (19.4)		20.81	13.49	2.42		22.39	14.22	2.13		23.90	14.93	1.79		25.43	15.65	1.54		26.95	16.37	1.30		28.46	17.09	1.08
	63 (17.2)		19.24	16.44	2.42		20.68	17.23	2.14		22.09	18.01	1.80		23.50	18.79	1.56		24.89	19.57	1.34		26.28	20.35	1.13
	57 (13.9)		18.34	18.34	2.42		19.54	19.54	2.15		20.70	20.70	1.82		21.85	21.85	1.58		22.98	22.98	1.37		24.10	24.10	1.17
80 (26.7)	72 (22.2)	**900**	22.86	13.49	2.41	**900**	24.60	14.23	2.11	**900**	26.26	14.93	1.76	**900**	27.98	15.67	1.50	**900**	29.67	16.39	1.25	**900**	31.35	17.12	1.03
	67 (19.4)		20.74	17.22	2.42		22.31	18.03	2.13		23.83	18.82	1.79		25.36	19.62	1.54		26.87	20.42	1.30		28.38	21.22	1.08
	63 (17.2)		19.57	19.57	2.42		20.83	20.83	2.14		22.16	21.83	1.80		23.54	22.72	1.56		24.92	23.58	1.33		26.29	24.45	1.12
	57 (13.9)		19.53	19.53	2.42		20.79	20.79	2.14		22.01	22.01	1.80		23.22	23.22	1.56		24.42	24.42	1.34		25.59	25.59	1.14
STAGE 1																									
75 (23.9)	72 (22.2)	**800**	18.16	7.73	1.96	**800**	19.62	8.28	1.73	**600**	15.04	6.28	0.87	**600**	16.16	6.71	0.72	**600**	17.28	7.14	0.57	**600**	18.39	7.57	0.43
	67 (19.4)		16.42	10.82	1.98		17.74	11.45	1.76		13.64	8.56	0.91		14.65	9.05	0.76		15.65	9.54	0.62		16.65	10.04	0.49
	63 (17.2)		15.19	13.25	1.99		16.40	13.94	1.77		12.63	10.35	0.93		13.55	10.90	0.80		14.47	11.44	0.66		15.39	11.99	0.53
	57 (13.9)		14.59	14.59	1.99		15.61	15.61	1.78		11.87	11.87	0.95		12.64	12.64	0.82		13.40	13.40	0.70		14.16	14.16	0.58
80 (26.7)	72 (22.2)	**800**	18.08	10.84	1.96	**800**	19.54	11.47	1.73	**600**	14.98	8.55	0.87	**600**	16.10	9.05	0.72	**600**	17.22	9.55	0.57	**600**	18.33	10.05	0.43
	67 (19.4)		16.38	13.89	1.98		17.69	14.60	1.75		13.60	10.81	0.91		14.60	11.37	0.76		15.60	11.94	0.62		16.60	12.50	0.49
	63 (17.2)		15.57	15.57	1.99		16.66	16.66	1.77		12.67	12.58	0.93		13.57	13.20	0.79		14.48	13.82	0.66		15.39	14.44	0.53
	57 (13.9)		15.54	15.54	1.99		16.63	16.63	1.77		12.62	12.62	0.93		13.43	13.43	0.80		14.23	14.23	0.67		15.04	15.04	0.54

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR EWB °F (°C)	24VNA948 / FE4BNB006 Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
		ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**1400**	44.82	18.57	5.52	**1400**	47.96	19.76	4.88	**1400**	50.99	20.91	4.29	**1400**	53.98	22.06	3.74	**1400**	56.89	23.19	3.23	**1400**	59.70	24.29	2.75
	67 (19.4)		40.99	24.95	5.42		43.86	26.26	4.80		46.65	27.54	4.23		49.36	28.80	3.70		52.01	30.04	3.21		54.60	31.27	2.75
	63 (17.2)		38.13	29.97	5.34		40.79	31.36	4.74		43.37	32.72	4.18		45.91	34.07	3.67		48.37	35.40	3.19		50.78	36.72	2.74
	57 (13.9)		35.29	35.29	5.26		37.41	37.41	4.66		39.46	39.46	4.12		41.45	41.45	3.62		43.58	43.09	3.16		45.70	44.59	2.73
80 (26.7)	72 (22.2)	**1400**	44.60	24.79	5.51	**1400**	47.74	26.09	4.88	**1400**	50.77	27.36	4.28	**1400**	53.76	28.62	3.73	**1400**	56.66	29.86	3.22	**1400**	59.48	31.07	2.75
	67 (19.4)		40.84	31.14	5.42		43.71	32.55	4.80		46.50	33.94	4.23		49.21	35.31	3.70		51.86	36.65	3.20		54.45	37.98	2.75
	63 (17.2)		38.13	36.06	5.34		40.76	37.59	4.74		43.33	39.07	4.18		45.84	40.54	3.67		48.30	41.98	3.18		50.70	43.40	2.74
	57 (13.9)		37.36	37.36	5.32		39.59	39.59	4.72		41.72	41.72	4.16		43.81	43.81	3.64		45.84	45.84	3.17		47.82	47.82	2.73
STAGE 3																									
75 (23.9)	72 (22.2)	**1200**	29.42	12.62	2.82	**1200**	31.60	13.43	2.56	**1200**	33.63	14.20	2.26	**1200**	35.75	15.00	2.00	**1200**	37.82	15.78	1.74	**1200**	39.85	16.55	1.49
	67 (19.4)		26.82	17.86	2.80		28.83	18.79	2.56		30.73	19.68	2.27		32.66	20.60	2.02		34.57	21.50	1.77		36.44	22.40	1.52
	63 (17.2)		24.93	21.96	2.79		26.79	22.99	2.55		28.58	23.99	2.26		30.39	25.00	2.02		32.16	26.00	1.78		33.91	26.99	1.55
	57 (13.9)		24.03	24.03	2.78		25.61	25.61	2.55		27.12	27.12	2.26		28.62	28.62	2.03		30.11	30.11	1.80		31.55	31.55	1.57
80 (26.7)	72 (22.2)	**1200**	29.22	17.78	2.81	**1200**	31.39	18.70	2.55	**1200**	33.41	19.57	2.25	**1200**	35.52	20.47	2.00	**1200**	37.60	21.37	1.74	**1200**	39.62	22.25	1.48
	67 (19.4)		26.71	22.96	2.80		28.71	24.01	2.56		30.60	25.01	2.26		32.52	26.03	2.01		34.42	27.05	1.77		36.30	28.05	1.52
	63 (17.2)		25.56	25.56	2.80		27.23	27.23	2.55		28.80	28.80	2.26		30.48	30.24	2.02		32.21	31.42	1.78		33.93	32.55	1.55
	57 (13.9)		25.52	25.52	2.80		27.19	27.19	2.55		28.76	28.76	2.26		30.35	30.35	2.02		31.90	31.90	1.78		33.43	33.43	1.55
STAGE 1																									
75 (23.9)	72 (22.2)	**1100**	25.50	10.99	2.21	**1100**	27.46	11.73	2.07	**875**	19.62	8.56	0.95	**875**	20.96	9.06	0.84	**875**	22.29	9.57	0.72	**875**	23.61	10.07	0.57
	67 (19.4)		23.22	15.65	2.21		25.04	16.51	2.08		17.88	12.38	0.98		19.11	12.99	0.88		20.32	13.60	0.76		21.53	14.21	0.62
	63 (17.2)		21.57	19.30	2.21		23.24	20.26	2.08		16.68	15.37	1.00		17.82	16.07	0.90		18.95	16.77	0.79		20.07	17.46	0.66
	57 (13.9)		20.89	20.89	2.20		22.32	22.32	2.08		16.33	16.33	1.00		17.34	17.34	0.91		18.34	18.34	0.81		19.33	19.33	0.68
80 (26.7)	72 (22.2)	**1100**	25.31	15.59	2.21	**1100**	27.26	16.44	2.06	**875**	19.42	12.31	0.95	**875**	20.76	12.92	0.84	**875**	22.09	13.52	0.71	**875**	23.43	14.14	0.57
	67 (19.4)		23.13	20.20	2.21		24.93	21.18	2.07		17.82	16.09	0.98		19.04	16.80	0.88		20.25	17.51	0.76		21.44	18.21	0.62
	63 (17.2)		22.25	22.25	2.21		23.77	23.77	2.08		17.35	17.35	0.98		18.41	18.41	0.89		19.46	19.46	0.78		20.50	20.50	0.65
	57 (13.9)		22.21	22.21	2.21		23.73	23.73	2.08		17.32	17.32	0.98		18.39	18.39	0.89		19.43	19.43	0.78		20.47	20.47	0.65

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA949 / *CNPV*6024AL* Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	1200	45.15	18.59	4.64	1200	47.22	19.34	4.10	1200	49.13	20.04	3.62	1200	50.85	20.69	3.20	1200	52.44	21.29	2.83	1200	53.90	21.86	2.50
	67 (19.4)		40.99	24.58	4.57		42.88	25.28	4.03		44.59	25.92	3.56		46.15	26.50	3.14		47.59	27.05	2.77		48.89	27.54	2.45
	63 (17.2)		37.94	29.29	4.53		39.67	29.93	3.99		41.26	30.52	3.52		42.70	31.05	3.10		44.02	31.54	2.74		45.22	31.98	2.42
	57 (13.9)		34.94	34.94	4.48		36.17	36.17	3.94		37.25	37.25	3.47		38.39	37.79	3.05		39.47	38.20	2.69		40.46	38.55	2.38
80 (26.7)	72 (22.2)	1200	45.05	24.59	4.65	1200	47.12	25.29	4.10	1200	49.03	25.93	3.62	1200	50.75	26.52	3.20	1200	52.34	27.07	2.83	1200	53.80	27.58	2.50
	67 (19.4)		40.90	30.52	4.57		42.79	31.16	4.03		44.50	31.73	3.56		46.06	32.26	3.14		47.51	32.74	2.77		48.81	33.18	2.45
	63 (17.2)		38.05	35.23	4.53		39.74	35.81	3.99		41.31	36.35	3.52		42.73	36.82	3.10		44.03	37.24	2.74		45.22	37.62	2.42
	57 (13.9)		37.10	37.10	4.51		38.37	38.37	3.97		39.51	39.51	3.50		40.51	40.51	3.08		41.42	41.42	2.71		42.21	42.21	2.39
STAGE 3																									
75 (23.9)	72 (22.2)	1100	31.12	13.04	2.69	1100	33.04	13.72	2.42	1100	34.76	14.34	2.13	1100	36.52	14.98	1.89	1100	38.19	15.60	1.67	1100	39.82	16.21	1.47
	67 (19.4)		27.98	17.71	2.68		29.74	18.37	2.42		31.35	18.98	2.12		32.93	19.60	1.88		34.47	20.20	1.67		35.92	20.78	1.46
	63 (17.2)		25.70	21.37	2.67		27.30	22.01	2.41		28.81	22.61	2.11		30.27	23.20	1.88		31.66	23.76	1.67		33.00	24.31	1.47
	57 (13.9)		24.22	24.22	2.66		25.43	25.43	2.41		26.54	26.54	2.11		27.60	27.60	1.88		28.59	28.59	1.67		29.51	29.51	1.47
80 (26.7)	72 (22.2)	1100	31.03	17.82	2.69	1100	32.96	18.48	2.42	1100	34.67	19.07	2.13	1100	36.43	19.69	1.89	1100	38.11	20.29	1.67	1100	39.73	20.88	1.47
	67 (19.4)		27.94	22.44	2.68		29.69	23.08	2.42		31.28	23.67	2.12		32.86	24.25	1.88		34.39	24.83	1.67		35.84	25.38	1.46
	63 (17.2)		25.99	25.99	2.67		27.49	26.68	2.41		28.94	27.28	2.11		30.37	27.85	1.88		31.74	28.40	1.67		33.06	28.93	1.47
	57 (13.9)		25.95	25.95	2.67		27.20	27.20	2.41		28.35	28.35	2.11		29.45	29.45	1.88		30.47	30.47	1.67		31.45	31.45	1.47
STAGE 1																									
75 (23.9)	72 (22.2)	1100	24.22	10.36	1.81	1100	26.07	11.01	1.70	875	22.44	9.23	0.80	875	22.15	9.12	0.98	875	23.77	9.73	0.84	875	25.39	10.35	0.64
	67 (19.4)		21.60	14.43	1.81		23.29	15.08	1.71		18.32	11.38	1.06		19.80	12.00	0.98		21.26	12.62	0.84		22.74	13.26	0.66
	63 (17.2)		19.74	17.61	1.80		21.27	18.26	1.71		16.73	13.62	1.05		18.09	14.24	0.98		19.44	14.88	0.85		20.79	15.51	0.67
	57 (13.9)		19.08	19.08	1.80		20.28	20.28	1.71		15.60	15.60	1.05		16.63	16.63	0.98		17.64	17.64	0.86		18.62	18.62	0.70
80 (26.7)	72 (22.2)	1100	24.14	14.58	1.81	1100	25.99	15.23	1.70	875	20.47	11.51	1.08	875	22.08	12.12	0.98	875	23.71	12.75	0.84	875	25.33	13.38	0.64
	67 (19.4)		21.61	18.61	1.81		23.27	19.26	1.71		18.30	14.33	1.06		19.76	14.96	0.98		21.22	15.60	0.84		22.70	16.25	0.66
	63 (17.2)		20.60	20.60	1.80		21.86	21.86	1.71		16.89	16.55	1.06		18.19	17.21	0.98		19.52	17.86	0.85		20.85	18.52	0.67
	57 (13.9)		20.56	20.56	1.80		21.82	21.82	1.71		16.76	16.76	1.05		17.83	17.83	0.98		18.88	18.88	0.85		19.90	19.90	0.68

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA960 / FE4BNB006L Efficiency Mode Condenser Entering Air Temperature °F (°C)																					
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**	ID SCFM	Capacity MBtuh		Total Sys. KW**
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																									
75 (23.9)	72 (22.2)	**1600**	55.38	22.79	7.70	**1600**	59.00	24.17	6.73	**1600**	62.54	25.53	5.88	**1600**	65.96	26.86	5.13	**1600**	69.30	28.16	4.47	**1600**	72.59	29.46	3.89
	67 (19.4)		50.63	30.18	7.50		53.95	31.68	6.54		57.12	33.14	5.70		60.22	34.57	4.96		63.25	35.99	4.32		66.21	37.38	3.75
	63 (17.2)		47.11	36.00	7.35		50.18	37.58	6.40		53.13	39.12	5.57		55.99	40.62	4.84		58.78	42.11	4.21		61.52	43.58	3.65
	57 (13.9)		43.16	43.16	7.19		45.55	45.55	6.23		47.97	47.63	5.40		50.44	49.37	4.69		52.86	51.01	4.06		55.26	52.62	3.52
80 (26.7)	72 (22.2)	**1600**	55.24	30.04	7.70	**1600**	58.86	31.53	6.73	**1600**	62.40	33.00	5.88	**1600**	65.82	34.44	5.13	**1600**	69.15	35.85	4.47	**1600**	72.44	37.26	3.89
	67 (19.4)		50.50	37.37	7.50		53.83	38.98	6.54		57.00	40.53	5.70		60.10	42.07	4.96		63.13	43.59	4.32		66.10	45.08	3.75
	63 (17.2)		47.09	43.10	7.35		50.13	44.81	6.40		53.07	46.46	5.57		55.91	48.08	4.84		58.70	49.67	4.21		61.44	51.25	3.65
	57 (13.9)		45.62	45.62	7.29		48.12	48.12	6.33		50.51	50.51	5.49		52.83	52.83	4.76		55.06	55.06	4.12		57.24	57.24	3.56
STAGE 3																									
75 (23.9)	72 (22.2)	**1350**	35.94	15.07	3.39	**1350**	38.40	15.98	3.08	**1350**	40.44	16.73	2.76	**1350**	42.79	17.61	2.51	**1350**	45.10	18.48	2.29	**1350**	47.36	19.34	2.08
	67 (19.4)		32.49	20.54	3.35		34.72	21.48	3.05		36.67	22.32	2.72		38.80	23.24	2.47		40.88	24.15	2.24		42.94	25.05	2.04
	63 (17.2)		29.95	24.83	3.33		32.01	25.81	3.03		33.87	26.70	2.69		35.85	27.65	2.44		37.78	28.59	2.22		39.68	29.52	2.01
	57 (13.9)		28.14	28.14	3.32		29.76	29.76	3.02		31.24	31.24	2.67		32.75	32.75	2.42		34.21	34.21	2.19		35.65	35.65	1.99
80 (26.7)	72 (22.2)	**1350**	35.82	20.59	3.39	**1350**	38.29	21.54	3.08	**1350**	40.32	22.34	2.76	**1350**	42.67	23.26	2.51	**1350**	44.98	24.17	2.29	**1350**	47.24	25.07	2.08
	67 (19.4)		32.39	26.01	3.35		34.62	26.99	3.05		36.56	27.87	2.72		38.70	28.83	2.47		40.78	29.77	2.24		42.84	30.72	2.04
	63 (17.2)		30.07	30.04	3.29		32.09	31.18	3.03		33.90	32.16	2.69		35.85	33.17	2.44		37.76	34.16	2.22		39.65	35.14	2.01
	57 (13.9)		30.02	30.02	3.33		31.70	31.70	3.03		33.22	33.22	2.68		34.80	34.80	2.43		36.33	36.33	2.21		37.82	37.82	2.00
STAGE 1																									
75 (23.9)	72 (22.2)	**1200**	26.64	11.34	1.89	**1200**	28.56	12.02	1.84	**975**	20.89	8.78	1.03	**975**	22.26	9.26	1.00	**975**	23.59	9.73	0.91	**975**	24.89	10.21	0.75
	67 (19.4)		23.86	15.71	1.89		25.60	16.40	1.84		18.63	11.93	1.02		19.89	12.40	1.00		21.11	12.85	0.92		22.30	13.31	0.77
	63 (17.2)		21.85	19.14	1.89		23.45	19.83	1.84		16.95	14.38	1.01		18.11	14.83	1.00		19.24	15.26	0.92		20.34	15.69	0.79
	57 (13.9)		20.91	20.91	1.88		22.14	22.14	1.84		15.97	15.97	1.01		16.81	16.81	1.00		17.62	17.62	0.94		18.38	18.38	0.81
80 (26.7)	72 (22.2)	**1200**	26.55	15.84	1.89	**1200**	28.46	16.52	1.84	**975**	20.81	12.06	1.03	**975**	22.18	12.52	1.00	**975**	23.51	12.97	0.91	**975**	24.81	13.42	0.75
	67 (19.4)		23.79	20.16	1.89		25.52	20.85	1.84		18.58	15.17	1.02		19.83	15.62	1.00		21.05	16.05	0.92		22.24	16.48	0.77
	63 (17.2)		22.48	22.48	1.89		23.77	23.77	1.84		17.25	17.25	1.01		18.20	17.98	1.00		19.28	18.43	0.92		20.35	18.85	0.79
	57 (13.9)		22.44	22.44	1.89		23.72	23.72	1.84		17.21	17.21	1.01		18.08	18.08	1.00		18.91	18.91	0.93		19.70	19.70	0.80

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

EDB °F (°C)	EVAP. AIR	24VNA913 / FE4ANF002L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																		
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)		
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	360	13.14	5.38	1.16	420	14.21	5.86	0.98	420	15.07	6.18	0.81	420	15.92	6.51	0.65	420	16.76	6.83	0.50
	67 (19.4)		11.86	7.01	1.16		12.84	7.79	0.98		13.61	8.13	0.82		14.37	8.46	0.67		15.11	8.79	0.53
	63 (17.2)		10.91	8.29	1.16		11.83	9.30	0.99		12.53	9.64	0.83		13.22	9.98	0.69		13.89	10.32	0.56
	57 (13.9)		9.88	9.88	1.16		10.89	10.89	0.99		11.42	11.42	0.84		11.93	11.93	0.71		12.42	12.42	0.59
80 (26.7)	72 (22.2)	360	13.10	7.04	1.16	420	14.16	7.81	0.98	420	15.02	8.15	0.81	420	15.87	8.49	0.65	420	16.71	8.83	0.50
	67 (19.4)		11.82	8.65	1.16		12.80	9.71	0.98		13.57	10.07	0.82		14.33	10.42	0.67		15.07	10.76	0.53
	63 (17.2)		10.90	9.92	1.16		11.84	11.20	0.99		12.54	11.57	0.83		13.22	11.93	0.69		13.88	12.28	0.56
	57 (13.9)		10.51	10.51	1.16		11.59	11.59	0.99		12.16	12.16	0.83		12.70	12.70	0.70		13.22	13.22	0.57
STAGE 3																					
75 (23.9)	72 (22.2)	300	10.85	4.45	0.90	360	11.86	4.92	0.77	360	12.61	5.20	0.65	360	13.33	5.47	0.54	360	14.04	5.74	0.43
	67 (19.4)		9.75	5.82	0.91		10.67	6.59	0.78		11.33	6.88	0.68		11.97	7.17	0.57		12.60	7.45	0.47
	63 (17.2)		8.96	6.90	0.91		9.81	7.90	0.79		10.40	8.20	0.69		10.98	8.49	0.60		11.55	8.78	0.50
	57 (13.9)		8.17	8.17	0.92		9.13	9.13	0.79		9.58	9.58	0.71		10.02	10.02	0.62		10.45	10.45	0.53
80 (26.7)	72 (22.2)	300	10.82	5.86	0.90	360	11.82	6.62	0.77	360	12.56	6.92	0.65	360	13.29	7.21	0.54	360	14.00	7.50	0.43
	67 (19.4)		9.73	7.22	0.91		10.64	8.28	0.78		11.30	8.59	0.68		11.94	8.89	0.57		12.57	9.19	0.47
	63 (17.2)		8.97	8.29	0.91		9.84	9.57	0.79		10.42	9.89	0.69		10.99	10.21	0.60		11.56	10.52	0.50
	57 (13.9)		8.70	8.70	0.91		9.73	9.73	0.79		10.22	10.22	0.69		10.68	10.68	0.60		11.14	11.14	0.51
STAGE 1																					
75 (23.9)	72 (22.2)	300	9.87	4.09	0.77	300	8.43	3.60	0.51	300	9.04	3.82	0.45	300	9.66	4.05	0.37	300	10.27	4.28	0.28
	67 (19.4)		8.87	5.49	0.78		7.60	5.04	0.52		8.15	5.28	0.46		8.69	5.52	0.39		9.22	5.76	0.32
	63 (17.2)		8.15	6.59	0.78		7.00	6.18	0.52		7.50	6.43	0.47		7.98	6.68	0.41		8.45	6.93	0.34
	57 (13.9)		7.59	7.59	0.78		6.74	6.74	0.52		7.15	7.15	0.47		7.53	7.53	0.42		7.89	7.89	0.36
80 (26.7)	72 (22.2)	300	9.83	5.52	0.77	300	8.39	5.05	0.51	300	9.00	5.30	0.45	300	9.62	5.55	0.37	300	10.23	5.80	0.28
	67 (19.4)		8.84	6.90	0.78		7.58	6.49	0.52		8.13	6.75	0.46		8.67	7.01	0.39		9.19	7.27	0.32
	63 (17.2)		8.17	7.99	0.78		7.22	7.22	0.52		7.65	7.65	0.47		8.07	8.07	0.41		8.49	8.42	0.34
	57 (13.9)		8.09	8.09	0.78		7.21	7.21	0.52		7.64	7.64	0.47		8.05	8.05	0.41		8.45	8.45	0.34

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA924B / FE4ANF002L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																		
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	**642**	24.23	9.92	2.44	**608**	25.33	10.31	2.12	**634**	26.93	10.95	1.84	**663**	28.54	11.60	1.58	**708**	30.28	12.32	1.33
	67 (19.4)		22.01	12.96	2.42		23.01	13.22	2.10		24.45	14.00	1.83		25.91	14.82	1.58		27.51	15.77	1.34
	63 (17.2)		20.38	15.34	2.39		21.31	15.50	2.08		22.64	16.40	1.82		24.00	17.33	1.57		25.48	18.47	1.35
	57 (13.9)		18.45	18.45	2.36		19.08	18.80	2.05		20.28	19.87	1.80		21.49	20.99	1.57		22.82	22.37	1.36
80 (26.7)	72 (22.2)	**642**	24.17	12.95	2.44	**608**	25.27	13.22	2.12	**634**	26.87	14.00	1.84	**663**	28.48	14.82	1.58	**708**	30.22	15.77	1.33
	67 (19.4)		21.96	15.96	2.42		22.96	16.09	2.10		24.40	17.02	1.83		25.86	17.99	1.58		27.45	19.17	1.34
	63 (17.2)		20.36	18.31	2.39		21.28	18.35	2.08		22.61	19.39	1.82		23.97	20.49	1.57		25.45	21.85	1.35
	57 (13.9)		19.56	19.56	2.38		20.08	20.08	2.07		21.29	21.29	1.81		22.54	22.54	1.57		23.97	23.97	1.35
STAGE 3																					
75 (23.9)	72 (22.2)	**437**	16.80	6.88	1.49	**415**	17.53	7.13	1.28	**437**	18.69	7.60	1.10	**456**	19.82	8.06	0.92	**484**	21.04	8.55	0.76
	67 (19.4)		15.18	8.96	1.50		15.85	9.13	1.28		16.89	9.72	1.11		17.91	10.28	0.95		18.99	10.93	0.79
	63 (17.2)		13.98	10.59	1.50		14.60	10.69	1.28		15.56	11.37	1.13		16.49	12.01	0.97		17.48	12.77	0.82
	57 (13.9)		12.63	12.63	1.49		12.99	12.94	1.29		13.83	13.75	1.14		14.64	14.51	1.00		15.53	15.43	0.86
80 (26.7)	72 (22.2)	**437**	16.75	8.99	1.49	**415**	17.48	9.16	1.28	**437**	18.64	9.75	1.10	**456**	19.77	10.32	0.92	**484**	20.98	10.97	0.76
	67 (19.4)		15.14	11.05	1.50		15.81	11.13	1.28		16.85	11.84	1.11		17.87	12.51	0.95		18.95	13.31	0.79
	63 (17.2)		13.97	12.66	1.50		14.59	12.68	1.28		15.54	13.48	1.13		16.47	14.23	0.97		17.46	15.14	0.82
	57 (13.9)		13.43	13.43	1.50		13.78	13.78	1.29		14.66	14.66	1.13		15.51	15.51	0.99		16.47	16.47	0.84
STAGE 1																					
75 (23.9)	72 (22.2)	**362**	13.91	5.70	1.21	**222**	8.34	3.43	0.52	**234**	8.89	3.65	0.44	**229**	9.31	3.80	0.37	**245**	9.90	4.05	0.29
	67 (19.4)		12.50	7.42	1.22		7.48	4.49	0.53		7.97	4.78	0.46		8.34	4.91	0.40		8.86	5.24	0.33
	63 (17.2)		11.48	8.77	1.22		6.85	5.34	0.53		7.30	5.67	0.47		7.63	5.79	0.41		8.11	6.18	0.35
	57 (13.9)		10.41	10.41	1.22		6.25	6.25	0.54		6.65	6.65	0.48		6.87	6.87	0.43		7.32	7.32	0.37
80 (26.7)	72 (22.2)	**362**	13.87	7.46	1.21	**222**	8.31	4.53	0.52	**234**	8.86	4.82	0.44	**229**	9.28	4.96	0.37	**245**	9.87	5.29	0.29
	67 (19.4)		12.47	9.17	1.22		7.45	5.59	0.53		7.94	5.94	0.46		8.31	6.06	0.40		8.83	6.48	0.33
	63 (17.2)		11.48	10.51	1.22		6.85	6.43	0.53		7.30	6.83	0.47		7.62	6.93	0.41		8.10	7.41	0.35
	57 (13.9)		11.08	11.08	1.22		6.68	6.68	0.54		7.10	7.10	0.48		7.33	7.33	0.42		7.81	7.81	0.36

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA925 / FE4ANF005 Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																	
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW
STAGE 5																					
75 (23.9)	72 (22.2)	608	19.25	8.01	1.62	608	25.24	10.26	1.88	634	26.68	10.84	1.61	663	28.11	11.43	1.34	708	29.64	12.06	1.07
	67 (19.4)		17.48	10.88	1.63		22.98	13.18	1.89		24.31	13.92	1.63		25.64	14.68	1.38		27.06	15.57	1.13
	63 (17.2)		16.21	13.13	1.64		21.29	15.45	1.90		22.54	16.31	1.65		23.79	17.21	1.41		25.13	18.30	1.17
	57 (13.9)		15.18	15.18	1.65		19.10	18.78	1.90		20.23	19.83	1.66		21.37	20.92	1.44		22.62	22.29	1.21
80 (26.7)	72 (22.2)	608	19.12	10.84	1.61	608	25.12	13.12	1.88	634	26.55	13.85	1.60	663	27.98	14.60	1.33	708	29.49	15.47	1.07
	67 (19.4)		17.42	13.69	1.63		22.91	16.02	1.89		24.24	16.91	1.63		25.56	17.83	1.38		26.97	18.96	1.13
	63 (17.2)		16.26	15.91	1.64		21.26	18.28	1.90		22.51	19.29	1.65		23.76	20.35	1.41		25.10	21.68	1.17
	57 (13.9)		16.12	16.12	1.64		20.08	20.08	1.90		21.23	21.23	1.66		22.41	22.41	1.42		23.77	23.77	1.19
STAGE 3																					
75 (23.9)	72 (22.2)	437	15.62	6.37	1.16	437	16.33	6.64	1.03	452	17.27	7.02	0.91	475	18.26	7.42	0.78	510	19.32	7.87	0.62
	67 (19.4)		14.19	8.25	1.17		14.88	8.57	1.04		15.74	9.03	0.94		16.66	9.56	0.82		17.64	10.18	0.68
	63 (17.2)		13.12	9.74	1.18		13.79	10.07	1.05		14.60	10.61	0.96		15.46	11.23	0.85		16.38	12.00	0.71
	57 (13.9)		11.80	11.80	1.18		12.35	12.27	1.06		13.08	12.91	0.97		13.87	13.68	0.88		14.74	14.65	0.76
80 (26.7)	72 (22.2)	437	15.55	8.23	1.16	437	16.25	8.52	1.02	452	17.19	8.98	0.91	475	18.17	9.50	0.78	510	19.23	10.12	0.62
	67 (19.4)		14.14	10.11	1.17		14.83	10.44	1.04		15.69	10.99	0.94		16.60	11.63	0.82		17.57	12.43	0.67
	63 (17.2)		13.11	11.59	1.18		13.77	11.94	1.05		14.58	12.56	0.96		15.44	13.30	0.85		16.36	14.24	0.71
	57 (13.9)		12.51	12.51	1.18		13.05	13.05	1.05		13.78	13.78	0.97		14.60	14.60	0.86		15.55	15.55	0.74
STAGE 1 – FE4ANF005 ONLY																					
75 (23.9)	72 (22.2)	342	6.36	2.59	0.47	250	9.26	3.75	0.47	250	9.75	3.95	0.47	250	10.23	4.15	0.43	250	10.72	4.35	0.36
	67 (19.4)		10.72	6.18	0.76		8.39	4.68	0.48		8.84	4.89	0.49		9.27	5.09	0.47		9.70	5.30	0.40
	63 (17.2)		9.90	7.24	0.76		7.74	5.40	0.49		8.15	5.61	0.51		8.56	5.83	0.49		8.96	6.04	0.44
	57 (13.9)		8.82	8.81	0.77		6.85	6.46	0.49		7.22	6.68	0.52		7.59	6.90	0.52		7.95	7.12	0.48
80 (26.7)	72 (22.2)	342	11.79	6.17	0.75	250	9.23	4.68	0.47	250	9.72	4.88	0.47	250	10.20	5.09	0.43	250	10.68	5.30	0.36
	67 (19.4)		10.69	7.53	0.76		8.37	5.60	0.48		8.81	5.82	0.49		9.25	6.03	0.47		9.68	6.24	0.40
	63 (17.2)		9.88	8.60	0.76		7.72	6.32	0.49		8.14	6.54	0.51		8.54	6.76	0.49		8.95	6.98	0.44
	57 (13.9)		9.35	9.35	0.77		7.09	7.09	0.49		7.40	7.40	0.52		7.70	7.70	0.51		8.00	8.00	0.48
STAGE 1 – ALL OTHER INDOOR COMBINATIONS																					
75 (23.9)	72 (22.2)	342	3.18	1.29	0.24	222	8.99	3.64	0.47	234	9.59	3.89	0.48	229	9.99	4.06	0.44	245	10.66	4.33	0.36
	67 (19.4)		10.72	6.18	0.76		8.13	4.46	0.48		8.68	4.76	0.50		9.04	4.92	0.48		9.65	5.25	0.41
	63 (17.2)		9.90	7.24	0.76		7.49	5.09	0.49		8.00	5.44	0.51		8.34	5.58	0.50		8.91	5.98	0.44
	57 (13.9)		8.82	8.81	0.77		6.63	6.02	0.49		7.09	6.43	0.52		7.39	6.56	0.52		7.90	7.04	0.48
80 (26.7)	72 (22.2)	342	11.79	6.17	0.75	222	8.96	4.47	0.47	234	9.55	4.76	0.47	229	9.96	4.92	0.44	245	10.62	5.26	0.36
	67 (19.4)		10.69	7.53	0.76		8.11	5.28	0.48		8.66	5.63	0.50		9.02	5.78	0.48		9.63	6.18	0.41
	63 (17.2)		9.88	8.60	0.76		7.48	5.91	0.49		7.99	6.31	0.51		8.33	6.44	0.50		8.89	6.91	0.44
	57 (13.9)		9.35	9.35	0.77		6.73	6.73	0.49		7.19	7.19	0.52		7.40	7.40	0.52		7.93	7.93	0.48

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA936 / FE4ANF005 Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																		
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)		
	EWB °F (°C)	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Capacity MBtuh Sens‡	Total Sys. KW
STAGE 5																					
75 (23.9)	72 (22.2)	**812**	35.03	14.21	3.80	**812**	36.79	14.91	3.28	**848**	38.97	15.79	2.81	**887**	41.14	16.67	2.38	**948**	43.43	17.61	1.97
	67 (19.4)		32.03	18.10	3.76		33.69	18.87	3.26		35.70	19.98	2.81		37.69	21.10	2.39		39.83	22.39	2.00
	63 (17.2)		29.78	21.12	3.72		31.34	21.94	3.23		33.23	23.22	2.80		35.10	24.53	2.40		37.11	26.09	2.02
	57 (13.9)		26.68	25.51	3.66		28.08	26.39	3.19		29.78	27.92	2.78		31.49	29.50	2.40		33.35	31.47	2.04
80 (26.7)	72 (22.2)	**812**	34.90	17.98	3.79	**812**	36.65	18.72	3.28	**848**	38.82	19.81	2.81	**887**	40.98	20.92	2.37	**948**	43.26	22.19	1.97
	67 (19.4)		31.95	21.83	3.75		33.60	22.64	3.25		35.61	23.95	2.81		37.60	25.30	2.39		39.72	26.91	2.00
	63 (17.2)		29.73	24.84	3.72		31.29	25.70	3.23		33.16	27.18	2.80		35.04	28.72	2.39		37.04	30.61	2.02
	57 (13.9)		27.71	27.71	3.68		28.95	28.95	3.20		30.66	30.66	2.78		32.41	32.41	2.40		34.42	34.42	2.04
STAGE 3																					
75 (23.9)	72 (22.2)	**566**	21.74	8.83	1.80	**566**	22.72	9.22	1.63	**600**	24.20	9.82	1.47	**626**	25.61	10.39	1.30	**664**	27.10	11.00	1.09
	67 (19.4)		19.76	11.28	1.80		20.72	11.74	1.64		22.09	12.54	1.49		23.39	13.27	1.33		24.77	14.10	1.14
	63 (17.2)		18.28	13.20	1.80		19.22	13.70	1.63		20.51	14.65	1.50		21.73	15.51	1.35		23.02	16.51	1.18
	57 (13.9)		16.37	16.02	1.79		17.25	16.59	1.63		18.42	17.76	1.51		19.53	18.80	1.37		20.72	20.04	1.21
80 (26.7)	72 (22.2)	**566**	21.65	11.25	1.80	**566**	22.62	11.67	1.63	**600**	24.08	12.45	1.47	**626**	25.49	13.17	1.29	**664**	26.96	13.99	1.09
	67 (19.4)		19.70	13.69	1.80		20.66	14.18	1.63		22.03	15.15	1.49		23.32	16.03	1.33		24.69	17.07	1.14
	63 (17.2)		18.26	15.60	1.80		19.20	16.13	1.63		20.48	17.26	1.50		21.70	18.27	1.35		22.99	19.47	1.17
	57 (13.9)		17.18	17.18	1.80		17.96	17.96	1.63		19.20	19.20	1.50		20.34	20.34	1.36		21.61	21.61	1.20
STAGE 1 – FE4ANF005 ONLY																					
75 (23.9)	72 (22.2)	**417**	14.50	5.90	0.99	**250**	9.48	3.84	0.49	**250**	10.07	4.08	0.49	**250**	10.66	4.32	0.45	**267**	11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.59	4.79	0.50		9.13	5.04	0.52		9.66	5.30	0.49		10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.92	5.53	0.51		8.42	5.80	0.53		8.92	6.07	0.51		9.60	6.55	0.45
	57 (13.9)		10.89	10.84	1.01		7.02	6.61	0.52		7.46	6.90	0.55		7.91	7.19	0.54		8.52	7.77	0.49
80 (26.7)	72 (22.2)	**417**	14.44	7.57	0.99	**250**	9.44	4.79	0.49	**250**	10.03	5.04	0.49	**250**	10.62	5.30	0.45	**267**	11.43	5.71	0.35
	67 (19.4)		13.13	9.25	1.00		8.56	5.73	0.50		9.10	6.01	0.52		9.64	6.28	0.49		10.36	6.78	0.41
	63 (17.2)		12.16	10.56	1.00		7.91	6.47	0.51		8.41	6.76	0.53		8.91	7.05	0.51		9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.26	7.26	0.52		7.64	7.64	0.54		8.03	8.03	0.54		8.66	8.66	0.48
STAGE 1 – ALL OTHER INDOOR COMBINATIONS																					
75 (23.9)	72 (22.2)	**417**	14.50	5.90	0.99	**236**	9.35	3.79	0.49	**232**	9.88	4.01	0.50	**246**	10.62	4.30	0.45	**267**	11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.46	4.68	0.50		8.94	4.90	0.52		9.62	5.27	0.49		10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.80	5.37	0.51		8.25	5.59	0.53		8.88	6.02	0.51		9.60	6.55	0.45
	57 (13.9)		10.89	10.84	1.01		6.91	6.39	0.52		7.30	6.60	0.55		7.87	7.12	0.54		8.52	7.77	0.49
80 (26.7)	72 (22.2)	**417**	14.44	7.57	0.99	**236**	9.31	4.68	0.49	**232**	9.84	4.90	0.50	**246**	10.58	5.27	0.45	**267**	11.43	5.71	0.35
	67 (19.4)		13.13	9.25	1.00		8.44	5.57	0.50		8.92	5.79	0.52		9.60	6.23	0.49		10.36	6.78	0.41
	63 (17.2)		12.16	10.56	1.00		7.79	6.26	0.51		8.23	6.48	0.53		8.87	6.98	0.51		9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.08	7.08	0.52		7.39	7.39	0.55		7.97	7.97	0.54		8.66	8.66	0.48

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA937 / FE4ANB006L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																		
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	**812**	33.61	13.66	2.96	**812**	35.51	14.41	2.51	**848**	37.87	15.36	2.15	**888**	40.27	16.34	1.81	**948**	42.86	17.40	1.51
	67 (19.4)		30.54	17.52	2.94		32.28	18.33	2.50		34.42	19.52	2.15		36.60	20.75	1.83		38.94	22.16	1.53
	63 (17.2)		28.29	20.54	2.93		29.92	21.40	2.49		31.90	22.77	2.15		33.91	24.19	1.84		36.07	25.89	1.55
	57 (13.9)		25.29	24.94	2.90		26.74	25.90	2.47		28.50	27.52	2.15		30.29	29.23	1.85		32.24	31.32	1.58
80 (26.7)	72 (22.2)	**812**	33.51	17.49	2.96	**812**	35.42	18.30	2.51	**848**	37.77	19.49	2.15	**888**	40.17	20.72	1.81	**948**	42.74	22.14	1.51
	67 (19.4)		30.47	21.31	2.94		32.21	22.18	2.50		34.35	23.59	2.15		36.52	25.07	1.83		38.86	26.84	1.53
	63 (17.2)		28.24	24.31	2.93		29.87	25.23	2.49		31.85	26.83	2.15		33.86	28.50	1.84		36.02	30.55	1.55
	57 (13.9)		26.63	26.63	2.91		27.94	27.94	2.48		29.75	29.75	2.15		31.61	31.61	1.84		33.74	33.74	1.57
STAGE 3																					
75 (23.9)	72 (22.2)	**566**	22.84	9.26	2.06	**566**	24.29	9.84	1.72	**600**	26.09	10.57	1.47	**625**	27.82	11.27	1.23	**665**	29.72	12.04	1.01
	67 (19.4)		20.67	11.68	2.07		21.98	12.30	1.74		23.60	13.23	1.50		25.16	14.10	1.28		26.87	15.10	1.07
	63 (17.2)		19.09	13.58	2.08		20.29	14.24	1.75		21.79	15.33	1.52		23.23	16.32	1.31		24.80	17.51	1.11
	57 (13.9)		17.03	16.40	2.08		18.10	17.12	1.77		19.44	18.43	1.55		20.71	19.61	1.34		22.12	21.08	1.15
80 (26.7)	72 (22.2)	**566**	22.78	11.70	2.06	**566**	24.23	12.32	1.72	**600**	26.03	13.26	1.47	**625**	27.76	14.13	1.23	**665**	29.64	15.14	1.01
	67 (19.4)		20.62	14.10	2.07		21.93	14.77	1.74		23.55	15.90	1.50		25.10	16.93	1.28		26.81	18.18	1.07
	63 (17.2)		19.06	15.99	2.08		20.27	16.70	1.75		21.76	17.98	1.52		23.20	19.14	1.31		24.77	20.57	1.11
	57 (13.9)		17.76	17.76	2.08		18.73	18.73	1.76		20.14	20.14	1.54		21.44	21.44	1.33		22.97	22.97	1.14
STAGE 1 – FE4ANB006L ONLY																					
75 (23.9)	72 (22.2)	**500**	18.14	7.36	1.70	**500**	14.63	6.00	0.87	**500**	15.69	6.41	0.72	**500**	16.75	6.83	0.57	**500**	17.81	7.24	0.44
	67 (19.4)		16.41	9.34	1.72		13.27	7.90	0.91		14.22	8.36	0.76		15.17	8.83	0.63		16.11	9.29	0.50
	63 (17.2)		15.16	10.91	1.74		12.27	9.39	0.93		13.14	9.90	0.80		14.01	10.41	0.66		14.88	10.91	0.54
	57 (13.9)		13.54	13.23	1.75		11.20	11.20	0.96		11.91	11.91	0.83		12.61	12.61	0.71		13.31	13.30	0.59
80 (26.7)	72 (22.2)	**500**	18.09	9.36	1.70	**500**	14.58	7.89	0.87	**500**	15.64	8.36	0.72	**500**	16.70	8.83	0.57	**500**	17.75	9.31	0.44
	67 (19.4)		16.37	11.32	1.72		13.23	9.78	0.91		14.18	10.30	0.76		15.12	10.82	0.63		16.07	11.34	0.50
	63 (17.2)		15.14	12.88	1.74		12.26	11.27	0.93		13.13	11.83	0.80		14.00	12.39	0.66		14.87	12.96	0.54
	57 (13.9)		14.21	14.21	1.74		11.88	11.88	0.94		12.62	12.62	0.81		13.36	13.36	0.68		14.09	14.09	0.57
STAGE 1 – ALL OTHER INDOOR COMBINATIONS																					
75 (23.9)	72 (22.2)	**417**	17.38	7.04	1.70	**236**	12.07	4.96	0.92	**232**	12.74	5.27	0.79	**246**	13.77	5.69	0.66	**267**	14.98	6.17	0.52
	67 (19.4)		15.72	8.68	1.72		10.91	5.83	0.95		11.51	6.14	0.83		12.45	6.65	0.70		13.53	7.24	0.57
	63 (17.2)		14.53	9.98	1.73		10.07	6.52	0.97		10.63	6.83	0.85		11.49	7.40	0.73		12.49	8.08	0.61
	57 (13.9)		12.94	11.91	1.74		8.96	7.52	0.98		9.45	7.84	0.87		10.21	8.50	0.76		11.10	9.31	0.65
80 (26.7)	72 (22.2)	**417**	17.34	8.70	1.70	**236**	12.04	5.86	0.92	**232**	12.71	6.17	0.79	**246**	13.75	6.68	0.66	**267**	14.95	7.27	0.52
	67 (19.4)		15.69	10.34	1.72		10.89	6.72	0.95		11.49	7.05	0.83		12.43	7.63	0.70		13.51	8.33	0.57
	63 (17.2)		14.50	11.63	1.73		10.05	7.40	0.97		10.61	7.73	0.85		11.47	8.38	0.73		12.47	9.17	0.61
	57 (13.9)		13.22	13.22	1.74		8.95	8.40	0.98		9.44	8.73	0.87		10.21	9.47	0.76		11.09	10.40	0.65

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA948 / FE4BNB006 Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																	
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	1110	46.42	18.85	4.71	1184	49.80	20.23	4.17	1247	53.09	21.57	3.65	1330	56.46	22.96	3.19	1226	58.44	23.68	2.67
	67 (19.4)		42.40	24.08	4.63		45.50	25.89	4.11		48.51	27.62	3.61		51.61	29.50	3.17		53.38	29.85	2.67
	63 (17.2)		39.38	28.15	4.57		42.27	30.30	4.06		45.08	32.33	3.58		47.99	34.60	3.15		49.62	34.64	2.66
	57 (13.9)		35.31	34.09	4.47		37.94	36.72	3.98		40.49	39.19	3.53		43.14	41.99	3.12		44.52	41.65	2.64
80 (26.7)	72 (22.2)	1110	46.26	23.95	4.71	1184	49.62	25.75	4.16	1247	52.90	27.46	3.65	1330	56.25	29.32	3.19	1226	58.25	29.68	2.67
	67 (19.4)		42.29	29.13	4.63		45.38	31.35	4.10		48.38	33.45	3.61		51.47	35.79	3.17		53.26	35.77	2.67
	63 (17.2)		39.31	33.18	4.57		42.20	35.74	4.06		45.01	38.14	3.58		47.91	40.87	3.15		49.54	40.54	2.66
	57 (13.9)		36.80	36.80	4.51		39.58	39.58	4.01		42.24	42.24	3.55		45.10	45.10	3.13		45.76	45.76	2.65
STAGE 3																					
75 (23.9)	72 (22.2)	744	29.62	12.03	2.44	801	31.87	12.96	2.16	842	34.08	13.86	1.91	887	36.31	14.77	1.66	1001	38.96	15.92	1.43
	67 (19.4)		26.97	15.41	2.44		29.06	16.68	2.16		31.09	17.85	1.92		33.14	19.06	1.68		35.59	20.85	1.46
	63 (17.2)		24.98	18.04	2.43		26.95	19.58	2.15		28.84	20.96	1.92		30.75	22.40	1.70		33.06	24.69	1.49
	57 (13.9)		22.33	21.88	2.41		24.13	23.80	2.14		25.84	25.48	1.92		27.58	27.24	1.71		29.92	29.92	1.51
80 (26.7)	72 (22.2)	744	29.51	15.35	2.44	801	31.74	16.60	2.15	842	33.93	17.76	1.91	887	36.15	18.96	1.66	1001	38.77	20.72	1.43
	67 (19.4)		26.90	18.70	2.44		28.98	20.29	2.15		31.00	21.72	1.92		33.04	23.21	1.68		35.47	25.60	1.46
	63 (17.2)		34.45	25.97	4.20		26.90	23.17	2.15		28.79	24.81	1.92		30.70	26.53	1.70		33.02	29.42	1.49
	57 (13.9)		30.79	29.76	4.10		33.37	32.41	3.78		35.77	34.73	3.46		38.24	37.17	3.15		41.59	41.26	2.86
STAGE 1 – FE4ANB006 ONLY																					
75 (23.9)	72 (22.2)	662	25.60	10.40	1.99	500	18.27	7.44	0.93	500	19.44	7.91	0.83	508	20.67	8.39	0.71	534	22.04	8.96	0.56
	67 (19.4)		23.27	13.31	1.99		16.64	9.65	0.95		17.72	10.17	0.86		18.84	10.76	0.75		20.11	11.51	0.61
	63 (17.2)		21.53	15.58	1.99		15.45	11.39	0.97		16.45	11.96	0.88		17.49	12.62	0.77		18.68	13.53	0.65
	57 (13.9)		19.26	18.92	1.98		13.90	13.90	0.98		14.76	14.58	0.90		15.69	15.35	0.81		16.77	16.48	0.70
80 (26.7)	72 (22.2)	662	25.60	10.40	1.99	500	18.26	7.44	0.93	500	19.44	7.91	0.83	508	20.67	8.39	0.71	534	22.04	8.96	0.56
	67 (19.4)		23.27	13.31	1.99		16.64	9.65	0.95		17.72	10.17	0.86		18.84	10.76	0.75		20.11	11.51	0.61
	63 (17.2)		21.53	15.58	1.99		15.45	11.39	0.97		16.45	11.96	0.88		17.49	12.62	0.77		18.68	13.53	0.65
	57 (13.9)		19.26	18.92	1.98		13.90	13.90	0.98		14.76	14.58	0.90		15.69	15.35	0.81		16.77	16.48	0.70
STAGE 1 – ALL OTHER COILS																					
75 (23.9)	72 (22.2)	662	25.60	10.40	1.99	457	17.95	7.29	0.93	482	19.30	7.84	0.83	508	20.67	8.39	0.71	534	22.04	8.96	0.56
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70
80 (26.7)	72 (22.2)	662	25.60	10.40	1.99	457	17.95	7.29	0.93	482	19.30	7.84	0.83	508	20.67	8.39	0.71	534	22.04	8.96	0.56
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 5 – Compressor speed limited to stage four at 65 outdoor. **Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA949 / *CNPV*6024AL*+58CV(A, X)155–22 Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																	
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	**1110**	46.69	19.03	4.05	**1184**	49.03	19.99	3.61	**1196**	50.82	20.67	3.20	**1200**	52.44	21.29	2.83	**1236**	54.18	21.99	2.52
	67 (19.4)		42.37	24.54	3.98		44.50	25.79	3.55		46.13	26.47	3.14		47.59	27.05	2.77		49.16	27.84	2.47
	63 (17.2)		39.20	28.86	3.94		41.17	30.33	3.51		42.67	31.00	3.10		44.02	31.54	2.74		45.47	32.41	2.44
	57 (13.9)		35.30	35.19	3.89		37.12	36.99	3.46		38.37	37.72	3.05		39.47	38.20	2.69		40.73	39.17	2.39
80 (26.7)	72 (22.2)	**1110**	46.59	24.56	4.05	**1184**	48.93	25.81	3.61	**1196**	50.72	26.49	3.20	**1200**	52.34	27.07	2.83	**1236**	54.08	27.87	2.52
	67 (19.4)		42.29	30.00	3.98		44.41	31.53	3.55		46.04	32.21	3.14		47.51	32.74	2.77		49.07	33.63	2.47
	63 (17.2)		39.24	34.32	3.94		41.22	36.08	3.51		42.71	36.75	3.10		44.03	37.24	2.74		45.49	38.20	2.44
	57 (13.9)		37.41	37.41	3.92		39.33	39.33	3.49		40.47	40.47	3.07		41.42	41.42	2.71		42.65	42.65	2.41
STAGE 3																					
75 (23.9)	72 (22.2)	**744**	30.83	12.50	2.33	**801**	32.85	13.32	2.05	**842**	34.76	14.09	1.82	**887**	36.68	14.86	1.61	**1001**	39.12	15.87	1.43
	67 (19.4)		27.67	15.62	2.33		29.56	16.69	2.04		31.29	17.62	1.81		33.04	18.56	1.60		35.28	20.03	1.43
	63 (17.2)		25.33	18.03	2.32		27.09	19.29	2.03		28.71	20.34	1.81		30.31	21.41	1.61		32.39	23.23	1.44
	57 (13.9)		22.37	21.65	2.32		23.97	23.17	2.03		25.40	24.38	1.81		26.83	25.65	1.61		28.78	28.01	1.44
80 (26.7)	72 (22.2)	**744**	30.77	15.75	2.33	**801**	32.78	16.79	2.05	**842**	34.69	17.72	1.82	**887**	36.60	18.67	1.61	**1001**	39.04	20.14	1.43
	67 (19.4)		27.61	18.83	2.33		29.50	20.12	2.04		31.23	21.20	1.81		32.98	22.32	1.60		35.21	24.23	1.43
	63 (17.2)		25.33	21.25	2.32		27.10	22.73	2.03		28.71	23.93	1.81		30.32	25.17	1.61		32.41	27.44	1.43
	57 (13.9)		23.54	23.54	2.32		25.21	25.21	2.03		26.63	26.63	1.81		28.08	28.08	1.61		30.35	30.35	1.44
STAGE 1																					
75 (23.9)	72 (22.2)	**662**	23.83	9.66	1.63	**457**	17.67	7.17	1.02	**482**	19.19	7.80	0.93	**508**	20.76	8.45	0.80	**535**	22.37	9.11	0.61
	67 (19.4)		21.23	12.07	1.64		15.73	8.59	1.01		17.11	9.31	0.93		18.52	10.05	0.81		19.97	10.81	0.63
	63 (17.2)		19.35	13.95	1.64		14.34	9.71	1.00		15.61	10.49	0.93		16.90	11.30	0.82		18.23	12.13	0.66
	57 (13.9)		17.03	16.78	1.63		12.49	11.34	0.99		13.61	12.23	0.94		14.76	13.14	0.84		15.94	14.09	0.69
80 (26.7)	72 (22.2)	**662**	23.77	12.23	1.63	**457**	17.63	8.73	1.02	**482**	19.16	9.45	0.93	**508**	20.73	10.20	0.80	**535**	22.33	10.97	0.61
	67 (19.4)		21.18	14.61	1.64		15.71	10.14	1.01		17.08	10.95	0.93		18.49	11.79	0.81		19.94	12.65	0.63
	63 (17.2)		19.36	16.50	1.64		14.33	11.25	1.00		15.59	12.13	0.93		16.89	13.04	0.82		18.22	13.97	0.66
	57 (13.9)		18.08	18.08	1.63		12.74	12.74	0.99		13.79	13.79	0.94		14.88	14.88	0.83		16.03	15.95	0.69

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 25

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP. AIR	24VNA960 / FE4BNB006L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																		
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)			
	EWB °F (°C)	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW	ID SCFM	Capacity MBtuh		Total Sys. KW
			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡			Total	Sens‡	
STAGE 5																					
75 (23.9)	72 (22.2)	**1367**	57.74	23.45	6.51	**1440**	61.60	25.02	5.73	**1514**	65.43	26.57	5.06	**1566**	69.11	28.06	4.43	**1488**	71.73	29.06	3.80
	67 (19.4)		52.75	29.96	6.32		56.26	31.94	5.56		59.74	33.92	4.89		63.08	35.74	4.28		65.39	36.48	3.66
	63 (17.2)		49.06	35.05	6.19		52.31	37.35	5.43		55.53	39.67	4.77		58.62	41.74	4.17		60.75	42.26	3.56
	57 (13.9)		44.14	42.48	6.02		47.05	45.25	5.27		49.93	48.04	4.62		52.69	50.49	4.02		54.52	50.74	3.43
80 (26.7)	72 (22.2)	**1367**	57.61	29.82	6.52	**1440**	61.47	31.80	5.74	**1514**	65.28	33.78	5.06	**1566**	68.97	35.61	4.43	**1488**	71.59	36.37	3.80
	67 (19.4)		52.65	36.25	6.32		56.15	38.64	5.56		59.62	41.04	4.89		62.96	43.19	4.28		65.29	43.67	3.66
	63 (17.2)		48.99	41.31	6.19		52.23	44.02	5.43		55.45	46.75	4.77		58.54	49.15	4.17		60.67	49.42	3.56
	57 (13.9)		45.90	45.90	6.08		48.92	48.92	5.33		51.93	51.93	4.67		54.72	54.72	4.07		55.91	55.91	3.46
STAGE 3																					
75 (23.9)	72 (22.2)	**959**	36.98	15.01	3.25	**1013**	39.25	15.94	2.79	**1066**	41.77	16.95	2.44	**1120**	44.28	17.97	2.13	**1210**	47.05	19.11	1.87
	67 (19.4)		33.40	19.03	3.22		35.55	20.23	2.75		37.83	21.50	2.39		40.10	22.76	2.09		42.62	24.30	1.84
	63 (17.2)		30.77	22.16	3.21		32.82	23.59	2.72		34.94	25.04	2.37		37.04	26.50	2.06		39.38	28.36	1.81
	57 (13.9)		27.31	26.75	3.18		29.19	28.48	2.69		31.09	30.22	2.34		32.99	31.96	2.04		35.10	34.26	1.79
80 (26.7)	72 (22.2)	**959**	36.89	19.10	3.25	**1013**	39.15	20.27	2.79	**1066**	41.66	21.53	2.44	**1120**	44.17	22.80	2.13	**1210**	46.93	24.34	1.87
	67 (19.4)		33.32	23.06	3.22		35.47	24.51	2.75		37.74	26.01	2.39		40.02	27.53	2.09		42.53	29.47	1.84
	63 (17.2)		30.72	26.18	3.21		32.77	27.85	2.72		34.89	29.54	2.37		36.99	31.25	2.06		39.33	33.50	1.81
	57 (13.9)		28.74	28.74	3.19		30.65	30.65	2.70		32.58	32.58	2.35		34.53	34.53	2.05		36.85	36.85	1.80
STAGE 1																					
75 (23.9)	72 (22.2)	**748**	27.11	11.00	2.21	**600**	19.91	8.07	1.22	**600**	20.99	8.50	1.01	**647**	22.49	9.11	0.80	**700**	24.02	9.73	0.59
	67 (19.4)		24.28	13.80	2.21		17.69	10.04	1.21		18.67	10.45	1.01		20.04	11.19	0.81		21.43	11.97	0.61
	63 (17.2)		22.21	15.99	2.20		16.05	11.57	1.21		16.97	11.96	1.01		18.23	12.81	0.82		19.53	13.71	0.62
	57 (13.9)		19.51	19.20	2.20		13.98	13.85	1.20		14.76	14.19	1.02		15.88	15.20	0.84		17.03	16.27	0.65
80 (26.7)	72 (22.2)	**748**	27.04	13.93	2.21	**600**	19.86	10.20	1.22	**600**	20.94	10.61	1.01	**647**	22.43	11.35	0.80	**700**	23.96	12.13	0.59
	67 (19.4)		24.22	16.71	2.21		17.65	12.16	1.21		18.63	12.54	1.01		19.99	13.42	0.81		21.39	14.35	0.61
	63 (17.2)		22.18	18.88	2.20		16.04	13.68	1.21		16.95	14.04	1.01		18.21	15.03	0.82		19.50	16.08	0.62
	57 (13.9)		20.65	20.65	2.20		14.90	14.90	1.20		15.50	15.50	1.02		16.63	16.63	0.83		17.82	17.82	0.64

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 5 – Compressor speed limited to stage four at 65 outdoor. **Stage 1** – Compressor speed limited to stage two at 105 outdoor.

NOTES:

* Tested combination.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities are shown for both 80°F (27°C) and 75°F (23.4°C) entering air at the indoor coil.
For sensible capacities at other than these, deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above reference temperature.

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240–2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

** System kw is total of indoor and outdoor unit kilowatts.

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

EWB — Entering Wet Bulb

GUIDE SPECIFICATIONS
GENERAL

System Description

Outdoor-mounted, air-cooled, split-system air conditioning unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, forward-swept blade propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

- Factory-assembled, single-piece, air-cooled air conditioning unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A) refrigerant, and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

Fans

- Condenser fan will be direct-drive propeller type, forward swept blade, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated.
- Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, charge compensator, electronic expansion valve, and reversing valve.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron® refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.
- Compliant with IEC 61000-4-5 Transient Surge Requirement.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.
- Infinity control with appropriate software version is required for full featured operation.

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is not qualified for low ambient cooling operation.
   Minimum cooling outdoor operating temperatures:
   - Communicating systems: 40°F (4.44°C)
   - Non-communicating systems: 55°F (12.8°C)
3. For reliable operation, unit should be level in all horizontal planes.
4. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
5. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
6. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
7. Do not apply capillary tube indoor coils to these units.
8. Puron refrigerant TXV required on indoor coil.

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Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Replaces: 24VNA9–08PD

38MBR
Outdoor Unit Single Zone Ductless System
Sizes 36 to 58

Carrier
turn to the experts

Product Data



Fig. 1 – Size 36



Fig. 2 – Sizes 48 and 58

NOTE: Images are for illustration purposes only. Actual models may differ slightly.

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INDUSTRY LEADING FEATURES / BENEFITS

A PERFECT BALANCE BETWEEN BUDGET LIMITS, ENERGY SAVINGS AND COMFORT.

The 38MBR series ductless systems are a matched combination of an outdoor condensing unit and an indoor fan coil unit connected only by refrigerant tubing and wires.

The ductless system permits creative solutions to design problems such as:

- Add−ons to current space (an office or family room addition)
- Special space requirements
- When changes in the load cannot be handled by the existing system
- When adding air conditioning to spaces that are heated by hydronic or electric heat and have no ductwork
- Historical renovations or any application where preserving the look of the original structure is essential.

The ideal compliment to your ducted style ductless system when it is impractical or prohibitively expensive to use ductwork.

The compact indoor fan coil units take up very little space in the room and do not obstruct windows. The fan coils are attractively styled to blend with most room decors. Advanced system components incorporate innovative technology to provide reliable cooling performance at low sound levels.

Inverter Technology

The inverter driven compressor is designed to run at various input power frequencies (Hz) which controls the compressor's motor speed.

Even Temperature – The control package, including the inverter, monitors the outdoor and indoor temperatures as they relate to the selected indoor set point and adjusts the compressor speed to match the load and keep the system operating continuously rather than cycling and creating temperature swings. This translates to higher comfort levels for the occupants.

Rapid Pull Down/Warm−Up – Comfort is increased by the inverter system's ability to ramp up the compressor speed enabling the system to reach the user selected room temperature set point quicker.

Humidity Control – Running the system for longer periods and continuously varying the compressor speed enhances the humidity control.

Individual Room Comfort

Maximum comfort is provided because each space can be controlled individually based on the usage pattern.

Low Sound Levels

When noise is a concern, ductless systems are the answer. The indoor units are whisper quiet. There are no compressors indoors, either in the conditioned space or directly over it, and there is none of the noise usually generated by air being forced through the ductwork.

When sound ordinances and proximity to neighbors demand quiet operation, the 38MBR unit is the right choice. With the inverter technology, these units run at lower speeds most of the time resulting in reduced sound levels.

Inverter Technology – Enhanced Economical Operation

Ductless systems are inherently economical to operate. Individual rooms are heated or cooled only when required, and since the air is delivered directly to the space, there is no need to use additional energy to move the air in the ductwork. This economical operation is enhanced further when the inverter system output matches the load resulting in a more efficient system.

Easy−To−Use Controls

The systems have microprocessor−based controls to provide the ultimate in comfort and efficiency. The user friendly wired and wireless remote controls provide the interface between the user and the unit.

Secure Operation

If security is an issue, outdoor and indoor units are connected only by refrigerant piping and wiring to prevent intruders from crawling through ductwork or wall openings. In addition, since the 38MBR can be installed close to an outside wall, coils are protected from vandals and severe weather.

Fast Installation

This compact ductless system is simple to install. Only wires and piping need to run between the indoor and outdoor units. These units are fast and easy to install ensuring minimal disruption to customers in homes or the workplace. This makes the 38MBR systems the equipment of choice for retrofit applications.

Simple Servicing and Maintenance

Removing the top panel of the outdoor unit provides immediate access to the control compartment, providing the service technician access to the diagnostic LEDs to facilitate the troubleshooting process. In addition, the draw−thru design of the outdoor unit means that dirt accumulates on the outside surface of the coil. Coils can be cleaned quickly from the inside using a pressure hose and detergent.

On the indoor units, service and maintenance expense is reduced due to the permanent easy to clean filters. Also, error codes are displayed on the front panel to alert the user to certain system malfunctions

Built−in Reliability

Ductless system indoor and outdoor units are designed to provide years of trouble−free operation.

Both the indoor and outdoor units are well protected. Whenever the microprocessor detects abnormal conditions, the unit stops and an error code appears.

Inverter systems provide additional reliability due to the soft start. This refers to the ability of the inverter to start the compressor motor using reduced voltage and reduced current. This feature is beneficial from an electrical standpoint (eliminates current spikes) as well as an overall reliability standpoint due to reduced stress on all associated system components.

Agency Listings

All systems are listed with AHRI (Air conditioning, Heating, and Refrigeration Institute) and are ETL certified per UL 1995 standard.

MODEL NUMBER NOMENCLATURE

OUTDOOR UNIT

38	MB	R	Q	36	A	– –	3

38 = OUTDOOR UNIT

MB = MODEL

UNIT TYPE:
R = OUTDOOR UNIT

SYSTEM TYPE:
Q = HEAT PUMP

NOMINAL CAPACITY
36 – 3 TONS
48 – 4 TONS
58 – 5 TONS

VOLTAGE
3 = 208/230–1–60

NOT USED

MAXIMUM NUMBER OF FAN COIL UNITS THAT CAN BE CONNECTED TO THE OUTDOOR UNIT

A = 1:1

AHRI CERTIFIED™ www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

INTERTEK ETL LISTED C US

STANDARD FEATURES AND ACCESSORIES

Ease Of Installation	
Low Voltage Controls	S
Comfort Features	
Microprocessor Controls	S
Auto Restart Function	S
Auto Changeover	S
Energy Saving Features	
Inverter Driven Compressor	S
46°F Heating Mode (Heating Setback)	S
Safety And Reliability	
3 Minute Time Delay For Compressor	S
High Compressor Discharge Temperature	S
Over Current Protection For Compressor	S
Low Voltage Protection	S
Compressor Overload Protection	S
Compressor Over Current Protection	S
IPM Module Protection	S
Condenser High Temp Protection in Cooling Mode	S
Aluminum Golden Hydrophilic Pre−Coated Fins	S
Ease Of Service And Maintenance	
Diagnostics	S
Liquid Line Pressure Taps	S
Application Flexibility	
Crankcase Heater	S
Base pan Heater	S

Legend
S Standard
A Accessory

ACCESSORIES

Outdoor Unit Model Number Per Unit	Base Pan Base Rubber Plugs RCD Part Number	Quantity
38MBRQ36A−−3	12600801A00117	**5**
38MBRQ48A−−3	12600801A00118	**5**
38MBRQ58A−−3	12600801A00118	**5**

NOTE: Basepan built in with multiple holes for proper draining during defrost. For applications where is required to seal these holes, and re−direct the condensate drain, rubber plugs are available through RCD.

OUTDOOR UNITS

Crankcase Heater

The crankcase heater is standard on all unit sizes. Heater clamps must be placed around the compressor oil stump.

Base pan Heater

The base pan heater is standard on all unit sizes.

DIMENSIONS

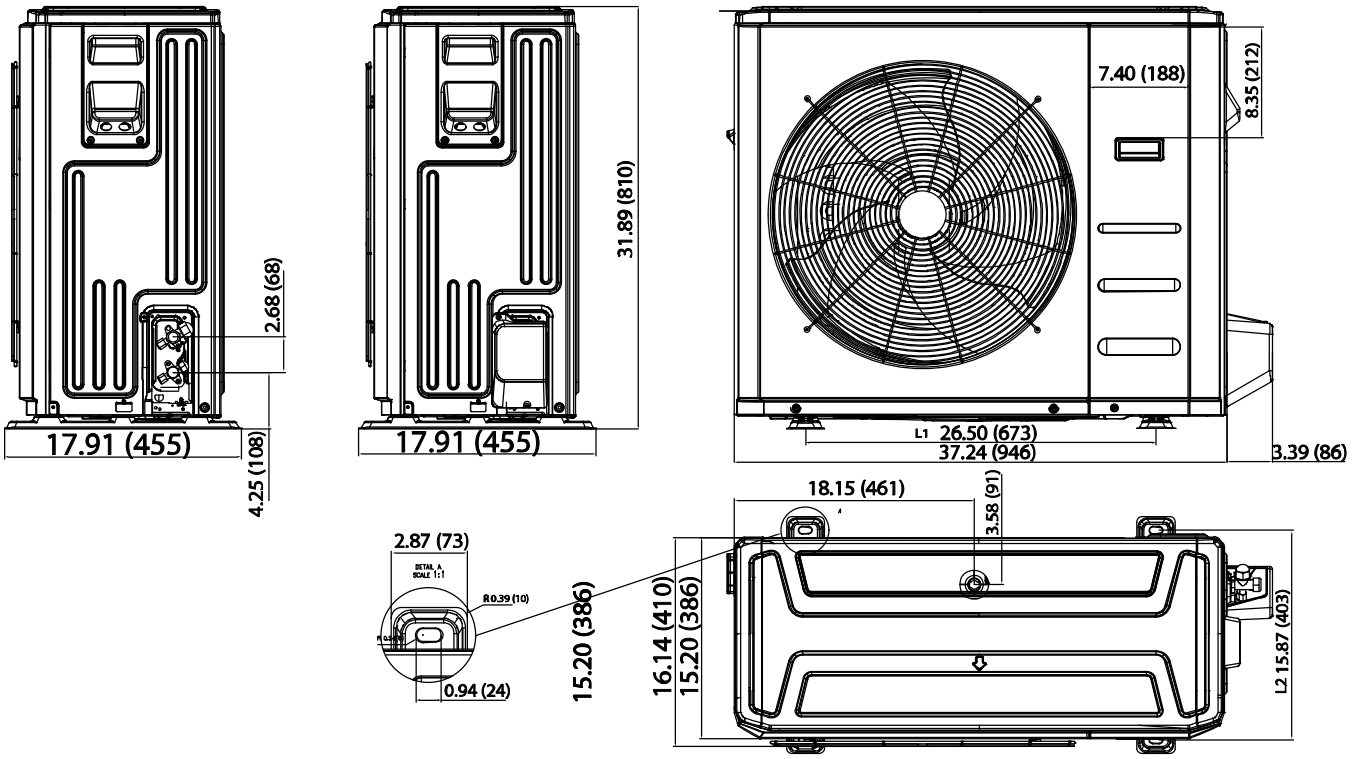


Fig. 3 – Size 36K

UNIT SIZE	WIDTH in (mm)	DEPTH in (mm)	HEIGHT in (mm)	L1 in (mm)	L2 in (mm)	OPERATING WEIGHT lb (kg)
36K	37.24 (946)	16.14 (410)	31.89 (810)	26.50 (673)	15.87 (403)	148.59 (67.4)

DIMENSIONS − (CONT)

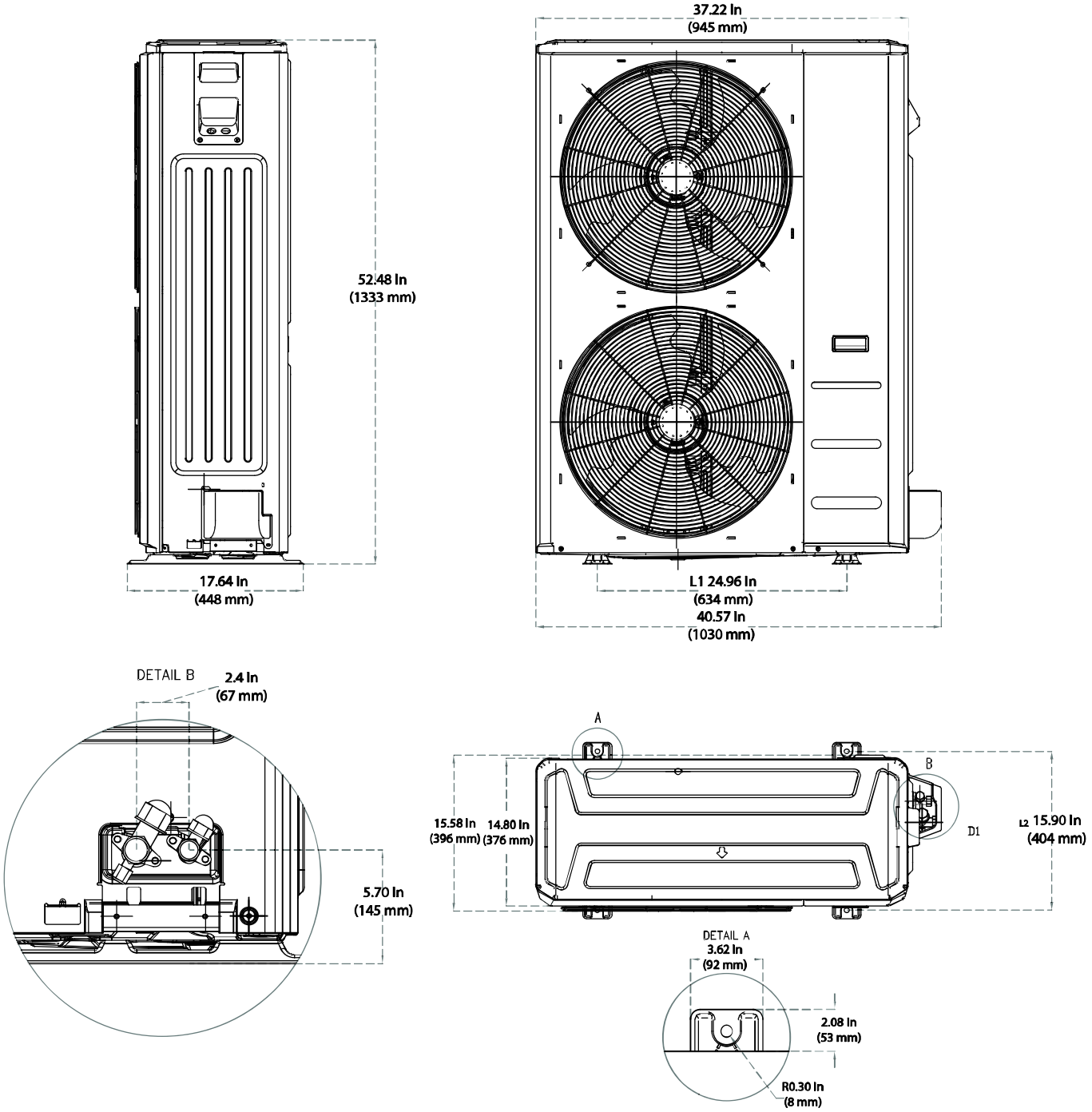


Fig. 4 – Sizes 48K−58K

UNIT SIZE	WIDTH in (mm)	DEPTH in (mm)	HEIGHT in (mm)	L1 in (mm)	L2 in (mm)	OPERATING WEIGHT lb (kg)
48K	37.22 (945)	15.58 (396)	52.48 (1333)	24.96 (634)	15.90 (404)	217.4 (98.6)
58K	37.22 (945)	15.58 (396)	52.48 (1333)	24.96 (634)	15.90 (404)	225.09 (102.1)

CLEARANCES

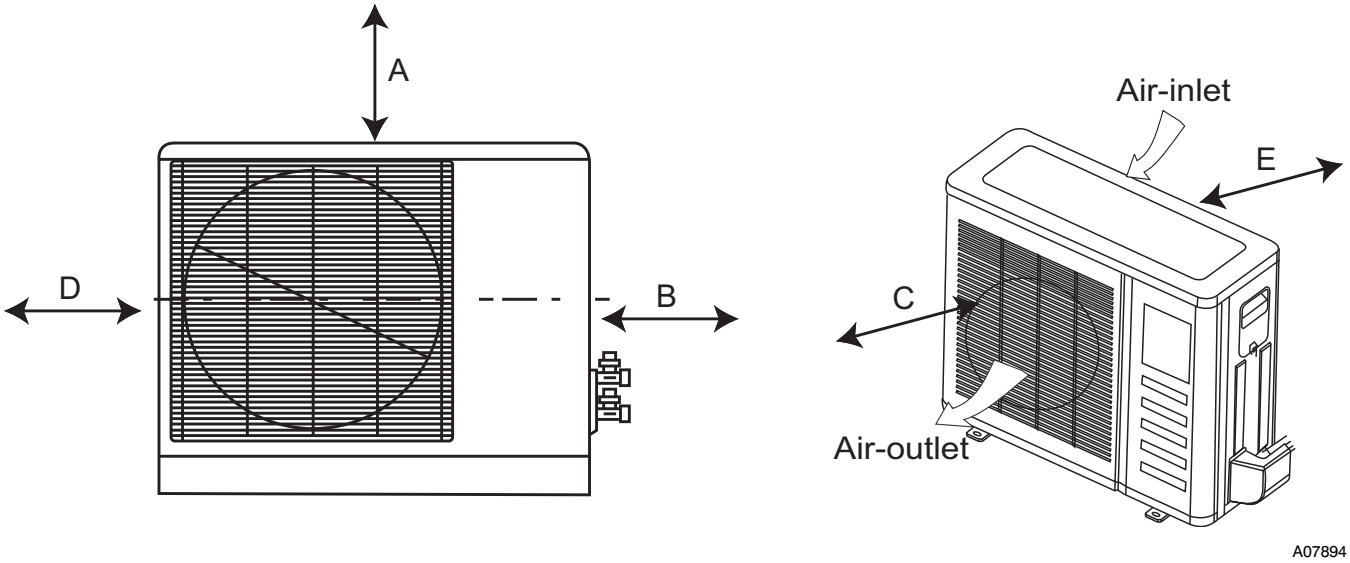


Fig. 5 – Outdoor Unit Clearance

UNIT	MINIMUM VALUE in. (mm)
A	24 (610)
B	24 (610)
C	24 (610)
D	4 (101)
E	4 (101)

NOTE: Outdoor Unit must be mounted at least 2in (50mm) above the maximum anticipated snow depth.

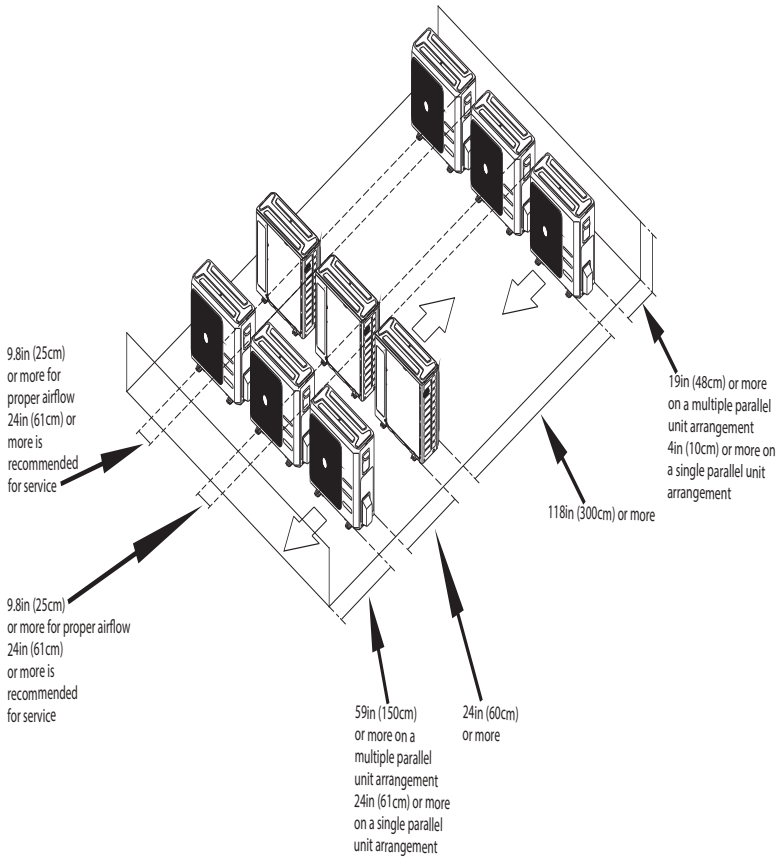


Fig. 6 – Clearances for multiple units

SPECIFICATIONS − OUTDOOR HEAT PUMP

System	**Size**		**36**	**48**	**58**
	Outdoor Model		38MBRQ36A−−3	38MBRQ48A−−3	38MBRQ58A−−3
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230−1−60	208/230−1−60	208/230−1−60
	MCA	A.	30	35	35
	MOCP − Fuse Rating	A.	50	50	50
Operating Range	Cooling Outdoor DB Min − Max	° F (° C)	−13~122 (−25~50)	−13~122 (−25~50)	−13~122 (−25~50)
	Heating Outdoor DB Min − Max	° F (° C)	−22~86 (−30~30)	−22~86 (−30~30)	−22~86 (−30~30)
Piping	Total Piping Length	ft (m)	213 (65)	213 (65)	213 (65)
	Piping Lift*	ft (m)	98 (30)	98 (30)	98 (30)
	Pipe Connection Size − Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Pipe Connection Size − Suction	in (mm)	5/8 (16)	5/8 (16)	3/4 (19)
Refrigerant	Type		R410A	R410A	R410A
	Charge	lbs (kg)	6.72 (3.05)	9.26 (4.2)	10.19 (4.62)
	Metering Device		EEV	EEV	EEV
Outdoor Coil	Face Area	Sq. Ft.	8.0	13.6	13.3
	No. Rows		2	2	3
	Fins per inch		18	18	18
	Circuits		4	8	14
Compressor	Type		Rotary Inverter	Rotary Inverter	Rotary Inverter
	Model		ATF310D43UMT	ATQ420D1UMU	ATQ420D1UMU
	Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74
	Oil Charge	Fl. Oz.	28.2	39.5	39.5
	Rated Current	RLA	8.9	11.9	11.9
Outdoor	Unit Width	in (mm)	37.24 (946)	37.48 (952)	37.48 (952)
	Unit Height	in (mm)	31.89 (810)	52.48 (1333)	52.48 (1333)
	Unit Depth	in (mm)	16.14 (410)	16.34 (415)	16.34 (415)
	Net Weight	lbs (kg)	148.59 (67.4)	217.4 (98.6)	225.09 (102.1)
	Airflow	CFM	2,130	4,500	4,415
	Sound Pressure	dB(A)	63.0	62.5	64.0

* Condensing unit above or below indoor unit

COMPATIBILITY

INDOOR UNIT		**OUTDOOR UNIT**		
		38MBRQ36A−−3	38MBRQ48A−−3	38MBRQ58A−−3
Cassette	40MBCQ36−−−3	•		
	40MBCQ48−−−3		•	
Ducted	40MBDQ36−−−3	•		
	40MBDQ48−−−3		•	
	40MBDQ58−−−3			•
Console	40MBFQ36−−−3	•		
	40MBFQ48−−−3		•	
	40MBFQ58−−−3			•

NOTE: Backward compatible with 40MBQB*D Ducted Systems.

PERFORMANCE − CASSETTE

Cassette	Indoor Model		40MBCQ36−−−3	40MBCQ48−−−3
	Energy Star		NO	NO
	Cooling System Tons		3.0	4.0
	Cooling Rated Capacity	Btu/h	36,000	48,000
	Cooling Cap. Range Min − Max	Btu/h	8,500~38,000	9,000~50,000
	SEER		17.5	16.8
	EER		9	9.5
	Heating Rated Capacity (47°F)	Btu/h	38,000	50,000
	Heating Rated Capacity (17°F)	Btu/h	25,200	35,000
	Heating Capacity (5°F)	Btu/h	25,300	34,000
	Heating Cap. Range Min − Max	Btu/h	9,500~50,000	10,000~55,000
	HSPF		10.5	11.0
	COP (47°F)	W/W	3	3.6
	COP (17°F)	W/W	2.46	2.62
	COP (5°F)	W/W	1.71	1.84

PERFORMANCE − DUCTED

Ducted	Indoor Model		40MBDQ36−−−3	40MBDQ48−−−3	40MBDQ58−−−3
	Energy Star		NO	NO	NO
	Cooling System Tons		3.0	4.0	4.8
	Cooling Rated Capacity	Btu/h	36,000	48,000	57,000
	Cooling Cap. Range Min − Max	Btu/h	8,500~38,000	9,000~50,000	18,000−58,000
	SEER		16.5	17.4	18
	EER		9	9.2	10
	Heating Rated Capacity (47°F)	Btu/h	40,000	49,500	62,000
	Heating Rated Capacity (17°F)	Btu/h	27,600	33,400	37,600
	Heating Capacity (5°F)	Btu/h	25,300	34,000	35,000
	Heating Cap. Range Min − Max	Btu/h	9,500~50,000	10,000~55,000	12,000−63,000
	HSPF		11.5	10.3	9.0
	COP (47°F)	W/W	3	3.6	3.6
	COP (17°F)	W/W	2.46	2.62	2.62
	COP (5°F)	W/W	1.71	1.84	1.91

PERFORMANCE − CONSOLE

Console	Indoor Model		40MBFQ36−−−3	40MBFQ48−−−3	40MBFQ58−−−3
	Energy Star		NO	NO	NO
	Cooling System Tons		3.0	4.0	4.5
	Cooling Rated Capacity	Btu/h	36,000	48,000	54,000
	Cooling Cap. Range Min − Max	Btu/h	8,500~38,000	9,000~50,000	18,000−58,000
	SEER		16	17.8	18
	EER		8	9.3	9.8
	Heating Rated Capacity (47°F)	Btu/h	38,000	50,000	60,000
	Heating Rated Capacity (17°F)	Btu/h	25,400	35,000	39,000
	Heating Capacity (5°F)	Btu/h	25,300	34,000	35,000
	Heating Cap. Range Min − Max	Btu/h	9,500~50,000	10,000~55,000	12,000−63,000
	HSPF		10.0	11.0	10.5
	COP (47°F)	W/W	3	3.6	3.6
	COP (17°F)	W/W	2.46	2.62	2.62
	COP (5°F)	W/W	1.71	1.84	1.91

COOLING PERFORMANCE DATA − CASSETTE

Model	Cooling			Outdoor Conditions (DB)											
	Indoor Conditions DB			−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	47F (8C)	77F (25C)	86F (30C)	95F (35C)	104F (40C)	113F (45C)	122F (50C)
	DB	WB													
36 (208−230V)	69.8F (21C)	59F (15C)	TC	39.08	40.29	35.08	34.44	32.06	28.95	30.14	29.87	27.33	23.40	16.86	13.93
			SC	27.46	28.31	25.68	25.22	23.52	22.41	22.67	22.56	21.49	19.54	16.56	11.95
			Input	3.29	3.43	2.00	1.74	1.69	1.46	2.58	3.48	3.62	3.20	2.37	1.99
	75.2F (24C)	62.6F (17C)	TC	41.21	42.49	46.07	45.00	46.84	30.64	32.44	32.20	29.49	25.16	18.30	15.50
			SC	28.88	29.77	31.29	31.56	33.58	23.90	24.31	24.18	23.12	21.09	18.02	13.73
			Input	3.55	3.70	3.09	3.31	3.46	1.49	2.62	6.52	3.70	3.26	2.39	2.00
	80.6F (27C)	66.2F (19C)	TC	48.57	50.07	48.72	47.41	49.52	32.60	34.99	34.89	36.86	27.18	19.91	16.96
			SC	32.38	33.38	32.61	32.08	46.29	25.38	25.84	25.78	26.73	22.62	19.45	15.37
			Input	2.98	3.11	3.29	3.29	3.48	1.52	2.67	3.35	3.78	3.31	2.41	1.98
	89.6F (32C)	73.4F (23C)	TC	52.85	54.49	53.63	52.23	53.96	38.45	40.82	39.88	38.41	31.62	22.96	18.45
			SC	32.46	33.46	33.06	32.71	50.56	27.12	27.35	26.98	27.50	24.13	21.04	18.29
			Input	3.49	3.64	3.73	3.45	3.53	2.70	2.77	3.59	3.95	3.43	2.43	2.55
48 (208−230V)	69.8F (21C)	59F (15C)	TC	42.19	43.49	46.27	46.56	53.19	51.17	47.34	44.97	41.93	31.32	25.08	19.83
			SC	30.78	31.73	33.05	33.13	36.38	35.26	33.36	32.30	30.79	25.81	22.88	19.49
			Input	3.15	3.28	3.46	3.51	3.20	3.64	4.74	5.10	5.21	3.63	3.33	3.15
	75.2F (24C)	62.6F (17C)	TC	44.51	45.89	48.82	49.65	56.96	52.38	49.37	48.10	45.14	33.86	28.26	21.92
			SC	32.19	33.18	34.57	34.98	38.40	36.28	34.09	34.19	32.73	27.80	25.27	21.48
			Input	3.30	3.44	3.62	3.64	3.35	3.55	4.70	5.16	5.29	3.66	3.37	3.18
	80.6F (27C)	66.2F (19C)	TC	47.66	49.13	52.27	54.00	60.60	53.28	51.14	50.11	48.44	37.42	27.46	27.12
			SC	33.74	34.78	36.23	37.15	60.58	36.77	35.86	35.40	34.27	31.58	25.66	26.42
			Input	3.43	3.57	3.76	3.76	3.48	3.55	4.77	5.21	5.35	3.68	3.41	3.78
	89.6F (32C)	73.4F (23C)	TC	53.00	54.64	58.13	60.55	66.57	62.30	52.17	51.79	49.13	36.21	34.64	31.87
			SC	33.61	34.65	36.09	37.99	40.18	38.52	34.43	34.34	31.75	29.68	22.74	28.46
			Input	3.42	3.56	3.74	3.98	3.69	4.06	4.80	5.27	5.52	3.16	1.51	3.85

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
SC − Sensible Capacity (1000 Btu/hour)
Input − Total Power (kW)

HEATING PERFORMANCE DATA − CASSETTE

Model	Heating			Outdoor Conditions (DB)											
	Indoor Conditions DB			−22F (−30C)	−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	19.4F (−7C)	24.8F (−4C)	32F (0C)	39.2F (4C)	44.6F (7C)	53.6F (12C)
36 (208−230V)	59F (15C)		TC	14.51	18.12	21.60	25.47	25.96	29.58	27.92	32.37	34.88	37.44	39.89	40.33
			Input	3.15	3.26	3.34	3.37	3.39	3.32	3.08	3.36	3.39	3.07	3.05	2.72
			COP	1.35	1.63	1.89	2.21	2.25	2.61	2.66	2.82	3.01	3.58	3.83	4.34
	64.4F (18C)		TC	15.43	19.25	22.71	22.15	25.66	29.93	30.97	33.18	35.60	36.37	40.98	39.05
			Input	2.94	3.11	3.36	3.15	3.43	3.52	3.32	3.43	3.45	3.20	3.27	2.84
			COP	1.54	1.82	1.98	2.06	2.19	2.49	2.74	2.83	3.02	3.33	3.68	4.03
	69F (20.5C)		TC	15.20	19.11	22.39	23.90	25.19	30.49	30.39	33.04	34.70	36.23	40.14	38.20
			Input	2.94	3.22	3.47	3.59	3.53	3.56	3.42	3.57	3.56	3.34	3.38	2.94
			COP	1.52	1.74	1.89	1.95	2.09	2.51	2.60	2.71	2.86	3.18	3.48	3.81
	71.6F (22C)		TC	12.24	14.74	17.76	19.64	20.81	25.76	26.93	29.90	32.62	36.64	39.90	38.00
			Input	2.25	2.41	2.58	2.68	2.75	2.89	2.96	3.10	3.25	3.46	3.47	3.09
			COP	1.59	1.79	2.02	2.15	2.21	2.61	2.67	2.82	2.95	3.10	3.37	3.60
48 (208−230V)	59F (15C)		TC	20.68	26.76	33.02	28.15	39.50	46.28	46.40	49.18	56.48	61.03	57.65	57.16
			Input	5.01	5.15	5.13	4.43	5.37	5.45	5.21	5.82	5.4	5.48	4.93	4.2
			COP	1.21	1.52	1.89	1.86	2.16	2.49	2.61	2.48	3.07	3.26	3.43	3.99
	64.4F (18C)		TC	21.03	27.27	32.23	35.93	37.90	47.55	46.77	49.71	55.46	60.17	56.59	55.71
			Input	5	5.14	5.29	5.56	5.47	5.61	5.31	5.72	5.62	5.7	5.16	4.39
			COP	1.23	1.56	1.79	1.9	2.03	2.48	2.58	2.55	2.89	3.09	3.21	3.72
	69F (20.5C)		TC	21.36	27.76	31.52	35.38	36.91	45.68	45.87	50.60	54.40	58.94	56.11	54.67
			Input	4.90	5.01	5.52	5.75	5.68	5.68	5.46	5.56	5.81	5.89	5.39	4.55
			COP	1.28	1.63	1.67	1.80	1.90	2.36	2.46	2.67	2.74	2.93	3.05	3.52
	71.6F (22C)		TC	20.98	27.07	31.53	34.80	36.40	45.13	44.36	51.88	53.86	56.93	55.91	60.26
			Input	4.91	5.01	5.56	5.89	5.72	5.85	5.48	5.37	5.94	5.89	5.53	4.99
			COP	1.25	1.58	1.66	1.73	1.86	2.26	2.37	2.83	2.66	2.83	2.96	3.54

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
Input − Total Power (kW)
COP − W/W

COOLING PERFORMANCE DATA − DUCTED

Model	Cooling			Outdoor Conditions (DB)											
	Indoor Conditions DB			−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	47F (8C)	77F (25C)	86F (30C)	95F (35C)	104F (40C)	113F (45C)	122F (50C)
	DB	WB													
36 (208−230V)	69.8F (21C)	59F (15C)	TC	38.54	39.73	34.59	33.96	31.62	28.55	29.72	29.46	26.95	23.08	16.63	13.74
			SC	27.08	27.92	25.32	24.87	23.19	22.10	22.36	22.25	21.19	19.27	16.33	11.78
			Input	3.34	3.48	2.03	1.77	1.72	1.48	2.62	3.54	3.68	3.25	2.41	2.02
	75.2F (24C)	62.6F (17C)	TC	40.64	41.90	45.43	44.38	46.19	30.22	31.99	31.75	29.08	24.81	18.05	15.29
			SC	28.48	29.36	30.86	31.12	33.12	23.57	23.97	23.85	22.80	20.80	17.77	13.54
			Input	3.61	3.76	3.14	3.36	3.51	1.51	2.66	6.62	3.76	3.31	2.43	2.03
	80.6F (27C)	66.2F (19C)	TC	47.90	49.38	48.05	46.75	48.83	32.15	34.51	34.41	36.35	26.80	19.63	16.73
			SC	31.93	32.92	32.16	31.64	45.65	25.03	25.48	25.42	26.36	22.31	19.18	15.16
			Input	3.03	3.16	3.34	3.34	3.54	1.54	2.71	3.40	3.84	3.36	2.45	2.01
	89.6F (32C)	73.4F (23C)	TC	52.12	53.74	52.89	51.51	53.21	37.92	40.26	39.33	37.88	31.18	22.64	18.19
			SC	32.01	33.00	32.60	32.26	49.86	26.74	26.97	26.61	27.12	23.80	20.75	18.04
			Input	3.55	3.70	3.79	3.50	3.59	2.74	2.81	3.65	4.01	3.48	2.47	2.59
48 (208−230V)	69.8F (21C)	59F (15C)	TC	42.19	43.49	46.27	46.56	53.19	51.17	47.34	44.97	41.93	31.32	25.08	19.83
			SC	30.78	31.73	33.05	33.13	36.38	35.26	33.36	32.30	30.79	25.81	22.88	19.49
			Input	3.15	3.28	3.46	3.51	3.20	3.64	4.74	5.10	5.21	3.63	3.33	3.15
	75.2F (24C)	62.6F (17C)	TC	44.51	45.89	48.82	49.65	56.96	52.38	49.37	48.10	45.14	33.86	28.26	21.92
			SC	32.19	33.18	34.57	34.98	38.40	36.28	34.09	34.19	32.73	27.80	25.27	21.48
			Input	3.30	3.44	3.62	3.64	3.35	3.55	4.70	5.16	5.29	3.66	3.37	3.18
	80.6F (27C)	66.2F (19C)	TC	47.66	49.13	52.27	54.00	60.60	53.28	51.14	50.11	48.44	37.42	27.46	27.12
			SC	33.74	34.78	36.23	37.15	60.58	36.77	35.86	35.40	34.27	31.58	25.66	26.42
			Input	3.43	3.57	3.76	3.76	3.48	3.55	4.77	5.21	5.35	3.68	3.41	3.78
	89.6F (32C)	73.4F (23C)	TC	53.00	54.64	58.13	60.55	66.57	62.30	52.17	51.79	49.13	36.21	34.64	31.87
			SC	33.61	34.65	36.09	37.99	40.18	38.52	34.43	34.34	31.75	29.68	22.74	28.46
			Input	3.42	3.56	3.74	3.98	3.69	4.06	4.80	5.27	5.52	3.16	1.51	3.85
58 (208−230V)	69.8F (21C)	59F (15C)	TC	53.78	52.40	53.20	53.75	55.13	58.42	49.39	47.67	50.74	37.05	28.38	20.68
			SC	44.10	44.28	44.72	45.12	46.28	48.01	43.10	42.16	43.60	36.75	28.38	20.67
			Input	5.83	3.53	3.88	3.87	4.04	4.40	3.66	4.00	5.50	4.12	3.31	2.81
	75.2F (24C)	62.6F (17C)	TC	56.36	55.12	55.81	56.17	57.14	64.67	50.85	50.29	53.17	40.90	33.92	22.60
			SC	46.22	47.30	47.56	48.13	48.85	52.02	45.19	45.11	46.48	40.64	33.92	22.60
			Input	5.85	3.59	3.81	4.11	4.19	4.56	3.65	4.02	5.52	4.16	3.92	2.81
	80.6F (27C)	66.2F (19C)	TC	59.91	57.51	56.91	59.79	57.74	66.72	51.23	51.13	56.52	43.50	33.74	31.19
			SC	49.13	49.70	50.00	51.50	50.87	54.25	46.64	46.90	49.65	42.59	33.73	31.01
			Input	5.97	3.45	3.71	4.12	3.94	4.65	3.65	4.03	5.63	4.17	3.34	3.68
	89.6F (32C)	73.4F (23C)	TC	62.29	57.76	57.31	59.87	61.80	70.41	52.98	52.95	58.76	47.52	45.76	34.73
			SC	51.07	48.10	49.00	51.72	52.06	54.71	45.48	46.36	49.22	44.33	44.00	34.58
			Input	5.99	3.32	3.60	3.85	3.99	4.97	3.66	4.04	5.65	4.20	4.63	3.69

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
SC − Sensible Capacity (1000 Btu/hour)
Input − Total Power (kW)

HEATING PERFORMANCE DATA − DUCTED

Model	Heating		Outdoor Conditions (DB)											
	Indoor Conditions DB		−22F (−30C)	−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	19.4F (−7C)	24.8F (−4C)	32F (0C)	39.2F (4C)	44.6F (7C)	53.6F (12C)
36 (208−230V)	59F (15C)	TC	16.57	20.69	24.67	29.09	29.65	33.78	31.88	36.97	39.83	42.76	45.55	46.06
		Input	3.99	4.12	4.23	4.27	4.27	4.20	3.90	4.24	4.29	3.89	3.86	3.44
		COP	1.22	1.47	1.71	2.00	2.03	2.36	2.40	2.55	2.72	3.23	3.46	3.92
	64.4F (18C)	TC	17.62	21.98	25.93	25.29	29.30	34.18	35.37	37.89	40.66	41.53	46.80	44.59
		Input	3.71	3.92	4.24	3.98	4.33	4.45	4.20	4.34	4.36	4.47	4.14	3.59
		COP	1.39	1.64	1.79	1.86	1.98	2.25	2.47	2.56	2.73	3.01	3.32	3.64
	69F (20.5C)	TC	17.36	21.82	25.57	27.29	28.77	34.82	34.71	37.73	39.63	41.37	45.84	43.62
		Input	3.73	4.07	4.33	4.55	4.47	4.50	4.33	4.52	4.50	4.23	4.28	3.72
		COP	1.37	1.57	1.71	1.76	1.89	2.27	2.35	2.45	2.58	2.87	3.14	3.44
	71.6F (22C)	TC	13.98	16.83	20.28	22.43	23.77	29.42	30.75	34.15	37.25	41.84	45.57	43.40
		Input	2.84	3.05	3.26	3.39	3.48	3.66	3.74	3.93	4.10	4.38	4.39	3.92
		COP	1.44	1.62	1.82	1.94	2.00	2.36	2.41	2.55	2.66	2.80	3.04	3.25
48 (208−230V)	59F (15C)	TC	20.68	26.76	33.02	28.15	39.50	46.28	46.40	49.18	56.48	61.03	57.65	57.16
		Input	5.01	5.15	5.13	4.43	5.37	5.45	5.21	5.82	5.4	5.48	4.93	4.2
		COP	1.21	1.52	1.89	1.86	2.16	2.49	2.61	2.48	3.07	3.26	3.43	3.99
	64.4F (18C)	TC	21.03	27.27	32.23	35.93	37.90	47.55	46.77	49.71	55.46	60.17	56.59	55.71
		Input	5	5.14	5.29	5.56	5.47	5.61	5.31	5.72	5.62	5.7	5.16	4.39
		COP	1.23	1.56	1.79	1.9	2.03	2.48	2.58	2.55	2.89	3.09	3.21	3.72
	69F (20.5C)	TC	21.36	27.76	31.52	35.38	36.91	45.68	45.87	50.60	54.40	58.94	56.11	54.67
		Input	4.90	5.01	5.52	5.75	5.68	5.68	5.46	5.56	5.81	5.89	5.39	4.55
		COP	1.28	1.63	1.67	1.80	1.90	2.36	2.46	2.67	2.74	2.93	3.05	3.52
	71.6F (22C)	TC	20.98	27.07	31.53	34.80	36.40	45.13	44.36	51.88	53.86	56.93	55.91	60.26
		Input	4.91	5.01	5.56	5.89	5.72	5.85	5.48	5.37	5.94	5.89	5.53	4.99
		COP	1.25	1.58	1.66	1.73	1.86	2.26	2.37	2.83	2.66	2.83	2.96	3.54
58 (208−230V)	59F (15C)	TC	15.21	20.78	28.89	32.85	34.98	44.16	49.39	40.49	50.21	45.93	62.82	63.60
		Input	3.96	4.24	4.61	4.71	4.60	4.97	4.79	4.32	4.16	3.98	4.48	3.91
		COP	1.13	4.90	1.84	2.04	2.23	2.61	3.02	2.75	3.54	3.38	4.11	4.77
	64.4F (18C)	TC	15.57	21.64	29.97	32.31	34.18	45.66	48.10	40.65	48.96	46.05	62.28	59.39
		Input	4.01	4.20	4.66	4.86	4.77	4.96	5.00	4.49	4.34	4.19	4.70	3.98
		COP	3.88	1.51	1.89	1.95	2.1	2.7	2.82	2.66	3.31	3.22	3.89	4.38
	69F (20.5C)	TC	16.69	21.56	29.50	33.91	35.52	44.48	46.54	40.09	47.96	47.28	62.88	59.12
		Input	4.01	4.28	4.81	4.92	4.79	5.11	5.15	4.55	4.49	4.32	4.74	4
		COP	1.22	1.48	1.8	2.02	2.17	2.55	2.65	2.58	3.13	3.21	3.89	4.34
	71.6F (22C)	TC	12.84	16.92	23.54	23.04	30.80	37.20	37.91	34.73	47.03	42.11	60.96	60.46
		Input	3.18	3.35	3.6	3.45	3.87	4.15	4.17	3.99	4.56	4.19	4.82	4.17
		COP	1.18	1.48	1.91	1.96	2.33	2.63	2.67	2.55	3.02	2.94	3.71	4.25

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
Input − Total Power (kW)
COP − W/W

COOLING PERFORMANCE DATA − CONSOLE

Model	Cooling			Outdoor Conditions (DB)											
	Indoor Conditions DB			−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	47F (8C)	77F (25C)	86F (30C)	95F (35C)	104F (40C)	113F (45C)	122F (50C)
	DB	WB													
36 (208−230V)	69.8F (21C)	59F (15C)	TC	38.56	39.75	34.61	33.98	31.64	28.57	29.74	29.48	26.96	23.09	16.64	13.75
			SC	27.09	27.94	25.33	24.88	23.20	22.11	22.37	22.26	21.20	19.28	16.34	11.79
			Input	3.85	4.01	2.34	2.04	1.98	1.71	3.02	4.08	4.25	3.75	2.78	2.33
	75.2F (24C)	62.6F (17C)	TC	40.66	41.92	45.45	44.40	46.22	30.24	32.01	31.77	29.10	24.82	18.06	15.30
			SC	28.50	29.38	30.88	31.14	33.14	23.58	23.98	23.86	22.81	20.81	17.78	13.55
			Input	4.16	4.34	3.62	3.88	4.05	1.74	3.07	7.64	4.34	3.82	2.80	2.34
	80.6F (27C)	66.2F (19C)	TC	47.93	49.41	48.08	46.78	48.86	32.17	34.53	34.43	36.37	26.81	19.64	16.74
			SC	31.95	32.94	32.18	31.66	45.68	25.04	25.49	25.43	26.37	22.32	19.19	15.17
			Input	3.50	3.65	3.85	3.85	4.08	1.78	3.13	3.92	4.43	3.88	2.83	2.32
	89.6F (32C)	73.4F (23C)	TC	52.15	53.77	52.92	51.54	53.24	37.94	40.28	39.35	37.90	31.20	22.65	18.20
			SC	32.03	33.02	32.62	32.28	49.89	26.75	26.98	26.62	27.13	23.81	20.76	18.05
			Input	4.10	4.27	4.37	4.04	4.14	3.16	3.24	4.21	4.63	4.01	2.85	2.99
48 (208−230V)	69.8F (21C)	59F (15C)	TC	41.77	43.05	45.81	46.09	52.66	52.21	48.13	45.09	41.51	31.21	24.83	19.63
			SC	30.47	31.41	32.72	32.80	36.02	35.98	34.65	33.37	31.55	26.84	22.65	19.29
			Input	3.14	3.27	3.45	3.50	3.19	3.63	4.60	5.04	5.19	4.52	3.32	3.14
	75.2F (24C)	62.6F (17C)	TC	44.07	45.43	48.33	49.15	56.39	53.44	50.19	48.23	44.69	33.74	27.98	21.70
			SC	31.87	32.85	34.22	34.63	38.02	37.01	34.66	34.28	32.40	27.70	25.02	21.26
			Input	3.29	3.43	3.61	3.63	3.34	3.54	4.56	5.10	5.27	4.56	3.36	3.17
	80.6F (27C)	66.2F (19C)	TC	49.64	51.76	53.58	54.12	56.32	56.29	53.85	52.71	49.36	36.71	27.98	27.63
			SC	35.90	37.42	32.15	38.13	37.97	38.99	36.08	35.85	34.05	29.00	26.15	26.92
			Input	3.47	3.58	3.72	3.73	3.71	3.89	4.69	5.20	5.39	3.76	3.44	3.81
	89.6F (32C)	73.4F (23C)	TC	55.20	57.56	59.59	60.68	61.87	65.82	54.93	54.48	50.06	35.52	35.30	32.47
			SC	35.01	36.50	37.00	38.07	37.34	40.70	36.25	36.12	32.35	29.11	23.17	29.00
			Input	3.41	3.58	3.75	3.98	3.67	4.11	4.82	5.31	5.55	3.14	2.11	3.78
58 (208−230V)	69.8F (21C)	59F (15C)	TC	45.48	45.20	48.28	48.21	48.15	51.18	42.74	45.12	42.90	32.59	24.01	19.526
			SC	37.29	33.59	35.16	35.15	35.00	36.38	32.20	33.37	32.26	27.28	23.81	19.526
			Input	5.33	2.98	3.32	3.34	3.49	3.57	3.39	4.67	5.03	3.81	3.07	2.604
	75.2F (24C)	62.6F (17C)	TC	49.62	47.58	50.96	51.00	50.74	54.60	46.62	49.15	46.81	35.55	25.87	20.626
			SC	40.69	35.36	36.98	36.99	37.01	38.40	34.57	35.89	34.80	29.77	25.87	20.626
			Input	5.45	3.18	4.19	3.58	4.02	3.68	3.44	4.75	5.14	3.85	3.09	2.691
	80.6F (27C)	66.2F (19C)	TC	53.81	50.93	54.12	54.28	54.32	58.19	49.71	52.96	50.76	39.43	28.08	22.736
			SC	44.12	37.42	38.82	3.78	3.92	40.37	36.23	37.91	36.93	32.25	28.08	22.736
			Input	5.54	3.37	3.77	4.21	4.06	3.81	3.45	4.81	5.23	3.92	3.13	2.62
	89.6F (32C)	73.4F (23C)	TC	60.53	57.35	59.38	57.73	57.74	65.24	52.83	58.12	57.11	45.67	33.26	25.414
			SC	49.64	38.83	39.60	3.75	3.72	41.27	36.36	38.45	38.12	34.05	29.87	25.414
			Input	5.71	3.29	3.41	4.51	4.55	3.98	3.46	4.89	5.39	4.00	3.13	2.598

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
SC − Sensible Capacity (1000 Btu/hour)
Input − Total Power (kW)

HEATING PERFORMANCE DATA − CONSOLE

Model	Heating		Outdoor Conditions (DB)											
	Indoor Conditions DB		−22F (−30C)	−13F (−25C)	−4F (−20C)	0F (−17C)	5F (−15C)	17F (−8C)	19.4F (−7C)	24.8F (−4C)	32F (0C)	39.2F (4C)	44.6F (7C)	53.6F (12C)
36 (208−230V)	59F (15C)	TC	14.60	18.23	21.74	25.63	26.12	29.76	28.09	32.57	35.09	37.68	40.13	40.58
		Input	2.89	3.00	3.07	3.10	3.11	3.05	2.83	3.09	3.12	2.82	2.80	2.50
		COP	1.48	1.78	2.07	2.43	2.46	2.86	2.91	3.09	3.30	3.92	4.20	4.76
	64.4F (18C)	TC	15.53	19.37	22.85	22.28	25.82	30.12	31.16	33.39	35.83	36.59	41.24	39.29
		Input	2.70	2.85	3.08	2.89	3.15	3.23	3.05	3.15	3.17	2.94	3.00	2.61
		COP	1.69	1.99	2.17	2.26	2.40	2.73	3.00	3.11	3.31	3.65	4.03	4.42
	69F (20.5C)	TC	15.30	19.23	22.53	24.05	25.35	30.68	30.58	33.24	34.92	36.45	40.39	38.43
		Input	2.70	2.96	3.18	3.30	3.24	3.26	3.14	3.28	3.27	3.07	3.11	2.70
		COP	1.66	1.91	2.07	2.14	2.29	2.75	2.85	2.97	3.13	3.48	3.81	4.17
	71.6F (22C)	TC	12.32	14.83	17.87	19.76	20.94	25.92	27.09	30.09	32.82	36.87	40.15	38.24
		Input	2.07	2.21	2.37	2.46	2.53	2.65	2.72	2.85	2.98	3.18	3.19	2.84
		COP	1.75	1.97	2.21	2.35	2.43	2.86	2.92	3.09	3.23	3.40	3.69	3.94
48 (208−230V)	59F (15C)	TC	21.14	27.01	.43	34.64	.53	45.33	47.26	50.52	57.53	54.74	58.72	59.89
		Input	4.98	5.15	.20	5.44	.43	5.46	5.51	5.58	5.61	5.65	5.49	4.76
		COP	1.24	1.54	.83	1.87	.03	2.44	2.51	2.65	3.01	2.84	3.14	3.69
	64.4F (18C)	TC	33.49	41.16	42.34	42.91	43.65	49.05	44.47	50.25	56.07	60.83	57.21	58.54
		Input	7.98	7.73	6.93	6.62	6.30	5.80	5.05	5.78	5.69	5.77	5.22	4.61
		COP	1.23	1.56	1.79	1.9	2.03	2.48	2.58	2.55	2.89	3.09	3.21	3.72
	69F (20.5C)	TC	18.71	24.32	.08	31.00	.20	38.99	40.19	44.33	47.66	.24	49.16	56.04
		Input	5.02	5.13	.59	5.92	.79	5.16	5.61	5.70	5.98	.29	5.10	5.43
		COP	1.19	1.51	.68	1.67	.83	2.22	2.28	2.47	2.54	.62	2.83	3.03
	71.6F (22C)	TC	19.94	20.93	28.10	33.08	34.60	42.90	42.17	49.31	51.20	54.11	53.15	57.28
		Input	4.81	4.56	5.16	5.76	5.60	5.72	5.36	5.25	5.80	5.76	5.41	4.87
		COP	1.22	1.35	1.60	1.68	1.81	2.20	2.31	2.75	2.59	2.75	2.88	3.44
58 (208−230V)	59F (15C)	TC	15.30	21.03	28.95	31.87	32.05	43.31	37.36	32.34	36.15	42.58	61.48	60.64
		Input	3.88	4.15	4.75	4.97	4.88	5.05	4.72	4.31	4.31	4.20	4.99	4.29
		COP	1.16	1.49	1.79	1.88	1.93	2.51	2.32	2.20	2.46	2.97	3.61	4.14
	64.4F (18C)	TC	15.13	20.48	28.40	28.71	27.66	42.03	36.83	34.83	34.66	41.99	60.16	59.10
		Input	4.00	4.25	4.94	4.88	4.68	5.22	4.92	4.56	4.37	4.38	5.19	4.47
		COP	1.11	1.411	1.686	1.725	1.733	2.361	2.196	2.24	2.323	2.81	3.398	3.872
	69F (20.5C)	TC	15.604	20.09	27.85	32.24	33.24	40.99	39.97	35.90	35.92	41.47	58.96	57.81
		Input	4.025	4.347	5.066	5.092	5.022	5.365	5.316	4.808	4.6	4.532	5.355	4.626
		COP	1.136	1.355	1.611	1.856	1.94	2.24	2.204	2.188	2.288	2.682	3.227	3.663
	71.6F (22C)	TC	10.927	15.64	22.22	23.08	27.54	35.52	36.42	32.91	32.74	41.76	58.03	57.74
		Input	3.151	3.356	3.784	3.663	3.942	4.421	4.473	4.174	4.172	4.639	5.452	4.705
		COP	1.016	1.366	1.721	1.846	2.048	2.355	2.386	2.311	2.3	2.638	3.12	3.584

LEGEND
DB − Dry Bulb
WB − Wet Bulb
TC − Total Net Capacity (1000 Btu/hour)
Input − Total Power (kW)
COP − W/W

APPLICATION DATA

UNIT SELECTION

Select equipment that either matches or supports slightly more than the anticipated peak load. This provides better humidity control, fewer unit cycles, and less part−load operation.

For units used in spaces with high sensible loads, base equipment selection on unit sensible load, not on total anticipated load. Adjust for anticipated room wet bulb temperature to avoid undersizing the equipment.

UNIT MOUNTING (OUTDOOR)

Refer to the unit's installation instructions for further details.

Unit leveling − For reliable operation, units should be level in all planes.

Clearance − Minimum clearance (see Fig. 5) must be provided for airflow. The condensing units are designed for free−flow application. Air inlets and outlets should not be restricted.

Unit location − A location which is convenient to installation and not exposed to strong winds. A location that can bear the weight of the outdoor unit and where the outdoor unit can be mounted in a level position.

Do not install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your sales representative.

SYSTEM OPERATING CONDITIONS

OPERATING RANGE MIN / MAX °F (°C)		
	COOLING	HEATING
Outdoor DB	−13~122 (−25~50)	−22~86 (−30~30)

NOTE: Reference the product installation instructions for more information.

METERING DEVICES

The outdoor unit has an electronic expansion valve to manage the refrigerant flow of the connected fan coil.

DRAIN CONNECTIONS

Install drains to meet the local sanitation codes.

REFRIGERANT LINES

General refrigerant line sizing:

1. The outdoor units are shipped with a full charge of R410A refrigerant. All charges, line sizing, and capacities are based on runs of 25 ft. (7.6 m). For runs over 25 ft. (7.6 m), review the *Long Line Applications* section for the proper charge adjustments.
2. Refrigerant lines should not be buried in the ground. If it is necessary to bury the lines, do not bury more than 36−in (914 mm). Provide a minimum 6−in (152 mm) vertical rise to the service valves to prevent refrigerant migration.
3. Both lines must be insulated. Use a minimum of 1/2−in. (12.7 mm) thick insulation. Closed−cell insulation is recommended in all long−line applications.
4. Special consideration should be given to isolating the interconnecting tubing from the building structure. Isolate the tubing so vibration or noise is not transmitted into the structure.

Long Line Applications:

1. No change in line sizing is required.
2. Add refrigerant per the Additional Charge table.

ADDITIONAL CHARGE

UNIT SIZE	TOTAL LINE LENGHT ft		ADDITIONAL CHARGE, oz/ft. Ft (m)	
	Min	Max	>10−25 (3−8)	>25−213 (8−65)
36K	10	213	None	0.43
48K				
58K				

WIRING

All wires must be sized per NEC (National Electrical Code) or CEC (Canadian Electrical Code) and local codes. Use Electrical Data table MCA (minimum circuit amps) and MOCP (maximum over current protection) to correctly size the wires and the disconnect fuse or breakers respectively.

SIZES 36−58 RECOMMENDED CONNECTION METHOD FOR POWER AND COMMUNICATION WIRING

Power and Communication Wiring:

The main power is supplied to the outdoor unit. The field supplied power wiring from the outdoor unit to the indoor unit consists of three (3) wires and provides the power for the indoor unit. Two wires are high voltage AC power and one is a ground wire. To minimize voltage drop, the factory recommended wire size is 14/2 stranded with a ground.

Communication Wiring:

A separate shielded stranded copper conductor only, with a 600 volt rating and double insulated copper wire, must be used as the communication wire from the outdoor unit to the indoor unit. Please use a separate shielded 16GA stranded control wire.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Wires should be sized based on NEC and local codes.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Be sure to comply with local codes while running wire from the indoor unit to the outdoor unit.

Every wire must be connected firmly. Loose wiring may cause the terminal to overheat or result in unit malfunction. A fire hazard may also exist. Ensure all wiring is tightly connected.

No wire should touch the refrigerant tubing, compressor or any moving parts.

Disconnecting means must be provided and shall be located within sight and readily accessible from the air conditioner.

Connecting cable with conduit shall be routed through the hole in the conduit panel.

AIR FLOW DATA

SYSTEM SIZE	36K	48K	58K
Outdoor (CFM)	2,130	4,500	4,415

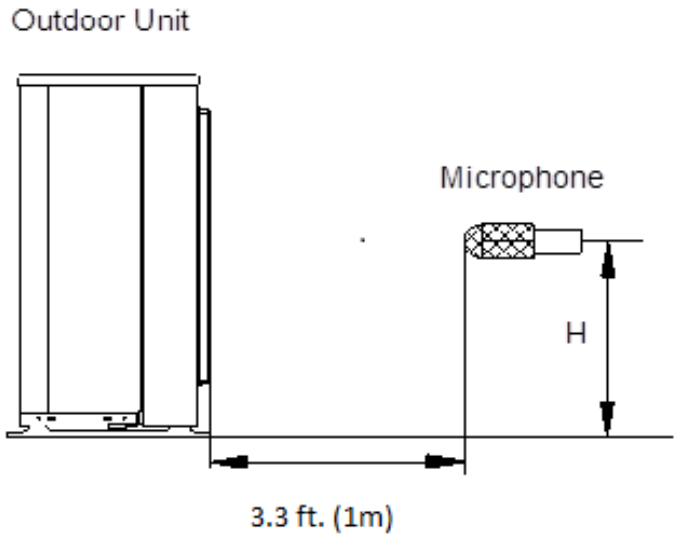
SOUND PRESSURE

SYSTEM SIZE		36K	48K	58K
Outdoor sound pressure level	dBa	63	62.5	64

SOUND PRESSURE IN OCTAVE BANDS

SIZE	Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
36K	Cooling dB(A)	51.3	59.2	56.3	51.3	49.4	46.8	42.6	35.7
	Heating dB(A)	53.8	62.3	60.8	53.7	52.0	48.4	45.8	37.8
48K	Cooling dB(A)	59.2	61.6	55.9	58.1	59.6	51.9	47.8	43.8
	Heating dB(A)	65.1	66.1	61.3	59.7	58.2	54.1	47.5	43.6
58K	Cooling dB(A)	22.9	41.3	46.6	50.1	50.8	52.6	46.0	40.4
	Heating dB(A)	30.0	46.8	48.4	52.0	54.3	52.8	43.7	41.3

OUTDOOR UNIT SOUND PRESSURE TEST CONDITIONS



NOTE: H=0.5 x Height of outdoor unit

	INDOOR CONDITION		OUTDOOR CONDITION	
	DB	WB	DB	WB
Cooling	80.6F (27C)	66.2F (19C)	95F (35C)	75.2F (24C)
Heating	68F (20C)	59F (15C)	44.6F (7C)	42.8F (6C)

FAN AND MOTOR SPECIFICATIONS

SYSTEM SIZE			36K	48K	58K
Outdoor Fan Propeller	Material	−−	AS	AS	AS
	Type	−−	ZL−560*139*12−3KN	ZL−554*148*12−3KFN	ZL−554*148*12−3KFN
	Diameter	in	22.05 (560)	21.81 (554)	21.81 (554)
	Height	in	5.47 (139)	5.83 (148)	5.83 (148)
Outdoor Fan Motor	Model	−−	WZDK120−38G−W	ZKFN−85−8−22	ZKFN−85−8−22
	Type	−−	DC	DC	DC
	Phase	−−	1	1	1
	FLA	A	1.21	1.17	1.17
	Insulation Class	−−	E	E	E
	Safe Class	−−	IPX0	IPX0	IPX0
	Input	W	150	126	126
	Output	W	120	85	85
	Range of current	A	1.21±10%	1.17±10%	1.17±10%
	Rated current	A	1.21	1.17	1.17
	Capacitor	μF	N/A	N/A	N/A
	Rated HP	HP	0.16	0.14	0.14
	Speed	rev/min	850/800/750	900/850/750	900/850/750
	Rated RPM	rev/min	1050	900	900
	Max. input	W	150	126	126

ELECTRICAL DATA

OUTDOOR UNIT SIZE		36K	48K	58K
Power Supply	Volts−PH−Hz	208/230−1−60	208/230−1−60	208/230−1−60
	Max − Min* Oper. Voltage	253−187	253−187	253−187
	MCA	30	35	35
	Max Fuse/CB AMP	50	50	50
Compressor	Volts−PH−Hz	208/230−1−60	208/230−1−60	208/230−1−60
	RLA	8.85	11.86	11.86

*Permissible limits of the voltage range at which the unit will operate satisfactorily.

LEGEND
MCA − Minimum Circuit Amps
RLA − Rated Load Amps

WIRING DIAGRAMS

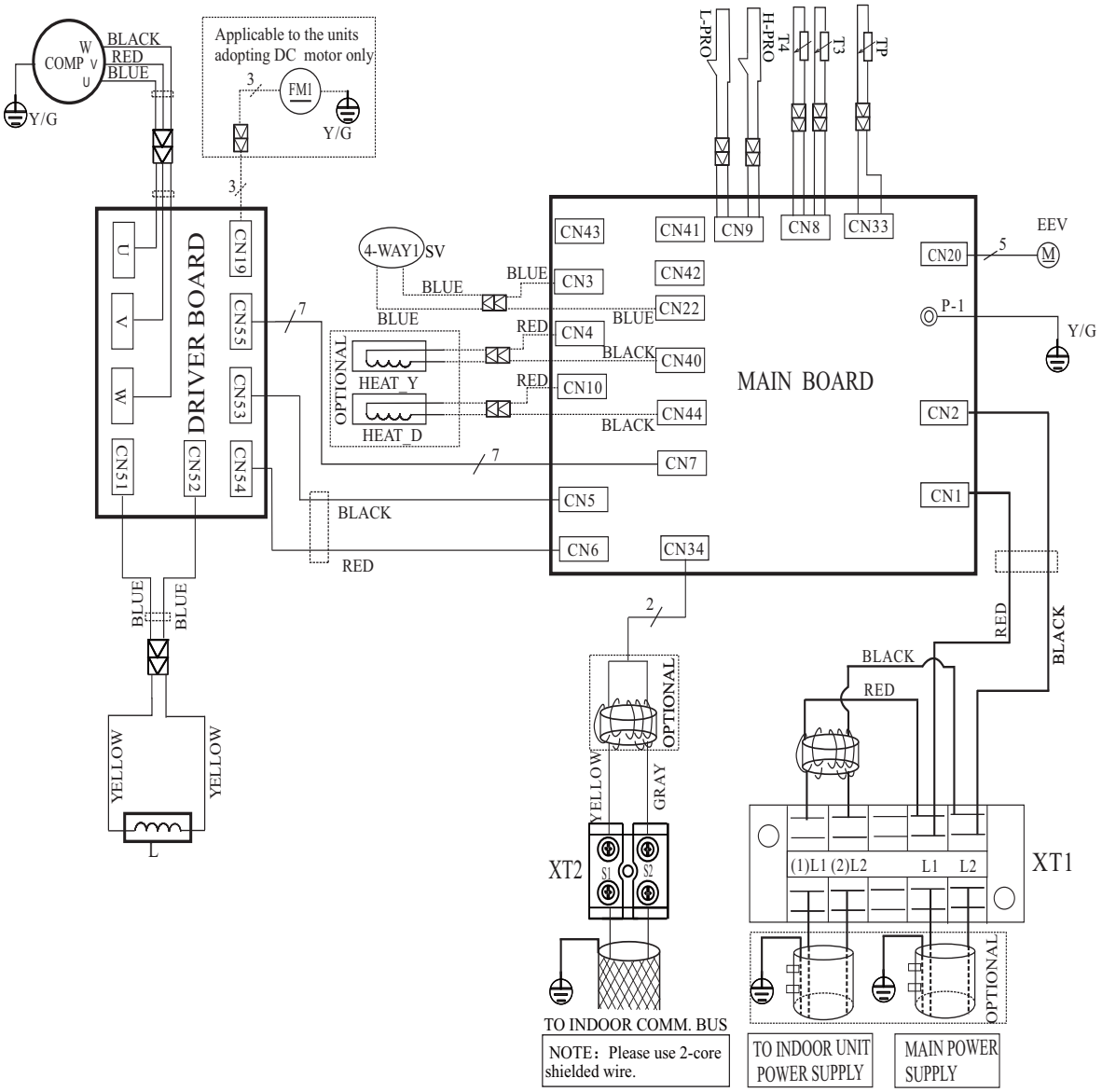


Fig. 7 – Wiring Diagram Size 36K

WIRING DIAGRAMS (CONT)

OUTDOOR UNIT MAIN BOARD	
CODE	**PART NAME**
CN1~CN2	Input: 230VAC High voltage
CN5~CN6	Output: 230VAC High voltage
P–1	Connection to the earth
CN10~CN44	Output: 230VAC High voltage Chassis Crankcase Heater
CN4~CN40	Output: 230VAC High voltage Compressor Crankcase Heat
CN3~CN22	Output: 230VAC High voltage
CN43	Output: Pin3~Pin2, Pin4~Pin2 (230 VAC High voltage) For AC FAN
CN41~CN42	Output To AC FAN Capacitor
CN34	Output:–24VDC–24VDC
CN33	Input: Pin 1 (0–5VDC),Pin 2 (5VDC) Discharge Temperature Sensor
CN8	Input: Pin3, Pin4 (5VDC),Pin2 (0VDC),Pin1,Pin5 (0–5VDC) T3 & T4
CN9	Input: Pin2, Pin4 (0VDC),Pin1,Pin3 (0–5VDC) H/L Pressure Switch
CN20	Output: Pin1–Pin4: Pulse waveform(0–12VDC),Pin5, Pin6 (12VDC)
CN7	Output: Pin1 (12VDC),Pin2 (5VDC),Pin3 (EARTH)

OUTDOOR UNIT PFC & IPM BOARD	
CODE	**PART NAME**
CN53~CN54	Input: 230VAC High voltage
CN55	Output: Pin1 (12VDC),Pin2 (5VDC),Pin3 (EARTH)
CN19	Pin1~Pin3: Connect to FAN voltage among phases 0~200VAC
U~V~W	Connect to compressor voltage among phases 0~200VAC
CN51~CN52	CN51~EARTH ,CN52~EARTH Output: 224–380VDC High voltage

CODE	PART NAME	CODE	PART NAME
COMP	COMPRESSOR	L	PFC INDUCTOR
CAP1	FAN MOTOR CAPACITOR	L–PRO	LOW PRESSURE SWITCH
HEAT	CRANKCASE HEATING	H–PRO	HIGH PRESSURE SWITCH
FM1	OUTDOOR DC FAN	SV	4–WAY VALVE
FAN1	OUTDOOR AC FAN	T3	CONDENSER TEMPERATURE SENSOR
EEV	ELECTRONICEXPANSION VALVE	T4	OUTDOOR AMBIENT TEMPERATURE SENSOR

WIRING DIAGRAMS (CONT)

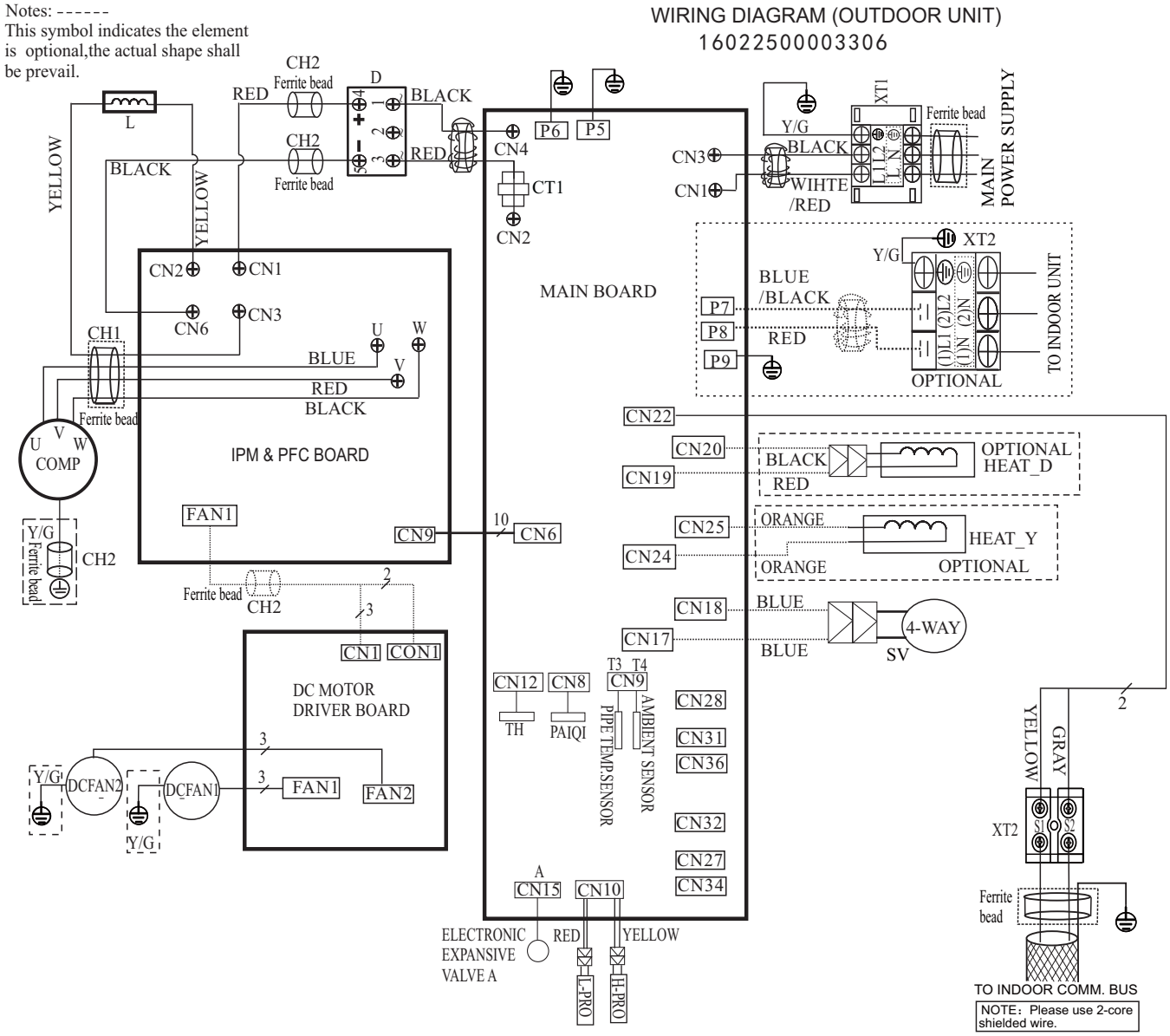


Fig. 8 – Wiring Diagram − Sizes 48K and 58K

OUTDOOR UNIT MAIN BOARD	
CODE	**PART NAME**
CN1～CN3	Input: 230VAC High voltage
P7～P8	Output: 230VAC High voltage to IDU
P5,P6,P9	Connection to the earth
CN22	Output:−24VDC−24VDC for IDU Communication
CN17～CN18	Output: 230VAC High voltage 4 way valve
CN19～CN20	Output: 230VAC High voltage Chassis Crankcase Heater
CN24～CN25	Output: 230VAC High voltage Compressor Crankcase Heater
CN2～CN4	Output: 230VAC High voltage to AC CURRENT DETECTOR
CN12	Input: Pin1 (0−5VDC),Pin2 (5VDC) Heatsink Temperature Sensor
CN8	Input: Pin1 (0−5VDC),Pin2 (5VDC) Compressor Top Sensor(PAIQI)
CN9	Input: Pin3,Pin4 (5VDC),Pin2 (0VDC),Pin1,Pin5 (0−5VDC) the ambient sensor and pipe sensor
CN10	Input: Pin2, Pin4 (0VDC),Pin1,Pin3 (0−5VDC) for the H/L pressure switch
CN15	Output: Pin1−Pin4: Pulse waveform (0−12VDC),Pin5, Pin6 (12VDC) EEV
CN6	Output: Pin1−Pin6: Pulse waveform (0−5VDC), Pin7, Pin9 (0VDC) Pin8 (0−5VDC), Pin10 (5VDC)

WIRING DIAGRAMS (CONT)

OUTDOOR UNIT PFC & IPM BOARD	
CODE	**PART NAME**
CN1～CN6	Output:224—380VDC High voltage to DIODE MODULE
CN2～CN3	Output:224—380VDC High voltage to PFC INDUCTOR
U～V～W	Connection to compressor voltage among phases 0～200VAC
CN9	Input:Pin1—Pin6: Pulse waveform (0—5VDC),Pin7, Pin9 (0VDC) Pin8 (0—5VDC),Pin10 (5VDC)
FAN1	Output: Pin1～Pin2: High voltage (224—380VDC), Pin4 (0—15VDC) Pin5 (0—5.6VDC), Pin6:Pulse waveform (0—15VDC)

OUTDOOR UNIT DC MOTOR DRIVER BOARD	
CODE	**PART NAME**
CON1	Output:Pin1～Pin2:High voltage (224—380VDC)
CN1	Input: Pin4: Pulse waveform (0—15VDC) ,Pin3 (0—6.5VDC) Pin2 (0VDC),Pin1 (15VDC)
FAN1	Pin1—Pin3: Connect to FAN voltage among phases 0～200VAC
FAN2	Pin1—Pin3: Connect to FAN voltage among phases 0～200VAC

CODE	**PART NAME**
COMP	COMPRESSOR
CAP1,CAP2	FAN MOTOR CAPACITOR
CT1	AC CURRENT DETECTOR
D	DIODE MODULE
EEV	ELECTRONIC EXPANSION VALVE
FM1,FM2	OUTDOOR DC FAN
FAN1,FAN2	OUTDOOR AC FAN
HEAT	CRANKCASE HEATING
H—PRO	HIGH PRESSURE SWITCH
L	PFC INDUCTOR
L—PRO	LOW PRESSURE SWITCH
KM	AC CONTACTOR
SV	4—WAY VALVE
TP	EXHAUST TEMPERATURE SENSOR
T3	CONDENSER TEMPERATURE SENSOR
T4	OUTDOOR AMBIENT TEMPERATURE SENSOR
TH	HEATSINK TEMPERATURE SENSOR
PAIQI	COMPRESSOR TOP SENSOR (GAS PIPE SENSOR)
CH 1 CH 2 CH 3	FERRITE BEAD

GUIDE SPECIFICATIONS
HORIZONTAL DISCHARGE OUTDOOR UNITS

Size Range: 3 to 5 Ton Nominal Cooling and Heating Capacity
Model Number: 38MBR

PART 1 − GENERAL

1.01 System Description

A. Outdoor air−cooled split system compressor sections suitable for on−the−ground, rooftop, wall hung or balcony mounting. Units consist of a rotary compressor, an air−cooled coil, propeller−type draw−through outdoor fan, reversing valve (HP), accumulator (HP units), metering device(s), and a control box. Units discharge air horizontally as shown on the contract drawings. Units function as the outdoor component of an air−to−air heat pump system.

B. Units are to be used in a refrigeration circuit matched to ductless heat pump fan coil units.

1.02 Agency Listings

A. Unit construction complies with ANSI/ASHRAE 15, latest revision, and with the NEC.

B. Units are evaluated in accordance with UL standard 1995.

C. Units are listed in the CEC directory.

D. Unit cabinet is capable of withstanding 500−hour salt spray test per Federal Test Standard No. 141 (method 6061).

E. Air−cooled condenser coils are leak tested at 550 psig.

1.03 Delivery, Storage, And Handling

Units are shipped in one piece and are stored and handled per unit manufacturer's recommendations.

1.04 Warranty (For Inclusion By Specifying Engineer)

PART 2 − PRODUCTS

2.01 Equipment

A. General:

Factory assembled, single piece, air−cooled outdoor unit. Contained within the unit enclosure is all the factory wiring, piping, controls, and the compressor.

B. Unit Cabinet:

1. Unit cabinet is constructed of galvanized steel, bonderized and coated with a baked−enamel finish on the inside and outside.
2. Unit access panels is removable with minimal screws and provides full access to the compressor, fan, and control components.
3. The outdoor compartment is isolated and has an acoustic lining to assure quiet operation.

C. Fans:

1. Outdoor fans are the direct drive propeller type, and discharges air horizontally. Fans draw air through the outdoor coil.
2. Outdoor fan motors are totally enclosed, single phase motors with class E insulation and permanently lubricated ball bearings. Motor shall be protected by internal thermal overload protection.
3. The shaft has inherent corrosion resistance.
4. Fan blades are non−metallic and statically and dynamically balanced.
5. Outdoor fan openings are equipped with a PVC metal/mesh coated protection grille over the fan.

D. Compressor:

1. Compressor is the fully hermetic rotary type.
2. Compressor is equipped with an oil system, operating oil charge, and a motor.
3. Motor is NEMA rated class E, suitable for operation in a refrigerant atmosphere.
4. Compressor assembly is installed on rubber vibration isolators.

E. Outdoor Coil:

The coil is constructed of aluminum golden hydrophilic pre−coated fins mechanically bonded to seamless copper tubes, which are cleaned, dehydrated, and sealed.

F. Refrigeration Components:

Refrigerant circuit components include a brass external liquid line service valve with service gage port connections, a suction line service valve with a service gage connection port, service gage port connections on compressor suction and discharge lines with Schrader type fittings with brass caps, accumulator, reversing valve.

G. Controls and Safeties:

Operating controls and safeties are factory selected, assembled, and tested. The minimum control functions include the following:

1. Controls:
   a. A time delay control sequence is provided standard through the fan coil board
   b. Automatic outdoor fan motor protection.
2. Safeties:
   a. System diagnostics
   b. Compressor motor current and temperature overload protection
   c. Outdoor fan failure protection.

H. Electrical Requirements:

1. Unit operates on single−phase, 60 Hz power at 208/230V as specified.
2. Unit electrical power has a single point connection.
3. Unit Control voltage to the indoor fan coil is 0−15V DC.
4. All power and control wiring must be installed per NEC and all local electrical codes.
5. The unit has high and low voltage terminal block connections.

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Catalog No: 38MBR—03PD

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Replaces: 38MBR—02PD

Performance™ 14 Packaged Heat Pump System with Puron® Refrigerant

Carrier®

Turn to the Experts.℠

Performance® SERIES



High-Efficiency Packaged Heat Pump with 14.0 SEER / 12.0 EER and up to 8.0 HSPF

Efficiency

When buying a car, most consumers know that the miles-per-gallon rating on the window sticker was attained under carefully controlled conditions. And, you don't just get one rating, you get two – city mileage and highway mileage. Because the Performance™ 14 packaged heat pump provides both heating and cooling, its efficiency is measured with three distinct ratings. SEER and EER are used to measure cooling efficiency, while HSPF measures heating efficiency. The higher the SEER, EER or HSPF the higher the efficiency.

14.0 SEER RATING

- The Performance 14 system delivers 14.0 SEER cooling efficiency.
- This system also delivers a 12.0 EER rating, which measures the unit's cooling performance under peak conditions.

12.0 EER RATING

- During heating operation you can expect up to 8.0 HSPF.
- As an ENERGY STAR® partner, Carrier Corporation has determined that the Performance™ Series packaged heat pump that achieves system combinations of 14.0 SEER and 12.0 EER or higher meets the ENERGY STAR guidelines for energy efficiency.

Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your dealer for details or visit www.energystar.gov.

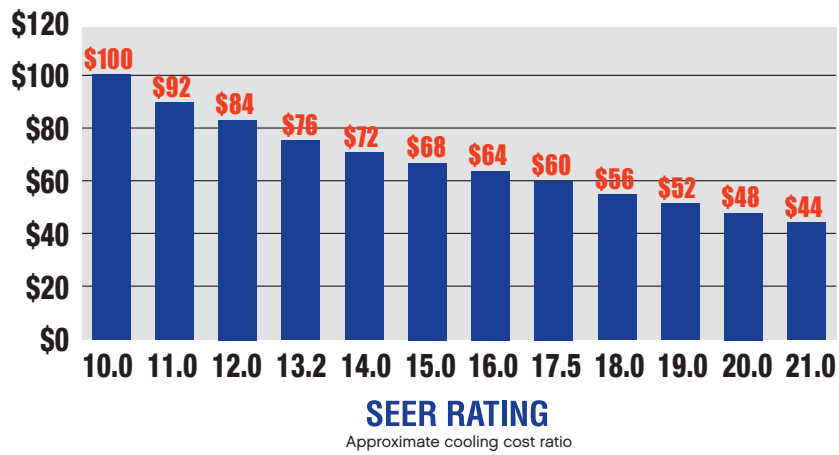


High-Efficiency Packaged Heat Pump Designed with Your Comfort in Mind



Greater Operational Efficiency

For every $100 spent to cool your home using a 10.0 SEER packaged heat pump, a 14.0 SEER packaged heat pump should cost approximately $72 during cooling operation. Actual savings will vary depending on the efficiency of your current system.





Things to Consider Before You Buy

Puron® Refrigerant

The Carrier® Performance™ 14 packaged heat pump with Puron refrigerant delivers the comfort your family deserves with excellent reliability and proven performance. And because it uses Puron refrigerant, this environmentally sound system won't deplete the ozone layer. Carrier introduced Puron refrigerant a full six years ahead of the competition, paving the way for the future of indoor comfort. That was an important milestone because the Clean Air Act of 1990 prohibits the production of traditional HCFC-based heat pumps and air conditioners by 2010. It also bans Freon®-22* production by 2020. As Freon® production is reduced its cost may increase. By comparison, Freon®-12 in the automotive industry increased by a whopping 800% seven years after its phase-out! Choose a heating and cooling system with Puron refrigerant today so you can enjoy comfort that's environmentally sound, efficient, dependable and designed for the future.

Puron®
the environmentally sound refrigerant

12.0 EER Performance

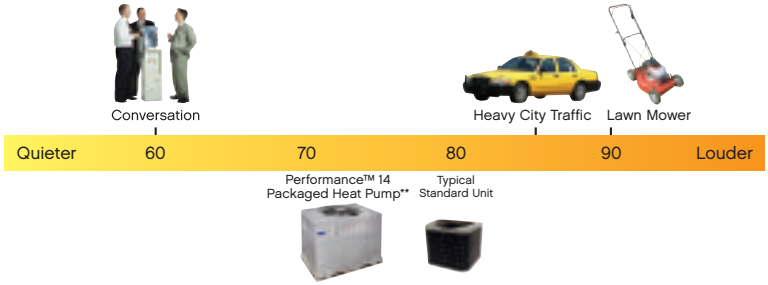
Carrier specializes in creating a customized home comfort system tailored to your needs with our broad selection of residential heating and cooling products. Your Carrier dealer can help you choose the best system for your home, including a Performance 14 packaged heat pump and Carrier-exclusive features that further enhance your indoor environment. This system gives you the benefit of both electric heating and cooling in one efficient package. Once you've set your desired temperature on the thermostat or control, the system automatically switches to the appropriate heating or cooling cycle.

- Informed consumers know that cooling efficiencies are measured by both SEER and EER. SEER is an average measure of performance under varying conditions throughout the cooling season when a majority of the days typically reach relatively moderate temperatures. EER is an air conditioner's measured efficiency at a constant 95 degrees Fahrenheit.
- EER ratings represent your system's ability to provide cool comfort and energy efficiency during the hottest days of the summer. More importantly, a unit with a high SEER doesn't always have a high EER rating as well. The Carrier Performance 14 packaged heat pump outperforms many other 14.0 SEER models because it also achieves a high 12.0 EER rating.

Sound

Carrier believes that quiet operation is a vital component to your total home comfort experience. So we engineer our products to offer quiet delivery of conditioned air. With sound ratings as low as 72 dBA**, the Performance 14 packaged heat pump lets you relax without a lot of background noise.

Comparative Sound Ratings
(decibels)



** Freon is a registered trademark of E. I. Dupont de Nemours & Co.*

*** Per standard testing as described by ARI 270-95. Other sound levels, mentioned for comparison, as published at http://www.nidcd.nih.gov/health/hearing.ruler.asp.*

Carrier® Systems for Unmatched Performance

Air Cleaner improves air quality by removing harmful and irritating airborne pollutants from your home.

Humidifier replenishes moisture to dry air.

Zoning sets different temperatures for up to eight different areas of your home for truly customized comfort and enhanced utility savings.



Thermidistat™ Control allows precise temperature and humidity control along with programmable features to further customize your comfort.

Ventilator combines fresh outdoor air with conditioned indoor air for improved air quality and maximum efficiency – great for today's tightly constructed home.

Performance™ 14 packaged heat pump is designed to use environmentally sound Puron® refrigerant and electricity for economical utility costs throughout the year. *Optional louvers shown.*

Reliability

At Carrier, your comfort is our business. That's why we have one of the most extensive product research and development facilities in the world. Within each step of the development process, from the design phase to finished products, we test each and every unit produced to ensure its performance is up to our standards. In addition, the Performance 14 packaged heat pump with Puron refrigerant is tested for applications up to 125 degrees. That's a full 10 degrees higher than industry standards. And, Carrier systems have one of the lowest failure rates in the industry.

Durability

Neither rain nor hail nor golf or soccer balls can keep a Carrier system from doing its job – it's built tough, inside and out.

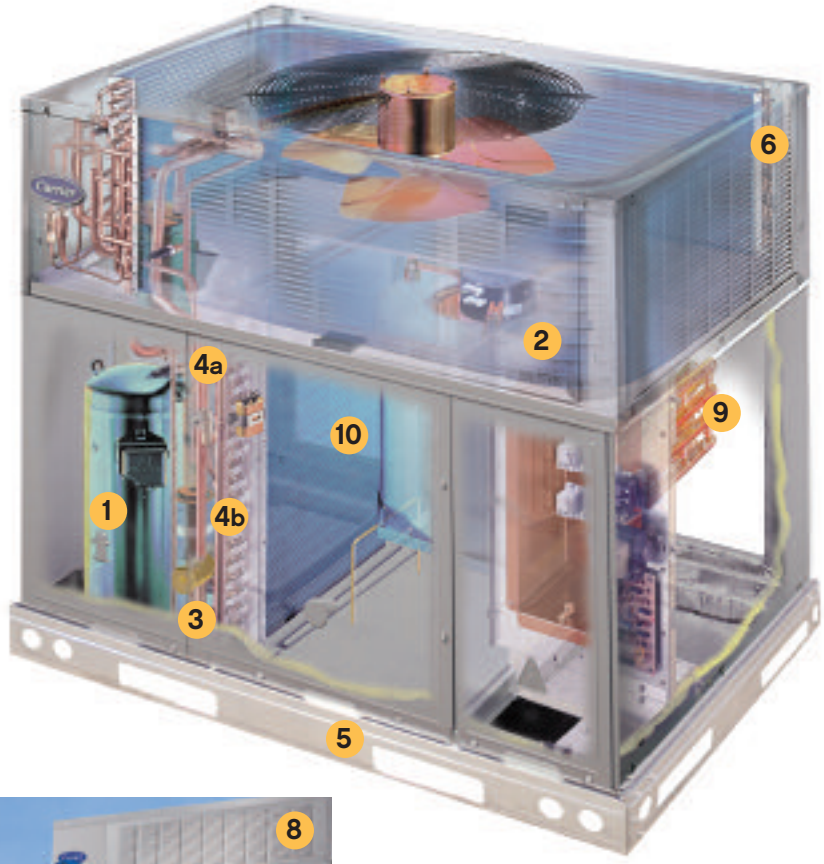
Outside

- Galvanized steel cabinet protects against corrosion, keeping your packaged heat pump looking good for years.
- Carrier's innovative base combines a high-tech composite interior for light weight and corrosion resistance with outer base rails for structural integrity and easier handling and rigging for your installing dealer. The sloped drain pan design improves drainage and helps inhibit mold, algae and bacterial growth.
- Three separate access panels make installation and routine maintenance easier.

Inside

- High- and low-pressure switches turn your system off if harmful conditions are detected.
- Filter drier helps keep the refrigerant system free from excess moisture and debris.
- Thermostatic™ Expansion Valve consistently monitors refrigerant flow for peak operating conditions.

Performance™ SERIES







Specifications

Small Packaged	Infinity™ Controls Capable	Standard Variable Speed Fan	Humidity Management	Thermostatic Expansion Valve	Puron® Refrigerant	SEER	HSPF Heating Seasonal Performance Factor	EnviroTuff™ Base	ENERGY STAR®
Infinity™ 15	✓	✓	✓	✓	✓	15.0	8.0	✓	✓
Performance™ Series			✓	✓	✓	14.0	8.0	✓	✓
Comfort™ Series*			✓	✓	✓	13.0	7.7	✓	

Limited Warranty

To the original owner, the Carrier® Performance™ 14 packaged heat pump system is covered by a 10-year parts limited warranty upon timely registration of your new equipment.* Copper indoor evaporator coil is covered by a five-year parts limited warranty. Optional tin-plated evaporator coil is covered by a 10-year parts limited warranty. Ask your Carrier dealer about optional extended warranties, which may include labor.

* Warranty period is five-year parts limited warranty if not registered within 90 days. Jurisdictions where warranty benefits cannot be conditioned on registration will automatically receive a 10-year parts limited warranty. See warranty certificate at carrier.com for complete details.

** Freon is a registered trademark of E. I. Dupont de Nemours & Co.*

Technology

Puron refrigerant – environmentally sound, replaces Freon-22* and won't deplete the ozone layer.

1. **Compressor** – the heart of the comfort system, available for single- and three-phase operation for reliable, quiet, high-efficiency comfort.
2. **Energy-saving blower** – optimizes airflow for your home's heating and cooling needs with an electronically controlled, programmable motor. This motor delivers higher efficiency than standard, PSC-type motors.
3. **Thermostatic™ Expansion Valve** – consistently monitors refrigerant flow for peak operating conditions.
4. **Reliability features:**
   a. **High- and low-pressure switches** – help protect the compressor from operating outside of normal pressure ranges.
   b. **Filter drier** – helps keep the refrigerant system free from excess moisture and debris.
5. **Innovative base** – On the inside, a high-tech composite material will not rust. Sloped drain pan improves drainage to help inhibit mold, algae and bacterial growth. Outside, metal base rails provide added stability as well as easier dealer handling and rigging.
6. **Galvanized steel cabinet with louvered grille** – protects the coil against potential hazards often associated with outdoor installation such as rocks, sticks and garden equipment.
7. **Enhanced dehumidification** – with our optional Thermidistat™ Control allows you to enjoy improved energy efficiency and comfort during the cooling season.
8. **All-in-one versatility** – with most models weighing less than 500 pounds, this system gives you the flexibility for rooftop installation when space is a concern.
9. **Optional electric strip heater** – adds an electric-resistance heating element to maintain your comfort during extreme outdoor conditions. Offered in a variety of sizes to meet most heating needs.
10. **Optional ArmorCoat™ tin-plated coil** – provides superior corrosion resistance compared to our standard copper tube/aluminum fin coil for longer life. Tin-plated coil is backed with a 10-year limited warranty.

10 YEAR LIMITED WARRANTY



Turn to the Experts

Willis Carrier invented air conditioning in 1902. Over 100 years later, we're proud to say Carrier® systems are trusted in more homes than any other brand.

Carrier continues to be on the forefront of innovative engineering and unsurpassed standards of excellence. So when choosing a home comfort system, you'll want to turn to the experts. Your Carrier dealer will evaluate your home, such as window placement and size, ductwork, other structural specifics and lifestyle to provide a customized indoor comfort plan designed specifically for you. And when you have an expert helping you make an educated decision, you're going to feel more comfortable.

Carrier®

Turn to the Experts℠

www.carrier.com **1-800-CARRIER**

A member of the United Technologies Corporation family.
Stock Symbol UTX.

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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.
Model 50VT

PRINTED ON RECYCLED PAPER

ENERGUIDE
Seasonal Energy Efficiency Ratio (SEER)
THIS MODEL 14.0
13.0 — Uses least energy → 17.0

c UL us

Always look for these symbols, the heat pump industry seals of certified performance, efficiency and capacity.

Appendix C-1

Air Quality Data

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Off-road Equipment -

Grading - Applicant provided import/export

Demolition - Per applicant provided information

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site.

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	8/15/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	9/28/2021	10/5/2021
tblConstructionPhase	PhaseEndDate	10/11/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	8/29/2022	12/7/2021
tblConstructionPhase	PhaseEndDate	10/1/2021	10/5/2021
tblConstructionPhase	PhaseStartDate	8/30/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/12/2021	12/8/2021
tblConstructionPhase	PhaseStartDate	10/2/2021	10/6/2021
tblConstructionPhase	PhaseStartDate	8/16/2022	11/3/2021
tblConstructionPhase	PhaseStartDate	9/29/2021	9/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Annual

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					
2021	0.0936	1.1399	0.7141	2.0600e-003	0.1561	0.0448	0.2009	0.0500	0.0417	0.0916	0.0000	190.5869	190.5869	0.0336	0.0136	195.4691
2022	0.2105	0.8273	1.0413	1.7900e-003	0.0206	0.0448	0.0654	5.5400e-003	0.0428	0.0484	0.0000	156.9856	156.9856	0.0229	1.8200e-003	158.1000
2023	0.0880	0.0423	0.0582	1.0000e-004	1.0700e-003	2.1700e-003	3.2400e-003	2.9000e-004	2.0900e-003	2.3800e-003	0.0000	8.7335	8.7335	1.1300e-003	8.0000e-005	8.7861
Maximum	**0.2105**	**1.1399**	**1.0413**	**2.0600e-003**	**0.1561**	**0.0448**	**0.2009**	**0.0500**	**0.0428**	**0.0916**	**0.0000**	**190.5869**	**190.5869**	**0.0336**	**0.0136**	**195.4691**

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					
2021	0.0936	1.1399	0.7141	2.0600e-003	0.0870	0.0448	0.1318	0.0271	0.0417	0.0687	0.0000	190.5867	190.5867	0.0336	0.0136	195.4690
2022	0.2105	0.8273	1.0413	1.7900e-003	0.0206	0.0448	0.0654	5.5400e-003	0.0428	0.0484	0.0000	156.9855	156.9855	0.0229	1.8200e-003	158.0998
2023	0.0880	0.0423	0.0582	1.0000e-004	1.0700e-003	2.1700e-003	3.2400e-003	2.9000e-004	2.0900e-003	2.3800e-003	0.0000	8.7334	8.7334	1.1300e-003	8.0000e-005	8.7861
Maximum	**0.2105**	**1.1399**	**1.0413**	**2.0600e-003**	**0.0870**	**0.0448**	**0.1318**	**0.0271**	**0.0428**	**0.0687**	**0.0000**	**190.5867**	**190.5867**	**0.0336**	**0.0136**	**195.4690**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Annual

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**	**38.89**	**0.00**	**25.65**	**41.09**	**0.00**	**16.10**	**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	**9-1-2021**	**11-30-2021**	1.1226	1.1226
2	**12-1-2021**	**2-28-2022**	0.2426	0.2426
3	**3-1-2022**	**5-31-2022**	0.2288	0.2288
4	**6-1-2022**	**8-31-2022**	0.2287	0.2287
5	**9-1-2022**	**11-30-2022**	0.2265	0.2265
6	**12-1-2022**	**2-28-2023**	0.3416	0.3416
		Highest	1.1226	1.1226

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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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

	ROG	NOx	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
5	Paving	Paving	11/3/2021	12/7/2021	5	25	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	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

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	14.00	0.00	314.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	5.1400e-003	0.0000	5.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2462	0.1812	3.0000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	26.3392	26.3392	6.7400e-003	0.0000	26.5076
Total	**0.0249**	**0.2462**	**0.1812**	**3.0000e-004**	**0.0339**	**0.0130**	**0.0470**	**5.1400e-003**	**0.0121**	**0.0173**	**0.0000**	**26.3392**	**26.3392**	**6.7400e-003**	**0.0000**	**26.5076**

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	1.0300e-003	0.0316	6.9700e-003	1.0000e-004	2.7000e-003	3.5000e-004	3.0500e-003	7.4000e-004	3.3000e-004	1.0700e-003	0.0000	9.9612	9.9612	5.2000e-004	1.5800e-003	10.4450
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	6.5000e-004	5.7000e-004	7.1000e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6279	1.6279	5.0000e-005	5.0000e-005	1.6432
Total	**1.6800e-003**	**0.0322**	**0.0141**	**1.2000e-004**	**4.6200e-003**	**3.6000e-004**	**4.9800e-003**	**1.2500e-003**	**3.4000e-004**	**1.5900e-003**	**0.0000**	**11.5892**	**11.5892**	**5.7000e-004**	**1.6300e-003**	**12.0882**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

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					0.0153	0.0000	0.0153	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2462	0.1812	3.0000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	26.3391	26.3391	6.7400e-003	0.0000	26.5075
Total	**0.0249**	**0.2462**	**0.1812**	**3.0000e-004**	**0.0153**	**0.0130**	**0.0283**	**2.3100e-003**	**0.0121**	**0.0145**	**0.0000**	**26.3391**	**26.3391**	**6.7400e-003**	**0.0000**	**26.5075**

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	1.0300e-003	0.0316	6.9700e-003	1.0000e-004	2.7000e-003	3.5000e-004	3.0500e-003	7.4000e-004	3.3000e-004	1.0700e-003	0.0000	9.9612	9.9612	5.2000e-004	1.5800e-003	10.4450
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	6.5000e-004	5.7000e-004	7.1000e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.6279	1.6279	5.0000e-005	5.0000e-005	1.6432
Total	**1.6800e-003**	**0.0322**	**0.0141**	**1.2000e-004**	**4.6200e-003**	**3.6000e-004**	**4.9800e-003**	**1.2500e-003**	**3.4000e-004**	**1.5900e-003**	**0.0000**	**11.5892**	**11.5892**	**5.7000e-004**	**1.6300e-003**	**12.0882**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0209	0.0000	0.0209	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2286	0.1344	3.1000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**0.0193**	**0.2286**	**0.1344**	**3.1000e-004**	**0.0209**	**8.7700e-003**	**0.0297**	**2.3100e-003**	**8.0700e-003**	**0.0104**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	7.6300e-003	0.2341	0.0516	7.4000e-004	0.0200	2.5800e-003	0.0226	5.5000e-003	2.4700e-003	7.9600e-003	0.0000	73.7892	73.7892	3.8600e-003	0.0117	77.3727
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	3.7000e-004	3.2000e-004	4.0600e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9303	0.9303	3.0000e-005	3.0000e-005	0.9390
Total	**8.0000e-003**	**0.2344**	**0.0557**	**7.5000e-004**	**0.0211**	**2.5900e-003**	**0.0237**	**5.7900e-003**	**2.4800e-003**	**8.2600e-003**	**0.0000**	**74.7194**	**74.7194**	**3.8900e-003**	**0.0117**	**78.3117**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

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					9.4200e-003	0.0000	9.4200e-003	1.0400e-003	0.0000	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2286	0.1344	3.1000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**0.0193**	**0.2286**	**0.1344**	**3.1000e-004**	**9.4200e-003**	**8.7700e-003**	**0.0182**	**1.0400e-003**	**8.0700e-003**	**9.1100e-003**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	7.6300e-003	0.2341	0.0516	7.4000e-004	0.0200	2.5800e-003	0.0226	5.5000e-003	2.4700e-003	7.9600e-003	0.0000	73.7892	73.7892	3.8600e-003	0.0117	77.3727
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	3.7000e-004	3.2000e-004	4.0600e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9303	0.9303	3.0000e-005	3.0000e-005	0.9390
Total	**8.0000e-003**	**0.2344**	**0.0557**	**7.5000e-004**	**0.0211**	**2.5900e-003**	**0.0237**	**5.7900e-003**	**2.4800e-003**	**8.2600e-003**	**0.0000**	**74.7194**	**74.7194**	**3.8900e-003**	**0.0117**	**78.3117**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2503
Total	**0.0183**	**0.2021**	**0.0976**	**2.1000e-004**	**0.0708**	**9.1600e-003**	**0.0800**	**0.0343**	**8.4200e-003**	**0.0427**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2503**

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	3.7000e-004	3.2000e-004	4.0600e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9303	0.9303	3.0000e-005	3.0000e-005	0.9390
Total	**3.7000e-004**	**3.2000e-004**	**4.0600e-003**	**1.0000e-005**	**1.1000e-003**	**1.0000e-005**	**1.1000e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.9303**	**0.9303**	**3.0000e-005**	**3.0000e-005**	**0.9390**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

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					0.0319	0.0000	0.0319	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2502
Total	**0.0183**	**0.2021**	**0.0976**	**2.1000e-004**	**0.0319**	**9.1600e-003**	**0.0410**	**0.0154**	**8.4200e-003**	**0.0238**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2502**

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	3.7000e-004	3.2000e-004	4.0600e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9303	0.9303	3.0000e-005	3.0000e-005	0.9390
Total	**3.7000e-004**	**3.2000e-004**	**4.0600e-003**	**1.0000e-005**	**1.1000e-003**	**1.0000e-005**	**1.1000e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.9303**	**0.9303**	**3.0000e-005**	**3.0000e-005**	**0.9390**

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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 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0599	0.0668	1.0000e-004		3.5800e-003	3.5800e-003		3.4200e-003	3.4200e-003	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**6.5200e-003**	**0.0599**	**0.0668**	**1.0000e-004**		**3.5800e-003**	**3.5800e-003**		**3.4200e-003**	**3.4200e-003**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	1.0000e-004	2.1800e-003	7.0000e-004	1.0000e-005	2.3000e-004	3.0000e-005	2.6000e-004	7.0000e-005	3.0000e-005	1.0000e-004	0.0000	0.7062	0.7062	2.0000e-005	1.0000e-004	0.7372
Worker	4.0000e-004	3.5000e-004	4.3800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0047	1.0047	3.0000e-005	3.0000e-005	1.0141
Total	**5.0000e-004**	**2.5300e-003**	**5.0800e-003**	**2.0000e-005**	**1.4100e-003**	**4.0000e-005**	**1.4500e-003**	**3.8000e-004**	**4.0000e-005**	**4.2000e-004**	**0.0000**	**1.7109**	**1.7109**	**5.0000e-005**	**1.3000e-004**	**1.7513**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2021

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	6.5200e-003	0.0599	0.0668	1.0000e-004		3.5800e-003	3.5800e-003		3.4200e-003	3.4200e-003	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**6.5200e-003**	**0.0599**	**0.0668**	**1.0000e-004**		**3.5800e-003**	**3.5800e-003**		**3.4200e-003**	**3.4200e-003**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	1.0000e-004	2.1800e-003	7.0000e-004	1.0000e-005	2.3000e-004	3.0000e-005	2.6000e-004	7.0000e-005	3.0000e-005	1.0000e-004	0.0000	0.7062	0.7062	2.0000e-005	1.0000e-004	0.7372
Worker	4.0000e-004	3.5000e-004	4.3800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0047	1.0047	3.0000e-005	3.0000e-005	1.0141
Total	**5.0000e-004**	**2.5300e-003**	**5.0800e-003**	**2.0000e-005**	**1.4100e-003**	**4.0000e-005**	**1.4500e-003**	**3.8000e-004**	**4.0000e-005**	**4.2000e-004**	**0.0000**	**1.7109**	**1.7109**	**5.0000e-005**	**1.3000e-004**	**1.7513**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

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	0.0848	0.7840	0.9586	1.5100e-003		0.0438	0.0438		0.0418	0.0418	0.0000	130.6730	130.6730	0.0220	0.0000	131.2227
Total	**0.0848**	**0.7840**	**0.9586**	**1.5100e-003**		**0.0438**	**0.0438**		**0.0418**	**0.0418**	**0.0000**	**130.6730**	**130.6730**	**0.0220**	**0.0000**	**131.2227**

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	1.0200e-003	0.0267	8.8700e-003	1.0000e-004	3.2800e-003	2.4000e-004	3.5200e-003	9.5000e-004	2.3000e-004	1.1800e-003	0.0000	9.9298	9.9298	3.3000e-004	1.4300e-003	10.3649
Worker	5.3400e-003	4.4500e-003	0.0578	1.5000e-004	0.0171	1.1000e-004	0.0172	4.5400e-003	1.0000e-004	4.6400e-003	0.0000	14.0594	14.0594	4.0000e-004	3.8000e-004	14.1840
Total	**6.3600e-003**	**0.0312**	**0.0667**	**2.5000e-004**	**0.0204**	**3.5000e-004**	**0.0207**	**5.4900e-003**	**3.3000e-004**	**5.8200e-003**	**0.0000**	**23.9892**	**23.9892**	**7.3000e-004**	**1.8100e-003**	**24.5489**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

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	0.0848	0.7840	0.9586	1.5100e-003		0.0438	0.0438		0.0418	0.0418	0.0000	130.6728	130.6728	0.0220	0.0000	131.2226
Total	**0.0848**	**0.7840**	**0.9586**	**1.5100e-003**		**0.0438**	**0.0438**		**0.0418**	**0.0418**	**0.0000**	**130.6728**	**130.6728**	**0.0220**	**0.0000**	**131.2226**

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	1.0200e-003	0.0267	8.8700e-003	1.0000e-004	3.2800e-003	2.4000e-004	3.5200e-003	9.5000e-004	2.3000e-004	1.1800e-003	0.0000	9.9298	9.9298	3.3000e-004	1.4300e-003	10.3649
Worker	5.3400e-003	4.4500e-003	0.0578	1.5000e-004	0.0171	1.1000e-004	0.0172	4.5400e-003	1.0000e-004	4.6400e-003	0.0000	14.0594	14.0594	4.0000e-004	3.8000e-004	14.1840
Total	**6.3600e-003**	**0.0312**	**0.0667**	**2.5000e-004**	**0.0204**	**3.5000e-004**	**0.0207**	**5.4900e-003**	**3.3000e-004**	**5.8200e-003**	**0.0000**	**23.9892**	**23.9892**	**7.3000e-004**	**1.8100e-003**	**24.5489**

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	3.5900e-003	0.0333	0.0441	7.0000e-005		1.7300e-003	1.7300e-003		1.6600e-003	1.6600e-003	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**3.5900e-003**	**0.0333**	**0.0441**	**7.0000e-005**		**1.7300e-003**	**1.7300e-003**		**1.6600e-003**	**1.6600e-003**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	9.7000e-004	3.6000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.4364	0.4364	1.0000e-005	6.0000e-005	0.4555
Worker	2.3000e-004	1.8000e-004	2.4500e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6280	0.6280	2.0000e-005	2.0000e-005	0.6333
Total	**2.6000e-004**	**1.1500e-003**	**2.8100e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.5000e-004**	**2.5000e-004**	**0.0000**	**2.6000e-004**	**0.0000**	**1.0644**	**1.0644**	**3.0000e-005**	**8.0000e-005**	**1.0888**

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	3.5900e-003	0.0333	0.0441	7.0000e-005		1.7300e-003	1.7300e-003		1.6600e-003	1.6600e-003	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**3.5900e-003**	**0.0333**	**0.0441**	**7.0000e-005**		**1.7300e-003**	**1.7300e-003**		**1.6600e-003**	**1.6600e-003**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	9.7000e-004	3.6000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.4364	0.4364	1.0000e-005	6.0000e-005	0.4555
Worker	2.3000e-004	1.8000e-004	2.4500e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6280	0.6280	2.0000e-005	2.0000e-005	0.6333
Total	**2.6000e-004**	**1.1500e-003**	**2.8100e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.5000e-004**	**2.5000e-004**	**0.0000**	**2.6000e-004**	**0.0000**	**1.0644**	**1.0644**	**3.0000e-005**	**8.0000e-005**	**1.0888**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1331	0.1472	2.2000e-004		7.2800e-003	7.2800e-003		6.7100e-003	6.7100e-003	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5346
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.1331**	**0.1472**	**2.2000e-004**		**7.2800e-003**	**7.2800e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5346**

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	7.4000e-004	6.5000e-004	8.1100e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8605	1.8605	6.0000e-005	5.0000e-005	1.8780
Total	**7.4000e-004**	**6.5000e-004**	**8.1100e-003**	**2.0000e-005**	**2.1900e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**1.8605**	**1.8605**	**6.0000e-005**	**5.0000e-005**	**1.8780**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

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	0.0133	0.1331	0.1472	2.2000e-004		7.2800e-003	7.2800e-003		6.7100e-003	6.7100e-003	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5345
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.1331**	**0.1472**	**2.2000e-004**		**7.2800e-003**	**7.2800e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5345**

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	7.4000e-004	6.5000e-004	8.1100e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8605	1.8605	6.0000e-005	5.0000e-005	1.8780
Total	**7.4000e-004**	**6.5000e-004**	**8.1100e-003**	**2.0000e-005**	**2.1900e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**1.8605**	**1.8605**	**6.0000e-005**	**5.0000e-005**	**1.8780**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0120	0.0154	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1193**	**0.0120**	**0.0154**	**3.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	6.0000e-005	5.0000e-005	6.3000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1532	0.1532	0.0000	0.0000	0.1546
Total	**6.0000e-005**	**5.0000e-005**	**6.3000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1532**	**0.1532**	**0.0000**	**0.0000**	**0.1546**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0120	0.0154	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1193**	**0.0120**	**0.0154**	**3.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	6.0000e-005	5.0000e-005	6.3000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1532	0.1532	0.0000	0.0000	0.1546
Total	**6.0000e-005**	**5.0000e-005**	**6.3000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1532**	**0.1532**	**0.0000**	**0.0000**	**0.1546**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.8200e-003	0.0109	2.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0841**	**7.8200e-003**	**0.0109**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	4.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1047	0.1047	0.0000	0.0000	0.1056
Total	**4.0000e-005**	**3.0000e-005**	**4.1000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1047**	**0.1047**	**0.0000**	**0.0000**	**0.1056**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.8200e-003	0.0109	2.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0841**	**7.8200e-003**	**0.0109**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	4.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1047	0.1047	0.0000	0.0000	0.1056
Total	**4.0000e-005**	**3.0000e-005**	**4.1000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1047**	**0.1047**	**0.0000**	**0.0000**	**0.1056**

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	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Unmitigated	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
NaturalGas Mitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
NaturalGas Unmitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Unmitigated	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693

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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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	8.3179	0.0707	1.7300e-003	10.6017
Unmitigated	8.3179	0.0707	1.7300e-003	10.6017

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8233	0.4623	0.0000	19.3818
Unmitigated	7.8233	0.4623	0.0000	19.3818

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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

9.0 Operational Offroad

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Off-road Equipment -

Grading - Applicant provided import/export

Demolition - Per applicant provided information

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site.

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	8/15/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	9/28/2021	10/5/2021
tblConstructionPhase	PhaseEndDate	10/11/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	8/29/2022	12/7/2021
tblConstructionPhase	PhaseEndDate	10/1/2021	10/5/2021
tblConstructionPhase	PhaseStartDate	8/30/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/12/2021	12/8/2021
tblConstructionPhase	PhaseStartDate	10/2/2021	10/6/2021
tblConstructionPhase	PhaseStartDate	8/16/2022	11/3/2021
tblConstructionPhase	PhaseStartDate	9/29/2021	9/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3189	58.2205	30.8443	0.1185	7.1944	1.9784	8.4626	3.4544	1.8426	4.2976	0.0000	12,315.4832	12,315.4832	1.7549	1.1771	12,710.1305
2022	14.7439	7.6708	9.8053	0.0168	0.1821	0.4214	0.6035	0.0489	0.4060	0.4549	0.0000	1,618.3323	1,618.3323	0.2115	0.0156	1,628.2797
2023	14.6707	7.0345	9.7228	0.0167	0.1821	0.3614	0.5436	0.0489	0.3485	0.3974	0.0000	1,609.8425	1,609.8425	0.2074	0.0148	1,619.4226
Maximum	**14.7439**	**58.2205**	**30.8443**	**0.1185**	**7.1944**	**1.9784**	**8.4626**	**3.4544**	**1.8426**	**4.2976**	**0.0000**	**12,315.4832**	**12,315.4832**	**1.7549**	**1.1771**	**12,710.1305**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3189	58.2205	30.8443	0.1185	4.0697	1.9784	6.0481	1.5708	1.8426	2.6826	0.0000	12,315.4832	12,315.4832	1.7549	1.1771	12,710.1305
2022	14.7439	7.6708	9.8053	0.0168	0.1821	0.4214	0.6035	0.0489	0.4060	0.4549	0.0000	1,618.3323	1,618.3323	0.2115	0.0156	1,628.2797
2023	14.6707	7.0345	9.7228	0.0167	0.1821	0.3614	0.5436	0.0489	0.3485	0.3974	0.0000	1,609.8425	1,609.8425	0.2074	0.0148	1,619.4226
Maximum	**14.7439**	**58.2205**	**30.8443**	**0.1185**	**4.0697**	**1.9784**	**6.0481**	**1.5708**	**1.8426**	**2.6826**	**0.0000**	**12,315.4832**	**12,315.4832**	**1.7549**	**1.1771**	**12,710.1305**

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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	41.34	0.00	25.13	53.03	0.00	31.36	0.00	0.00	0.00	0.00	0.00	0.00

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	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Total	**2.4639**	**1.2613**	**12.9609**	**0.0238**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,544.3628**	**2,544.3628**	**0.1571**	**0.0963**	**2,576.9762**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Total	**2.4639**	**1.2613**	**12.9609**	**0.0238**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,544.3628**	**2,544.3628**	**0.1571**	**0.0963**	**2,576.9762**

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	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	
4	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
5	Paving	Paving	11/3/2021	12/7/2021	5	25	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	14.00	0.00	314.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7151	0.0000	2.7151	0.4111	0.0000	0.4111			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**2.7151**	**1.0409**	**3.7560**	**0.4111**	**0.9715**	**1.3826**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0829	2.3995	0.5535	8.0300e-003	0.2198	0.0278	0.2477	0.0603	0.0266	0.0869		878.3885	878.3885	0.0460	0.1393	921.0463
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
Worker	0.0526	0.0402	0.6036	1.4800e-003	0.1565	1.0700e-003	0.1576	0.0415	9.9000e-004	0.0425		149.3582	149.3582	4.4100e-003	3.8200e-003	150.6064
Total	**0.1355**	**2.4398**	**1.1571**	**9.5100e-003**	**0.3763**	**0.0289**	**0.4052**	**0.1018**	**0.0276**	**0.1294**		**1,027.7467**	**1,027.7467**	**0.0504**	**0.1431**	**1,071.6526**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2218	0.0000	1.2218	0.1850	0.0000	0.1850			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**1.2218**	**1.0409**	**2.2627**	**0.1850**	**0.9715**	**1.1565**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0829	2.3995	0.5535	8.0300e-003	0.2198	0.0278	0.2477	0.0603	0.0266	0.0869		878.3885	878.3885	0.0460	0.1393	921.0463
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
Worker	0.0526	0.0402	0.6036	1.4800e-003	0.1565	1.0700e-003	0.1576	0.0415	9.9000e-004	0.0425		149.3582	149.3582	4.4100e-003	3.8200e-003	150.6064
Total	**0.1355**	**2.4398**	**1.1571**	**9.5100e-003**	**0.3763**	**0.0289**	**0.4052**	**0.1018**	**0.0276**	**0.1294**		**1,027.7467**	**1,027.7467**	**0.0504**	**0.1431**	**1,071.6526**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6749	0.0000	1.6749	0.1845	0.0000	0.1845			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.6749**	**0.7019**	**2.3768**	**0.1845**	**0.6457**	**0.8302**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6141	17.7749	4.1002	0.0595	1.6285	0.2061	1.8346	0.4465	0.1972	0.6437		6,506.7886	6,506.7886	0.3406	1.0318	6,822.7821
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
Worker	0.0300	0.0230	0.3449	8.4000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608
Total	**0.6441**	**17.7979**	**4.4451**	**0.0604**	**1.7179**	**0.2067**	**1.9246**	**0.4702**	**0.1978**	**0.6680**		**6,592.1362**	**6,592.1362**	**0.3431**	**1.0340**	**6,908.8429**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7537	0.0000	0.7537	0.0830	0.0000	0.0830			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**0.7537**	**0.7019**	**1.4556**	**0.0830**	**0.6457**	**0.7288**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6141	17.7749	4.1002	0.0595	1.6285	0.2061	1.8346	0.4465	0.1972	0.6437		6,506.7886	6,506.7886	0.3406	1.0318	6,822.7821
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
Worker	0.0300	0.0230	0.3449	8.4000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608
Total	**0.6441**	**17.7979**	**4.4451**	**0.0604**	**1.7179**	**0.2067**	**1.9246**	**0.4702**	**0.1978**	**0.6680**		**6,592.1362**	**6,592.1362**	**0.3431**	**1.0340**	**6,908.8429**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**7.0826**	**0.9158**	**7.9983**	**3.4247**	**0.8425**	**4.2672**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760
Total	**0.0376**	**0.0288**	**0.4312**	**1.0600e-003**	**0.1118**	**7.7000e-004**	**0.1125**	**0.0296**	**7.1000e-004**	**0.0304**		**106.6845**	**106.6845**	**3.1500e-003**	**2.7300e-003**	**107.5760**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**3.1872**	**0.9158**	**4.1029**	**1.5411**	**0.8425**	**2.3836**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760
Total	**0.0376**	**0.0288**	**0.4312**	**1.0600e-003**	**0.1118**	**7.7000e-004**	**0.1125**	**0.0296**	**7.1000e-004**	**0.0304**		**106.6845**	**106.6845**	**3.1500e-003**	**2.7300e-003**	**107.5760**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796		1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**		**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0111	0.2310	0.0772	8.1000e-004	0.0256	3.4600e-003	0.0291	7.3800e-003	3.3100e-003	0.0107		86.4964	86.4964	2.9400e-003	0.0125	90.2847
Worker	0.0451	0.0345	0.5174	1.2700e-003	0.1341	9.2000e-004	0.1351	0.0356	8.5000e-004	0.0364		128.0213	128.0213	3.7800e-003	3.2700e-003	129.0912
Total	**0.0561**	**0.2655**	**0.5946**	**2.0800e-003**	**0.1598**	**4.3800e-003**	**0.1641**	**0.0430**	**4.1600e-003**	**0.0471**		**214.5178**	**214.5178**	**6.7200e-003**	**0.0157**	**219.3759**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796	0.0000	1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**	**0.0000**	**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0111	0.2310	0.0772	8.1000e-004	0.0256	3.4600e-003	0.0291	7.3800e-003	3.3100e-003	0.0107		86.4964	86.4964	2.9400e-003	0.0125	90.2847
Worker	0.0451	0.0345	0.5174	1.2700e-003	0.1341	9.2000e-004	0.1351	0.0356	8.5000e-004	0.0364		128.0213	128.0213	3.7800e-003	3.2700e-003	129.0912
Total	**0.0561**	**0.2655**	**0.5946**	**2.0800e-003**	**0.1598**	**4.3800e-003**	**0.1641**	**0.0430**	**4.1600e-003**	**0.0471**		**214.5178**	**214.5178**	**6.7200e-003**	**0.0157**	**219.3759**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216		1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**		**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0415	0.0303	0.4723	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.0130	124.0130	3.3800e-003	3.0000e-003	124.9923
Total	**0.0494**	**0.2263**	**0.5395**	**2.0100e-003**	**0.1598**	**2.7300e-003**	**0.1625**	**0.0430**	**2.5800e-003**	**0.0455**		**208.1977**	**208.1977**	**6.1900e-003**	**0.0151**	**212.8624**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216	0.0000	1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**	**0.0000**	**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8700e-003	0.1959	0.0672	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1600e-003		84.1846	84.1846	2.8100e-003	0.0121	87.8701
Worker	0.0415	0.0303	0.4723	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.0130	124.0130	3.3800e-003	3.0000e-003	124.9923
Total	**0.0494**	**0.2263**	**0.5395**	**2.0100e-003**	**0.1598**	**2.7300e-003**	**0.1625**	**0.0430**	**2.5800e-003**	**0.0455**		**208.1977**	**208.1977**	**6.1900e-003**	**0.0151**	**212.8624**

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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761		1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**		**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6100e-003	0.1535	0.0595	7.4000e-004	0.0256	7.7000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.1130	80.1130	2.6800e-003	0.0115	83.6124
Worker	0.0384	0.0268	0.4337	1.1900e-003	0.1341	8.1000e-004	0.1349	0.0356	7.4000e-004	0.0363		120.0090	120.0090	3.0300e-003	2.7700e-003	120.9100
Total	**0.0430**	**0.1803**	**0.4932**	**1.9300e-003**	**0.1598**	**1.5800e-003**	**0.1613**	**0.0430**	**1.4800e-003**	**0.0444**		**200.1220**	**200.1220**	**5.7100e-003**	**0.0143**	**204.5225**

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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761	0.0000	1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**	**0.0000**	**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6100e-003	0.1535	0.0595	7.4000e-004	0.0256	7.7000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.1130	80.1130	2.6800e-003	0.0115	83.6124
Worker	0.0384	0.0268	0.4337	1.1900e-003	0.1341	8.1000e-004	0.1349	0.0356	7.4000e-004	0.0363		120.0090	120.0090	3.0300e-003	2.7700e-003	120.9100
Total	**0.0430**	**0.1803**	**0.4932**	**1.9300e-003**	**0.1598**	**1.5800e-003**	**0.1613**	**0.0430**	**1.4800e-003**	**0.0444**		**200.1220**	**200.1220**	**5.7100e-003**	**0.0143**	**204.5225**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0601	0.0460	0.6898	1.6900e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		170.6951	170.6951	5.0400e-003	4.3600e-003	172.1216
Total	**0.0601**	**0.0460**	**0.6898**	**1.6900e-003**	**0.1788**	**1.2300e-003**	**0.1801**	**0.0474**	**1.1300e-003**	**0.0486**		**170.6951**	**170.6951**	**5.0400e-003**	**4.3600e-003**	**172.1216**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0601	0.0460	0.6898	1.6900e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		170.6951	170.6951	5.0400e-003	4.3600e-003	172.1216
Total	**0.0601**	**0.0460**	**0.6898**	**1.6900e-003**	**0.1788**	**1.2300e-003**	**0.1801**	**0.0474**	**1.1300e-003**	**0.0486**		**170.6951**	**170.6951**	**5.0400e-003**	**4.3600e-003**	**172.1216**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.9200e-003	5.0500e-003	0.0787	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.6688	20.6688	5.6000e-004	5.0000e-004	20.8321
Total	**6.9200e-003**	**5.0500e-003**	**0.0787**	**2.0000e-004**	**0.0224**	**1.4000e-004**	**0.0225**	**5.9300e-003**	**1.3000e-004**	**6.0600e-003**		**20.6688**	**20.6688**	**5.6000e-004**	**5.0000e-004**	**20.8321**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.9200e-003	5.0500e-003	0.0787	2.0000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		20.6688	20.6688	5.6000e-004	5.0000e-004	20.8321
Total	**6.9200e-003**	**5.0500e-003**	**0.0787**	**2.0000e-004**	**0.0224**	**1.4000e-004**	**0.0225**	**5.9300e-003**	**1.3000e-004**	**6.0600e-003**		**20.6688**	**20.6688**	**5.6000e-004**	**5.0000e-004**	**20.8321**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.4000e-003	4.4600e-003	0.0723	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.0015	20.0015	5.0000e-004	4.6000e-004	20.1517
Total	**6.4000e-003**	**4.4600e-003**	**0.0723**	**2.0000e-004**	**0.0224**	**1.3000e-004**	**0.0225**	**5.9300e-003**	**1.2000e-004**	**6.0500e-003**		**20.0015**	**20.0015**	**5.0000e-004**	**4.6000e-004**	**20.1517**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.4000e-003	4.4600e-003	0.0723	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.0015	20.0015	5.0000e-004	4.6000e-004	20.1517
Total	**6.4000e-003**	**4.4600e-003**	**0.0723**	**2.0000e-004**	**0.0224**	**1.3000e-004**	**0.0225**	**5.9300e-003**	**1.2000e-004**	**6.0500e-003**		**20.0015**	**20.0015**	**5.0000e-004**	**4.6000e-004**	**20.1517**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
Mitigated	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Unmitigated	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas Mitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
NaturalGas Unmitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2304.76	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

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	lb/day										lb/day					
Single Family Housing	2.30476	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Unmitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

11.0 Vegetation

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Off-road Equipment -

Grading - Applicant provided import/export

Demolition - Per applicant provided information

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site.

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	8/15/2022	1/17/2023
tblConstructionPhase	PhaseEndDate	9/28/2021	10/5/2021
tblConstructionPhase	PhaseEndDate	10/11/2021	11/2/2021
tblConstructionPhase	PhaseEndDate	8/29/2022	12/7/2021
tblConstructionPhase	PhaseEndDate	10/1/2021	10/5/2021
tblConstructionPhase	PhaseStartDate	8/30/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/12/2021	12/8/2021
tblConstructionPhase	PhaseStartDate	10/2/2021	10/6/2021
tblConstructionPhase	PhaseStartDate	8/16/2022	11/3/2021
tblConstructionPhase	PhaseStartDate	9/29/2021	9/1/2021
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3140	59.0264	30.8450	0.1184	7.1944	1.9788	8.4630	3.4544	1.8429	4.2976	0.0000	12,303.8594	12,303.8594	1.7545	1.1777	12,698.6692
2022	14.7473	7.6826	9.7625	0.0167	0.1821	0.4214	0.6035	0.0489	0.4060	0.4549	0.0000	1,610.7145	1,610.7145	0.2116	0.0159	1,620.7390
2023	14.6739	7.0450	9.6838	0.0166	0.1821	0.3615	0.5436	0.0489	0.3485	0.3974	0.0000	1,602.5966	1,602.5966	0.2074	0.0150	1,612.2524
Maximum	**14.7473**	**59.0264**	**30.8450**	**0.1184**	**7.1944**	**1.9788**	**8.4630**	**3.4544**	**1.8429**	**4.2976**	**0.0000**	**12,303.8594**	**12,303.8594**	**1.7545**	**1.1777**	**12,698.6692**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.3140	59.0264	30.8450	0.1184	4.0697	1.9788	6.0485	1.5708	1.8429	2.6829	0.0000	12,303.8594	12,303.8594	1.7545	1.1777	12,698.6692
2022	14.7473	7.6826	9.7625	0.0167	0.1821	0.4214	0.6035	0.0489	0.4060	0.4549	0.0000	1,610.7145	1,610.7145	0.2116	0.0159	1,620.7390
2023	14.6739	7.0450	9.6838	0.0166	0.1821	0.3615	0.5436	0.0489	0.3485	0.3974	0.0000	1,602.5966	1,602.5966	0.2074	0.0150	1,612.2524
Maximum	**14.7473**	**59.0264**	**30.8450**	**0.1184**	**4.0697**	**1.9788**	**6.0485**	**1.5708**	**1.8429**	**2.6829**	**0.0000**	**12,303.8594**	**12,303.8594**	**1.7545**	**1.1777**	**12,698.6692**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	41.34	0.00	25.12	53.03	0.00	31.35	0.00	0.00	0.00	0.00	0.00	0.00

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Total	**2.4469**	**1.3433**	**12.7100**	**0.0228**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,447.5916**	**2,447.5916**	**0.1612**	**0.1004**	**2,481.5336**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Total	**2.4469**	**1.3433**	**12.7100**	**0.0228**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,447.5916**	**2,447.5916**	**0.1612**	**0.1004**	**2,481.5336**

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	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	
4	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
5	Paving	Paving	11/3/2021	12/7/2021	5	25	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	14.00	0.00	314.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	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 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7151	0.0000	2.7151	0.4111	0.0000	0.4111			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**2.7151**	**1.0409**	**3.7560**	**0.4111**	**0.9715**	**1.3826**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0817	2.4946	0.5630	8.0400e-003	0.2198	0.0279	0.2477	0.0603	0.0267	0.0869		878.4865	878.4865	0.0459	0.1393	921.1487
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
Worker	0.0561	0.0445	0.5535	1.4000e-003	0.1565	1.0700e-003	0.1576	0.0415	9.9000e-004	0.0425		141.4368	141.4368	4.4600e-003	4.0800e-003	142.7646
Total	**0.1377**	**2.5391**	**1.1164**	**9.4400e-003**	**0.3763**	**0.0289**	**0.4053**	**0.1018**	**0.0277**	**0.1294**		**1,019.9234**	**1,019.9234**	**0.0504**	**0.1434**	**1,063.9133**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2218	0.0000	1.2218	0.1850	0.0000	0.1850			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**1.2218**	**1.0409**	**2.2627**	**0.1850**	**0.9715**	**1.1565**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0817	2.4946	0.5630	8.0400e-003	0.2198	0.0279	0.2477	0.0603	0.0267	0.0869		878.4865	878.4865	0.0459	0.1393	921.1487
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
Worker	0.0561	0.0445	0.5535	1.4000e-003	0.1565	1.0700e-003	0.1576	0.0415	9.9000e-004	0.0425		141.4368	141.4368	4.4600e-003	4.0800e-003	142.7646
Total	**0.1377**	**2.5391**	**1.1164**	**9.4400e-003**	**0.3763**	**0.0289**	**0.4053**	**0.1018**	**0.0277**	**0.1294**		**1,019.9234**	**1,019.9234**	**0.0504**	**0.1434**	**1,063.9133**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6749	0.0000	1.6749	0.1845	0.0000	0.1845			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.6749**	**0.7019**	**2.3768**	**0.1845**	**0.6457**	**0.8302**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6049	18.4791	4.1702	0.0595	1.6285	0.2064	1.8349	0.4465	0.1975	0.6440		6,507.5147	6,507.5147	0.3401	1.0320	6,823.5412
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
Worker	0.0321	0.0254	0.3163	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798
Total	**0.6370**	**18.5045**	**4.4864**	**0.0603**	**1.7179**	**0.2071**	**1.9250**	**0.4702**	**0.1981**	**0.6683**		**6,588.3358**	**6,588.3358**	**0.3427**	**1.0343**	**6,905.1210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7537	0.0000	0.7537	0.0830	0.0000	0.0830			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**0.7537**	**0.7019**	**1.4556**	**0.0830**	**0.6457**	**0.7288**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6049	18.4791	4.1702	0.0595	1.6285	0.2064	1.8349	0.4465	0.1975	0.6440		6,507.5147	6,507.5147	0.3401	1.0320	6,823.5412
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
Worker	0.0321	0.0254	0.3163	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798
Total	**0.6370**	**18.5045**	**4.4864**	**0.0603**	**1.7179**	**0.2071**	**1.9250**	**0.4702**	**0.1981**	**0.6683**		**6,588.3358**	**6,588.3358**	**0.3427**	**1.0343**	**6,905.1210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**7.0826**	**0.9158**	**7.9983**	**3.4247**	**0.8425**	**4.2672**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747
Total	**0.0401**	**0.0318**	**0.3953**	**1.0000e-003**	**0.1118**	**7.7000e-004**	**0.1125**	**0.0296**	**7.1000e-004**	**0.0304**		**101.0263**	**101.0263**	**3.1800e-003**	**2.9200e-003**	**101.9747**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**3.1872**	**0.9158**	**4.1029**	**1.5411**	**0.8425**	**2.3836**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747
Total	**0.0401**	**0.0318**	**0.3953**	**1.0000e-003**	**0.1118**	**7.7000e-004**	**0.1125**	**0.0296**	**7.1000e-004**	**0.0304**		**101.0263**	**101.0263**	**3.1800e-003**	**2.9200e-003**	**101.9747**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796		1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**		**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.2401	0.0797	8.1000e-004	0.0256	3.4700e-003	0.0291	7.3800e-003	3.3200e-003	0.0107		86.4987	86.4987	2.9300e-003	0.0125	90.2905
Worker	0.0481	0.0381	0.4744	1.2000e-003	0.1341	9.2000e-004	0.1351	0.0356	8.5000e-004	0.0364		121.2316	121.2316	3.8200e-003	3.5000e-003	122.3696
Total	**0.0591**	**0.2783**	**0.5541**	**2.0100e-003**	**0.1598**	**4.3900e-003**	**0.1641**	**0.0430**	**4.1700e-003**	**0.0471**		**207.7303**	**207.7303**	**6.7500e-003**	**0.0160**	**212.6601**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796	0.0000	1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**	**0.0000**	**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0110	0.2401	0.0797	8.1000e-004	0.0256	3.4700e-003	0.0291	7.3800e-003	3.3200e-003	0.0107		86.4987	86.4987	2.9300e-003	0.0125	90.2905
Worker	0.0481	0.0381	0.4744	1.2000e-003	0.1341	9.2000e-004	0.1351	0.0356	8.5000e-004	0.0364		121.2316	121.2316	3.8200e-003	3.5000e-003	122.3696
Total	**0.0591**	**0.2783**	**0.5541**	**2.0100e-003**	**0.1598**	**4.3900e-003**	**0.1641**	**0.0430**	**4.1700e-003**	**0.0471**		**207.7303**	**207.7303**	**6.7500e-003**	**0.0160**	**212.6601**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216		1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**		**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0445	0.0335	0.4336	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		117.4564	117.4564	3.4200e-003	3.2100e-003	118.4980
Total	**0.0522**	**0.2375**	**0.5031**	**1.9400e-003**	**0.1598**	**2.7300e-003**	**0.1625**	**0.0430**	**2.5800e-003**	**0.0455**		**201.6727**	**201.6727**	**6.2200e-003**	**0.0154**	**206.4041**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216	0.0000	1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**	**0.0000**	**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7800e-003	0.2040	0.0695	7.8000e-004	0.0256	1.8700e-003	0.0275	7.3800e-003	1.7900e-003	9.1700e-003		84.2163	84.2163	2.8000e-003	0.0122	87.9061
Worker	0.0445	0.0335	0.4336	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		117.4564	117.4564	3.4200e-003	3.2100e-003	118.4980
Total	**0.0522**	**0.2375**	**0.5031**	**1.9400e-003**	**0.1598**	**2.7300e-003**	**0.1625**	**0.0430**	**2.5800e-003**	**0.0455**		**201.6727**	**201.6727**	**6.2200e-003**	**0.0154**	**206.4041**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761		1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**		**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4500e-003	0.1608	0.0614	7.5000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.2481	80.2481	2.6700e-003	0.0116	83.7564
Worker	0.0413	0.0296	0.3986	1.1200e-003	0.1341	8.1000e-004	0.1349	0.0356	7.4000e-004	0.0363		113.6824	113.6824	3.0700e-003	2.9600e-003	114.6407
Total	**0.0457**	**0.1903**	**0.4600**	**1.8700e-003**	**0.1598**	**1.5900e-003**	**0.1613**	**0.0430**	**1.4800e-003**	**0.0444**		**193.9306**	**193.9306**	**5.7400e-003**	**0.0145**	**198.3971**

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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761	0.0000	1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**	**0.0000**	**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4500e-003	0.1608	0.0614	7.5000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.2481	80.2481	2.6700e-003	0.0116	83.7564
Worker	0.0413	0.0296	0.3986	1.1200e-003	0.1341	8.1000e-004	0.1349	0.0356	7.4000e-004	0.0363		113.6824	113.6824	3.0700e-003	2.9600e-003	114.6407
Total	**0.0457**	**0.1903**	**0.4600**	**1.8700e-003**	**0.1598**	**1.5900e-003**	**0.1613**	**0.0430**	**1.4800e-003**	**0.0444**		**193.9306**	**193.9306**	**5.7400e-003**	**0.0145**	**198.3971**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0641	0.0508	0.6326	1.6000e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		161.6421	161.6421	5.0900e-003	4.6600e-003	163.1595
Total	**0.0641**	**0.0508**	**0.6326**	**1.6000e-003**	**0.1788**	**1.2300e-003**	**0.1801**	**0.0474**	**1.1300e-003**	**0.0486**		**161.6421**	**161.6421**	**5.0900e-003**	**4.6600e-003**	**163.1595**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0641	0.0508	0.6326	1.6000e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		161.6421	161.6421	5.0900e-003	4.6600e-003	163.1595
Total	**0.0641**	**0.0508**	**0.6326**	**1.6000e-003**	**0.1788**	**1.2300e-003**	**0.1801**	**0.0474**	**1.1300e-003**	**0.0486**		**161.6421**	**161.6421**	**5.0900e-003**	**4.6600e-003**	**163.1595**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	7.4100e-003	5.5800e-003	0.0723	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.5761	19.5761	5.7000e-004	5.3000e-004	19.7497
Total	**7.4100e-003**	**5.5800e-003**	**0.0723**	**1.9000e-004**	**0.0224**	**1.4000e-004**	**0.0225**	**5.9300e-003**	**1.3000e-004**	**6.0600e-003**		**19.5761**	**19.5761**	**5.7000e-004**	**5.3000e-004**	**19.7497**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	7.4100e-003	5.5800e-003	0.0723	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		19.5761	19.5761	5.7000e-004	5.3000e-004	19.7497
Total	**7.4100e-003**	**5.5800e-003**	**0.0723**	**1.9000e-004**	**0.0224**	**1.4000e-004**	**0.0225**	**5.9300e-003**	**1.3000e-004**	**6.0600e-003**		**19.5761**	**19.5761**	**5.7000e-004**	**5.3000e-004**	**19.7497**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.8800e-003	4.9300e-003	0.0664	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.9471	18.9471	5.1000e-004	4.9000e-004	19.1068
Total	**6.8800e-003**	**4.9300e-003**	**0.0664**	**1.9000e-004**	**0.0224**	**1.3000e-004**	**0.0225**	**5.9300e-003**	**1.2000e-004**	**6.0500e-003**		**18.9471**	**18.9471**	**5.1000e-004**	**4.9000e-004**	**19.1068**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	6.8800e-003	4.9300e-003	0.0664	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.9471	18.9471	5.1000e-004	4.9000e-004	19.1068
Total	**6.8800e-003**	**4.9300e-003**	**0.0664**	**1.9000e-004**	**0.0224**	**1.3000e-004**	**0.0225**	**5.9300e-003**	**1.2000e-004**	**6.0500e-003**		**18.9471**	**18.9471**	**5.1000e-004**	**4.9000e-004**	**19.1068**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Mitigated	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Unmitigated	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas Mitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
NaturalGas Unmitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2304.76	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

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	lb/day										lb/day					
Single Family Housing	2.30476	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Unmitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

11.0 Vegetation

LST Analysis

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site. Trip length adjusted to reflect on-site vehicle operation.

Demolition - Per applicant provided information

Grading - Applicant provided import/export

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	10.00	29.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2021	0.0847	0.8961	0.6489	1.1800e-003	0.1257	0.0419	0.1676	0.0417	0.0388	0.0805	0.0000	103.4479	103.4479	0.0292	6.0000e-004	104.3558
2022	0.2064	0.8030	0.9870	1.5400e-003	3.0000e-005	0.0445	0.0445	1.0000e-005	0.0425	0.0425	0.0000	133.9168	133.9168	0.0224	2.1000e-004	134.5395
2023	0.0878	0.0414	0.0556	9.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	2.0800e-003	2.0800e-003	0.0000	7.6140	7.6140	1.1100e-003	1.0000e-005	7.6446
Maximum	**0.2064**	**0.8961**	**0.9870**	**1.5400e-003**	**0.1257**	**0.0445**	**0.1676**	**0.0417**	**0.0425**	**0.0805**	**0.0000**	**133.9168**	**133.9168**	**0.0292**	**6.0000e-004**	**134.5395**

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					
2021	0.0847	0.8961	0.6489	1.1800e-003	0.0566	0.0419	0.0985	0.0188	0.0388	0.0576	0.0000	103.4478	103.4478	0.0292	6.0000e-004	104.3557
2022	0.2064	0.8030	0.9870	1.5400e-003	3.0000e-005	0.0445	0.0445	1.0000e-005	0.0425	0.0425	0.0000	133.9166	133.9166	0.0224	2.1000e-004	134.5393
2023	0.0878	0.0414	0.0556	9.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	2.0800e-003	2.0800e-003	0.0000	7.6140	7.6140	1.1100e-003	1.0000e-005	7.6446
Maximum	**0.2064**	**0.8961**	**0.9870**	**1.5400e-003**	**0.0566**	**0.0445**	**0.0985**	**0.0188**	**0.0425**	**0.0576**	**0.0000**	**133.9166**	**133.9166**	**0.0292**	**6.0000e-004**	**134.5393**

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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**	**54.97**	**0.00**	**32.27**	**54.99**	**0.00**	**18.32**	**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	**9-1-2021**	**11-30-2021**	0.8841	0.8841
2	**12-1-2021**	**2-28-2022**	0.2356	0.2356
3	**3-1-2022**	**5-31-2022**	0.2219	0.2219
4	**6-1-2022**	**8-31-2022**	0.2219	0.2219
5	**9-1-2022**	**11-30-2022**	0.2196	0.2196
6	**12-1-2022**	**2-28-2023**	0.3380	0.3380
		Highest	0.8841	0.8841

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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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

	ROG	NOx	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	11/3/2021	12/7/2021	5	25	
5	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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	5	14.00	0.00	314.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	0.00	0.00	0.00	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 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	5.1400e-003	0.0000	5.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2462	0.1812	3.0000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	26.3392	26.3392	6.7400e-003	0.0000	26.5076
Total	**0.0249**	**0.2462**	**0.1812**	**3.0000e-004**	**0.0339**	**0.0130**	**0.0470**	**5.1400e-003**	**0.0121**	**0.0173**	**0.0000**	**26.3392**	**26.3392**	**6.7400e-003**	**0.0000**	**26.5076**

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	1.7000e-004	3.0200e-003	2.1000e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4152	0.4152	1.0000e-005	7.0000e-005	0.4350
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	2.4000e-004	1.0000e-004	9.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0324	0.0324	2.0000e-005	1.0000e-005	0.0360
Total	**4.1000e-004**	**3.1200e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4475**	**0.4475**	**3.0000e-005**	**8.0000e-005**	**0.4710**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

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					0.0153	0.0000	0.0153	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2462	0.1812	3.0000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	26.3391	26.3391	6.7400e-003	0.0000	26.5075
Total	**0.0249**	**0.2462**	**0.1812**	**3.0000e-004**	**0.0153**	**0.0130**	**0.0283**	**2.3100e-003**	**0.0121**	**0.0145**	**0.0000**	**26.3391**	**26.3391**	**6.7400e-003**	**0.0000**	**26.5075**

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	1.7000e-004	3.0200e-003	2.1000e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4152	0.4152	1.0000e-005	7.0000e-005	0.4350
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	2.4000e-004	1.0000e-004	9.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0324	0.0324	2.0000e-005	1.0000e-005	0.0360
Total	**4.1000e-004**	**3.1200e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4475**	**0.4475**	**3.0000e-005**	**8.0000e-005**	**0.4710**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0209	0.0000	0.0209	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2286	0.1344	3.1000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**0.0193**	**0.2286**	**0.1344**	**3.1000e-004**	**0.0209**	**8.7700e-003**	**0.0297**	**2.3100e-003**	**8.0700e-003**	**0.0104**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	1.2300e-003	0.0224	0.0156	3.0000e-005	2.0000e-005	4.0000e-005	6.0000e-005	1.0000e-005	4.0000e-005	4.0000e-005	0.0000	3.0753	3.0753	8.0000e-005	4.9000e-004	3.2221
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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.3700e-003**	**0.0225**	**0.0161**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**6.0000e-005**	**1.0000e-005**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**3.0938**	**3.0938**	**9.0000e-005**	**5.0000e-004**	**3.2427**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

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					9.4200e-003	0.0000	9.4200e-003	1.0400e-003	0.0000	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2286	0.1344	3.1000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**0.0193**	**0.2286**	**0.1344**	**3.1000e-004**	**9.4200e-003**	**8.7700e-003**	**0.0182**	**1.0400e-003**	**8.0700e-003**	**9.1100e-003**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	1.2300e-003	0.0224	0.0156	3.0000e-005	2.0000e-005	4.0000e-005	6.0000e-005	1.0000e-005	4.0000e-005	4.0000e-005	0.0000	3.0753	3.0753	8.0000e-005	4.9000e-004	3.2221
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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.3700e-003**	**0.0225**	**0.0161**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**6.0000e-005**	**1.0000e-005**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**3.0938**	**3.0938**	**9.0000e-005**	**5.0000e-004**	**3.2427**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2503
Total	**0.0183**	**0.2021**	**0.0976**	**2.1000e-004**	**0.0708**	**9.1600e-003**	**0.0800**	**0.0343**	**8.4200e-003**	**0.0427**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2503**

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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.4000e-004**	**6.0000e-005**	**5.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0185**	**0.0185**	**1.0000e-005**	**1.0000e-005**	**0.0206**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

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					0.0319	0.0000	0.0319	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2502
Total	**0.0183**	**0.2021**	**0.0976**	**2.1000e-004**	**0.0319**	**9.1600e-003**	**0.0410**	**0.0154**	**8.4200e-003**	**0.0238**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2502**

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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.4000e-004**	**6.0000e-005**	**5.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0185**	**0.0185**	**1.0000e-005**	**1.0000e-005**	**0.0206**

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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 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1331	0.1472	2.2000e-004		7.2800e-003	7.2800e-003		6.7100e-003	6.7100e-003	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5346
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.1331**	**0.1472**	**2.2000e-004**		**7.2800e-003**	**7.2800e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5346**

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	2.7000e-004	1.1000e-004	1.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0370	0.0370	3.0000e-005	1.0000e-005	0.0412
Total	**2.7000e-004**	**1.1000e-004**	**1.0900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0370**	**0.0370**	**3.0000e-005**	**1.0000e-005**	**0.0412**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

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	0.0133	0.1331	0.1472	2.2000e-004		7.2800e-003	7.2800e-003		6.7100e-003	6.7100e-003	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5345
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.1331**	**0.1472**	**2.2000e-004**		**7.2800e-003**	**7.2800e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5345**

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	2.7000e-004	1.1000e-004	1.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0370	0.0370	3.0000e-005	1.0000e-005	0.0412
Total	**2.7000e-004**	**1.1000e-004**	**1.0900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0370**	**0.0370**	**3.0000e-005**	**1.0000e-005**	**0.0412**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0599	0.0668	1.0000e-004		3.5800e-003	3.5800e-003		3.4200e-003	3.4200e-003	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**6.5200e-003**	**0.0599**	**0.0668**	**1.0000e-004**		**3.5800e-003**	**3.5800e-003**		**3.4200e-003**	**3.4200e-003**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	4.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0545	0.0545	0.0000	1.0000e-005	0.0571
Worker	1.5000e-004	6.0000e-005	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0200	0.0200	1.0000e-005	1.0000e-005	0.0222
Total	**1.7000e-004**	**4.8000e-004**	**9.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0745**	**0.0745**	**1.0000e-005**	**2.0000e-005**	**0.0794**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

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	6.5200e-003	0.0599	0.0668	1.0000e-004		3.5800e-003	3.5800e-003		3.4200e-003	3.4200e-003	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**6.5200e-003**	**0.0599**	**0.0668**	**1.0000e-004**		**3.5800e-003**	**3.5800e-003**		**3.4200e-003**	**3.4200e-003**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	4.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0545	0.0545	0.0000	1.0000e-005	0.0571
Worker	1.5000e-004	6.0000e-005	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0200	0.0200	1.0000e-005	1.0000e-005	0.0222
Total	**1.7000e-004**	**4.8000e-004**	**9.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0745**	**0.0745**	**1.0000e-005**	**2.0000e-005**	**0.0794**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

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	0.0848	0.7840	0.9586	1.5100e-003		0.0438	0.0438		0.0418	0.0418	0.0000	130.6730	130.6730	0.0220	0.0000	131.2227
Total	**0.0848**	**0.7840**	**0.9586**	**1.5100e-003**		**0.0438**	**0.0438**		**0.0418**	**0.0418**	**0.0000**	**130.6730**	**130.6730**	**0.0220**	**0.0000**	**131.2227**

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	3.4000e-004	6.1500e-003	4.7300e-003	1.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7909	0.7909	3.0000e-005	1.3000e-004	0.8291
Worker	1.9500e-003	8.0000e-004	8.1900e-003	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.2796	0.2796	1.9000e-004	9.0000e-005	0.3105
Total	**2.2900e-003**	**6.9500e-003**	**0.0129**	**1.0000e-005**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**2.0000e-005**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.0705**	**1.0705**	**2.2000e-004**	**2.2000e-004**	**1.1396**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

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	0.0848	0.7840	0.9586	1.5100e-003		0.0438	0.0438		0.0418	0.0418	0.0000	130.6728	130.6728	0.0220	0.0000	131.2226
Total	**0.0848**	**0.7840**	**0.9586**	**1.5100e-003**		**0.0438**	**0.0438**		**0.0418**	**0.0418**	**0.0000**	**130.6728**	**130.6728**	**0.0220**	**0.0000**	**131.2226**

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	3.4000e-004	6.1500e-003	4.7300e-003	1.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7909	0.7909	3.0000e-005	1.3000e-004	0.8291
Worker	1.9500e-003	8.0000e-004	8.1900e-003	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.2796	0.2796	1.9000e-004	9.0000e-005	0.3105
Total	**2.2900e-003**	**6.9500e-003**	**0.0129**	**1.0000e-005**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**2.0000e-005**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.0705**	**1.0705**	**2.2000e-004**	**2.2000e-004**	**1.1396**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	3.5900e-003	0.0333	0.0441	7.0000e-005		1.7300e-003	1.7300e-003		1.6600e-003	1.6600e-003	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**3.5900e-003**	**0.0333**	**0.0441**	**7.0000e-005**		**1.7300e-003**	**1.7300e-003**		**1.6600e-003**	**1.6600e-003**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	2.8000e-004	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0350	0.0000	1.0000e-005	0.0367
Worker	8.0000e-005	3.0000e-005	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0125	0.0125	1.0000e-005	0.0000	0.0138
Total	**1.0000e-004**	**3.1000e-004**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0475**	**0.0475**	**1.0000e-005**	**1.0000e-005**	**0.0506**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	3.5900e-003	0.0333	0.0441	7.0000e-005		1.7300e-003	1.7300e-003		1.6600e-003	1.6600e-003	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**3.5900e-003**	**0.0333**	**0.0441**	**7.0000e-005**		**1.7300e-003**	**1.7300e-003**		**1.6600e-003**	**1.6600e-003**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	2.8000e-004	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0350	0.0000	1.0000e-005	0.0367
Worker	8.0000e-005	3.0000e-005	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0125	0.0125	1.0000e-005	0.0000	0.0138
Total	**1.0000e-004**	**3.1000e-004**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0475**	**0.0475**	**1.0000e-005**	**1.0000e-005**	**0.0506**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0120	0.0154	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1193**	**0.0120**	**0.0154**	**3.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	2.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0500e-003	3.0500e-003	0.0000	0.0000	3.3800e-003
Total	**2.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.0500e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**3.3800e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0120	0.0154	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1193**	**0.0120**	**0.0154**	**3.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	2.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0500e-003	3.0500e-003	0.0000	0.0000	3.3800e-003
Total	**2.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.0500e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**3.3800e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.8200e-003	0.0109	2.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0841**	**7.8200e-003**	**0.0109**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3100e-003
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0800e-003**	**2.0800e-003**	**0.0000**	**0.0000**	**2.3100e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.8200e-003	0.0109	2.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0841**	**7.8200e-003**	**0.0109**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3100e-003
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0800e-003**	**2.0800e-003**	**0.0000**	**0.0000**	**2.3100e-003**

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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	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Unmitigated	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
NaturalGas Mitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
NaturalGas Unmitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Unmitigated	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693

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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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	8.3179	0.0707	1.7300e-003	10.6017
Unmitigated	8.3179	0.0707	1.7300e-003	10.6017

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8233	0.4623	0.0000	19.3818
Unmitigated	7.8233	0.4623	0.0000	19.3818

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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

9.0 Operational Offroad

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site. Trip length adjusted to reflect on-site vehicle operation.

Demolition - Per applicant provided information

Grading - Applicant provided import/export

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	10.00	29.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.6874	39.9839	26.7250	0.0515	7.0827	1.7461	7.9985	3.4248	1.6203	4.2673	0.0000	5,007.5698	5,007.5698	1.3727	0.0500	5,056.7703
2022	14.7092	7.4925	9.2855	0.0146	2.5000e-004	0.4186	0.4189	1.0000e-004	0.4034	0.4035	0.0000	1,398.9422	1,398.9422	0.2067	1.8900e-003	1,404.6738
2023	14.6413	6.9008	9.2554	0.0146	2.5000e-004	0.3598	0.3601	1.0000e-004	0.3470	0.3471	0.0000	1,398.7888	1,398.7888	0.2029	1.8100e-003	1,404.4006
Maximum	**14.7092**	**39.9839**	**26.7250**	**0.0515**	**7.0827**	**1.7461**	**7.9985**	**3.4248**	**1.6203**	**4.2673**	**0.0000**	**5,007.5698**	**5,007.5698**	**1.3727**	**0.0500**	**5,056.7703**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.6874	39.9839	26.7250	0.0515	3.1873	1.7461	4.1031	1.5412	1.6203	2.3837	0.0000	5,007.5698	5,007.5698	1.3727	0.0500	5,056.7703
2022	14.7092	7.4925	9.2855	0.0146	2.5000e-004	0.4186	0.4189	1.0000e-004	0.4034	0.4035	0.0000	1,398.9422	1,398.9422	0.2067	1.8900e-003	1,404.6738
2023	14.6413	6.9008	9.2554	0.0146	2.5000e-004	0.3598	0.3601	1.0000e-004	0.3470	0.3471	0.0000	1,398.7888	1,398.7888	0.2029	1.8100e-003	1,404.4006
Maximum	**14.7092**	**39.9839**	**26.7250**	**0.0515**	**3.1873**	**1.7461**	**4.1031**	**1.5412**	**1.6203**	**2.3837**	**0.0000**	**5,007.5698**	**5,007.5698**	**1.3727**	**0.0500**	**5,056.7703**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

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	55.00	0.00	44.38	55.00	0.00	37.54	0.00	0.00	0.00	0.00	0.00	0.00

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	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Total	**2.4639**	**1.2613**	**12.9609**	**0.0238**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,544.3628**	**2,544.3628**	**0.1571**	**0.0963**	**2,576.9762**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Total	**2.4639**	**1.2613**	**12.9609**	**0.0238**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,544.3628**	**2,544.3628**	**0.1571**	**0.0963**	**2,576.9762**

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	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	
4	Paving	Paving	11/3/2021	12/7/2021	5	25	
5	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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	5	14.00	0.00	314.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7151	0.0000	2.7151	0.4111	0.0000	0.4111			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**2.7151**	**1.0409**	**3.7560**	**0.4111**	**0.9715**	**1.3826**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0138	0.2367	0.1641	3.4000e-004	2.7000e-004	3.8000e-004	6.4000e-004	1.0000e-004	3.6000e-004	4.6000e-004		36.5683	36.5683	1.0000e-003	5.7800e-003	38.3150
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
Worker	0.0206	7.2400e-003	0.0657	3.0000e-005	1.4000e-004	7.0000e-005	2.1000e-004	5.0000e-005	7.0000e-005	1.2000e-004		2.8740	2.8740	1.8100e-003	8.7000e-004	3.1794
Total	**0.0343**	**0.2439**	**0.2298**	**3.7000e-004**	**4.1000e-004**	**4.5000e-004**	**8.5000e-004**	**1.5000e-004**	**4.3000e-004**	**5.8000e-004**		**39.4423**	**39.4423**	**2.8100e-003**	**6.6500e-003**	**41.4944**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2218	0.0000	1.2218	0.1850	0.0000	0.1850			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**1.2218**	**1.0409**	**2.2627**	**0.1850**	**0.9715**	**1.1565**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0138	0.2367	0.1641	3.4000e-004	2.7000e-004	3.8000e-004	6.4000e-004	1.0000e-004	3.6000e-004	4.6000e-004		36.5683	36.5683	1.0000e-003	5.7800e-003	38.3150
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
Worker	0.0206	7.2400e-003	0.0657	3.0000e-005	1.4000e-004	7.0000e-005	2.1000e-004	5.0000e-005	7.0000e-005	1.2000e-004		2.8740	2.8740	1.8100e-003	8.7000e-004	3.1794
Total	**0.0343**	**0.2439**	**0.2298**	**3.7000e-004**	**4.1000e-004**	**4.5000e-004**	**8.5000e-004**	**1.5000e-004**	**4.3000e-004**	**5.8000e-004**		**39.4423**	**39.4423**	**2.8100e-003**	**6.6500e-003**	**41.4944**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6749	0.0000	1.6749	0.1845	0.0000	0.1845			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.6749**	**0.7019**	**2.3768**	**0.1845**	**0.6457**	**0.8302**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1020	1.7531	1.2155	2.5200e-003	1.9800e-003	2.7900e-003	4.7700e-003	7.2000e-004	2.6700e-003	3.3900e-003		270.8849	270.8849	7.4300e-003	0.0428	283.8241
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
Worker	0.0117	4.1400e-003	0.0376	2.0000e-005	8.0000e-005	4.0000e-005	1.2000e-004	3.0000e-005	4.0000e-005	7.0000e-005		1.6423	1.6423	1.0300e-003	5.0000e-004	1.8168
Total	**0.1137**	**1.7572**	**1.2531**	**2.5400e-003**	**2.0600e-003**	**2.8300e-003**	**4.8900e-003**	**7.5000e-004**	**2.7100e-003**	**3.4600e-003**		**272.5272**	**272.5272**	**8.4600e-003**	**0.0433**	**285.6409**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7537	0.0000	0.7537	0.0830	0.0000	0.0830			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**0.7537**	**0.7019**	**1.4556**	**0.0830**	**0.6457**	**0.7288**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1020	1.7531	1.2155	2.5200e-003	1.9800e-003	2.7900e-003	4.7700e-003	7.2000e-004	2.6700e-003	3.3900e-003		270.8849	270.8849	7.4300e-003	0.0428	283.8241
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
Worker	0.0117	4.1400e-003	0.0376	2.0000e-005	8.0000e-005	4.0000e-005	1.2000e-004	3.0000e-005	4.0000e-005	7.0000e-005		1.6423	1.6423	1.0300e-003	5.0000e-004	1.8168
Total	**0.1137**	**1.7572**	**1.2531**	**2.5400e-003**	**2.0600e-003**	**2.8300e-003**	**4.8900e-003**	**7.5000e-004**	**2.7100e-003**	**3.4600e-003**		**272.5272**	**272.5272**	**8.4600e-003**	**0.0433**	**285.6409**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**7.0826**	**0.9158**	**7.9983**	**3.4247**	**0.8425**	**4.2672**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0147	5.1700e-003	0.0469	2.0000e-005	1.0000e-004	5.0000e-005	1.5000e-004	4.0000e-005	5.0000e-005	9.0000e-005		2.0529	2.0529	1.2900e-003	6.2000e-004	2.2710
Total	**0.0147**	**5.1700e-003**	**0.0469**	**2.0000e-005**	**1.0000e-004**	**5.0000e-005**	**1.5000e-004**	**4.0000e-005**	**5.0000e-005**	**9.0000e-005**		**2.0529**	**2.0529**	**1.2900e-003**	**6.2000e-004**	**2.2710**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**3.1872**	**0.9158**	**4.1029**	**1.5411**	**0.8425**	**2.3836**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0147	5.1700e-003	0.0469	2.0000e-005	1.0000e-004	5.0000e-005	1.5000e-004	4.0000e-005	5.0000e-005	9.0000e-005		2.0529	2.0529	1.2900e-003	6.2000e-004	2.2710
Total	**0.0147**	**5.1700e-003**	**0.0469**	**2.0000e-005**	**1.0000e-004**	**5.0000e-005**	**1.5000e-004**	**4.0000e-005**	**5.0000e-005**	**9.0000e-005**		**2.0529**	**2.0529**	**1.2900e-003**	**6.2000e-004**	**2.2710**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0235	8.2800e-003	0.0751	3.0000e-005	1.6000e-004	8.0000e-005	2.4000e-004	6.0000e-005	8.0000e-005	1.4000e-004		3.2846	3.2846	2.0700e-003	1.0000e-003	3.6336
Total	**0.0235**	**8.2800e-003**	**0.0751**	**3.0000e-005**	**1.6000e-004**	**8.0000e-005**	**2.4000e-004**	**6.0000e-005**	**8.0000e-005**	**1.4000e-004**		**3.2846**	**3.2846**	**2.0700e-003**	**1.0000e-003**	**3.6336**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0235	8.2800e-003	0.0751	3.0000e-005	1.6000e-004	8.0000e-005	2.4000e-004	6.0000e-005	8.0000e-005	1.4000e-004		3.2846	3.2846	2.0700e-003	1.0000e-003	3.6336
Total	**0.0235**	**8.2800e-003**	**0.0751**	**3.0000e-005**	**1.6000e-004**	**8.0000e-005**	**2.4000e-004**	**6.0000e-005**	**8.0000e-005**	**1.4000e-004**		**3.2846**	**3.2846**	**2.0700e-003**	**1.0000e-003**	**3.6336**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796		1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**		**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7900e-003	0.0460	0.0342	6.0000e-005	1.1000e-004	9.0000e-005	2.0000e-004	4.0000e-005	9.0000e-005	1.3000e-004		6.6729	6.6729	2.4000e-004	1.0600e-003	6.9950
Worker	0.0176	6.2100e-003	0.0563	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	6.0000e-005	1.1000e-004		2.4635	2.4635	1.5500e-003	7.5000e-004	2.7252
Total	**0.0204**	**0.0522**	**0.0905**	**8.0000e-005**	**2.3000e-004**	**1.5000e-004**	**3.8000e-004**	**9.0000e-005**	**1.5000e-004**	**2.4000e-004**		**9.1363**	**9.1363**	**1.7900e-003**	**1.8100e-003**	**9.7202**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796	0.0000	1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**	**0.0000**	**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7900e-003	0.0460	0.0342	6.0000e-005	1.1000e-004	9.0000e-005	2.0000e-004	4.0000e-005	9.0000e-005	1.3000e-004		6.6729	6.6729	2.4000e-004	1.0600e-003	6.9950
Worker	0.0176	6.2100e-003	0.0563	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	6.0000e-005	1.1000e-004		2.4635	2.4635	1.5500e-003	7.5000e-004	2.7252
Total	**0.0204**	**0.0522**	**0.0905**	**8.0000e-005**	**2.3000e-004**	**1.5000e-004**	**3.8000e-004**	**9.0000e-005**	**1.5000e-004**	**2.4000e-004**		**9.1363**	**9.1363**	**1.7900e-003**	**1.8100e-003**	**9.7202**

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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 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216		1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**		**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-003	0.0464	0.0351	6.0000e-005	1.1000e-004	5.0000e-005	1.5000e-004	4.0000e-005	4.0000e-005	9.0000e-005		6.6924	6.6924	2.3000e-004	1.0600e-003	7.0156
Worker	0.0162	5.7000e-003	0.0542	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3863	2.3863	1.4300e-003	7.1000e-004	2.6340
Total	**0.0189**	**0.0521**	**0.0894**	**8.0000e-005**	**2.3000e-004**	**1.1000e-004**	**3.3000e-004**	**9.0000e-005**	**9.0000e-005**	**1.9000e-004**		**9.0787**	**9.0787**	**1.6600e-003**	**1.7700e-003**	**9.6496**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216	0.0000	1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**	**0.0000**	**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-003	0.0464	0.0351	6.0000e-005	1.1000e-004	5.0000e-005	1.5000e-004	4.0000e-005	4.0000e-005	9.0000e-005		6.6924	6.6924	2.3000e-004	1.0600e-003	7.0156
Worker	0.0162	5.7000e-003	0.0542	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3863	2.3863	1.4300e-003	7.1000e-004	2.6340
Total	**0.0189**	**0.0521**	**0.0894**	**8.0000e-005**	**2.3000e-004**	**1.1000e-004**	**3.3000e-004**	**9.0000e-005**	**9.0000e-005**	**1.9000e-004**		**9.0787**	**9.0787**	**1.6600e-003**	**1.7700e-003**	**9.6496**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761		1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**		**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6500e-003	0.0449	0.0371	6.0000e-005	1.1000e-004	2.0000e-005	1.3000e-004	4.0000e-005	2.0000e-005	7.0000e-005		6.3752	6.3752	2.3000e-004	1.0200e-003	6.6838
Worker	0.0149	5.2500e-003	0.0522	2.0000e-005	1.2000e-004	6.0000e-005	1.7000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3097	2.3097	1.3100e-003	6.8000e-004	2.5443
Total	**0.0176**	**0.0502**	**0.0893**	**8.0000e-005**	**2.3000e-004**	**8.0000e-005**	**3.0000e-004**	**9.0000e-005**	**7.0000e-005**	**1.7000e-004**		**8.6849**	**8.6849**	**1.5400e-003**	**1.7000e-003**	**9.2281**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761	0.0000	1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**	**0.0000**	**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6500e-003	0.0449	0.0371	6.0000e-005	1.1000e-004	2.0000e-005	1.3000e-004	4.0000e-005	2.0000e-005	7.0000e-005		6.3752	6.3752	2.3000e-004	1.0200e-003	6.6838
Worker	0.0149	5.2500e-003	0.0522	2.0000e-005	1.2000e-004	6.0000e-005	1.7000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3097	2.3097	1.3100e-003	6.8000e-004	2.5443
Total	**0.0176**	**0.0502**	**0.0893**	**8.0000e-005**	**2.3000e-004**	**8.0000e-005**	**3.0000e-004**	**9.0000e-005**	**7.0000e-005**	**1.7000e-004**		**8.6849**	**8.6849**	**1.5400e-003**	**1.7000e-003**	**9.2281**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.7000e-003	9.5000e-004	9.0400e-003	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3977	0.3977	2.4000e-004	1.2000e-004	0.4390
Total	**2.7000e-003**	**9.5000e-004**	**9.0400e-003**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3977**	**0.3977**	**2.4000e-004**	**1.2000e-004**	**0.4390**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.7000e-003	9.5000e-004	9.0400e-003	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3977	0.3977	2.4000e-004	1.2000e-004	0.4390
Total	**2.7000e-003**	**9.5000e-004**	**9.0400e-003**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3977**	**0.3977**	**2.4000e-004**	**1.2000e-004**	**0.4390**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.4800e-003	8.8000e-004	8.7000e-003	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3850	0.3850	2.2000e-004	1.1000e-004	0.4240
Total	**2.4800e-003**	**8.8000e-004**	**8.7000e-003**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3850**	**0.3850**	**2.2000e-004**	**1.1000e-004**	**0.4240**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.4800e-003	8.8000e-004	8.7000e-003	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3850	0.3850	2.2000e-004	1.1000e-004	0.4240
Total	**2.4800e-003**	**8.8000e-004**	**8.7000e-003**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3850**	**0.3850**	**2.2000e-004**	**1.1000e-004**	**0.4240**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
Mitigated	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962
Unmitigated	0.9779	1.0175	10.1473	0.0223	2.2647	0.0158	2.2806	0.6032	0.0147	0.6179		2,268.3120	2,268.3120	0.1472	0.0913	2,299.1962

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas Mitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
NaturalGas Unmitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2304.76	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

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	lb/day										lb/day					
Single Family Housing	2.30476	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Unmitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site. Trip length adjusted to reflect on-site vehicle operation.

Demolition - Per applicant provided information

Grading - Applicant provided import/export

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	10.00	29.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.6754	40.0782	26.8289	0.0515	7.0827	1.7464	7.9985	3.4248	1.6207	4.2673	0.0000	5,008.3566	5,008.3566	1.3725	0.0502	5,057.6186
2022	14.7081	7.4953	9.3004	0.0146	2.5000e-004	0.4186	0.4189	1.0000e-004	0.4034	0.4035	0.0000	1,398.9466	1,398.9466	0.2069	1.9600e-003	1,404.7021
2023	14.6401	6.9043	9.2694	0.0146	2.5000e-004	0.3598	0.3601	1.0000e-004	0.3470	0.3471	0.0000	1,398.8972	1,398.8972	0.2031	1.8800e-003	1,404.5365
Maximum	**14.7081**	**40.0782**	**26.8289**	**0.0515**	**7.0827**	**1.7464**	**7.9985**	**3.4248**	**1.6207**	**4.2673**	**0.0000**	**5,008.3566**	**5,008.3566**	**1.3725**	**0.0502**	**5,057.6186**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.6754	40.0782	26.8289	0.0515	3.1873	1.7464	4.1031	1.5412	1.6207	2.3837	0.0000	5,008.3566	5,008.3566	1.3725	0.0502	5,057.6186
2022	14.7081	7.4953	9.3004	0.0146	2.5000e-004	0.4186	0.4189	1.0000e-004	0.4034	0.4035	0.0000	1,398.9466	1,398.9466	0.2069	1.9600e-003	1,404.7021
2023	14.6401	6.9043	9.2694	0.0146	2.5000e-004	0.3598	0.3601	1.0000e-004	0.3470	0.3471	0.0000	1,398.8972	1,398.8972	0.2031	1.8800e-003	1,404.5365
Maximum	**14.7081**	**40.0782**	**26.8289**	**0.0515**	**3.1873**	**1.7464**	**4.1031**	**1.5412**	**1.6207**	**2.3837**	**0.0000**	**5,008.3566**	**5,008.3566**	**1.3725**	**0.0502**	**5,057.6186**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	55.00	0.00	44.38	55.00	0.00	37.54	0.00	0.00	0.00	0.00	0.00	0.00

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Total	**2.4469**	**1.3433**	**12.7100**	**0.0228**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,447.5916**	**2,447.5916**	**0.1612**	**0.1004**	**2,481.5336**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Energy	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Mobile	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Total	**2.4469**	**1.3433**	**12.7100**	**0.0228**	**2.2647**	**0.0481**	**2.3128**	**0.6032**	**0.0470**	**0.6502**	**0.0000**	**2,447.5916**	**2,447.5916**	**0.1612**	**0.1004**	**2,481.5336**

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	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	
4	Paving	Paving	11/3/2021	12/7/2021	5	25	
5	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	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	5	14.00	0.00	314.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7151	0.0000	2.7151	0.4111	0.0000	0.4111			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**2.7151**	**1.0409**	**3.7560**	**0.4111**	**0.9715**	**1.3826**		**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0125	0.2477	0.1741	3.4000e-004	2.7000e-004	4.2000e-004	6.9000e-004	1.0000e-004	4.0000e-004	5.0000e-004		36.6672	36.6672	9.4000e-004	5.7900e-003	38.4168
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
Worker	0.0196	7.9500e-003	0.0786	3.0000e-005	1.4000e-004	7.0000e-005	2.1000e-004	5.0000e-005	7.0000e-005	1.2000e-004		2.8457	2.8457	2.0600e-003	9.3000e-004	3.1746
Total	**0.0321**	**0.2557**	**0.2526**	**3.7000e-004**	**4.1000e-004**	**4.9000e-004**	**9.0000e-004**	**1.5000e-004**	**4.7000e-004**	**6.2000e-004**		**39.5129**	**39.5129**	**3.0000e-003**	**6.7200e-003**	**41.5914**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2218	0.0000	1.2218	0.1850	0.0000	0.1850			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	**1.9930**	**19.6966**	**14.4925**	**0.0241**	**1.2218**	**1.0409**	**2.2627**	**0.1850**	**0.9715**	**1.1565**	**0.0000**	**2,322.7171**	**2,322.7171**	**0.5940**		**2,337.5658**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0125	0.2477	0.1741	3.4000e-004	2.7000e-004	4.2000e-004	6.9000e-004	1.0000e-004	4.0000e-004	5.0000e-004		36.6672	36.6672	9.4000e-004	5.7900e-003	38.4168
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
Worker	0.0196	7.9500e-003	0.0786	3.0000e-005	1.4000e-004	7.0000e-005	2.1000e-004	5.0000e-005	7.0000e-005	1.2000e-004		2.8457	2.8457	2.0600e-003	9.3000e-004	3.1746
Total	**0.0321**	**0.2557**	**0.2526**	**3.7000e-004**	**4.1000e-004**	**4.9000e-004**	**9.0000e-004**	**1.5000e-004**	**4.7000e-004**	**6.2000e-004**		**39.5129**	**39.5129**	**3.0000e-003**	**6.7200e-003**	**41.5914**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6749	0.0000	1.6749	0.1845	0.0000	0.1845			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457		2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**1.6749**	**0.7019**	**2.3768**	**0.1845**	**0.6457**	**0.8302**		**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0928	1.8352	1.2893	2.5200e-003	1.9800e-003	3.1200e-003	5.1000e-003	7.2000e-004	2.9900e-003	3.7100e-003		271.6174	271.6174	6.9500e-003	0.0429	284.5782
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
Worker	0.0112	4.5400e-003	0.0449	2.0000e-005	8.0000e-005	4.0000e-005	1.2000e-004	3.0000e-005	4.0000e-005	7.0000e-005		1.6261	1.6261	1.1800e-003	5.3000e-004	1.8140
Total	**0.1040**	**1.8397**	**1.3342**	**2.5400e-003**	**2.0600e-003**	**3.1600e-003**	**5.2200e-003**	**7.5000e-004**	**3.0300e-003**	**3.7800e-003**		**273.2435**	**273.2435**	**8.1300e-003**	**0.0434**	**286.3923**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7537	0.0000	0.7537	0.0830	0.0000	0.0830			0.0000			0.0000
Off-Road	1.5463	18.2862	10.7496	0.0245		0.7019	0.7019		0.6457	0.6457	0.0000	2,372.8832	2,372.8832	0.7674		2,392.0692
Total	**1.5463**	**18.2862**	**10.7496**	**0.0245**	**0.7537**	**0.7019**	**1.4556**	**0.0830**	**0.6457**	**0.7288**	**0.0000**	**2,372.8832**	**2,372.8832**	**0.7674**		**2,392.0692**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0928	1.8352	1.2893	2.5200e-003	1.9800e-003	3.1200e-003	5.1000e-003	7.2000e-004	2.9900e-003	3.7100e-003		271.6174	271.6174	6.9500e-003	0.0429	284.5782
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
Worker	0.0112	4.5400e-003	0.0449	2.0000e-005	8.0000e-005	4.0000e-005	1.2000e-004	3.0000e-005	4.0000e-005	7.0000e-005		1.6261	1.6261	1.1800e-003	5.3000e-004	1.8140
Total	**0.1040**	**1.8397**	**1.3342**	**2.5400e-003**	**2.0600e-003**	**3.1600e-003**	**5.2200e-003**	**7.5000e-004**	**3.0300e-003**	**3.7800e-003**		**273.2435**	**273.2435**	**8.1300e-003**	**0.0434**	**286.3923**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**7.0826**	**0.9158**	**7.9983**	**3.4247**	**0.8425**	**4.2672**		**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0140	5.6800e-003	0.0561	2.0000e-005	1.0000e-004	5.0000e-005	1.5000e-004	4.0000e-005	5.0000e-005	9.0000e-005		2.0326	2.0326	1.4700e-003	6.6000e-004	2.2675
Total	**0.0140**	**5.6800e-003**	**0.0561**	**2.0000e-005**	**1.0000e-004**	**5.0000e-005**	**1.5000e-004**	**4.0000e-005**	**5.0000e-005**	**9.0000e-005**		**2.0326**	**2.0326**	**1.4700e-003**	**6.6000e-004**	**2.2675**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	**1.8271**	**20.2135**	**9.7604**	**0.0206**	**3.1872**	**0.9158**	**4.1029**	**1.5411**	**0.8425**	**2.3836**	**0.0000**	**1,995.6114**	**1,995.6114**	**0.6454**		**2,011.7470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0140	5.6800e-003	0.0561	2.0000e-005	1.0000e-004	5.0000e-005	1.5000e-004	4.0000e-005	5.0000e-005	9.0000e-005		2.0326	2.0326	1.4700e-003	6.6000e-004	2.2675
Total	**0.0140**	**5.6800e-003**	**0.0561**	**2.0000e-005**	**1.0000e-004**	**5.0000e-005**	**1.5000e-004**	**4.0000e-005**	**5.0000e-005**	**9.0000e-005**		**2.0326**	**2.0326**	**1.4700e-003**	**6.6000e-004**	**2.2675**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0224	9.0900e-003	0.0898	3.0000e-005	1.6000e-004	8.0000e-005	2.4000e-004	6.0000e-005	8.0000e-005	1.4000e-004		3.2522	3.2522	2.3600e-003	1.0600e-003	3.6281
Total	**0.0224**	**9.0900e-003**	**0.0898**	**3.0000e-005**	**1.6000e-004**	**8.0000e-005**	**2.4000e-004**	**6.0000e-005**	**8.0000e-005**	**1.4000e-004**		**3.2522**	**3.2522**	**2.3600e-003**	**1.0600e-003**	**3.6281**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	0.0224	9.0900e-003	0.0898	3.0000e-005	1.6000e-004	8.0000e-005	2.4000e-004	6.0000e-005	8.0000e-005	1.4000e-004		3.2522	3.2522	2.3600e-003	1.0600e-003	3.6281
Total	**0.0224**	**9.0900e-003**	**0.0898**	**3.0000e-005**	**1.6000e-004**	**8.0000e-005**	**2.4000e-004**	**6.0000e-005**	**8.0000e-005**	**1.4000e-004**		**3.2522**	**3.2522**	**2.3600e-003**	**1.0600e-003**	**3.6281**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796		1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**		**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0478	0.0369	6.0000e-005	1.1000e-004	1.0000e-004	2.1000e-004	4.0000e-005	1.0000e-004	1.4000e-004		6.6757	6.6757	2.3000e-004	1.0600e-003	6.9983
Worker	0.0168	6.8100e-003	0.0673	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	6.0000e-005	1.1000e-004		2.4392	2.4392	1.7700e-003	8.0000e-004	2.7210
Total	**0.0194**	**0.0546**	**0.1043**	**8.0000e-005**	**2.3000e-004**	**1.6000e-004**	**3.9000e-004**	**9.0000e-005**	**1.6000e-004**	**2.5000e-004**		**9.1148**	**9.1148**	**2.0000e-003**	**1.8600e-003**	**9.7193**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7242	6.6515	7.4236	0.0116		0.3980	0.3980		0.3796	0.3796	0.0000	1,107.7636	1,107.7636	0.1886		1,112.4777
Total	**0.7242**	**6.6515**	**7.4236**	**0.0116**		**0.3980**	**0.3980**		**0.3796**	**0.3796**	**0.0000**	**1,107.7636**	**1,107.7636**	**0.1886**		**1,112.4777**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0478	0.0369	6.0000e-005	1.1000e-004	1.0000e-004	2.1000e-004	4.0000e-005	1.0000e-004	1.4000e-004		6.6757	6.6757	2.3000e-004	1.0600e-003	6.9983
Worker	0.0168	6.8100e-003	0.0673	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	6.0000e-005	1.1000e-004		2.4392	2.4392	1.7700e-003	8.0000e-004	2.7210
Total	**0.0194**	**0.0546**	**0.1043**	**8.0000e-005**	**2.3000e-004**	**1.6000e-004**	**3.9000e-004**	**9.0000e-005**	**1.6000e-004**	**2.5000e-004**		**9.1148**	**9.1148**	**2.0000e-003**	**1.8600e-003**	**9.7193**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216		1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**		**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5100e-003	0.0485	0.0377	6.0000e-005	1.1000e-004	5.0000e-005	1.6000e-004	4.0000e-005	5.0000e-005	9.0000e-005		6.7245	6.7245	2.3000e-004	1.0700e-003	7.0495
Worker	0.0154	6.2600e-003	0.0649	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3626	2.3626	1.6200e-003	7.6000e-004	2.6292
Total	**0.0179**	**0.0547**	**0.1026**	**8.0000e-005**	**2.3000e-004**	**1.1000e-004**	**3.4000e-004**	**9.0000e-005**	**1.0000e-004**	**1.9000e-004**		**9.0870**	**9.0870**	**1.8500e-003**	**1.8300e-003**	**9.6787**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6523	6.0311	7.3735	0.0116		0.3368	0.3368		0.3216	0.3216	0.0000	1,108.0177	1,108.0177	0.1865		1,112.6791
Total	**0.6523**	**6.0311**	**7.3735**	**0.0116**		**0.3368**	**0.3368**		**0.3216**	**0.3216**	**0.0000**	**1,108.0177**	**1,108.0177**	**0.1865**		**1,112.6791**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5100e-003	0.0485	0.0377	6.0000e-005	1.1000e-004	5.0000e-005	1.6000e-004	4.0000e-005	5.0000e-005	9.0000e-005		6.7245	6.7245	2.3000e-004	1.0700e-003	7.0495
Worker	0.0154	6.2600e-003	0.0649	2.0000e-005	1.2000e-004	6.0000e-005	1.8000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.3626	2.3626	1.6200e-003	7.6000e-004	2.6292
Total	**0.0179**	**0.0547**	**0.1026**	**8.0000e-005**	**2.3000e-004**	**1.1000e-004**	**3.4000e-004**	**9.0000e-005**	**1.0000e-004**	**1.9000e-004**		**9.0870**	**9.0870**	**1.8500e-003**	**1.8300e-003**	**9.6787**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761		1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**		**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-003	0.0478	0.0392	6.0000e-005	1.1000e-004	3.0000e-005	1.4000e-004	4.0000e-005	3.0000e-005	7.0000e-005		6.5107	6.5107	2.2000e-004	1.0400e-003	6.8259
Worker	0.0141	5.7600e-003	0.0624	2.0000e-005	1.2000e-004	6.0000e-005	1.7000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.2865	2.2865	1.4900e-003	7.2000e-004	2.5389
Total	**0.0165**	**0.0536**	**0.1016**	**8.0000e-005**	**2.3000e-004**	**9.0000e-005**	**3.1000e-004**	**9.0000e-005**	**8.0000e-005**	**1.7000e-004**		**8.7972**	**8.7972**	**1.7100e-003**	**1.7600e-003**	**9.3648**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	lb/day										lb/day					
Off-Road	0.5988	5.5468	7.3462	0.0116		0.2889	0.2889		0.2761	0.2761	0.0000	1,108.2709	1,108.2709	0.1843		1,112.8795
Total	**0.5988**	**5.5468**	**7.3462**	**0.0116**		**0.2889**	**0.2889**		**0.2761**	**0.2761**	**0.0000**	**1,108.2709**	**1,108.2709**	**0.1843**		**1,112.8795**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-003	0.0478	0.0392	6.0000e-005	1.1000e-004	3.0000e-005	1.4000e-004	4.0000e-005	3.0000e-005	7.0000e-005		6.5107	6.5107	2.2000e-004	1.0400e-003	6.8259
Worker	0.0141	5.7600e-003	0.0624	2.0000e-005	1.2000e-004	6.0000e-005	1.7000e-004	5.0000e-005	5.0000e-005	1.0000e-004		2.2865	2.2865	1.4900e-003	7.2000e-004	2.5389
Total	**0.0165**	**0.0536**	**0.1016**	**8.0000e-005**	**2.3000e-004**	**9.0000e-005**	**3.1000e-004**	**9.0000e-005**	**8.0000e-005**	**1.7000e-004**		**8.7972**	**8.7972**	**1.7100e-003**	**1.7600e-003**	**9.3648**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.5600e-003	1.0400e-003	0.0108	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3938	0.3938	2.7000e-004	1.3000e-004	0.4382
Total	**2.5600e-003**	**1.0400e-003**	**0.0108**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3938**	**0.3938**	**2.7000e-004**	**1.3000e-004**	**0.4382**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**14.0353**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.5600e-003	1.0400e-003	0.0108	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3938	0.3938	2.7000e-004	1.3000e-004	0.4382
Total	**2.5600e-003**	**1.0400e-003**	**0.0108**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3938**	**0.3938**	**2.7000e-004**	**1.3000e-004**	**0.4382**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.3500e-003	9.6000e-004	0.0104	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3811	0.3811	2.5000e-004	1.2000e-004	0.4232
Total	**2.3500e-003**	**9.6000e-004**	**0.0104**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3811**	**0.3811**	**2.5000e-004**	**1.2000e-004**	**0.4232**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	13.8308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**14.0224**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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
Worker	2.3500e-003	9.6000e-004	0.0104	0.0000	2.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005		0.3811	0.3811	2.5000e-004	1.2000e-004	0.4232
Total	**2.3500e-003**	**9.6000e-004**	**0.0104**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**3.0000e-005**	**1.0000e-005**	**1.0000e-005**	**2.0000e-005**		**0.3811**	**0.3811**	**2.5000e-004**	**1.2000e-004**	**0.4232**

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Mitigated	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536
Unmitigated	0.9609	1.0996	9.8965	0.0213	2.2647	0.0159	2.2806	0.6032	0.0147	0.6179		2,171.5407	2,171.5407	0.1513	0.0954	2,203.7536

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
NaturalGas Mitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
NaturalGas Unmitigated	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2304.76	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

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	lb/day										lb/day					
Single Family Housing	2.30476	0.0249	0.2124	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172		271.1486	271.1486	5.2000e-003	4.9700e-003	272.7599
Total		**0.0249**	**0.2124**	**0.0904**	**1.3600e-003**		**0.0172**	**0.0172**		**0.0172**	**0.0172**		**271.1486**	**271.1486**	**5.2000e-003**	**4.9700e-003**	**272.7599**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201
Unmitigated	1.4611	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	4.9022	4.9022	4.7100e-003	0.0000	5.0201

2608 Santa Anita Ave Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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	lb/day										lb/day					
Architectural Coating	0.1099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2692					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	0.0820	0.0314	2.7232	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9022	4.9022	4.7100e-003		5.0201
Total	**1.4611**	**0.0314**	**2.7232**	**1.4000e-004**		**0.0151**	**0.0151**		**0.0151**	**0.0151**	**0.0000**	**4.9022**	**4.9022**	**4.7100e-003**	**0.0000**	**5.0201**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

11.0 Vegetation

HRA CalEEMod Output
Tier 4i Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2608 Santa Anita Ave Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	33.00	Dwelling Unit	2.88	64,100.00	94

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per applicant provided information

Construction Phase - Per applicant provided schedule.

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment -

Trips and VMT - Trips rounded up to even values to represent arrival and departrue from the site.

Demolition - Per applicant provided information

Grading - Applicant provided import/export

Architectural Coating - Low VOC coatings

Vehicle Trips - Consistent with Traffic analysis.

Woodstoves - No woodstoves or fireplaces per building plans.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use - Default values

Water And Wastewater - Default values

Solid Waste - Default values

Construction Off-road Equipment Mitigation - Tier 3 equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	29.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	220.00	290.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	3.00	25.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	28.05	0.00
tblFireplaces	NumberNoFireplace	3.30	0.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialImported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	59,400.00	64,100.00
tblLandUse	LotAcreage	10.71	2.88
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	HaulingTripNumber	2,325.00	2,326.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	VendorTripLength	6.90	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblWoodstoves	NumberCatalytic	1.65	0.00
tblWoodstoves	NumberNoncatalytic	1.65	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2021	0.0847	0.8961	0.6489	1.1800e-003	0.1257	0.0419	0.1676	0.0417	0.0388	0.0805	0.0000	103.4479	103.4479	0.0292	6.0000e-004	104.3558
2022	0.2064	0.8030	0.9870	1.5400e-003	3.0000e-005	0.0445	0.0445	1.0000e-005	0.0425	0.0425	0.0000	133.9168	133.9168	0.0224	2.1000e-004	134.5395
2023	0.0878	0.0414	0.0556	9.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	2.0800e-003	2.0800e-003	0.0000	7.6140	7.6140	1.1100e-003	1.0000e-005	7.6446
Maximum	**0.2064**	**0.8961**	**0.9870**	**1.5400e-003**	**0.1257**	**0.0445**	**0.1676**	**0.0417**	**0.0425**	**0.0805**	**0.0000**	**133.9168**	**133.9168**	**0.0292**	**6.0000e-004**	**134.5395**

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					
2021	0.0236	0.4228	0.7430	1.1800e-003	0.0566	2.0300e-003	0.0586	0.0188	2.0300e-003	0.0208	0.0000	103.4478	103.4478	0.0292	6.0000e-004	104.3557
2022	0.1507	0.6059	1.0485	1.5400e-003	3.0000e-005	2.2500e-003	2.2800e-003	1.0000e-005	2.2500e-003	2.2600e-003	0.0000	133.9166	133.9166	0.0224	2.1000e-004	134.5393
2023	0.0848	0.0339	0.0587	9.0000e-005	0.0000	1.3000e-004	1.3000e-004	0.0000	1.3000e-004	1.3000e-004	0.0000	7.6140	7.6140	1.1100e-003	1.0000e-005	7.6446
Maximum	**0.1507**	**0.6059**	**1.0485**	**1.5400e-003**	**0.0566**	**2.2500e-003**	**0.0586**	**0.0188**	**2.2500e-003**	**0.0208**	**0.0000**	**133.9166**	**133.9166**	**0.0292**	**6.0000e-004**	**134.5393**

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	ROG	NOx	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	**31.63**	**38.95**	**-9.39**	**0.00**	**54.97**	**95.02**	**71.51**	**54.99**	**94.71**	**81.46**	**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	**9-1-2021**	**11-30-2021**	0.8841	0.3818
2	**12-1-2021**	**2-28-2022**	0.2356	0.1643
3	**3-1-2022**	**5-31-2022**	0.2219	0.1591
4	**6-1-2022**	**8-31-2022**	0.2219	0.1591
5	**9-1-2022**	**11-30-2022**	0.2196	0.1574
6	**12-1-2022**	**2-28-2023**	0.3380	0.3019
		Highest	0.8841	0.3818

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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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Energy	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	90.8795	90.8795	4.7400e-003	1.2900e-003	91.3835
Mobile	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Waste						0.0000	0.0000		0.0000	0.0000	7.8233	0.0000	7.8233	0.4623	0.0000	19.3818
Water						0.0000	0.0000		0.0000	0.0000	0.6821	7.6357	8.3179	0.0707	1.7300e-003	10.6017
Total	**0.4346**	**0.2412**	**2.1350**	**4.1000e-003**	**0.3951**	**7.8300e-003**	**0.4030**	**0.1054**	**7.6200e-003**	**0.1130**	**8.5054**	**453.3729**	**461.8783**	**0.5626**	**0.0185**	**481.4647**

	ROG	NOx	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	9/1/2021	10/5/2021	5	25	
2	Site Preparation	Site Preparation	9/1/2021	10/5/2021	5	25	
3	Grading	Grading	10/6/2021	11/2/2021	5	20	

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4	Paving	Paving	11/3/2021	12/7/2021	5	25	
5	Building Construction	Building Construction	12/8/2021	1/17/2023	5	290	
6	Architectural Coating	Architectural Coating	12/8/2022	1/17/2023	5	29	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 129,803; Residential Outdoor: 43,268; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

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Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
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	5	14.00	0.00	314.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,326.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	12.00	4.00	0.00	0.00	0.00	0.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	0.00	0.00	0.00	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 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	5.1400e-003	0.0000	5.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.2462	0.1812	3.0000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	26.3392	26.3392	6.7400e-003	0.0000	26.5076
Total	**0.0249**	**0.2462**	**0.1812**	**3.0000e-004**	**0.0339**	**0.0130**	**0.0470**	**5.1400e-003**	**0.0121**	**0.0173**	**0.0000**	**26.3392**	**26.3392**	**6.7400e-003**	**0.0000**	**26.5076**

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	1.7000e-004	3.0200e-003	2.1000e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4152	0.4152	1.0000e-005	7.0000e-005	0.4350
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	2.4000e-004	1.0000e-004	9.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0324	0.0324	2.0000e-005	1.0000e-005	0.0360
Total	**4.1000e-004**	**3.1200e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4475**	**0.4475**	**3.0000e-005**	**8.0000e-005**	**0.4710**

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3.2 Demolition - 2021

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					0.0153	0.0000	0.0153	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.1068	0.1927	3.0000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	26.3391	26.3391	6.7400e-003	0.0000	26.5075
Total	**5.7900e-003**	**0.1068**	**0.1927**	**3.0000e-004**	**0.0153**	**4.7000e-004**	**0.0157**	**2.3100e-003**	**4.7000e-004**	**2.7800e-003**	**0.0000**	**26.3391**	**26.3391**	**6.7400e-003**	**0.0000**	**26.5075**

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	1.7000e-004	3.0200e-003	2.1000e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.4152	0.4152	1.0000e-005	7.0000e-005	0.4350
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	2.4000e-004	1.0000e-004	9.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0324	0.0324	2.0000e-005	1.0000e-005	0.0360
Total	**4.1000e-004**	**3.1200e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4475**	**0.4475**	**3.0000e-005**	**8.0000e-005**	**0.4710**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0209	0.0000	0.0209	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.2286	0.1344	3.1000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**0.0193**	**0.2286**	**0.1344**	**3.1000e-004**	**0.0209**	**8.7700e-003**	**0.0297**	**2.3100e-003**	**8.0700e-003**	**0.0104**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	1.2300e-003	0.0224	0.0156	3.0000e-005	2.0000e-005	4.0000e-005	6.0000e-005	1.0000e-005	4.0000e-005	4.0000e-005	0.0000	3.0753	3.0753	8.0000e-005	4.9000e-004	3.2221
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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.3700e-003**	**0.0225**	**0.0161**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**6.0000e-005**	**1.0000e-005**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**3.0938**	**3.0938**	**9.0000e-005**	**5.0000e-004**	**3.2427**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2021

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					9.4200e-003	0.0000	9.4200e-003	1.0400e-003	0.0000	1.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2200e-003	0.0867	0.1705	3.1000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	26.9080	26.9080	8.7000e-003	0.0000	27.1256
Total	**5.2200e-003**	**0.0867**	**0.1705**	**3.1000e-004**	**9.4200e-003**	**5.0000e-004**	**9.9200e-003**	**1.0400e-003**	**5.0000e-004**	**1.5400e-003**	**0.0000**	**26.9080**	**26.9080**	**8.7000e-003**	**0.0000**	**27.1256**

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	1.2300e-003	0.0224	0.0156	3.0000e-005	2.0000e-005	4.0000e-005	6.0000e-005	1.0000e-005	4.0000e-005	4.0000e-005	0.0000	3.0753	3.0753	8.0000e-005	4.9000e-004	3.2221
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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.3700e-003**	**0.0225**	**0.0161**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**6.0000e-005**	**1.0000e-005**	**4.0000e-005**	**4.0000e-005**	**0.0000**	**3.0938**	**3.0938**	**9.0000e-005**	**5.0000e-004**	**3.2427**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0183	0.2021	0.0976	2.1000e-004		9.1600e-003	9.1600e-003		8.4200e-003	8.4200e-003	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2503
Total	**0.0183**	**0.2021**	**0.0976**	**2.1000e-004**	**0.0708**	**9.1600e-003**	**0.0800**	**0.0343**	**8.4200e-003**	**0.0427**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2503**

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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.4000e-004**	**6.0000e-005**	**5.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0185**	**0.0185**	**1.0000e-005**	**1.0000e-005**	**0.0206**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2021

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					0.0319	0.0000	0.0319	0.0154	0.0000	0.0154	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6900e-003	0.0636	0.1215	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.1039	18.1039	5.8600e-003	0.0000	18.2502
Total	**3.6900e-003**	**0.0636**	**0.1215**	**2.1000e-004**	**0.0319**	**3.4000e-004**	**0.0322**	**0.0154**	**3.4000e-004**	**0.0158**	**0.0000**	**18.1039**	**18.1039**	**5.8600e-003**	**0.0000**	**18.2502**

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	1.4000e-004	6.0000e-005	5.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0185	0.0185	1.0000e-005	1.0000e-005	0.0206
Total	**1.4000e-004**	**6.0000e-005**	**5.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0185**	**0.0185**	**1.0000e-005**	**1.0000e-005**	**0.0206**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1331	0.1472	2.2000e-004		7.2800e-003	7.2800e-003		6.7100e-003	6.7100e-003	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5346
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0133**	**0.1331**	**0.1472**	**2.2000e-004**		**7.2800e-003**	**7.2800e-003**		**6.7100e-003**	**6.7100e-003**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5346**

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	2.7000e-004	1.1000e-004	1.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0370	0.0370	3.0000e-005	1.0000e-005	0.0412
Total	**2.7000e-004**	**1.1000e-004**	**1.0900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0370**	**0.0370**	**3.0000e-005**	**1.0000e-005**	**0.0412**

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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 Paving - 2021

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	4.4300e-003	0.0986	0.1660	2.2000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	19.3810	19.3810	6.1400e-003	0.0000	19.5345
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.4300e-003**	**0.0986**	**0.1660**	**2.2000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**19.3810**	**19.3810**	**6.1400e-003**	**0.0000**	**19.5345**

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	2.7000e-004	1.1000e-004	1.0900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0370	0.0370	3.0000e-005	1.0000e-005	0.0412
Total	**2.7000e-004**	**1.1000e-004**	**1.0900e-003**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0370**	**0.0370**	**3.0000e-005**	**1.0000e-005**	**0.0412**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0599	0.0668	1.0000e-004		3.5800e-003	3.5800e-003		3.4200e-003	3.4200e-003	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**6.5200e-003**	**0.0599**	**0.0668**	**1.0000e-004**		**3.5800e-003**	**3.5800e-003**		**3.4200e-003**	**3.4200e-003**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	4.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0545	0.0545	0.0000	1.0000e-005	0.0571
Worker	1.5000e-004	6.0000e-005	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0200	0.0200	1.0000e-005	1.0000e-005	0.0222
Total	**1.7000e-004**	**4.8000e-004**	**9.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0745**	**0.0745**	**1.0000e-005**	**2.0000e-005**	**0.0794**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0408	0.0706	1.0000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	9.0445	9.0445	1.5400e-003	0.0000	9.0830
Total	**2.1000e-003**	**0.0408**	**0.0706**	**1.0000e-004**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**9.0445**	**9.0445**	**1.5400e-003**	**0.0000**	**9.0830**

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	4.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0545	0.0545	0.0000	1.0000e-005	0.0571
Worker	1.5000e-004	6.0000e-005	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0200	0.0200	1.0000e-005	1.0000e-005	0.0222
Total	**1.7000e-004**	**4.8000e-004**	**9.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0745**	**0.0745**	**1.0000e-005**	**2.0000e-005**	**0.0794**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

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	0.0848	0.7840	0.9586	1.5100e-003		0.0438	0.0438		0.0418	0.0418	0.0000	130.6730	130.6730	0.0220	0.0000	131.2227
Total	**0.0848**	**0.7840**	**0.9586**	**1.5100e-003**		**0.0438**	**0.0438**		**0.0418**	**0.0418**	**0.0000**	**130.6730**	**130.6730**	**0.0220**	**0.0000**	**131.2227**

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	3.4000e-004	6.1500e-003	4.7300e-003	1.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7909	0.7909	3.0000e-005	1.3000e-004	0.8291
Worker	1.9500e-003	8.0000e-004	8.1900e-003	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.2796	0.2796	1.9000e-004	9.0000e-005	0.3105
Total	**2.2900e-003**	**6.9500e-003**	**0.0129**	**1.0000e-005**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**2.0000e-005**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.0705**	**1.0705**	**2.2000e-004**	**2.2000e-004**	**1.1396**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Building Construction - 2022

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	0.0303	0.5899	1.0199	1.5100e-003		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	130.6728	130.6728	0.0220	0.0000	131.2226
Total	**0.0303**	**0.5899**	**1.0199**	**1.5100e-003**		**2.2100e-003**	**2.2100e-003**		**2.2100e-003**	**2.2100e-003**	**0.0000**	**130.6728**	**130.6728**	**0.0220**	**0.0000**	**131.2226**

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	3.4000e-004	6.1500e-003	4.7300e-003	1.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7909	0.7909	3.0000e-005	1.3000e-004	0.8291
Worker	1.9500e-003	8.0000e-004	8.1900e-003	0.0000	2.0000e-005	1.0000e-005	2.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.2796	0.2796	1.9000e-004	9.0000e-005	0.3105
Total	**2.2900e-003**	**6.9500e-003**	**0.0129**	**1.0000e-005**	**3.0000e-005**	**2.0000e-005**	**4.0000e-005**	**2.0000e-005**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.0705**	**1.0705**	**2.2000e-004**	**2.2000e-004**	**1.1396**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	3.5900e-003	0.0333	0.0441	7.0000e-005		1.7300e-003	1.7300e-003		1.6600e-003	1.6600e-003	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**3.5900e-003**	**0.0333**	**0.0441**	**7.0000e-005**		**1.7300e-003**	**1.7300e-003**		**1.6600e-003**	**1.6600e-003**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	2.8000e-004	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0350	0.0000	1.0000e-005	0.0367
Worker	8.0000e-005	3.0000e-005	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0125	0.0125	1.0000e-005	0.0000	0.0138
Total	**1.0000e-004**	**3.1000e-004**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0475**	**0.0475**	**1.0000e-005**	**1.0000e-005**	**0.0506**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 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	1.4000e-003	0.0272	0.0471	7.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	6.0324	6.0324	1.0000e-003	0.0000	6.0575
Total	**1.4000e-003**	**0.0272**	**0.0471**	**7.0000e-005**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**	**0.0000**	**6.0324**	**6.0324**	**1.0000e-003**	**0.0000**	**6.0575**

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	2.8000e-004	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0350	0.0000	1.0000e-005	0.0367
Worker	8.0000e-005	3.0000e-005	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0125	0.0125	1.0000e-005	0.0000	0.0138
Total	**1.0000e-004**	**3.1000e-004**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0475**	**0.0475**	**1.0000e-005**	**1.0000e-005**	**0.0506**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0120	0.0154	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1193**	**0.0120**	**0.0154**	**3.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	2.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0500e-003	3.0500e-003	0.0000	0.0000	3.3800e-003
Total	**2.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.0500e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**3.3800e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2022

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	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-004	9.0100e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	1.4000e-004	0.0000	2.1738
Total	**0.1180**	**9.0100e-003**	**0.0156**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**2.1703**	**2.1703**	**1.4000e-004**	**0.0000**	**2.1738**

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	2.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.0500e-003	3.0500e-003	0.0000	0.0000	3.3800e-003
Total	**2.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.0500e-003**	**3.0500e-003**	**0.0000**	**0.0000**	**3.3800e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.8200e-003	0.0109	2.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0841**	**7.8200e-003**	**0.0109**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3100e-003
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0800e-003**	**2.0800e-003**	**0.0000**	**0.0000**	**2.3100e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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					
Archit. Coating	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-004	6.3600e-003	0.0110	2.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.5320	1.5320	9.0000e-005	0.0000	1.5342
Total	**0.0833**	**6.3600e-003**	**0.0110**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.5320**	**1.5320**	**9.0000e-005**	**0.0000**	**1.5342**

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0800e-003	2.0800e-003	0.0000	0.0000	2.3100e-003
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0800e-003**	**2.0800e-003**	**0.0000**	**0.0000**	**2.3100e-003**

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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	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283
Unmitigated	0.1681	0.1985	1.7781	3.8300e-003	0.3951	2.8200e-003	0.3979	0.1054	2.6100e-003	0.1080	0.0000	354.3018	354.3018	0.0243	0.0155	359.5283

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	311.52	314.82	282.15	1,051,785	1,051,785
Total	311.52	314.82	282.15	1,051,785	1,051,785

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.9878	45.9878	3.8800e-003	4.7000e-004	46.2251
NaturalGas Mitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
NaturalGas Unmitigated	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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					
Single Family Housing	841239	4.5400e-003	0.0388	0.0165	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8917	44.8917	8.6000e-004	8.2000e-004	45.1585
Total		**4.5400e-003**	**0.0388**	**0.0165**	**2.5000e-004**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**44.8917**	**44.8917**	**8.6000e-004**	**8.2000e-004**	**45.1585**

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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			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	259312	45.9878	3.8800e-003	4.7000e-004	46.2251
Total		**45.9878**	**3.8800e-003**	**4.7000e-004**	**46.2251**

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	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Unmitigated	0.2619	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693

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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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	0.0201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2316					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	0.0103	3.9200e-003	0.3404	2.0000e-005		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	0.5559	0.5559	5.3000e-004	0.0000	0.5693
Total	**0.2619**	**3.9200e-003**	**0.3404**	**2.0000e-005**		**1.8800e-003**	**1.8800e-003**		**1.8800e-003**	**1.8800e-003**	**0.0000**	**0.5559**	**0.5559**	**5.3000e-004**	**0.0000**	**0.5693**

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	8.3179	0.0707	1.7300e-003	10.6017
Unmitigated	8.3179	0.0707	1.7300e-003	10.6017

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.15008 / 1.35549	8.3179	0.0707	1.7300e-003	10.6017
Total		**8.3179**	**0.0707**	**1.7300e-003**	**10.6017**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8233	0.4623	0.0000	19.3818
Unmitigated	7.8233	0.4623	0.0000	19.3818

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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	38.54	7.8233	0.4623	0.0000	19.3818
Total		**7.8233**	**0.4623**	**0.0000**	**19.3818**

9.0 Operational Offroad

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

11.0 Vegetation

Appendix C-2

Health Risk Assessment

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 7/2/2021
** File: C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSantaA.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\dlarocca\Desktop\Air Quality Work\Lakes\SouthSantaA\SouthSa
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 9818605
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL SouthSantaA.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = CONST
** DESCRSRC Construction equipment
** PREFIX
** Length of Side = 11.63
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.33
** SZINIT = 1.08
** Nodes = 13
** 404904.719, 3774718.480, 108.81, 5.00, 5.41
** 404747.331, 3774718.480, 109.67, 5.00, 5.41
** 404747.665, 3774683.802, 109.47, 5.00, 5.41
```

```
** 404782.010, 3774661.461, 109.15, 5.00, 5.41
** 404904.385, 3774662.461, 108.69, 5.00, 5.41
** 404903.718, 3774704.475, 108.95, 5.00, 5.41
** 404761.670, 3774703.142, 109.44, 5.00, 5.41
** 404760.336, 3774691.138, 109.37, 5.00, 5.41
** 404785.344, 3774673.465, 109.43, 5.00, 5.41
** 404893.381, 3774674.465, 108.90, 5.00, 5.41
** 404896.049, 3774687.803, 108.96, 5.00, 5.41
** 404783.669, 3774688.495, 109.37, 5.00, 5.41
** 404785.678, 3774692.138, 109.44, 5.00, 5.41
** ------------------------------------------------------------------
   LOCATION L0000001     VOLUME   404898.904 3774718.480 109.00
   LOCATION L0000002     VOLUME   404887.274 3774718.480 108.99
   LOCATION L0000003     VOLUME   404875.644 3774718.480 109.03
   LOCATION L0000004     VOLUME   404864.014 3774718.480 109.06
   LOCATION L0000005     VOLUME   404852.384 3774718.480 109.15
   LOCATION L0000006     VOLUME   404840.754 3774718.480 109.30
   LOCATION L0000007     VOLUME   404829.124 3774718.480 109.37
   LOCATION L0000008     VOLUME   404817.494 3774718.480 109.43
   LOCATION L0000009     VOLUME   404805.864 3774718.480 109.46
   LOCATION L0000010     VOLUME   404794.234 3774718.480 109.50
   LOCATION L0000011     VOLUME   404782.604 3774718.480 109.50
   LOCATION L0000012     VOLUME   404770.974 3774718.480 109.50
   LOCATION L0000013     VOLUME   404759.344 3774718.480 109.54
   LOCATION L0000014     VOLUME   404747.714 3774718.480 109.63
   LOCATION L0000015     VOLUME   404747.440 3774707.233 109.60
   LOCATION L0000016     VOLUME   404747.551 3774695.603 109.46
   LOCATION L0000017     VOLUME   404747.663 3774683.974 109.42
   LOCATION L0000018     VOLUME   404757.269 3774677.554 109.43
   LOCATION L0000019     VOLUME   404767.018 3774671.213 109.32
   LOCATION L0000020     VOLUME   404776.767 3774664.871 109.24
   LOCATION L0000021     VOLUME   404787.386 3774661.505 109.13
   LOCATION L0000022     VOLUME   404799.015 3774661.600 109.17
   LOCATION L0000023     VOLUME   404810.645 3774661.695 109.02
   LOCATION L0000024     VOLUME   404822.274 3774661.790 109.03
   LOCATION L0000025     VOLUME   404833.904 3774661.885 109.02
   LOCATION L0000026     VOLUME   404845.534 3774661.980 108.90
   LOCATION L0000027     VOLUME   404857.163 3774662.075 108.81
   LOCATION L0000028     VOLUME   404868.793 3774662.170 108.68
   LOCATION L0000029     VOLUME   404880.423 3774662.265 108.74
   LOCATION L0000030     VOLUME   404892.052 3774662.360 108.67
   LOCATION L0000031     VOLUME   404903.682 3774662.455 108.64
   LOCATION L0000032     VOLUME   404904.212 3774673.386 108.66
   LOCATION L0000033     VOLUME   404904.027 3774685.015 108.71
   LOCATION L0000034     VOLUME   404903.843 3774696.643 108.81
   LOCATION L0000035     VOLUME   404899.922 3774704.440 108.98
   LOCATION L0000036     VOLUME   404888.292 3774704.331 109.11
   LOCATION L0000037     VOLUME   404876.663 3774704.221 109.51
   LOCATION L0000038     VOLUME   404865.033 3774704.112 109.28
   LOCATION L0000039     VOLUME   404853.404 3774704.003 109.19
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   LOCATION L0000040     VOLUME   404841.774 3774703.894 109.35
   LOCATION L0000041     VOLUME   404830.145 3774703.785 109.44
   LOCATION L0000042     VOLUME   404818.515 3774703.675 109.40
   LOCATION L0000043     VOLUME   404806.886 3774703.566 109.42
   LOCATION L0000044     VOLUME   404795.256 3774703.457 109.48
   LOCATION L0000045     VOLUME   404783.627 3774703.348 109.45
   LOCATION L0000046     VOLUME   404771.997 3774703.239 109.40
   LOCATION L0000047     VOLUME   404761.526 3774701.848 109.42
   LOCATION L0000048     VOLUME   404761.033 3774690.645 109.38
   LOCATION L0000049     VOLUME   404770.531 3774683.933 109.30
   LOCATION L0000050     VOLUME   404780.029 3774677.221 109.38
   LOCATION L0000051     VOLUME   404790.466 3774673.512 109.34
   LOCATION L0000052     VOLUME   404802.095 3774673.620 109.32
   LOCATION L0000053     VOLUME   404813.725 3774673.728 109.21
   LOCATION L0000054     VOLUME   404825.354 3774673.835 109.12
   LOCATION L0000055     VOLUME   404836.984 3774673.943 109.05
   LOCATION L0000056     VOLUME   404848.613 3774674.051 109.00
   LOCATION L0000057     VOLUME   404860.243 3774674.158 108.96
   LOCATION L0000058     VOLUME   404871.872 3774674.266 109.08
   LOCATION L0000059     VOLUME   404883.502 3774674.374 109.12
   LOCATION L0000060     VOLUME   404893.725 3774676.181 108.94
   LOCATION L0000061     VOLUME   404896.005 3774687.585 108.96
   LOCATION L0000062     VOLUME   404884.641 3774687.873 109.14
   LOCATION L0000063     VOLUME   404873.012 3774687.945 109.14
   LOCATION L0000064     VOLUME   404861.382 3774688.016 109.12
   LOCATION L0000065     VOLUME   404849.752 3774688.088 109.11
   LOCATION L0000066     VOLUME   404838.122 3774688.160 109.17
   LOCATION L0000067     VOLUME   404826.493 3774688.231 109.24
   LOCATION L0000068     VOLUME   404814.863 3774688.303 109.35
   LOCATION L0000069     VOLUME   404803.233 3774688.374 109.37
   LOCATION L0000070     VOLUME   404791.603 3774688.446 109.42
   LOCATION L0000071     VOLUME   404785.453 3774691.731 109.43
** End of LINE VOLUME Source ID = CONST
** Source Parameters **
** LINE VOLUME Source ID = CONST
   SRCPARAM L0000001     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000002     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000003     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000004     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000005     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000006     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000007     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000008     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000009     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000010     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000011     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000012     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000013     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000014     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000015     0.014084507      5.00      5.41      1.08
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SRCPARAM L0000016     0.014084507      5.00      5.41      1.08
SRCPARAM L0000017     0.014084507      5.00      5.41      1.08
SRCPARAM L0000018     0.014084507      5.00      5.41      1.08
SRCPARAM L0000019     0.014084507      5.00      5.41      1.08
SRCPARAM L0000020     0.014084507      5.00      5.41      1.08
SRCPARAM L0000021     0.014084507      5.00      5.41      1.08
SRCPARAM L0000022     0.014084507      5.00      5.41      1.08
SRCPARAM L0000023     0.014084507      5.00      5.41      1.08
SRCPARAM L0000024     0.014084507      5.00      5.41      1.08
SRCPARAM L0000025     0.014084507      5.00      5.41      1.08
SRCPARAM L0000026     0.014084507      5.00      5.41      1.08
SRCPARAM L0000027     0.014084507      5.00      5.41      1.08
SRCPARAM L0000028     0.014084507      5.00      5.41      1.08
SRCPARAM L0000029     0.014084507      5.00      5.41      1.08
SRCPARAM L0000030     0.014084507      5.00      5.41      1.08
SRCPARAM L0000031     0.014084507      5.00      5.41      1.08
SRCPARAM L0000032     0.014084507      5.00      5.41      1.08
SRCPARAM L0000033     0.014084507      5.00      5.41      1.08
SRCPARAM L0000034     0.014084507      5.00      5.41      1.08
SRCPARAM L0000035     0.014084507      5.00      5.41      1.08
SRCPARAM L0000036     0.014084507      5.00      5.41      1.08
SRCPARAM L0000037     0.014084507      5.00      5.41      1.08
SRCPARAM L0000038     0.014084507      5.00      5.41      1.08
SRCPARAM L0000039     0.014084507      5.00      5.41      1.08
SRCPARAM L0000040     0.014084507      5.00      5.41      1.08
SRCPARAM L0000041     0.014084507      5.00      5.41      1.08
SRCPARAM L0000042     0.014084507      5.00      5.41      1.08
SRCPARAM L0000043     0.014084507      5.00      5.41      1.08
SRCPARAM L0000044     0.014084507      5.00      5.41      1.08
SRCPARAM L0000045     0.014084507      5.00      5.41      1.08
SRCPARAM L0000046     0.014084507      5.00      5.41      1.08
SRCPARAM L0000047     0.014084507      5.00      5.41      1.08
SRCPARAM L0000048     0.014084507      5.00      5.41      1.08
SRCPARAM L0000049     0.014084507      5.00      5.41      1.08
SRCPARAM L0000050     0.014084507      5.00      5.41      1.08
SRCPARAM L0000051     0.014084507      5.00      5.41      1.08
SRCPARAM L0000052     0.014084507      5.00      5.41      1.08
SRCPARAM L0000053     0.014084507      5.00      5.41      1.08
SRCPARAM L0000054     0.014084507      5.00      5.41      1.08
SRCPARAM L0000055     0.014084507      5.00      5.41      1.08
SRCPARAM L0000056     0.014084507      5.00      5.41      1.08
SRCPARAM L0000057     0.014084507      5.00      5.41      1.08
SRCPARAM L0000058     0.014084507      5.00      5.41      1.08
SRCPARAM L0000059     0.014084507      5.00      5.41      1.08
SRCPARAM L0000060     0.014084507      5.00      5.41      1.08
SRCPARAM L0000061     0.014084507      5.00      5.41      1.08
SRCPARAM L0000062     0.014084507      5.00      5.41      1.08
SRCPARAM L0000063     0.014084507      5.00      5.41      1.08
SRCPARAM L0000064     0.014084507      5.00      5.41      1.08
SRCPARAM L0000065     0.014084507      5.00      5.41      1.08
```

```
   SRCPARAM L0000066     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000067     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000068     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000069     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000070     0.014084507      5.00      5.41      1.08
   SRCPARAM L0000071     0.014084507      5.00      5.41      1.08
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP CONST    L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
   SRCGROUP CONST    L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
   SRCGROUP CONST    L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
   SRCGROUP CONST    L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
   SRCGROUP CONST    L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
   SRCGROUP CONST    L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
   SRCGROUP CONST    L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
   SRCGROUP CONST    L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
   SRCGROUP CONST    L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
   SRCGROUP CONST    L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
   SRCGROUP CONST    L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
   SRCGROUP CONST    L0000067 L0000068 L0000069 L0000070 L0000071
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED SouthSantaA.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE AZUS_V9_ADJU\AZUS_v9.SFC
   PROFFILE AZUS_V9_ADJU\AZUS_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 182.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
```

```
**
OU STARTING
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST SouthSantaA.AD\01H1GALL.PLT 31
   PLOTFILE 1 CONST 1ST SouthSantaA.AD\01H1G001.PLT 32
   PLOTFILE PERIOD ALL SouthSantaA.AD\PE00GALL.PLT 33
   PLOTFILE PERIOD CONST SouthSantaA.AD\PE00G000.PLT 34
   SUMMFILE SouthSantaA.sum
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W186     244       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     244       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 OU W540     259        OUTQA: No RECTABLE/MAXTABLE/DAYTABLE for Average Period
   024-HR

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

 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        10:28:28

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     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    71 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:     71 Source(s);       2 Source Group(s); and    1578
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     71 VOLUME source(s)
                 and:      0 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      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
```

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 182.00 ; 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: SouthSantaA.err

**File for Summary of Results: SouthSantaA.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000001	0	0.14085E-01	404898.9	3774718.5	109.0	5.00	5.41			

1.08 YES
L0000002 0 0.14085E-01 404887.3 3774718.5 109.0 5.00 5.41
1.08 YES
L0000003 0 0.14085E-01 404875.6 3774718.5 109.0 5.00 5.41
1.08 YES
L0000004 0 0.14085E-01 404864.0 3774718.5 109.1 5.00 5.41
1.08 YES
L0000005 0 0.14085E-01 404852.4 3774718.5 109.1 5.00 5.41
1.08 YES
L0000006 0 0.14085E-01 404840.8 3774718.5 109.3 5.00 5.41
1.08 YES
L0000007 0 0.14085E-01 404829.1 3774718.5 109.4 5.00 5.41
1.08 YES
L0000008 0 0.14085E-01 404817.5 3774718.5 109.4 5.00 5.41
1.08 YES
L0000009 0 0.14085E-01 404805.9 3774718.5 109.5 5.00 5.41
1.08 YES
L0000010 0 0.14085E-01 404794.2 3774718.5 109.5 5.00 5.41
1.08 YES
L0000011 0 0.14085E-01 404782.6 3774718.5 109.5 5.00 5.41
1.08 YES
L0000012 0 0.14085E-01 404771.0 3774718.5 109.5 5.00 5.41
1.08 YES
L0000013 0 0.14085E-01 404759.3 3774718.5 109.5 5.00 5.41
1.08 YES
L0000014 0 0.14085E-01 404747.7 3774718.5 109.6 5.00 5.41
1.08 YES
L0000015 0 0.14085E-01 404747.4 3774707.2 109.6 5.00 5.41
1.08 YES
L0000016 0 0.14085E-01 404747.6 3774695.6 109.5 5.00 5.41
1.08 YES
L0000017 0 0.14085E-01 404747.7 3774684.0 109.4 5.00 5.41
1.08 YES
L0000018 0 0.14085E-01 404757.3 3774677.6 109.4 5.00 5.41
1.08 YES
L0000019 0 0.14085E-01 404767.0 3774671.2 109.3 5.00 5.41
1.08 YES
L0000020 0 0.14085E-01 404776.8 3774664.9 109.2 5.00 5.41
1.08 YES
L0000021 0 0.14085E-01 404787.4 3774661.5 109.1 5.00 5.41
1.08 YES
L0000022 0 0.14085E-01 404799.0 3774661.6 109.2 5.00 5.41
1.08 YES
L0000023 0 0.14085E-01 404810.6 3774661.7 109.0 5.00 5.41
1.08 YES
L0000024 0 0.14085E-01 404822.3 3774661.8 109.0 5.00 5.41
1.08 YES
L0000025 0 0.14085E-01 404833.9 3774661.9 109.0 5.00 5.41
1.08 YES
L0000026 0 0.14085E-01 404845.5 3774662.0 108.9 5.00 5.41

```
1.08     YES
 L0000027         0   0.14085E-01  404857.2 3774662.1   108.8     5.00     5.41
1.08     YES
 L0000028         0   0.14085E-01  404868.8 3774662.2   108.7     5.00     5.41
1.08     YES
 L0000029         0   0.14085E-01  404880.4 3774662.3   108.7     5.00     5.41
1.08     YES
 L0000030         0   0.14085E-01  404892.1 3774662.4   108.7     5.00     5.41
1.08     YES
 L0000031         0   0.14085E-01  404903.7 3774662.5   108.6     5.00     5.41
1.08     YES
 L0000032         0   0.14085E-01  404904.2 3774673.4   108.7     5.00     5.41
1.08     YES
 L0000033         0   0.14085E-01  404904.0 3774685.0   108.7     5.00     5.41
1.08     YES
 L0000034         0   0.14085E-01  404903.8 3774696.6   108.8     5.00     5.41
1.08     YES
 L0000035         0   0.14085E-01  404899.9 3774704.4   109.0     5.00     5.41
1.08     YES
 L0000036         0   0.14085E-01  404888.3 3774704.3   109.1     5.00     5.41
1.08     YES
 L0000037         0   0.14085E-01  404876.7 3774704.2   109.5     5.00     5.41
1.08     YES
 L0000038         0   0.14085E-01  404865.0 3774704.1   109.3     5.00     5.41
1.08     YES
 L0000039         0   0.14085E-01  404853.4 3774704.0   109.2     5.00     5.41
1.08     YES
 L0000040         0   0.14085E-01  404841.8 3774703.9   109.3     5.00     5.41
1.08     YES
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.14085E-01  404830.1 3774703.8   109.4     5.00     5.41
```

1.08 YES
L0000042 0 0.14085E-01 404818.5 3774703.7 109.4 5.00 5.41
1.08 YES
L0000043 0 0.14085E-01 404806.9 3774703.6 109.4 5.00 5.41
1.08 YES
L0000044 0 0.14085E-01 404795.3 3774703.5 109.5 5.00 5.41
1.08 YES
L0000045 0 0.14085E-01 404783.6 3774703.3 109.5 5.00 5.41
1.08 YES
L0000046 0 0.14085E-01 404772.0 3774703.2 109.4 5.00 5.41
1.08 YES
L0000047 0 0.14085E-01 404761.5 3774701.8 109.4 5.00 5.41
1.08 YES
L0000048 0 0.14085E-01 404761.0 3774690.6 109.4 5.00 5.41
1.08 YES
L0000049 0 0.14085E-01 404770.5 3774683.9 109.3 5.00 5.41
1.08 YES
L0000050 0 0.14085E-01 404780.0 3774677.2 109.4 5.00 5.41
1.08 YES
L0000051 0 0.14085E-01 404790.5 3774673.5 109.3 5.00 5.41
1.08 YES
L0000052 0 0.14085E-01 404802.1 3774673.6 109.3 5.00 5.41
1.08 YES
L0000053 0 0.14085E-01 404813.7 3774673.7 109.2 5.00 5.41
1.08 YES
L0000054 0 0.14085E-01 404825.4 3774673.8 109.1 5.00 5.41
1.08 YES
L0000055 0 0.14085E-01 404837.0 3774673.9 109.0 5.00 5.41
1.08 YES
L0000056 0 0.14085E-01 404848.6 3774674.1 109.0 5.00 5.41
1.08 YES
L0000057 0 0.14085E-01 404860.2 3774674.2 109.0 5.00 5.41
1.08 YES
L0000058 0 0.14085E-01 404871.9 3774674.3 109.1 5.00 5.41
1.08 YES
L0000059 0 0.14085E-01 404883.5 3774674.4 109.1 5.00 5.41
1.08 YES
L0000060 0 0.14085E-01 404893.7 3774676.2 108.9 5.00 5.41
1.08 YES
L0000061 0 0.14085E-01 404896.0 3774687.6 109.0 5.00 5.41
1.08 YES
L0000062 0 0.14085E-01 404884.6 3774687.9 109.1 5.00 5.41
1.08 YES
L0000063 0 0.14085E-01 404873.0 3774687.9 109.1 5.00 5.41
1.08 YES
L0000064 0 0.14085E-01 404861.4 3774688.0 109.1 5.00 5.41
1.08 YES
L0000065 0 0.14085E-01 404849.8 3774688.1 109.1 5.00 5.41
1.08 YES
L0000066 0 0.14085E-01 404838.1 3774688.2 109.2 5.00 5.41

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1.08     YES
 L0000067         0   0.14085E-01  404826.5 3774688.2   109.2     5.00     5.41
1.08     YES
 L0000068         0   0.14085E-01  404814.9 3774688.3   109.3     5.00     5.41
1.08     YES
 L0000069         0   0.14085E-01  404803.2 3774688.4   109.4     5.00     5.41
1.08     YES
 L0000070         0   0.14085E-01  404791.6 3774688.4   109.4     5.00     5.41
1.08     YES
 L0000071         0   0.14085E-01  404785.5 3774691.7   109.4     5.00     5.41
1.08     YES
```


*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
CONST	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,

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             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    ,

  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
L0000038    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


              9818605.   L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    ,
 L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
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L0000014 , L0000015 , L0000016 ,

L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,

L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,

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L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,

L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,

L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(403870.1, 3773649.0, 102.1, 102.1, 0.0); (403920.1, 3773649.0, 101.5, 101.5, 0.0);
(403970.1, 3773649.0, 101.3, 101.3, 0.0); (404020.1, 3773649.0, 101.1, 101.1, 0.0);
(404070.1, 3773649.0, 101.0, 101.0, 0.0); (404120.1, 3773649.0, 100.8, 100.8, 0.0);
(404170.1, 3773649.0, 100.7, 100.7, 0.0); (404220.1, 3773649.0, 100.3, 100.3, 0.0);
(404270.1, 3773649.0, 100.3, 100.3, 0.0); (404320.1, 3773649.0, 100.3, 100.3, 0.0);
(404370.1, 3773649.0, 100.2, 100.2, 0.0); (404420.1, 3773649.0, 100.0, 100.0, 0.0);
(404470.1, 3773649.0, 100.0, 100.0, 0.0); (404520.1, 3773649.0, 99.9, 99.9, 0.0);
(404570.1, 3773649.0, 99.1, 99.1, 0.0); (404620.1, 3773649.0, 99.3, 99.3, 0.0);

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     ( 404670.1, 3773649.0,      99.1,      99.1,       0.0);         ( 404720.1,
3773649.0,      99.5,      99.5,       0.0);
     ( 404770.1, 3773649.0,      99.4,      99.4,       0.0);         ( 404820.1,
3773649.0,      99.0,      99.0,       0.0);
     ( 404870.1, 3773649.0,      98.9,      98.9,       0.0);         ( 404920.1,
3773649.0,      99.3,      99.3,       0.0);
     ( 404970.1, 3773649.0,      98.9,      98.9,       0.0);         ( 405020.1,
3773649.0,      98.7,      98.7,       0.0);
     ( 405070.1, 3773649.0,      98.5,      98.5,       0.0);         ( 405120.1,
3773649.0,      98.8,      98.8,       0.0);
     ( 405170.1, 3773649.0,      98.6,      98.6,       0.0);         ( 405220.1,
3773649.0,      98.5,      98.5,       0.0);
     ( 405270.1, 3773649.0,      98.7,      98.7,       0.0);         ( 405320.1,
3773649.0,      98.8,      98.8,       0.0);
     ( 405370.1, 3773649.0,      99.1,      99.1,       0.0);         ( 405420.1,
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     ( 405470.1, 3773649.0,      99.1,      99.1,       0.0);         ( 405520.1,
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     ( 405570.1, 3773649.0,      98.2,      98.2,       0.0);         ( 405620.1,
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     ( 405670.1, 3773649.0,      96.0,      96.0,       0.0);         ( 405720.1,
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     ( 405770.1, 3773649.0,      96.6,      96.6,       0.0);         ( 405820.1,
3773649.0,      96.8,      96.8,       0.0);
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     ( 404070.1, 3773699.0,     101.4,     101.4,       0.0);         ( 404120.1,
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     ( 404170.1, 3773699.0,     101.0,     101.0,       0.0);         ( 404220.1,
3773699.0,     101.0,     101.0,       0.0);
     ( 404270.1, 3773699.0,     100.9,     100.9,       0.0);         ( 404320.1,
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     ( 404370.1, 3773699.0,     100.8,     100.8,       0.0);         ( 404420.1,
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     ( 404470.1, 3773699.0,     100.7,     100.7,       0.0);         ( 404520.1,
3773699.0,     100.5,     100.5,       0.0);
     ( 404570.1, 3773699.0,     100.2,     100.2,       0.0);         ( 404620.1,
3773699.0,     100.0,     100.0,       0.0);
     ( 404670.1, 3773699.0,     100.0,     100.0,       0.0);         ( 404720.1,
3773699.0,      99.4,      99.4,       0.0);
     ( 404770.1, 3773699.0,      99.4,      99.4,       0.0);         ( 404820.1,
3773699.0,      99.5,      99.5,       0.0);
     ( 404870.1, 3773699.0,      99.3,      99.3,       0.0);         ( 404920.1,
3773699.0,      99.6,      99.6,       0.0);
     ( 404970.1, 3773699.0,      99.4,      99.4,       0.0);         ( 405020.1,
3773699.0,      99.3,      99.3,       0.0);
     ( 405070.1, 3773699.0,      99.0,      99.0,       0.0);         ( 405120.1,
3773699.0,      99.1,      99.1,       0.0);
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     ( 405170.1, 3773699.0,      98.9,      98.9,       0.0);         ( 405220.1,
3773699.0,      98.9,      98.9,       0.0);
     ( 405270.1, 3773699.0,      99.1,      99.1,       0.0);         ( 405320.1,
3773699.0,      99.1,      99.1,       0.0);
     ( 405370.1, 3773699.0,      99.1,      99.1,       0.0);         ( 405420.1,
3773699.0,      99.2,      99.2,       0.0);
     ( 405470.1, 3773699.0,      99.8,      99.8,       0.0);         ( 405520.1,
3773699.0,      99.6,      99.6,       0.0);
     ( 405570.1, 3773699.0,      99.5,      99.5,       0.0);         ( 405620.1,
3773699.0,      99.7,      99.7,       0.0);
     ( 405670.1, 3773699.0,      97.9,      97.9,       0.0);         ( 405720.1,
3773699.0,      97.6,      97.6,       0.0);
     ( 405770.1, 3773699.0,      97.4,      97.4,       0.0);         ( 405820.1,
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     ( 403870.1, 3773749.0,     102.9,     102.9,       0.0);         ( 403920.1,
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     ( 403970.1, 3773749.0,     102.2,     102.2,       0.0);         ( 404020.1,
3773749.0,     101.9,     101.9,       0.0);
     ( 404070.1, 3773749.0,     101.8,     101.8,       0.0);         ( 404120.1,
3773749.0,     101.6,     101.6,       0.0);
     ( 404170.1, 3773749.0,     101.4,     101.4,       0.0);         ( 404220.1,
3773749.0,     101.2,     101.2,       0.0);
     ( 404270.1, 3773749.0,     101.2,     101.2,       0.0);         ( 404320.1,
3773749.0,     101.1,     101.1,       0.0);
↟ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                             *** DISCRETE CARTESIAN RECEPTORS ***
                                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                        (METERS)

     ( 404370.1, 3773749.0,     101.3,     101.3,       0.0);         ( 404420.1,
3773749.0,     101.5,     101.5,       0.0);
     ( 404470.1, 3773749.0,     100.9,     100.9,       0.0);         ( 404520.1,
3773749.0,     101.0,     101.0,       0.0);
     ( 404570.1, 3773749.0,     101.1,     101.1,       0.0);         ( 404620.1,
3773749.0,     101.0,     101.0,       0.0);
     ( 404670.1, 3773749.0,     100.3,     100.3,       0.0);         ( 404720.1,
3773749.0,     100.4,     100.4,       0.0);
     ( 404770.1, 3773749.0,     100.4,     100.4,       0.0);         ( 404820.1,
3773749.0,     100.4,     100.4,       0.0);
     ( 404870.1, 3773749.0,      99.8,      99.8,       0.0);         ( 404920.1,
3773749.0,      99.5,      99.5,       0.0);
     ( 404970.1, 3773749.0,      99.6,      99.6,       0.0);         ( 405020.1,
3773749.0,      99.6,      99.6,       0.0);
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     ( 405070.1, 3773749.0,      99.2,      99.2,       0.0);         ( 405120.1,
3773749.0,      99.2,      99.2,       0.0);
     ( 405170.1, 3773749.0,      99.2,      99.2,       0.0);         ( 405220.1,
3773749.0,      99.6,      99.6,       0.0);
     ( 405270.1, 3773749.0,      99.4,      99.4,       0.0);         ( 405320.1,
3773749.0,      99.3,      99.3,       0.0);
     ( 405370.1, 3773749.0,      99.3,      99.3,       0.0);         ( 405420.1,
3773749.0,      99.5,      99.5,       0.0);
     ( 405470.1, 3773749.0,      99.8,      99.8,       0.0);         ( 405520.1,
3773749.0,      99.6,      99.6,       0.0);
     ( 405570.1, 3773749.0,      99.6,      99.6,       0.0);         ( 405620.1,
3773749.0,      99.5,      99.5,       0.0);
     ( 405670.1, 3773749.0,      99.9,      99.9,       0.0);         ( 405720.1,
3773749.0,      98.5,     100.0,       0.0);
     ( 405770.1, 3773749.0,      99.0,      99.0,       0.0);         ( 405820.1,
3773749.0,      98.1,     100.8,       0.0);
     ( 403870.1, 3773799.0,     103.9,     103.9,       0.0);         ( 403920.1,
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     ( 403970.1, 3773799.0,     103.2,     103.2,       0.0);         ( 404020.1,
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     ( 404070.1, 3773799.0,     102.5,     102.5,       0.0);         ( 404120.1,
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     ( 404170.1, 3773799.0,     102.0,     102.0,       0.0);         ( 404220.1,
3773799.0,     101.8,     101.8,       0.0);
     ( 404270.1, 3773799.0,     101.5,     101.5,       0.0);         ( 404320.1,
3773799.0,     101.6,     101.6,       0.0);
     ( 404370.1, 3773799.0,     101.7,     101.7,       0.0);         ( 404420.1,
3773799.0,     101.9,     101.9,       0.0);
     ( 404470.1, 3773799.0,     101.2,     101.2,       0.0);         ( 404520.1,
3773799.0,     101.0,     101.0,       0.0);
     ( 404570.1, 3773799.0,     101.5,     101.5,       0.0);         ( 404620.1,
3773799.0,     101.3,     101.3,       0.0);
     ( 404670.1, 3773799.0,     100.8,     100.8,       0.0);         ( 404720.1,
3773799.0,     100.7,     100.7,       0.0);
     ( 404770.1, 3773799.0,     101.0,     101.0,       0.0);         ( 404820.1,
3773799.0,     100.8,     100.8,       0.0);
     ( 404870.1, 3773799.0,     100.7,     100.7,       0.0);         ( 404920.1,
3773799.0,     100.8,     100.8,       0.0);
     ( 404970.1, 3773799.0,     100.5,     100.5,       0.0);         ( 405020.1,
3773799.0,     100.3,     100.3,       0.0);
     ( 405070.1, 3773799.0,      99.6,      99.6,       0.0);         ( 405120.1,
3773799.0,     100.2,     100.2,       0.0);
     ( 405170.1, 3773799.0,     100.0,     100.0,       0.0);         ( 405220.1,
3773799.0,     100.0,     100.0,       0.0);
     ( 405270.1, 3773799.0,      99.9,      99.9,       0.0);         ( 405320.1,
3773799.0,      99.8,      99.8,       0.0);
     ( 405370.1, 3773799.0,      99.4,      99.4,       0.0);         ( 405420.1,
3773799.0,      99.8,      99.8,       0.0);
     ( 405470.1, 3773799.0,      99.8,      99.8,       0.0);         ( 405520.1,
3773799.0,      99.9,      99.9,       0.0);
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     ( 405570.1, 3773799.0,     100.1,     100.1,       0.0);         ( 405620.1,
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     ( 405670.1, 3773799.0,     100.1,     100.1,       0.0);         ( 405720.1,
3773799.0,      99.5,      99.5,       0.0);
     ( 405770.1, 3773799.0,      99.9,      99.9,       0.0);         ( 405820.1,
3773799.0,     100.1,     100.1,       0.0);
     ( 403870.1, 3773849.0,     104.2,     104.2,       0.0);         ( 403920.1,
3773849.0,     104.0,     104.0,       0.0);
     ( 403970.1, 3773849.0,     103.7,     103.7,       0.0);         ( 404020.1,
3773849.0,     103.4,     103.4,       0.0);
     ( 404070.1, 3773849.0,     103.1,     103.1,       0.0);         ( 404120.1,
3773849.0,     102.5,     102.5,       0.0);
     ( 404170.1, 3773849.0,     102.6,     102.6,       0.0);         ( 404220.1,
3773849.0,     102.4,     102.4,       0.0);
     ( 404270.1, 3773849.0,     102.4,     102.4,       0.0);         ( 404320.1,
3773849.0,     102.2,     102.2,       0.0);
     ( 404370.1, 3773849.0,     102.2,     102.2,       0.0);         ( 404420.1,
3773849.0,     102.2,     102.2,       0.0);
     ( 404470.1, 3773849.0,     101.7,     101.7,       0.0);         ( 404520.1,
3773849.0,     100.1,     101.9,       0.0);
     ( 404570.1, 3773849.0,     101.8,     101.8,       0.0);         ( 404620.1,
3773849.0,     102.1,     102.1,       0.0);
     ( 404670.1, 3773849.0,     101.5,     101.5,       0.0);         ( 404720.1,
3773849.0,     101.3,     101.3,       0.0);
     ( 404770.1, 3773849.0,     101.4,     101.4,       0.0);         ( 404820.1,
3773849.0,     101.1,     101.1,       0.0);
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 404870.1, 3773849.0,     101.1,     101.1,       0.0);         ( 404920.1,
3773849.0,     101.0,     101.0,       0.0);
     ( 404970.1, 3773849.0,     101.0,     101.0,       0.0);         ( 405020.1,
3773849.0,     100.4,     100.4,       0.0);
     ( 405070.1, 3773849.0,     100.2,     100.2,       0.0);         ( 405120.1,
3773849.0,     100.3,     100.3,       0.0);
     ( 405170.1, 3773849.0,     100.5,     100.5,       0.0);         ( 405220.1,
3773849.0,     100.8,     100.8,       0.0);
     ( 405270.1, 3773849.0,     100.7,     100.7,       0.0);         ( 405320.1,
3773849.0,     100.6,     100.6,       0.0);
     ( 405370.1, 3773849.0,     100.3,     100.3,       0.0);         ( 405420.1,
3773849.0,     100.0,     100.0,       0.0);
```

```
     ( 405470.1, 3773849.0,      99.8,      99.8,       0.0);         ( 405520.1,
3773849.0,      99.7,      99.7,       0.0);
     ( 405570.1, 3773849.0,      99.8,      99.8,       0.0);         ( 405620.1,
3773849.0,      99.9,      99.9,       0.0);
     ( 405670.1, 3773849.0,     100.2,     100.2,       0.0);         ( 405720.1,
3773849.0,     100.2,     100.2,       0.0);
     ( 405770.1, 3773849.0,     100.7,     100.7,       0.0);         ( 405820.1,
3773849.0,     100.9,     100.9,       0.0);
     ( 403870.1, 3773899.0,     104.5,     104.5,       0.0);         ( 403920.1,
3773899.0,     104.5,     104.5,       0.0);
     ( 403970.1, 3773899.0,     104.1,     104.1,       0.0);         ( 404020.1,
3773899.0,     103.8,     103.8,       0.0);
     ( 404070.1, 3773899.0,     103.5,     103.5,       0.0);         ( 404120.1,
3773899.0,     103.1,     103.1,       0.0);
     ( 404170.1, 3773899.0,     103.1,     103.1,       0.0);         ( 404220.1,
3773899.0,     102.8,     102.8,       0.0);
     ( 404270.1, 3773899.0,     102.8,     102.8,       0.0);         ( 404320.1,
3773899.0,     102.6,     102.6,       0.0);
     ( 404370.1, 3773899.0,     102.5,     102.5,       0.0);         ( 404420.1,
3773899.0,     102.6,     102.6,       0.0);
     ( 404470.1, 3773899.0,     102.2,     102.2,       0.0);         ( 404520.1,
3773899.0,      97.8,     102.9,       0.0);
     ( 404570.1, 3773899.0,     102.1,     102.1,       0.0);         ( 404620.1,
3773899.0,     102.4,     102.4,       0.0);
     ( 404670.1, 3773899.0,     102.2,     102.2,       0.0);         ( 404720.1,
3773899.0,     101.9,     101.9,       0.0);
     ( 404770.1, 3773899.0,     101.7,     101.7,       0.0);         ( 404820.1,
3773899.0,     101.5,     101.5,       0.0);
     ( 404870.1, 3773899.0,     101.3,     101.3,       0.0);         ( 404920.1,
3773899.0,     101.4,     101.4,       0.0);
     ( 404970.1, 3773899.0,     101.2,     101.2,       0.0);         ( 405020.1,
3773899.0,     100.8,     100.8,       0.0);
     ( 405070.1, 3773899.0,     100.8,     100.8,       0.0);         ( 405120.1,
3773899.0,     100.9,     100.9,       0.0);
     ( 405170.1, 3773899.0,     101.0,     101.0,       0.0);         ( 405220.1,
3773899.0,     100.9,     100.9,       0.0);
     ( 405270.1, 3773899.0,     101.0,     101.0,       0.0);         ( 405320.1,
3773899.0,     100.5,     100.5,       0.0);
     ( 405370.1, 3773899.0,     100.5,     100.5,       0.0);         ( 405420.1,
3773899.0,     100.2,     100.2,       0.0);
     ( 405470.1, 3773899.0,     100.0,     100.0,       0.0);         ( 405520.1,
3773899.0,     100.3,     100.3,       0.0);
     ( 405570.1, 3773899.0,     100.1,     100.1,       0.0);         ( 405620.1,
3773899.0,     100.4,     100.4,       0.0);
     ( 405670.1, 3773899.0,     100.4,     100.4,       0.0);         ( 405720.1,
3773899.0,      99.7,      99.7,       0.0);
     ( 405770.1, 3773899.0,     100.1,     100.1,       0.0);         ( 405820.1,
3773899.0,     100.4,     100.4,       0.0);
     ( 403870.1, 3773949.0,     105.2,     105.2,       0.0);         ( 403920.1,
3773949.0,     104.9,     104.9,       0.0);
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     ( 403970.1, 3773949.0,     104.7,     104.7,       0.0);         ( 404020.1,
3773949.0,     104.3,     104.3,       0.0);
     ( 404070.1, 3773949.0,     104.0,     104.0,       0.0);         ( 404120.1,
3773949.0,     103.7,     103.7,       0.0);
     ( 404170.1, 3773949.0,     103.5,     103.5,       0.0);         ( 404220.1,
3773949.0,     103.2,     103.2,       0.0);
     ( 404270.1, 3773949.0,     103.2,     103.2,       0.0);         ( 404320.1,
3773949.0,     103.1,     103.1,       0.0);
     ( 404370.1, 3773949.0,     103.3,     103.3,       0.0);         ( 404420.1,
3773949.0,     102.9,     102.9,       0.0);
     ( 404470.1, 3773949.0,     102.7,     102.7,       0.0);         ( 404520.1,
3773949.0,     102.1,     102.1,       0.0);
     ( 404570.1, 3773949.0,     102.8,     102.8,       0.0);         ( 404620.1,
3773949.0,     102.9,     102.9,       0.0);
     ( 404670.1, 3773949.0,     102.9,     102.9,       0.0);         ( 404720.1,
3773949.0,     103.0,     103.0,       0.0);
     ( 404770.1, 3773949.0,     102.3,     102.3,       0.0);         ( 404820.1,
3773949.0,     101.8,     101.8,       0.0);
     ( 404870.1, 3773949.0,     101.9,     101.9,       0.0);         ( 404920.1,
3773949.0,     101.9,     101.9,       0.0);
     ( 404970.1, 3773949.0,     101.6,     101.6,       0.0);         ( 405020.1,
3773949.0,     101.4,     101.4,       0.0);
     ( 405070.1, 3773949.0,     101.4,     101.4,       0.0);         ( 405120.1,
3773949.0,     101.5,     101.5,       0.0);
     ( 405170.1, 3773949.0,     101.6,     101.6,       0.0);         ( 405220.1,
3773949.0,     101.5,     101.5,       0.0);
     ( 405270.1, 3773949.0,     101.3,     101.3,       0.0);         ( 405320.1,
3773949.0,     101.1,     101.1,       0.0);
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                   PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                 *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     ( 405370.1, 3773949.0,     100.8,     100.8,       0.0);         ( 405420.1,
3773949.0,     100.5,     100.5,       0.0);
     ( 405470.1, 3773949.0,     100.1,     100.1,       0.0);         ( 405520.1,
3773949.0,     100.3,     100.3,       0.0);
     ( 405570.1, 3773949.0,      99.9,      99.9,       0.0);         ( 405620.1,
3773949.0,     100.5,     100.5,       0.0);
     ( 405670.1, 3773949.0,     100.5,     100.5,       0.0);         ( 405720.1,
3773949.0,     100.5,     100.5,       0.0);
     ( 405770.1, 3773949.0,     101.0,     101.0,       0.0);         ( 405820.1,
3773949.0,     100.7,     100.7,       0.0);
```

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     ( 403870.1, 3773999.0,     106.0,     106.0,       0.0);         ( 403920.1,
3773999.0,     105.7,     105.7,       0.0);
     ( 403970.1, 3773999.0,     105.2,     105.2,       0.0);         ( 404020.1,
3773999.0,     104.9,     104.9,       0.0);
     ( 404070.1, 3773999.0,     104.6,     104.6,       0.0);         ( 404120.1,
3773999.0,     104.2,     104.2,       0.0);
     ( 404170.1, 3773999.0,     103.8,     103.8,       0.0);         ( 404220.1,
3773999.0,     103.7,     103.7,       0.0);
     ( 404270.1, 3773999.0,     103.6,     103.6,       0.0);         ( 404320.1,
3773999.0,     103.6,     103.6,       0.0);
     ( 404370.1, 3773999.0,     104.0,     104.0,       0.0);         ( 404420.1,
3773999.0,     103.5,     103.5,       0.0);
     ( 404470.1, 3773999.0,     103.2,     103.2,       0.0);         ( 404520.1,
3773999.0,     103.4,     103.4,       0.0);
     ( 404570.1, 3773999.0,     103.3,     103.3,       0.0);         ( 404620.1,
3773999.0,     103.3,     103.3,       0.0);
     ( 404670.1, 3773999.0,     103.3,     103.3,       0.0);         ( 404720.1,
3773999.0,     103.0,     103.0,       0.0);
     ( 404770.1, 3773999.0,     102.6,     102.6,       0.0);         ( 404820.1,
3773999.0,     102.3,     102.3,       0.0);
     ( 404870.1, 3773999.0,     102.4,     102.4,       0.0);         ( 404920.1,
3773999.0,     102.2,     102.2,       0.0);
     ( 404970.1, 3773999.0,     102.0,     102.0,       0.0);         ( 405020.1,
3773999.0,     101.7,     101.7,       0.0);
     ( 405070.1, 3773999.0,     101.8,     101.8,       0.0);         ( 405120.1,
3773999.0,     101.9,     101.9,       0.0);
     ( 405170.1, 3773999.0,     102.0,     102.0,       0.0);         ( 405220.1,
3773999.0,     101.8,     101.8,       0.0);
     ( 405270.1, 3773999.0,     101.4,     101.4,       0.0);         ( 405320.1,
3773999.0,     101.0,     101.0,       0.0);
     ( 405370.1, 3773999.0,     100.8,     100.8,       0.0);         ( 405420.1,
3773999.0,     100.6,     100.6,       0.0);
     ( 405470.1, 3773999.0,     100.3,     100.3,       0.0);         ( 405520.1,
3773999.0,     100.6,     100.6,       0.0);
     ( 405570.1, 3773999.0,     100.0,     100.0,       0.0);         ( 405620.1,
3773999.0,     100.7,     100.7,       0.0);
     ( 405670.1, 3773999.0,     100.5,     100.5,       0.0);         ( 405720.1,
3773999.0,     100.7,     100.7,       0.0);
     ( 405770.1, 3773999.0,     101.0,     101.0,       0.0);         ( 405820.1,
3773999.0,     101.2,     101.2,       0.0);
     ( 403870.1, 3774049.0,     106.5,     106.5,       0.0);         ( 403920.1,
3774049.0,     106.0,     106.0,       0.0);
     ( 403970.1, 3774049.0,     105.9,     105.9,       0.0);         ( 404020.1,
3774049.0,     105.8,     105.8,       0.0);
     ( 404070.1, 3774049.0,     105.2,     105.2,       0.0);         ( 404120.1,
3774049.0,     104.8,     104.8,       0.0);
     ( 404170.1, 3774049.0,     104.5,     104.5,       0.0);         ( 404220.1,
3774049.0,     104.3,     104.3,       0.0);
     ( 404270.1, 3774049.0,     104.4,     104.4,       0.0);         ( 404320.1,
3774049.0,     104.2,     104.2,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(403870.1, 3774099.0, 106.9, 106.9, 0.0); (403920.1, 3774099.0, 107.0, 107.0, 0.0);
(403970.1, 3774099.0, 106.3, 106.3, 0.0); (404020.1, 3774099.0, 105.8, 105.8, 0.0);
(404070.1, 3774099.0, 105.5, 105.5, 0.0); (404120.1, 3774099.0, 105.3, 105.3, 0.0);
(404170.1, 3774099.0, 105.2, 105.2, 0.0); (404220.1, 3774099.0, 104.8, 104.8, 0.0);

```
     ( 404270.1, 3774099.0,     104.7,     104.7,       0.0);         ( 404320.1,
3774099.0,     104.8,     104.8,       0.0);
     ( 404370.1, 3774099.0,     104.6,     104.6,       0.0);         ( 404420.1,
3774099.0,     104.1,     104.1,       0.0);
     ( 404470.1, 3774099.0,     104.3,     104.3,       0.0);         ( 404520.1,
3774099.0,     104.2,     104.2,       0.0);
     ( 404570.1, 3774099.0,     104.4,     104.4,       0.0);         ( 404620.1,
3774099.0,     104.0,     104.0,       0.0);
     ( 404670.1, 3774099.0,     104.0,     104.0,       0.0);         ( 404720.1,
3774099.0,     104.0,     104.0,       0.0);
     ( 404770.1, 3774099.0,     103.3,     103.3,       0.0);         ( 404820.1,
3774099.0,     103.2,     103.2,       0.0);
     ( 404870.1, 3774099.0,     103.3,     103.3,       0.0);         ( 404920.1,
3774099.0,     103.4,     103.4,       0.0);
     ( 404970.1, 3774099.0,     103.5,     103.5,       0.0);         ( 405020.1,
3774099.0,     102.8,     102.8,       0.0);
     ( 405070.1, 3774099.0,     103.1,     103.1,       0.0);         ( 405120.1,
3774099.0,     103.1,     103.1,       0.0);
     ( 405170.1, 3774099.0,     102.7,     102.7,       0.0);         ( 405220.1,
3774099.0,     102.6,     102.6,       0.0);
     ( 405270.1, 3774099.0,     102.3,     102.3,       0.0);         ( 405320.1,
3774099.0,     102.1,     102.1,       0.0);
     ( 405370.1, 3774099.0,     101.9,     101.9,       0.0);         ( 405420.1,
3774099.0,     101.5,     101.5,       0.0);
     ( 405470.1, 3774099.0,     101.3,     101.3,       0.0);         ( 405520.1,
3774099.0,     101.6,     101.6,       0.0);
     ( 405570.1, 3774099.0,     100.9,     100.9,       0.0);         ( 405620.1,
3774099.0,     101.0,     101.0,       0.0);
     ( 405670.1, 3774099.0,     101.0,     101.0,       0.0);         ( 405720.1,
3774099.0,     101.6,     101.6,       0.0);
     ( 405770.1, 3774099.0,     100.8,     100.8,       0.0);         ( 405820.1,
3774099.0,     101.6,     101.6,       0.0);
     ( 403870.1, 3774149.0,     107.4,     107.4,       0.0);         ( 403920.1,
3774149.0,     107.1,     107.1,       0.0);
     ( 403970.1, 3774149.0,     106.8,     106.8,       0.0);         ( 404020.1,
3774149.0,     106.2,     106.2,       0.0);
     ( 404070.1, 3774149.0,     105.7,     105.7,       0.0);         ( 404120.1,
3774149.0,     105.8,     105.8,       0.0);
     ( 404170.1, 3774149.0,     105.8,     105.8,       0.0);         ( 404220.1,
3774149.0,     105.6,     105.6,       0.0);
     ( 404270.1, 3774149.0,     105.4,     105.4,       0.0);         ( 404320.1,
3774149.0,     105.2,     105.2,       0.0);
     ( 404370.1, 3774149.0,     104.9,     104.9,       0.0);         ( 404420.1,
3774149.0,     104.5,     104.5,       0.0);
     ( 404470.1, 3774149.0,     103.4,     105.0,       0.0);         ( 404520.1,
3774149.0,     104.4,     104.4,       0.0);
     ( 404570.1, 3774149.0,     105.0,     105.0,       0.0);         ( 404620.1,
3774149.0,     104.5,     104.5,       0.0);
     ( 404670.1, 3774149.0,     104.5,     104.5,       0.0);         ( 404720.1,
3774149.0,     104.5,     104.5,       0.0);
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     ( 404770.1, 3774149.0,     104.2,     104.2,       0.0);         ( 404820.1,
3774149.0,     103.8,     103.8,       0.0);
     ( 404870.1, 3774149.0,     104.1,     104.1,       0.0);         ( 404920.1,
3774149.0,     104.0,     104.0,       0.0);
     ( 404970.1, 3774149.0,     104.0,     104.0,       0.0);         ( 405020.1,
3774149.0,     103.3,     103.3,       0.0);
     ( 405070.1, 3774149.0,     103.2,     103.2,       0.0);         ( 405120.1,
3774149.0,     103.0,     103.0,       0.0);
     ( 405170.1, 3774149.0,     103.1,     103.1,       0.0);         ( 405220.1,
3774149.0,     103.0,     103.0,       0.0);
     ( 405270.1, 3774149.0,     102.7,     102.7,       0.0);         ( 405320.1,
3774149.0,     102.5,     102.5,       0.0);
     ( 405370.1, 3774149.0,     102.2,     102.2,       0.0);         ( 405420.1,
3774149.0,     101.9,     101.9,       0.0);
     ( 405470.1, 3774149.0,     101.8,     101.8,       0.0);         ( 405520.1,
3774149.0,     101.8,     101.8,       0.0);
     ( 405570.1, 3774149.0,     101.4,     101.4,       0.0);         ( 405620.1,
3774149.0,     101.2,     101.2,       0.0);
     ( 405670.1, 3774149.0,     101.6,     101.6,       0.0);         ( 405720.1,
3774149.0,     101.8,     101.8,       0.0);
     ( 405770.1, 3774149.0,     100.8,     100.8,       0.0);         ( 405820.1,
3774149.0,     102.1,     102.1,       0.0);
     ( 403870.1, 3774199.0,     108.2,     108.2,       0.0);         ( 403920.1,
3774199.0,     108.1,     108.1,       0.0);
     ( 403970.1, 3774199.0,     107.6,     107.6,       0.0);         ( 404020.1,
3774199.0,     107.3,     107.3,       0.0);
     ( 404070.1, 3774199.0,     106.4,     106.4,       0.0);         ( 404120.1,
3774199.0,     106.5,     106.5,       0.0);
     ( 404170.1, 3774199.0,     106.1,     106.1,       0.0);         ( 404220.1,
3774199.0,     106.2,     106.2,       0.0);
     ( 404270.1, 3774199.0,     105.6,     105.6,       0.0);         ( 404320.1,
3774199.0,     105.5,     105.5,       0.0);
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 404370.1, 3774199.0,     105.5,     105.5,       0.0);         ( 404420.1,
3774199.0,     105.3,     105.3,       0.0);
     ( 404470.1, 3774199.0,     100.5,     106.1,       0.0);         ( 404520.1,
3774199.0,     104.7,     104.7,       0.0);
     ( 404570.1, 3774199.0,     105.3,     105.3,       0.0);         ( 404620.1,
3774199.0,     105.1,     105.1,       0.0);
```

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     ( 404670.1, 3774199.0,     105.0,     105.0,       0.0);         ( 404720.1,
3774199.0,     104.7,     104.7,       0.0);
     ( 404770.1, 3774199.0,     104.4,     104.4,       0.0);         ( 404820.1,
3774199.0,     104.5,     104.5,       0.0);
     ( 404870.1, 3774199.0,     104.6,     104.6,       0.0);         ( 404920.1,
3774199.0,     104.2,     104.2,       0.0);
     ( 404970.1, 3774199.0,     104.2,     104.2,       0.0);         ( 405020.1,
3774199.0,     104.1,     104.1,       0.0);
     ( 405070.1, 3774199.0,     104.2,     104.2,       0.0);         ( 405120.1,
3774199.0,     103.5,     103.5,       0.0);
     ( 405170.1, 3774199.0,     103.6,     103.6,       0.0);         ( 405220.1,
3774199.0,     103.3,     103.3,       0.0);
     ( 405270.1, 3774199.0,     103.2,     103.2,       0.0);         ( 405320.1,
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     ( 405370.1, 3774199.0,     102.5,     102.5,       0.0);         ( 405420.1,
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     ( 405470.1, 3774199.0,     102.1,     102.1,       0.0);         ( 405520.1,
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     ( 405670.1, 3774199.0,     101.9,     101.9,       0.0);         ( 405720.1,
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     ( 405770.1, 3774199.0,     101.2,     101.2,       0.0);         ( 405820.1,
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     ( 404070.1, 3774249.0,     107.2,     107.2,       0.0);         ( 404120.1,
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     ( 404170.1, 3774249.0,     106.9,     106.9,       0.0);         ( 404220.1,
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     ( 404270.1, 3774249.0,     106.0,     106.0,       0.0);         ( 404320.1,
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     ( 404370.1, 3774249.0,     105.9,     105.9,       0.0);         ( 404420.1,
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     ( 404470.1, 3774249.0,     104.6,     106.1,       0.0);         ( 404520.1,
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     ( 404570.1, 3774249.0,     105.5,     105.5,       0.0);         ( 404620.1,
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     ( 404670.1, 3774249.0,     105.6,     105.6,       0.0);         ( 404720.1,
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     ( 404770.1, 3774249.0,     104.9,     104.9,       0.0);         ( 404820.1,
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     ( 404870.1, 3774249.0,     105.5,     105.5,       0.0);         ( 404920.1,
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     ( 405070.1, 3774249.0,     104.6,     104.6,       0.0);         ( 405120.1,
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     ( 405270.1, 3774249.0,     103.6,     103.6,       0.0);         ( 405320.1,
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     ( 405370.1, 3774249.0,     103.2,     103.2,       0.0);         ( 405420.1,
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     ( 405470.1, 3774249.0,     102.8,     102.8,       0.0);         ( 405520.1,
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     ( 405670.1, 3774249.0,     102.1,     102.1,       0.0);         ( 405720.1,
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     ( 405770.1, 3774249.0,     101.2,     101.2,       0.0);         ( 405820.1,
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     ( 404170.1, 3774299.0,     107.3,     107.3,       0.0);         ( 404220.1,
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     ( 404270.1, 3774299.0,     106.6,     106.6,       0.0);         ( 404320.1,
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     ( 404670.1, 3774299.0,     105.9,     105.9,       0.0);         ( 404720.1,
3774299.0,     106.0,     106.0,       0.0);
     ( 404770.1, 3774299.0,     105.5,     105.5,       0.0);         ( 404820.1,
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 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                       (METERS)

     ( 404870.1, 3774299.0,     105.6,     105.6,       0.0);         ( 404920.1,
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     ( 404970.1, 3774299.0,     104.6,     104.6,       0.0);         ( 405020.1,
3774299.0,     105.0,     105.0,       0.0);
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3774299.0,     104.9,     104.9,       0.0);
     ( 405170.1, 3774299.0,     104.5,     104.5,       0.0);         ( 405220.1,
3774299.0,     104.3,     104.3,       0.0);
     ( 405270.1, 3774299.0,     104.2,     104.2,       0.0);         ( 405320.1,
3774299.0,     103.9,     103.9,       0.0);
     ( 405370.1, 3774299.0,     103.6,     103.6,       0.0);         ( 405420.1,
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     ( 405470.1, 3774299.0,     103.2,     103.2,       0.0);         ( 405520.1,
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     ( 405570.1, 3774299.0,     102.8,     102.8,       0.0);         ( 405620.1,
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     ( 405670.1, 3774299.0,     102.4,     102.4,       0.0);         ( 405720.1,
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     ( 405770.1, 3774299.0,     101.8,     101.8,       0.0);         ( 405820.1,
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     ( 404170.1, 3774349.0,     107.8,     107.8,       0.0);         ( 404220.1,
3774349.0,     107.5,     107.5,       0.0);
     ( 404270.1, 3774349.0,     107.1,     107.1,       0.0);         ( 404320.1,
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     ( 404770.1, 3774349.0,     106.2,     106.2,       0.0);         ( 404820.1,
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     ( 404870.1, 3774349.0,     106.0,     106.0,       0.0);         ( 404920.1,
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     ( 405170.1, 3774349.0,     104.9,     104.9,       0.0);         ( 405220.1,
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     ( 405270.1, 3774349.0,     104.9,     104.9,       0.0);         ( 405320.1,
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     ( 405370.1, 3774349.0,     104.2,     104.2,       0.0);         ( 405420.1,
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     ( 405670.1, 3774349.0,     102.8,     102.8,       0.0);         ( 405720.1,
3774349.0,     103.0,     103.0,       0.0);
     ( 405770.1, 3774349.0,     102.2,     102.2,       0.0);         ( 405820.1,
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     ( 404170.1, 3774399.0,     108.3,     108.3,       0.0);         ( 404220.1,
3774399.0,     108.0,     108.0,       0.0);
     ( 404270.1, 3774399.0,     107.5,     107.5,       0.0);         ( 404320.1,
3774399.0,     107.5,     107.5,       0.0);
     ( 404370.1, 3774399.0,     106.8,     106.8,       0.0);         ( 404420.1,
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     ( 404670.1, 3774399.0,     107.1,     107.1,       0.0);         ( 404720.1,
3774399.0,     107.1,     107.1,       0.0);
     ( 404770.1, 3774399.0,     106.8,     106.8,       0.0);         ( 404820.1,
3774399.0,     106.6,     106.6,       0.0);
     ( 404870.1, 3774399.0,     106.4,     106.4,       0.0);         ( 404920.1,
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     ( 404970.1, 3774399.0,     105.5,     105.5,       0.0);         ( 405020.1,
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     ( 405170.1, 3774399.0,     105.2,     105.2,       0.0);         ( 405220.1,
3774399.0,     105.2,     105.2,       0.0);
     ( 405270.1, 3774399.0,     105.1,     105.1,       0.0);         ( 405320.1,
3774399.0,     104.8,     104.8,       0.0);
↟ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     ( 405370.1, 3774399.0,     104.5,     104.5,       0.0);         ( 405420.1,
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     ( 405570.1, 3774399.0,     103.7,     103.7,       0.0);         ( 405620.1,
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     ( 405670.1, 3774399.0,     103.1,     103.1,       0.0);         ( 405720.1,
3774399.0,     103.3,     103.3,       0.0);
     ( 405770.1, 3774399.0,     102.6,     102.6,       0.0);         ( 405820.1,
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     ( 403870.1, 3774449.0,     111.3,     111.3,       0.0);         ( 403920.1,
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     ( 403970.1, 3774449.0,     109.5,     109.5,       0.0);         ( 404020.1,
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     ( 404170.1, 3774449.0,     109.0,     109.0,       0.0);         ( 404220.1,
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     ( 404570.1, 3774449.0,     107.5,     107.5,       0.0);         ( 404620.1,
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     ( 404670.1, 3774449.0,     107.5,     107.5,       0.0);         ( 404720.1,
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     ( 404770.1, 3774449.0,     107.5,     107.5,       0.0);         ( 404820.1,
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     ( 404870.1, 3774449.0,     106.9,     106.9,       0.0);         ( 404920.1,
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     ( 405170.1, 3774449.0,     105.5,     105.5,       0.0);         ( 405220.1,
3774449.0,     105.5,     105.5,       0.0);
     ( 405270.1, 3774449.0,     105.4,     105.4,       0.0);         ( 405320.1,
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     ( 405370.1, 3774449.0,     105.2,     105.2,       0.0);         ( 405420.1,
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     ( 405670.1, 3774449.0,     103.6,     103.6,       0.0);         ( 405720.1,
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     ( 404970.1, 3774499.0,     106.7,     106.7,       0.0);         ( 405020.1,
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3774499.0,     104.0,     104.0,       0.0);
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↟ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                        ***        10:28:28

                                    PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)
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     ( 404070.1, 3774549.0,     110.2,     110.2,       0.0);         ( 404120.1,
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     ( 404170.1, 3774549.0,     109.5,     109.5,       0.0);         ( 404220.1,
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     ( 404270.1, 3774549.0,     108.9,     108.9,       0.0);         ( 404320.1,
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     ( 404370.1, 3774549.0,     108.7,     108.7,       0.0);         ( 404420.1,
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     ( 404470.1, 3774549.0,     108.2,     108.2,       0.0);         ( 404520.1,
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     ( 404170.1, 3774599.0,     109.7,     109.7,       0.0);         ( 404220.1,
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     ( 404270.1, 3774599.0,     109.1,     109.1,       0.0);         ( 404320.1,
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     ( 405220.1, 3774599.0,     107.0,     107.0,       0.0);         ( 405270.1,
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     ( 405820.1, 3774599.0,     104.7,     104.7,       0.0);         ( 403870.1,
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     ( 404220.1, 3774649.0,     110.1,     110.1,       0.0);         ( 404270.1,
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     ( 404970.1, 3774649.0,     108.1,     108.1,       0.0);         ( 405020.1,
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↟ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                   (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
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(METERS)

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(405270.1, 3774649.0, 107.0, 107.0, 0.0); (405320.1, 3774649.0, 107.6, 107.6, 0.0);
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(405070.1, 3774699.0, 108.0, 108.0, 0.0); (405120.1, 3774699.0, 108.3, 108.3, 0.0);
(405170.1, 3774699.0, 107.8, 107.8, 0.0); (405220.1, 3774699.0, 108.0, 108.0, 0.0);
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     ( 404770.1, 3774749.0,     110.1,     110.1,       0.0);         ( 404820.1,
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     ( 405120.1, 3774749.0,     109.0,     109.0,       0.0);         ( 405170.1,
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     ( 405220.1, 3774749.0,     108.2,     108.2,       0.0);         ( 405270.1,
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     ( 405320.1, 3774749.0,     108.1,     108.1,       0.0);         ( 405370.1,
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     ( 405420.1, 3774749.0,     107.5,     107.5,       0.0);         ( 405470.1,
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↟ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(404120.1, 3774799.0, 112.4, 112.4, 0.0); (404170.1, 3774799.0, 112.0, 112.0, 0.0);
(404220.1, 3774799.0, 111.4, 111.4, 0.0); (404270.1, 3774799.0, 111.1, 111.1, 0.0);
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     ( 404870.1, 3774849.0,     110.8,     110.8,       0.0);         ( 404970.1,
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     ( 405220.1, 3774849.0,     108.9,     108.9,       0.0);         ( 405270.1,
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     ( 405420.1, 3774849.0,     108.3,     108.3,       0.0);         ( 405470.1,
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     ( 405520.1, 3774849.0,     108.2,     108.2,       0.0);         ( 405570.1,
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     ( 405720.1, 3774849.0,     107.4,     107.4,       0.0);         ( 405770.1,
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     ( 405820.1, 3774849.0,     107.3,     107.3,       0.0);         ( 403870.1,
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     ( 404320.1, 3774899.0,     111.3,     111.3,       0.0);         ( 404370.1,
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 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***       10:28:28
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(404420.1, 3774899.0, 112.2, 112.2, 0.0); (404470.1, 3774899.0, 111.9, 111.9, 0.0);
(404520.1, 3774899.0, 111.5, 111.5, 0.0); (404570.1, 3774899.0, 111.7, 111.7, 0.0);
(404620.1, 3774899.0, 111.5, 111.5, 0.0); (404670.1, 3774899.0, 111.5, 111.5, 0.0);
(404720.1, 3774899.0, 111.3, 111.3, 0.0); (404770.1, 3774899.0, 111.0, 111.0, 0.0);
(404820.1, 3774899.0, 111.4, 111.4, 0.0); (404870.1, 3774899.0, 111.2, 111.2, 0.0);
(404970.1, 3774899.0, 110.5, 110.5, 0.0); (405020.1, 3774899.0, 110.3, 110.3, 0.0);
(405070.1, 3774899.0, 110.2, 110.2, 0.0); (405120.1, 3774899.0, 110.0, 110.0, 0.0);
(405170.1, 3774899.0, 109.5, 109.5, 0.0); (405220.1, 3774899.0, 109.4, 109.4, 0.0);
(405270.1, 3774899.0, 109.1, 109.1, 0.0); (405320.1, 3774899.0, 109.2, 109.2, 0.0);
(405370.1, 3774899.0, 109.0, 109.0, 0.0); (405420.1, 3774899.0, 108.7, 108.7, 0.0);
(405470.1, 3774899.0, 108.9, 108.9, 0.0); (405520.1, 3774899.0, 108.5, 108.5, 0.0);
(405570.1, 3774899.0, 108.4, 108.4, 0.0); (405620.1, 3774899.0, 108.0, 108.0, 0.0);
(405670.1, 3774899.0, 108.0, 108.0, 0.0); (405720.1, 3774899.0, 108.0, 108.0, 0.0);
(405770.1, 3774899.0, 107.4, 107.4, 0.0); (405820.1, 3774899.0, 107.6, 107.6, 0.0);
(403870.1, 3774949.0, 116.1, 116.1, 0.0); (403920.1, 3774949.0, 115.5, 115.5, 0.0);
(403970.1, 3774949.0, 115.1, 115.1, 0.0); (404020.1, 3774949.0, 115.1, 115.1, 0.0);
(404070.1, 3774949.0, 114.4, 114.4, 0.0); (404120.1, 3774949.0, 113.8, 113.8, 0.0);
(404170.1, 3774949.0, 113.7, 113.7, 0.0); (404220.1, 3774949.0, 112.9, 112.9, 0.0);
(404270.1, 3774949.0, 112.8, 112.8, 0.0); (404320.1, 3774949.0, 112.7, 112.7, 0.0);
(404370.1, 3774949.0, 112.3, 112.3, 0.0); (404420.1, 3774949.0, 112.9, 112.9, 0.0);
(404470.1, 3774949.0, 112.1, 112.1, 0.0); (404520.1, 3774949.0, 112.2, 112.2, 0.0);
(404570.1, 3774949.0, 112.1, 112.1, 0.0); (404620.1, 3774949.0, 112.1, 112.1, 0.0);

```
     ( 404670.1, 3774949.0,     111.9,     111.9,       0.0);         ( 404720.1,
3774949.0,     111.6,     111.6,       0.0);
     ( 404770.1, 3774949.0,     111.4,     111.4,       0.0);         ( 404820.1,
3774949.0,     111.2,     111.2,       0.0);
     ( 404870.1, 3774949.0,     111.1,     111.1,       0.0);         ( 404920.1,
3774949.0,     110.8,     110.8,       0.0);
     ( 404970.1, 3774949.0,     110.9,     110.9,       0.0);         ( 405020.1,
3774949.0,     110.7,     110.7,       0.0);
     ( 405070.1, 3774949.0,     110.4,     110.4,       0.0);         ( 405120.1,
3774949.0,     110.4,     110.4,       0.0);
     ( 405170.1, 3774949.0,     110.0,     110.0,       0.0);         ( 405220.1,
3774949.0,     109.8,     109.8,       0.0);
     ( 405270.1, 3774949.0,     109.5,     109.5,       0.0);         ( 405320.1,
3774949.0,     109.7,     109.7,       0.0);
     ( 405370.1, 3774949.0,     109.5,     109.5,       0.0);         ( 405420.1,
3774949.0,     109.3,     109.3,       0.0);
     ( 405470.1, 3774949.0,     109.1,     109.1,       0.0);         ( 405520.1,
3774949.0,     108.9,     108.9,       0.0);
     ( 405570.1, 3774949.0,     108.8,     108.8,       0.0);         ( 405620.1,
3774949.0,     108.4,     108.4,       0.0);
     ( 405670.1, 3774949.0,     108.3,     108.3,       0.0);         ( 405720.1,
3774949.0,     108.0,     108.0,       0.0);
     ( 405770.1, 3774949.0,     107.8,     107.8,       0.0);         ( 405820.1,
3774949.0,     108.2,     108.2,       0.0);
     ( 403870.1, 3774999.0,     116.5,     116.5,       0.0);         ( 403920.1,
3774999.0,     116.1,     116.1,       0.0);
     ( 403970.1, 3774999.0,     115.5,     115.5,       0.0);         ( 404020.1,
3774999.0,     115.2,     115.2,       0.0);
     ( 404070.1, 3774999.0,     114.8,     114.8,       0.0);         ( 404120.1,
3774999.0,     114.3,     114.3,       0.0);
     ( 404170.1, 3774999.0,     113.9,     113.9,       0.0);         ( 404220.1,
3774999.0,     113.4,     113.4,       0.0);
     ( 404270.1, 3774999.0,     113.1,     113.1,       0.0);         ( 404320.1,
3774999.0,     113.1,     113.1,       0.0);
     ( 404370.1, 3774999.0,     113.1,     113.1,       0.0);         ( 404420.1,
3774999.0,     113.1,     113.1,       0.0);
     ( 404470.1, 3774999.0,     112.6,     112.6,       0.0);         ( 404520.1,
3774999.0,     112.5,     112.5,       0.0);
     ( 404570.1, 3774999.0,     112.5,     112.5,       0.0);         ( 404620.1,
3774999.0,     112.7,     112.7,       0.0);
     ( 404670.1, 3774999.0,     112.5,     112.5,       0.0);         ( 404720.1,
3774999.0,     112.5,     112.5,       0.0);
     ( 404770.1, 3774999.0,     112.0,     112.0,       0.0);         ( 404820.1,
3774999.0,     111.9,     111.9,       0.0);
     ( 404870.1, 3774999.0,     111.6,     111.6,       0.0);         ( 404920.1,
3774999.0,     111.2,     111.2,       0.0);
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(404970.1, 3774999.0, 111.5, 111.5, 0.0); (405020.1, 3774999.0, 111.2, 111.2, 0.0);
(405070.1, 3774999.0, 110.7, 110.7, 0.0); (405120.1, 3774999.0, 110.8, 110.8, 0.0);
(405170.1, 3774999.0, 110.6, 110.6, 0.0); (405220.1, 3774999.0, 110.5, 110.5, 0.0);
(405270.1, 3774999.0, 110.1, 110.1, 0.0); (405320.1, 3774999.0, 110.3, 110.3, 0.0);
(405370.1, 3774999.0, 110.1, 110.1, 0.0); (405420.1, 3774999.0, 109.8, 109.8, 0.0);
(405470.1, 3774999.0, 109.6, 109.6, 0.0); (405520.1, 3774999.0, 109.7, 109.7, 0.0);
(405570.1, 3774999.0, 109.1, 109.1, 0.0); (405620.1, 3774999.0, 109.1, 109.1, 0.0);
(405670.1, 3774999.0, 108.7, 108.7, 0.0); (405720.1, 3774999.0, 108.6, 108.6, 0.0);
(405770.1, 3774999.0, 108.2, 108.2, 0.0); (405820.1, 3774999.0, 108.4, 108.4, 0.0);
(403870.1, 3775049.0, 117.2, 117.2, 0.0); (403920.1, 3775049.0, 116.9, 116.9, 0.0);
(403970.1, 3775049.0, 116.4, 116.4, 0.0); (404020.1, 3775049.0, 116.0, 116.0, 0.0);
(404070.1, 3775049.0, 115.4, 115.4, 0.0); (404120.1, 3775049.0, 115.2, 115.2, 0.0);
(404170.1, 3775049.0, 114.7, 114.7, 0.0); (404220.1, 3775049.0, 114.2, 114.2, 0.0);
(404270.1, 3775049.0, 113.7, 113.7, 0.0); (404320.1, 3775049.0, 113.5, 113.5, 0.0);
(404370.1, 3775049.0, 113.6, 113.6, 0.0); (404420.1, 3775049.0, 113.5, 113.5, 0.0);
(404470.1, 3775049.0, 113.4, 113.4, 0.0); (404520.1, 3775049.0, 113.2, 113.2, 0.0);
(404570.1, 3775049.0, 113.0, 113.0, 0.0); (404620.1, 3775049.0, 113.0, 113.0, 0.0);
(404670.1, 3775049.0, 112.8, 112.8, 0.0); (404720.1, 3775049.0, 112.6, 112.6, 0.0);
(404770.1, 3775049.0, 112.0, 112.0, 0.0); (404820.1, 3775049.0, 112.0, 112.0, 0.0);
(404870.1, 3775049.0, 111.9, 111.9, 0.0); (404920.1, 3775049.0, 111.5, 111.5, 0.0);
(404970.1, 3775049.0, 111.9, 111.9, 0.0); (405020.1, 3775049.0, 111.7, 111.7, 0.0);

```
     ( 405070.1, 3775049.0,     111.1,     111.1,       0.0);         ( 405120.1,
3775049.0,     111.4,     111.4,       0.0);
     ( 405170.1, 3775049.0,     111.1,     111.1,       0.0);         ( 405220.1,
3775049.0,     111.0,     111.0,       0.0);
     ( 405270.1, 3775049.0,     110.6,     110.6,       0.0);         ( 405320.1,
3775049.0,     110.9,     110.9,       0.0);
     ( 405370.1, 3775049.0,     110.6,     110.6,       0.0);         ( 405420.1,
3775049.0,     110.2,     110.2,       0.0);
     ( 405470.1, 3775049.0,     110.3,     110.3,       0.0);         ( 405520.1,
3775049.0,     110.1,     110.1,       0.0);
     ( 405570.1, 3775049.0,     110.1,     110.1,       0.0);         ( 405620.1,
3775049.0,     109.9,     109.9,       0.0);
     ( 405670.1, 3775049.0,     110.0,     110.0,       0.0);         ( 405720.1,
3775049.0,     109.7,     109.7,       0.0);
     ( 405770.1, 3775049.0,     109.0,     109.0,       0.0);         ( 405820.1,
3775049.0,     109.4,     109.4,       0.0);
     ( 403870.1, 3775099.0,     117.8,     117.8,       0.0);         ( 403920.1,
3775099.0,     117.3,     117.3,       0.0);
     ( 403970.1, 3775099.0,     117.0,     117.0,       0.0);         ( 404020.1,
3775099.0,     116.5,     116.5,       0.0);
     ( 404070.1, 3775099.0,     116.0,     116.0,       0.0);         ( 404120.1,
3775099.0,     115.6,     115.6,       0.0);
     ( 404170.1, 3775099.0,     115.1,     115.1,       0.0);         ( 404220.1,
3775099.0,     114.6,     114.6,       0.0);
     ( 404270.1, 3775099.0,     114.3,     114.3,       0.0);         ( 404320.1,
3775099.0,     114.0,     114.0,       0.0);
     ( 404370.1, 3775099.0,     114.0,     114.0,       0.0);         ( 404420.1,
3775099.0,     114.1,     114.1,       0.0);
     ( 404470.1, 3775099.0,     114.1,     114.1,       0.0);         ( 404520.1,
3775099.0,     113.6,     113.6,       0.0);
     ( 404570.1, 3775099.0,     113.5,     113.5,       0.0);         ( 404620.1,
3775099.0,     113.6,     113.6,       0.0);
     ( 404670.1, 3775099.0,     113.4,     113.4,       0.0);         ( 404720.1,
3775099.0,     113.3,     113.3,       0.0);
     ( 404770.1, 3775099.0,     112.4,     112.4,       0.0);         ( 404820.1,
3775099.0,     112.4,     112.4,       0.0);
     ( 404870.1, 3775099.0,     112.4,     112.4,       0.0);         ( 404920.1,
3775099.0,     112.0,     112.0,       0.0);
     ( 404970.1, 3775099.0,     112.3,     112.3,       0.0);         ( 405020.1,
3775099.0,     112.2,     112.2,       0.0);
     ( 405070.1, 3775099.0,     111.6,     111.6,       0.0);         ( 405120.1,
3775099.0,     111.8,     111.8,       0.0);
     ( 405170.1, 3775099.0,     111.5,     111.5,       0.0);         ( 405220.1,
3775099.0,     111.3,     111.3,       0.0);
     ( 405270.1, 3775099.0,     110.9,     110.9,       0.0);         ( 405320.1,
3775099.0,     111.1,     111.1,       0.0);
     ( 405370.1, 3775099.0,     111.0,     111.0,       0.0);         ( 405420.1,
3775099.0,     110.8,     110.8,       0.0);
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(405470.1, 3775099.0, 110.8, 110.8, 0.0); (405520.1, 3775099.0, 110.6, 110.6, 0.0);
(405570.1, 3775099.0, 110.5, 110.5, 0.0); (405620.1, 3775099.0, 110.3, 110.3, 0.0);
(405670.1, 3775099.0, 110.2, 110.2, 0.0); (405720.1, 3775099.0, 110.1, 110.1, 0.0);
(405770.1, 3775099.0, 109.6, 109.6, 0.0); (405820.1, 3775099.0, 109.7, 109.7, 0.0);
(403870.1, 3775149.0, 118.3, 118.3, 0.0); (403920.1, 3775149.0, 118.0, 118.0, 0.0);
(403970.1, 3775149.0, 117.8, 117.8, 0.0); (404020.1, 3775149.0, 117.3, 117.3, 0.0);
(404070.1, 3775149.0, 116.7, 116.7, 0.0); (404120.1, 3775149.0, 116.2, 116.2, 0.0);
(404170.1, 3775149.0, 115.8, 115.8, 0.0); (404220.1, 3775149.0, 115.1, 115.1, 0.0);
(404270.1, 3775149.0, 114.7, 114.7, 0.0); (404320.1, 3775149.0, 114.5, 114.5, 0.0);
(404370.1, 3775149.0, 114.5, 114.5, 0.0); (404420.1, 3775149.0, 114.5, 114.5, 0.0);
(404470.1, 3775149.0, 114.6, 114.6, 0.0); (404520.1, 3775149.0, 114.3, 114.3, 0.0);
(404570.1, 3775149.0, 114.5, 114.5, 0.0); (404620.1, 3775149.0, 114.2, 114.2, 0.0);
(404670.1, 3775149.0, 113.8, 113.8, 0.0); (404720.1, 3775149.0, 113.4, 113.4, 0.0);
(404770.1, 3775149.0, 112.7, 112.7, 0.0); (404820.1, 3775149.0, 113.1, 113.1, 0.0);
(404870.1, 3775149.0, 112.9, 112.9, 0.0); (404920.1, 3775149.0, 112.4, 112.4, 0.0);
(404970.1, 3775149.0, 112.6, 112.6, 0.0); (405020.1, 3775149.0, 112.4, 112.4, 0.0);
(405070.1, 3775149.0, 111.9, 111.9, 0.0); (405120.1, 3775149.0, 112.1, 112.1, 0.0);
(405170.1, 3775149.0, 112.0, 112.0, 0.0); (405220.1, 3775149.0, 112.0, 112.0, 0.0);
(405270.1, 3775149.0, 111.6, 111.6, 0.0); (405320.1, 3775149.0, 111.9, 111.9, 0.0);
(405370.1, 3775149.0, 111.4, 111.4, 0.0); (405420.1, 3775149.0, 111.6, 111.6, 0.0);

```
     ( 405470.1, 3775149.0,     111.2,     111.2,       0.0);         ( 405520.1,
3775149.0,     111.0,     111.0,       0.0);
     ( 405570.1, 3775149.0,     110.9,     110.9,       0.0);         ( 405620.1,
3775149.0,     110.8,     110.8,       0.0);
     ( 405670.1, 3775149.0,     110.7,     110.7,       0.0);         ( 405720.1,
3775149.0,     110.6,     110.6,       0.0);
     ( 405770.1, 3775149.0,     110.1,     110.1,       0.0);         ( 405820.1,
3775149.0,     110.0,     110.0,       0.0);
     ( 403870.1, 3775199.0,     118.4,     118.4,       0.0);         ( 403920.1,
3775199.0,     117.9,     117.9,       0.0);
     ( 403970.1, 3775199.0,     117.4,     117.4,       0.0);         ( 404020.1,
3775199.0,     117.0,     117.0,       0.0);
     ( 404070.1, 3775199.0,     116.7,     116.7,       0.0);         ( 404120.1,
3775199.0,     116.7,     116.7,       0.0);
     ( 404170.1, 3775199.0,     116.3,     116.3,       0.0);         ( 404220.1,
3775199.0,     115.6,     115.6,       0.0);
     ( 404270.1, 3775199.0,     115.2,     115.2,       0.0);         ( 404320.1,
3775199.0,     115.0,     115.0,       0.0);
     ( 404370.1, 3775199.0,     114.9,     114.9,       0.0);         ( 404420.1,
3775199.0,     115.2,     115.2,       0.0);
     ( 404470.1, 3775199.0,     115.1,     115.1,       0.0);         ( 404520.1,
3775199.0,     114.8,     114.8,       0.0);
     ( 404570.1, 3775199.0,     114.8,     114.8,       0.0);         ( 404620.1,
3775199.0,     114.4,     114.4,       0.0);
     ( 404670.1, 3775199.0,     114.2,     114.2,       0.0);         ( 404720.1,
3775199.0,     114.0,     114.0,       0.0);
     ( 404770.1, 3775199.0,     113.1,     113.1,       0.0);         ( 404820.1,
3775199.0,     113.5,     113.5,       0.0);
     ( 404870.1, 3775199.0,     113.3,     113.3,       0.0);         ( 404920.1,
3775199.0,     112.8,     112.8,       0.0);
     ( 404970.1, 3775199.0,     113.2,     113.2,       0.0);         ( 405020.1,
3775199.0,     113.0,     113.0,       0.0);
     ( 405070.1, 3775199.0,     112.8,     112.8,       0.0);         ( 405120.1,
3775199.0,     112.6,     112.6,       0.0);
     ( 405170.1, 3775199.0,     112.6,     112.6,       0.0);         ( 405220.1,
3775199.0,     112.5,     112.5,       0.0);
     ( 405270.1, 3775199.0,     112.3,     112.3,       0.0);         ( 405320.1,
3775199.0,     112.3,     112.3,       0.0);
     ( 405370.1, 3775199.0,     111.8,     111.8,       0.0);         ( 405420.1,
3775199.0,     112.2,     112.2,       0.0);
     ( 405470.1, 3775199.0,     112.0,     112.0,       0.0);         ( 405520.1,
3775199.0,     111.7,     111.7,       0.0);
     ( 405570.1, 3775199.0,     111.4,     111.4,       0.0);         ( 405620.1,
3775199.0,     111.2,     111.2,       0.0);
     ( 405670.1, 3775199.0,     111.1,     111.1,       0.0);         ( 405720.1,
3775199.0,     111.0,     111.0,       0.0);
     ( 405770.1, 3775199.0,     110.6,     110.6,       0.0);         ( 405820.1,
3775199.0,     110.5,     110.5,       0.0);
     ( 403870.1, 3775249.0,     119.2,     119.2,       0.0);         ( 403920.1,
3775249.0,     118.9,     118.9,       0.0);
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (403970.1, 3775249.0,   118.7,   118.7,   0.0);   (404020.1, 3775249.0,   118.1,   118.1,   0.0);
     (404070.1, 3775249.0,   117.8,   117.8,   0.0);   (404120.1, 3775249.0,   117.3,   117.3,   0.0);
     (404170.1, 3775249.0,   116.8,   116.8,   0.0);   (404220.1, 3775249.0,   116.2,   116.2,   0.0);
     (404270.1, 3775249.0,   116.3,   116.3,   0.0);   (404320.1, 3775249.0,   115.6,   115.6,   0.0);
     (404370.1, 3775249.0,   115.5,   115.5,   0.0);   (404420.1, 3775249.0,   116.1,   116.1,   0.0);
     (404470.1, 3775249.0,   116.0,   116.0,   0.0);   (404520.1, 3775249.0,   115.5,   115.5,   0.0);
     (404570.1, 3775249.0,   115.4,   115.4,   0.0);   (404620.1, 3775249.0,   114.8,   114.8,   0.0);
     (404670.1, 3775249.0,   114.4,   114.4,   0.0);   (404720.1, 3775249.0,   114.1,   114.1,   0.0);
     (404770.1, 3775249.0,   113.8,   113.8,   0.0);   (404820.1, 3775249.0,   113.6,   113.6,   0.0);
     (404870.1, 3775249.0,   113.4,   113.4,   0.0);   (404920.1, 3775249.0,   113.2,   113.2,   0.0);
     (404970.1, 3775249.0,   113.6,   113.6,   0.0);   (405020.1, 3775249.0,   113.4,   113.4,   0.0);
     (405070.1, 3775249.0,   113.2,   113.2,   0.0);   (405120.1, 3775249.0,   113.3,   113.3,   0.0);
     (405170.1, 3775249.0,   113.6,   113.6,   0.0);   (405220.1, 3775249.0,   113.2,   113.2,   0.0);
     (405270.1, 3775249.0,   112.8,   112.8,   0.0);   (405320.1, 3775249.0,   112.6,   112.6,   0.0);
     (405370.1, 3775249.0,   112.5,   112.5,   0.0);   (405420.1, 3775249.0,   112.4,   112.4,   0.0);
     (405470.1, 3775249.0,   112.2,   112.2,   0.0);   (405520.1, 3775249.0,   112.2,   112.2,   0.0);
     (405570.1, 3775249.0,   111.7,   111.7,   0.0);   (405620.1, 3775249.0,   111.8,   111.8,   0.0);
     (405670.1, 3775249.0,   111.6,   111.6,   0.0);   (405720.1, 3775249.0,   111.4,   111.4,   0.0);
     (405770.1, 3775249.0,   111.0,   111.0,   0.0);   (405820.1, 3775249.0,   110.8,   110.8,   0.0);

```
     ( 403870.1, 3775299.0,     120.0,     120.0,       0.0);         ( 403920.1,
3775299.0,     119.5,     119.5,       0.0);
     ( 403970.1, 3775299.0,     119.3,     119.3,       0.0);         ( 404020.1,
3775299.0,     119.0,     119.0,       0.0);
     ( 404070.1, 3775299.0,     118.3,     118.3,       0.0);         ( 404120.1,
3775299.0,     117.9,     117.9,       0.0);
     ( 404170.1, 3775299.0,     117.3,     117.3,       0.0);         ( 404220.1,
3775299.0,     116.4,     116.4,       0.0);
     ( 404270.1, 3775299.0,     116.4,     116.4,       0.0);         ( 404320.1,
3775299.0,     116.4,     116.4,       0.0);
     ( 404370.1, 3775299.0,     116.3,     116.3,       0.0);         ( 404420.1,
3775299.0,     116.5,     116.5,       0.0);
     ( 404470.1, 3775299.0,     116.1,     116.1,       0.0);         ( 404520.1,
3775299.0,     115.7,     115.7,       0.0);
     ( 404570.1, 3775299.0,     115.3,     115.3,       0.0);         ( 404620.1,
3775299.0,     115.0,     115.0,       0.0);
     ( 404670.1, 3775299.0,     114.8,     114.8,       0.0);         ( 404720.1,
3775299.0,     114.5,     114.5,       0.0);
     ( 404770.1, 3775299.0,     114.3,     114.3,       0.0);         ( 404820.1,
3775299.0,     114.0,     114.0,       0.0);
     ( 404870.1, 3775299.0,     113.8,     113.8,       0.0);         ( 404920.1,
3775299.0,     113.7,     113.7,       0.0);
     ( 404970.1, 3775299.0,     113.6,     113.6,       0.0);         ( 405020.1,
3775299.0,     113.6,     113.6,       0.0);
     ( 405070.1, 3775299.0,     113.5,     113.5,       0.0);         ( 405120.1,
3775299.0,     113.4,     113.4,       0.0);
     ( 405170.1, 3775299.0,     113.4,     113.4,       0.0);         ( 405220.1,
3775299.0,     113.4,     113.4,       0.0);
     ( 405270.1, 3775299.0,     113.2,     113.2,       0.0);         ( 405320.1,
3775299.0,     113.0,     113.0,       0.0);
     ( 405370.1, 3775299.0,     112.9,     112.9,       0.0);         ( 405420.1,
3775299.0,     112.8,     112.8,       0.0);
     ( 405470.1, 3775299.0,     112.6,     112.6,       0.0);         ( 405520.1,
3775299.0,     112.4,     112.4,       0.0);
     ( 405570.1, 3775299.0,     112.2,     112.2,       0.0);         ( 405620.1,
3775299.0,     112.0,     112.0,       0.0);
     ( 405670.1, 3775299.0,     111.8,     111.8,       0.0);         ( 405720.1,
3775299.0,     111.6,     111.6,       0.0);
     ( 405770.1, 3775299.0,     111.4,     111.4,       0.0);         ( 405820.1,
3775299.0,     111.2,     111.2,       0.0);
     ( 403870.1, 3775349.0,     120.5,     120.5,       0.0);         ( 403920.1,
3775349.0,     120.1,     120.1,       0.0);
     ( 403970.1, 3775349.0,     119.8,     119.8,       0.0);         ( 404020.1,
3775349.0,     119.0,     119.0,       0.0);
     ( 404070.1, 3775349.0,     118.2,     118.2,       0.0);         ( 404120.1,
3775349.0,     117.5,     117.5,       0.0);
     ( 404170.1, 3775349.0,     117.8,     117.8,       0.0);         ( 404220.1,
3775349.0,     117.2,     117.2,       0.0);
     ( 404270.1, 3775349.0,     117.1,     117.1,       0.0);         ( 404320.1,
3775349.0,     117.0,     117.0,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(404470.1, 3775349.0, 116.4, 116.4, 0.0); (404520.1,
3775349.0, 116.0, 116.0, 0.0);
(404570.1, 3775349.0, 115.8, 115.8, 0.0); (404620.1,
3775349.0, 115.4, 115.4, 0.0);
(404670.1, 3775349.0, 115.2, 115.2, 0.0); (404720.1,
3775349.0, 115.1, 115.1, 0.0);
(404770.1, 3775349.0, 114.8, 114.8, 0.0); (404820.1,
3775349.0, 114.6, 114.6, 0.0);
(404870.1, 3775349.0, 114.8, 114.8, 0.0); (404920.1,
3775349.0, 114.3, 114.3, 0.0);
(404970.1, 3775349.0, 114.4, 114.4, 0.0); (405020.1,
3775349.0, 114.5, 114.5, 0.0);
(405070.1, 3775349.0, 114.1, 114.1, 0.0); (405120.1,
3775349.0, 114.4, 114.4, 0.0);
(405170.1, 3775349.0, 114.4, 114.4, 0.0); (405220.1,
3775349.0, 114.3, 114.3, 0.0);
(405270.1, 3775349.0, 113.9, 113.9, 0.0); (405320.1,
3775349.0, 113.6, 113.6, 0.0);
(405370.1, 3775349.0, 113.6, 113.6, 0.0); (405420.1,
3775349.0, 113.4, 113.4, 0.0);
(405470.1, 3775349.0, 113.3, 113.3, 0.0); (405520.1,
3775349.0, 113.1, 113.1, 0.0);
(405570.1, 3775349.0, 113.0, 113.0, 0.0); (405620.1,
3775349.0, 113.0, 113.0, 0.0);
(405670.1, 3775349.0, 112.8, 112.8, 0.0); (405720.1,
3775349.0, 112.3, 112.3, 0.0);
(405770.1, 3775349.0, 112.0, 112.0, 0.0); (405820.1,
3775349.0, 111.8, 111.8, 0.0);
(403870.1, 3775399.0, 121.0, 121.0, 0.0); (403920.1,
3775399.0, 120.5, 120.5, 0.0);
(403970.1, 3775399.0, 120.2, 120.2, 0.0); (404020.1,
3775399.0, 119.1, 119.1, 0.0);
(404070.1, 3775399.0, 118.6, 118.6, 0.0); (404120.1,
3775399.0, 118.2, 118.2, 0.0);
(404170.1, 3775399.0, 117.9, 117.9, 0.0); (404220.1,
3775399.0, 117.8, 117.8, 0.0);

```
     ( 404270.1, 3775399.0,     117.8,     117.8,       0.0);         ( 404320.1,
3775399.0,     117.8,     117.8,       0.0);
     ( 404370.1, 3775399.0,     116.0,     117.0,       0.0);         ( 404420.1,
3775399.0,     116.0,     116.0,       0.0);
     ( 404470.1, 3775399.0,     116.1,     116.1,       0.0);         ( 404520.1,
3775399.0,     116.2,     116.2,       0.0);
     ( 404570.1, 3775399.0,     116.3,     116.3,       0.0);         ( 404620.1,
3775399.0,     116.0,     116.0,       0.0);
     ( 404670.1, 3775399.0,     115.6,     115.6,       0.0);         ( 404720.1,
3775399.0,     115.3,     115.3,       0.0);
     ( 404770.1, 3775399.0,     115.3,     115.3,       0.0);         ( 404820.1,
3775399.0,     115.5,     115.5,       0.0);
     ( 404870.1, 3775399.0,     115.0,     115.0,       0.0);         ( 404920.1,
3775399.0,     114.7,     114.7,       0.0);
     ( 404970.1, 3775399.0,     114.6,     114.6,       0.0);         ( 405020.1,
3775399.0,     114.6,     114.6,       0.0);
     ( 405070.1, 3775399.0,     114.5,     114.5,       0.0);         ( 405120.1,
3775399.0,     114.6,     114.6,       0.0);
     ( 405170.1, 3775399.0,     114.4,     114.4,       0.0);         ( 405220.1,
3775399.0,     114.2,     114.2,       0.0);
     ( 405270.1, 3775399.0,     114.1,     114.1,       0.0);         ( 405320.1,
3775399.0,     113.9,     113.9,       0.0);
     ( 405370.1, 3775399.0,     113.8,     113.8,       0.0);         ( 405420.1,
3775399.0,     113.6,     113.6,       0.0);
     ( 405470.1, 3775399.0,     113.5,     113.5,       0.0);         ( 405520.1,
3775399.0,     113.6,     113.6,       0.0);
     ( 405570.1, 3775399.0,     113.4,     113.4,       0.0);         ( 405620.1,
3775399.0,     112.7,     112.7,       0.0);
     ( 405670.1, 3775399.0,     112.5,     112.5,       0.0);         ( 405720.1,
3775399.0,     112.6,     112.6,       0.0);
     ( 405770.1, 3775399.0,     112.6,     112.6,       0.0);         ( 405820.1,
3775399.0,     112.6,     112.6,       0.0);
     ( 403870.1, 3775449.0,     121.6,     121.6,       0.0);         ( 403920.1,
3775449.0,     120.8,     120.8,       0.0);
     ( 403970.1, 3775449.0,     120.3,     120.3,       0.0);         ( 404020.1,
3775449.0,     119.5,     119.5,       0.0);
     ( 404070.1, 3775449.0,     118.9,     118.9,       0.0);         ( 404120.1,
3775449.0,     118.7,     118.7,       0.0);
     ( 404170.1, 3775449.0,     118.4,     118.4,       0.0);         ( 404220.1,
3775449.0,     118.2,     118.2,       0.0);
     ( 404270.1, 3775449.0,     118.5,     118.5,       0.0);         ( 404320.1,
3775449.0,     118.1,     118.1,       0.0);
     ( 404370.1, 3775449.0,     117.7,     117.7,       0.0);         ( 404420.1,
3775449.0,     117.3,     117.3,       0.0);
     ( 404470.1, 3775449.0,     116.9,     116.9,       0.0);         ( 404520.1,
3775449.0,     116.6,     116.6,       0.0);
     ( 404570.1, 3775449.0,     116.5,     116.5,       0.0);         ( 404620.1,
3775449.0,     116.3,     116.3,       0.0);
     ( 404670.1, 3775449.0,     116.0,     116.0,       0.0);         ( 404720.1,
3775449.0,     115.9,     115.9,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(404970.1, 3775449.0, 115.2, 115.2, 0.0); (405020.1, 3775449.0, 115.3, 115.3, 0.0);
(405070.1, 3775449.0, 115.2, 115.2, 0.0); (405120.1, 3775449.0, 115.1, 115.1, 0.0);
(405170.1, 3775449.0, 115.1, 115.1, 0.0); (405220.1, 3775449.0, 114.9, 114.9, 0.0);
(405270.1, 3775449.0, 114.7, 114.7, 0.0); (405320.1, 3775449.0, 114.3, 114.3, 0.0);
(405370.1, 3775449.0, 114.3, 114.3, 0.0); (405420.1, 3775449.0, 114.4, 114.4, 0.0);
(405470.1, 3775449.0, 114.3, 114.3, 0.0); (405520.1, 3775449.0, 114.2, 114.2, 0.0);
(405570.1, 3775449.0, 113.9, 113.9, 0.0); (405620.1, 3775449.0, 113.6, 113.6, 0.0);
(405670.1, 3775449.0, 113.6, 113.6, 0.0); (405720.1, 3775449.0, 113.5, 113.5, 0.0);
(405770.1, 3775449.0, 113.2, 113.2, 0.0); (405820.1, 3775449.0, 112.9, 112.9, 0.0);
(403870.1, 3775499.0, 121.8, 121.8, 0.0); (403920.1, 3775499.0, 121.1, 121.1, 0.0);
(403970.1, 3775499.0, 120.6, 120.6, 0.0); (404020.1, 3775499.0, 119.8, 119.8, 0.0);
(404070.1, 3775499.0, 119.3, 119.3, 0.0); (404120.1, 3775499.0, 119.2, 119.2, 0.0);
(404170.1, 3775499.0, 118.9, 118.9, 0.0); (404220.1, 3775499.0, 118.8, 118.8, 0.0);
(404270.1, 3775499.0, 119.0, 119.0, 0.0); (404320.1, 3775499.0, 118.2, 118.2, 0.0);
(404370.1, 3775499.0, 117.9, 117.9, 0.0); (404420.1, 3775499.0, 117.5, 117.5, 0.0);
(404470.1, 3775499.0, 117.1, 117.1, 0.0); (404520.1, 3775499.0, 116.7, 116.7, 0.0);
(404570.1, 3775499.0, 116.5, 116.5, 0.0); (404620.1, 3775499.0, 116.5, 116.5, 0.0);

```
     ( 404670.1, 3775499.0,     116.4,     116.4,       0.0);         ( 404720.1,
3775499.0,     116.3,     116.3,       0.0);
     ( 404770.1, 3775499.0,     116.1,     116.1,       0.0);         ( 404820.1,
3775499.0,     116.0,     116.0,       0.0);
     ( 404870.1, 3775499.0,     115.9,     115.9,       0.0);         ( 404920.1,
3775499.0,     115.6,     115.6,       0.0);
     ( 404970.1, 3775499.0,     115.8,     115.8,       0.0);         ( 405020.1,
3775499.0,     115.6,     115.6,       0.0);
     ( 405070.1, 3775499.0,     115.5,     115.5,       0.0);         ( 405120.1,
3775499.0,     115.3,     115.3,       0.0);
     ( 405170.1, 3775499.0,     115.2,     115.2,       0.0);         ( 405220.1,
3775499.0,     115.1,     115.1,       0.0);
     ( 405270.1, 3775499.0,     115.0,     115.0,       0.0);         ( 405320.1,
3775499.0,     115.0,     115.0,       0.0);
     ( 405370.1, 3775499.0,     114.9,     114.9,       0.0);         ( 405420.1,
3775499.0,     114.9,     114.9,       0.0);
     ( 405470.1, 3775499.0,     114.9,     114.9,       0.0);         ( 405520.1,
3775499.0,     114.4,     114.4,       0.0);
     ( 405570.1, 3775499.0,     114.4,     114.4,       0.0);         ( 405620.1,
3775499.0,     113.7,     113.7,       0.0);
     ( 405670.1, 3775499.0,     113.5,     113.5,       0.0);         ( 405720.1,
3775499.0,     113.4,     113.4,       0.0);
     ( 405770.1, 3775499.0,     113.3,     113.3,       0.0);         ( 405820.1,
3775499.0,     113.1,     113.1,       0.0);
     ( 403870.1, 3775549.0,     121.8,     121.8,       0.0);         ( 403920.1,
3775549.0,     121.0,     121.0,       0.0);
     ( 403970.1, 3775549.0,     120.5,     120.5,       0.0);         ( 404020.1,
3775549.0,     120.1,     120.1,       0.0);
     ( 404070.1, 3775549.0,     119.8,     119.8,       0.0);         ( 404120.1,
3775549.0,     119.6,     119.6,       0.0);
     ( 404170.1, 3775549.0,     119.5,     119.5,       0.0);         ( 404220.1,
3775549.0,     119.2,     119.2,       0.0);
     ( 404270.1, 3775549.0,     119.2,     119.2,       0.0);         ( 404320.1,
3775549.0,     118.7,     118.7,       0.0);
     ( 404370.1, 3775549.0,     118.2,     118.2,       0.0);         ( 404420.1,
3775549.0,     117.9,     117.9,       0.0);
     ( 404470.1, 3775549.0,     117.8,     117.8,       0.0);         ( 404520.1,
3775549.0,     117.6,     117.6,       0.0);
     ( 404570.1, 3775549.0,     117.4,     117.4,       0.0);         ( 404620.1,
3775549.0,     117.0,     117.0,       0.0);
     ( 404670.1, 3775549.0,     116.7,     116.7,       0.0);         ( 404720.1,
3775549.0,     116.8,     116.8,       0.0);
     ( 404770.1, 3775549.0,     116.9,     116.9,       0.0);         ( 404820.1,
3775549.0,     116.3,     116.3,       0.0);
     ( 404870.1, 3775549.0,     116.3,     116.3,       0.0);         ( 404920.1,
3775549.0,     116.2,     116.2,       0.0);
     ( 404970.1, 3775549.0,     116.4,     116.4,       0.0);         ( 405020.1,
3775549.0,     116.0,     116.0,       0.0);
     ( 405070.1, 3775549.0,     116.1,     116.1,       0.0);         ( 405120.1,
3775549.0,     116.1,     116.1,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(405470.1, 3775549.0, 115.6, 115.6, 0.0); (405520.1, 3775549.0, 115.4, 115.4, 0.0);
(405570.1, 3775549.0, 114.8, 114.8, 0.0); (405620.1, 3775549.0, 114.6, 114.6, 0.0);
(405670.1, 3775549.0, 114.3, 114.3, 0.0); (405720.1, 3775549.0, 114.2, 114.2, 0.0);
(405770.1, 3775549.0, 113.8, 113.8, 0.0); (405820.1, 3775549.0, 113.8, 113.8, 0.0);
(403870.1, 3775599.0, 122.8, 122.8, 0.0); (403920.1, 3775599.0, 122.0, 122.0, 0.0);
(403970.1, 3775599.0, 121.3, 121.3, 0.0); (404020.1, 3775599.0, 120.9, 120.9, 0.0);
(404070.1, 3775599.0, 120.3, 120.3, 0.0); (404120.1, 3775599.0, 120.0, 120.0, 0.0);
(404170.1, 3775599.0, 119.8, 119.8, 0.0); (404220.1, 3775599.0, 119.6, 119.6, 0.0);
(404270.1, 3775599.0, 119.7, 119.7, 0.0); (404320.1, 3775599.0, 119.0, 119.0, 0.0);
(404370.1, 3775599.0, 118.4, 118.4, 0.0); (404420.1, 3775599.0, 118.5, 118.5, 0.0);
(404470.1, 3775599.0, 118.4, 118.4, 0.0); (404520.1, 3775599.0, 118.0, 118.0, 0.0);
(404570.1, 3775599.0, 118.0, 118.0, 0.0); (404620.1, 3775599.0, 117.3, 117.3, 0.0);
(404670.1, 3775599.0, 117.5, 117.5, 0.0); (404720.1, 3775599.0, 117.6, 117.6, 0.0);
(404770.1, 3775599.0, 117.0, 117.0, 0.0); (404820.1, 3775599.0, 116.7, 116.7, 0.0);
(404870.1, 3775599.0, 116.8, 116.8, 0.0); (404920.1, 3775599.0, 116.5, 116.5, 0.0);
(404970.1, 3775599.0, 116.9, 116.9, 0.0); (405020.1, 3775599.0, 116.7, 116.7, 0.0);

*** 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
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23,
10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: AZUS_V9_ADJU\AZUS_v9.SFC
Met Version: 16216
Profile file: AZUS_V9_ADJU\AZUS_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

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
12	01	01	1	01	-21.3	0.224	-9.000	-9.000	-999.	255.	55.3	0.36	1.68	1.00	1.80	20.	9.1	293.1	5.5
12	01	01	1	02	-32.6	0.342	-9.000	-9.000	-999.	481.	128.9	0.36	1.68	1.00	2.70	99.	9.1	293.1	5.5
12	01	01	1	03	-26.4	0.277	-9.000	-9.000	-999.	351.	84.1	0.36	1.68	1.00	2.20	14.	9.1	292.0	5.5
12	01	01	1	04	-32.6	0.342	-9.000	-9.000	-999.	480.	128.9	0.36	1.68	1.00	2.70	10.	9.1	292.5	5.5
12	01	01	1	05	-26.4	0.277	-9.000	-9.000	-999.	351.	84.1	0.36	1.68	1.00	2.20	12.	9.1	292.5	5.5
12	01	01	1	06	-21.6	0.224	-9.000	-9.000	-999.	256.	55.2	0.36	1.68	1.00	1.80	118.	9.1	289.2	5.5
12	01	01	1	07	-26.6	0.277	-9.000	-9.000	-999.	349.	84.1	0.36	1.68	1.00	2.20	64.	9.1	290.9	5.5
12	01	01	1	08	-1.3	0.062	-9.000	-9.000	-999.	124.	16.5	0.36	1.68	0.55	0.40	36.	9.1	290.9	5.5

```
 12 01 01   1 09   38.1  0.160  0.348  0.008   39.  153.     -9.5  0.36   1.68
0.32    0.90  124.    9.1  293.8    5.5
 12 01 01   1 10   99.5  0.179  0.693  0.007  119.  181.     -5.1  0.36   1.68
0.25    0.90   21.    9.1  298.1    5.5
 12 01 01   1 11  142.6  0.494  1.086  0.005  321.  832.    -75.2  0.36   1.68
0.22    3.60  141.    9.1  299.9    5.5
 12 01 01   1 12  162.8  0.442  1.385  0.005  582.  709.    -47.3  0.36   1.68
0.21    3.10  122.    9.1  299.9    5.5
 12 01 01   1 13  164.4  0.298  1.634  0.005  946.  405.    -14.3  0.36   1.68
0.21    1.80  114.    9.1  300.9    5.5
 12 01 01   1 14  142.7  0.293  1.718  0.005 1265.  382.    -15.8  0.36   1.68
0.22    1.80   93.    9.1  302.5    5.5
 12 01 01   1 15   96.7  0.283  1.575  0.005 1438.  361.    -20.7  0.36   1.68
0.26    1.80  110.    9.1  303.8    5.5
 12 01 01   1 16   41.5  0.207  1.201  0.005 1485.  228.    -18.9  0.36   1.68
0.35    1.30  113.    9.1  304.2    5.5
 12 01 01   1 17  -37.8  0.464 -9.000 -9.000 -999.  757.    236.3  0.36   1.68
0.62    3.60  251.    9.1  300.9    5.5
 12 01 01   1 18  -26.1  0.277 -9.000 -9.000 -999.  379.     84.2  0.36   1.68
1.00    2.20    8.    9.1  296.4    5.5
 12 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.36   1.68
1.00  999.00  999.   -9.0  295.9    5.5
 12 01 01   1 20   -5.7  0.107 -9.000 -9.000 -999.   84.     19.3  0.36   1.68
1.00    0.90   35.    9.1  295.4    5.5
 12 01 01   1 21  -21.3  0.224 -9.000 -9.000 -999.  255.     55.3  0.36   1.68
1.00    1.80  213.    9.1  293.8    5.5
 12 01 01   1 22  -21.3  0.224 -9.000 -9.000 -999.  255.     55.3  0.36   1.68
1.00    1.80   52.    9.1  293.8    5.5
 12 01 01   1 23  -26.3  0.277 -9.000 -9.000 -999.  349.     84.2  0.36   1.68
1.00    2.20   58.    9.1  293.8    5.5
 12 01 01   1 24  -21.4  0.224 -9.000 -9.000 -999.  256.     55.3  0.36   1.68
1.00    1.80   83.    9.1  292.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   293.2   99.0  -99.00  -99.00
 12 01 01 01    9.1 1   20.    1.80  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                 PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
```

INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3773649.03	0.73938	403920.14	3773649.03	0.76938
403970.14	3773649.03	0.80069	404020.14	3773649.03	0.83283
404070.14	3773649.03	0.86576	404120.14	3773649.03	0.89917
404170.14	3773649.03	0.93306	404220.14	3773649.03	0.96650
404270.14	3773649.03	1.00009	404320.14	3773649.03	1.03289
404370.14	3773649.03	1.06437	404420.14	3773649.03	1.09415
404470.14	3773649.03	1.12185	404520.14	3773649.03	1.14698
404570.14	3773649.03	1.16765	404620.14	3773649.03	1.18644
404670.14	3773649.03	1.20055	404720.14	3773649.03	1.21155
404770.14	3773649.03	1.21715	404820.14	3773649.03	1.21787
404870.14	3773649.03	1.21427	404920.14	3773649.03	1.20733
404970.14	3773649.03	1.19466	405020.14	3773649.03	1.17838
405070.14	3773649.03	1.15857	405120.14	3773649.03	1.13630
405170.14	3773649.03	1.11063	405220.14	3773649.03	1.08272
405270.14	3773649.03	1.05356	405320.14	3773649.03	1.02282
405370.14	3773649.03	0.99124	405420.14		

```
3773649.03        0.95867
         405470.14    3773649.03        0.92597                    405520.14
3773649.03        0.89354
         405570.14    3773649.03        0.85994                    405620.14
3773649.03        0.82629
         405670.14    3773649.03        0.79471                    405720.14
3773649.03        0.76487
         405770.14    3773649.03        0.73578                    405820.14
3773649.03        0.70764
         403870.14    3773699.03        0.77178                    403920.14
3773699.03        0.80491
         403970.14    3773699.03        0.83950                    404020.14
3773699.03        0.87538
         404070.14    3773699.03        0.91228                    404120.14
3773699.03        0.94999
         404170.14    3773699.03        0.98827                    404220.14
3773699.03        1.02695
         404270.14    3773699.03        1.06542                    404320.14
3773699.03        1.10334
         404370.14    3773699.03        1.14015                    404420.14
3773699.03        1.17548
         404470.14    3773699.03        1.20791                    404520.14
3773699.03        1.23750
         404570.14    3773699.03        1.26316                    404620.14
3773699.03        1.28483
         404670.14    3773699.03        1.30236                    404720.14
3773699.03        1.31371
         404770.14    3773699.03        1.32069                    404820.14
3773699.03        1.32264
         404870.14    3773699.03        1.31853                    404920.14
3773699.03        1.30992
         404970.14    3773699.03        1.29536                    405020.14
3773699.03        1.27614
         405070.14    3773699.03        1.25253                    405120.14
3773699.03        1.22598
         405170.14    3773699.03        1.19568                    405220.14
3773699.03        1.16334
         405270.14    3773699.03        1.12916                    405320.14
3773699.03        1.09337
         405370.14    3773699.03        1.05661                    405420.14
3773699.03        1.01943
         405470.14    3773699.03        0.98273                    405520.14
3773699.03        0.94532
         405570.14    3773699.03        0.90857                    405620.14
3773699.03        0.87293
         405670.14    3773699.03        0.83629                    405720.14
3773699.03        0.80235
         405770.14    3773699.03        0.76971                    405820.14
3773699.03        0.73853
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         403870.14   3773749.03   0.80561   403920.14
3773749.03   0.84239
         403970.14   3773749.03   0.88067   404020.14
3773749.03   0.92057
         404070.14   3773749.03   0.96202   404120.14
3773749.03   1.00458
         404170.14   3773749.03   1.04811   404220.14
3773749.03   1.09214
         404270.14   3773749.03   1.13666   404320.14
3773749.03   1.18052
         404370.14   3773749.03   1.22389   404420.14
3773749.03   1.26555
         404470.14   3773749.03   1.30347   404520.14
3773749.03   1.33921
         404570.14   3773749.03   1.37105   404620.14
3773749.03   1.39748
         404670.14   3773749.03   1.41730   404720.14
3773749.03   1.43278
         404770.14   3773749.03   1.44146   404820.14
3773749.03   1.44374
         404870.14   3773749.03   1.43785   404920.14
3773749.03   1.42624

404970.14 3773749.03 1.40954 405020.14
3773749.03 1.38704
405070.14 3773749.03 1.35858 405120.14
3773749.03 1.32681
405170.14 3773749.03 1.29129 405220.14
3773749.03 1.25391
405270.14 3773749.03 1.21313 405320.14
3773749.03 1.17116
405370.14 3773749.03 1.12851 405420.14
3773749.03 1.08573
405470.14 3773749.03 1.04333 405520.14
3773749.03 1.00092
405570.14 3773749.03 0.95951 405620.14
3773749.03 0.91915
405670.14 3773749.03 0.88048 405720.14
3773749.03 0.84167
405770.14 3773749.03 0.80617 405820.14
3773749.03 0.77095
403870.14 3773799.03 0.84127 403920.14
3773799.03 0.88193
403970.14 3773799.03 0.92441 404020.14
3773799.03 0.96904
404070.14 3773799.03 1.01538 404120.14
3773799.03 1.06347
404170.14 3773799.03 1.11305 404220.14
3773799.03 1.16360
404270.14 3773799.03 1.21471 404320.14
3773799.03 1.26612
404370.14 3773799.03 1.31685 404420.14
3773799.03 1.36617
404470.14 3773799.03 1.41140 404520.14
3773799.03 1.45362
404570.14 3773799.03 1.49279 404620.14
3773799.03 1.52490
404670.14 3773799.03 1.54975 404720.14
3773799.03 1.56826
404770.14 3773799.03 1.57998 404820.14
3773799.03 1.58231
404870.14 3773799.03 1.57678 404920.14
3773799.03 1.56396
404970.14 3773799.03 1.54260 405020.14
3773799.03 1.51475
405070.14 3773799.03 1.47987 405120.14
3773799.03 1.44295
405170.14 3773799.03 1.40036 405220.14
3773799.03 1.35478
405270.14 3773799.03 1.30703 405320.14
3773799.03 1.25773
405370.14 3773799.03 1.20744 405420.14
3773799.03 1.15837

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         405470.14    3773799.03        1.10921                       405520.14
3773799.03        1.06112
         405570.14    3773799.03        1.01450                       405620.14
3773799.03        0.96938
         405670.14    3773799.03        0.92548                       405720.14
3773799.03        0.88312
         405770.14    3773799.03        0.84366                       405820.14
3773799.03        0.80590
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         403870.14    3773849.03        0.87800                       403920.14
3773849.03        0.92282
         403970.14    3773849.03        0.97005                       404020.14
3773849.03        1.01986
         404070.14    3773849.03        1.07207                       404120.14
3773849.03        1.12626
         404170.14    3773849.03        1.18316                       404220.14
3773849.03        1.24147
         404270.14    3773849.03        1.30108                       404320.14
3773849.03        1.36086
         404370.14    3773849.03        1.42072                       404420.14
3773849.03        1.47900
         404470.14    3773849.03        1.53356                       404520.14
```

3773849.03 1.58147
404570.14 3773849.03 1.63204 404620.14
3773849.03 1.67284
404670.14 3773849.03 1.70336 404720.14
3773849.03 1.72616
404770.14 3773849.03 1.74022 404820.14
3773849.03 1.74322
404870.14 3773849.03 1.73708 404920.14
3773849.03 1.72066
404970.14 3773849.03 1.69552 405020.14
3773849.03 1.66067
405070.14 3773849.03 1.61974 405120.14
3773849.03 1.57364
405170.14 3773849.03 1.52318 405220.14
3773849.03 1.46939
405270.14 3773849.03 1.41259 405320.14
3773849.03 1.35452
405370.14 3773849.03 1.29584 405420.14
3773849.03 1.23765
405470.14 3773849.03 1.18058 405520.14
3773849.03 1.12538
405570.14 3773849.03 1.07242 405620.14
3773849.03 1.02137
405670.14 3773849.03 0.97291 405720.14
3773849.03 0.92645
405770.14 3773849.03 0.88279 405820.14
3773849.03 0.84125
403870.14 3773899.03 0.91603 403920.14
3773899.03 0.96549
403970.14 3773899.03 1.01789 404020.14
3773899.03 1.07344
404070.14 3773899.03 1.13218 404120.14
3773899.03 1.19373
404170.14 3773899.03 1.25869 404220.14
3773899.03 1.32576
404270.14 3773899.03 1.39511 404320.14
3773899.03 1.46543
404370.14 3773899.03 1.53598 404420.14
3773899.03 1.60596
404470.14 3773899.03 1.67247 404520.14
3773899.03 1.72211
404570.14 3773899.03 1.79258 404620.14
3773899.03 1.84306
404670.14 3773899.03 1.88282 404720.14
3773899.03 1.91127
404770.14 3773899.03 1.92833 404820.14
3773899.03 1.93280
404870.14 3773899.03 1.92458 404920.14
3773899.03 1.90511
404970.14 3773899.03 1.87335 405020.14

3773899.03   1.83092
         405070.14   3773899.03   1.78112   405120.14
3773899.03   1.72471
         405170.14   3773899.03   1.66314   405220.14
3773899.03   1.59746
         405270.14   3773899.03   1.53002   405320.14
3773899.03   1.46026
         405370.14   3773899.03   1.39199   405420.14
3773899.03   1.32426
         405470.14   3773899.03   1.25834   405520.14
3773899.03   1.19582
         405570.14   3773899.03   1.13509   405620.14
3773899.03   1.07776
         405670.14   3773899.03   1.02314   405720.14
3773899.03   0.97059
         405770.14   3773899.03   0.92230   405820.14
3773899.03   0.87677

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         403870.14   3773949.03   0.95546   403920.14
3773949.03   1.00978
         403970.14   3773949.03   1.06797   404020.14
3773949.03   1.12993

404070.14 3773949.03 1.19588 404120.14
3773949.03 1.26598
404170.14 3773949.03 1.33988 404220.14
3773949.03 1.41742
404270.14 3773949.03 1.49821 404320.14
3773949.03 1.58124
404370.14 3773949.03 1.66611 404420.14
3773949.03 1.74920
404470.14 3773949.03 1.83076 404520.14
3773949.03 1.90677
404570.14 3773949.03 1.98003 404620.14
3773949.03 2.04278
404670.14 3773949.03 2.09370 404720.14
3773949.03 2.13204
404770.14 3773949.03 2.15195 404820.14
3773949.03 2.15720
404870.14 3773949.03 2.14819 404920.14
3773949.03 2.12340
404970.14 3773949.03 2.08323 405020.14
3773949.03 2.03082
405070.14 3773949.03 1.96893 405120.14
3773949.03 1.89932
405170.14 3773949.03 1.82373 405220.14
3773949.03 1.74374
405270.14 3773949.03 1.66188 405320.14
3773949.03 1.57964
405370.14 3773949.03 1.49820 405420.14
3773949.03 1.41903
405470.14 3773949.03 1.34260 405520.14
3773949.03 1.27053
405570.14 3773949.03 1.20109 405620.14
3773949.03 1.13704
405670.14 3773949.03 1.07566 405720.14
3773949.03 1.01818
405770.14 3773949.03 0.96481 405820.14
3773949.03 0.91411
403870.14 3773999.03 0.99608 403920.14
3773999.03 1.05575
403970.14 3773999.03 1.11998 404020.14
3773999.03 1.18916
404070.14 3773999.03 1.26342 404120.14
3773999.03 1.34266
404170.14 3773999.03 1.42707 404220.14
3773999.03 1.51680
404270.14 3773999.03 1.61122 404320.14
3773999.03 1.70966
404370.14 3773999.03 1.81155 404420.14
3773999.03 1.91217
404470.14 3773999.03 2.01195 404520.14
3773999.03 2.10940

```
         404570.14    3773999.03        2.19877                       404620.14
3773999.03        2.27812
         404670.14    3773999.03        2.34336                       404720.14
3773999.03        2.39114
         404770.14    3773999.03        2.41947                       404820.14
3773999.03        2.42739
         404870.14    3773999.03        2.41632                       404920.14
3773999.03        2.38363
         404970.14    3773999.03        2.33336                       405020.14
3773999.03        2.26630
         405070.14    3773999.03        2.18894                       405120.14
3773999.03        2.10168
         405170.14    3773999.03        2.00804                       405220.14
3773999.03        1.90958
         405270.14    3773999.03        1.80959                       405320.14
3773999.03        1.71062
         405370.14    3773999.03        1.61464                       405420.14
3773999.03        1.52203
         405470.14    3773999.03        1.43371                       405520.14
3773999.03        1.35116
         405570.14    3773999.03        1.27177                       405620.14
3773999.03        1.19943
         405670.14    3773999.03        1.13059                       405720.14
3773999.03        1.06701
         405770.14    3773999.03        1.00790                       405820.14
3773999.03        0.95280
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3774049.03	1.03727	403920.14	3774049.03	1.10264
403970.14	3774049.03	1.17387	404020.14	3774049.03	1.25106
404070.14	3774049.03	1.33414	404120.14	3774049.03	1.42403
404170.14	3774049.03	1.52084	404220.14	3774049.03	1.62477
404270.14	3774049.03	1.73555	404320.14	3774049.03	1.85189
404370.14	3774049.03	1.97282	404420.14	3774049.03	2.09603
404470.14	3774049.03	2.21931	404520.14	3774049.03	2.34088
404570.14	3774049.03	2.45604	404620.14	3774049.03	2.55754
404670.14	3774049.03	2.64393	404720.14	3774049.03	2.70627
404770.14	3774049.03	2.74510	404820.14	3774049.03	2.75660
404870.14	3774049.03	2.74083	404920.14	3774049.03	2.69956
404970.14	3774049.03	2.63546	405020.14	3774049.03	2.54878
405070.14	3774049.03	2.45034	405120.14	3774049.03	2.33939
405170.14	3774049.03	2.22138	405220.14	3774049.03	2.09894
405270.14	3774049.03	1.97783	405320.14	3774049.03	1.85906
405370.14	3774049.03	1.74458	405420.14	3774049.03	1.63519
405470.14	3774049.03	1.53296	405520.14	3774049.03	1.43750
405570.14	3774049.03	1.34745	405620.14	3774049.03	1.26508
405670.14	3774049.03	1.18797	405720.14	3774049.03	1.11774
405770.14	3774049.03	1.05221	405820.14	3774049.03	0.99226
403870.14	3774099.03	1.07887	403920.14	3774099.03	1.15080
403970.14	3774099.03	1.22888	404020.14	3774099.03	1.31425
404070.14	3774099.03	1.40773	404120.14		

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3774099.03        1.50976
         404170.14    3774099.03        1.62071                          404220.14
3774099.03        1.74050
         404270.14    3774099.03        1.87023                          404320.14
3774099.03        2.00906
         404370.14    3774099.03        2.15492                          404420.14
3774099.03        2.30567
         404470.14    3774099.03        2.46139                          404520.14
3774099.03        2.61462
         404570.14    3774099.03        2.76228                          404620.14
3774099.03        2.89413
         404670.14    3774099.03        3.00781                          404720.14
3774099.03        3.09413
         404770.14    3774099.03        3.14445                          404820.14
3774099.03        3.16173
         404870.14    3774099.03        3.14380                          404920.14
3774099.03        3.09039
         404970.14    3774099.03        3.00511                          405020.14
3774099.03        2.89022
         405070.14    3774099.03        2.76199                          405120.14
3774099.03        2.61931
         405170.14    3774099.03        2.46807                          405220.14
3774099.03        2.31675
         405270.14    3774099.03        2.16754                          405320.14
3774099.03        2.02387
         405370.14    3774099.03        1.88705                          405420.14
3774099.03        1.75835
         405470.14    3774099.03        1.63911                          405520.14
3774099.03        1.52956
         405570.14    3774099.03        1.42671                          405620.14
3774099.03        1.33357
         405670.14    3774099.03        1.24794                          405720.14
3774099.03        1.17035
         405770.14    3774099.03        1.09723                          405820.14
3774099.03        1.03211
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
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, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         403870.14    3774149.03        1.12063                       403920.14
3774149.03        1.19883
         403970.14    3774149.03        1.28488                       404020.14
3774149.03        1.37950
         404070.14    3774149.03        1.48369                       404120.14
3774149.03        1.59926
         404170.14    3774149.03        1.72627                       404220.14
3774149.03        1.86524
         404270.14    3774149.03        2.01703                       404320.14
3774149.03        2.18151
         404370.14    3774149.03        2.35783                       404420.14
3774149.03        2.54383
         404470.14    3774149.03        2.73317                       404520.14
3774149.03        2.93452
         404570.14    3774149.03        3.12931                       404620.14
3774149.03        3.30409
         404670.14    3774149.03        3.45763                       404720.14
3774149.03        3.57711
         404770.14    3774149.03        3.65080                       404820.14
3774149.03        3.67423
         404870.14    3774149.03        3.65169                       404920.14
3774149.03        3.57784
         404970.14    3774149.03        3.46189                       405020.14
3774149.03        3.30764
         405070.14    3774149.03        3.13446                       405120.14
3774149.03        2.94759
         405170.14    3774149.03        2.75696                       405220.14
3774149.03        2.56664
         405270.14    3774149.03        2.38161                       405320.14
3774149.03        2.20661
         405370.14    3774149.03        2.04289                       405420.14
3774149.03        1.89134
         405470.14    3774149.03        1.75280                       405520.14
3774149.03        1.62620
         405570.14    3774149.03        1.51006                       405620.14
3774149.03        1.40488
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         405670.14    3774149.03        1.31020                      405720.14
3774149.03        1.22363
         405770.14    3774149.03        1.14324                      405820.14
3774149.03        1.07292
         403870.14    3774199.03        1.16217                      403920.14
3774199.03        1.24732
         403970.14    3774199.03        1.34152                      404020.14
3774199.03        1.44624
         404070.14    3774199.03        1.56207                      404120.14
3774199.03        1.69219
         404170.14    3774199.03        1.83617                      404220.14
3774199.03        1.99713
         404270.14    3774199.03        2.17393                      404320.14
3774199.03        2.36992
         404370.14    3774199.03        2.58484                      404420.14
3774199.03        2.81604
         404470.14    3774199.03        3.03150                      404520.14
3774199.03        3.31316
         404570.14    3774199.03        3.57018                      404620.14
3774199.03        3.80984
         404670.14    3774199.03        4.02170                      404720.14
3774199.03        4.18771
         404770.14    3774199.03        4.29364                      404820.14
3774199.03        4.33387
         404870.14    3774199.03        4.30176                      404920.14
3774199.03        4.19520
         404970.14    3774199.03        4.03374                      405020.14
3774199.03        3.82736
         405070.14    3774199.03        3.59532                      405120.14
3774199.03        3.34344
         405170.14    3774199.03        3.09550                      405220.14
3774199.03        2.85266
         405270.14    3774199.03        2.62334                      405320.14
3774199.03        2.40979
         405370.14    3774199.03        2.21289                      405420.14
3774199.03        2.03409
         405470.14    3774199.03        1.87310                      405520.14
3774199.03        1.72765
         405570.14    3774199.03        1.59658                      405620.14
3774199.03        1.47865
         405670.14    3774199.03        1.37313                      405720.14
3774199.03        1.27771
         405770.14    3774199.03        1.19026                      405820.14
3774199.03        1.11314
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***       10:28:28

                                  PAGE  32
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3774249.03	1.20271	403920.14	3774249.03	1.29456
403970.14	3774249.03	1.39733	404020.14	3774249.03	1.51235
404070.14	3774249.03	1.64140	404120.14	3774249.03	1.78691
404170.14	3774249.03	1.95073	404220.14	3774249.03	2.13495
404270.14	3774249.03	2.34185	404320.14	3774249.03	2.57554
404370.14	3774249.03	2.83557	404420.14	3774249.03	3.12311
404470.14	3774249.03	3.42859	404520.14	3774249.03	3.76703
404570.14	3774249.03	4.10710	404620.14	3774249.03	4.43887
404670.14	3774249.03	4.74197	404720.14	3774249.03	4.98197
404770.14	3774249.03	5.14049	404820.14	3774249.03	5.20917
404870.14	3774249.03	5.16138	404920.14	3774249.03	5.00620
404970.14	3774249.03	4.76911	405020.14	3774249.03	4.47983
405070.14	3774249.03	4.15729	405120.14	3774249.03	3.81903
405170.14	3774249.03	3.49255	405220.14		

3774249.03 3.18222
405270.14 3774249.03 2.89502 405320.14
3774249.03 2.63387
405370.14 3774249.03 2.39843 405420.14
3774249.03 2.18767
405470.14 3774249.03 2.00095 405520.14
3774249.03 1.83408
405570.14 3774249.03 1.68604 405620.14
3774249.03 1.55418
405670.14 3774249.03 1.43694 405720.14
3774249.03 1.33144
405770.14 3774249.03 1.23677 405820.14
3774249.03 1.15340
403870.14 3774299.03 1.24158 403920.14
3774299.03 1.34057
403970.14 3774299.03 1.45190 404020.14
3774299.03 1.57764
404070.14 3774299.03 1.72027 404120.14
3774299.03 1.88208
404170.14 3774299.03 2.06683 404220.14
3774299.03 2.27766
404270.14 3774299.03 2.51886 404320.14
3774299.03 2.79508
404370.14 3774299.03 3.11024 404420.14
3774299.03 3.46675
404470.14 3774299.03 3.86679 404520.14
3774299.03 4.30400
404570.14 3774299.03 4.76712 404620.14
3774299.03 5.23505
404670.14 3774299.03 5.67527 404720.14
3774299.03 6.04466
404770.14 3774299.03 6.28821 404820.14
3774299.03 6.39062
404870.14 3774299.03 6.31882 404920.14
3774299.03 6.08662
404970.14 3774299.03 5.73097 405020.14
3774299.03 5.31468
405070.14 3774299.03 4.85758 405120.14
3774299.03 4.39811
405170.14 3774299.03 3.95989 405220.14
3774299.03 3.55917
405270.14 3774299.03 3.19930 405320.14
3774299.03 2.87860
405370.14 3774299.03 2.59666 405420.14
3774299.03 2.34937
405470.14 3774299.03 2.13366 405520.14
3774299.03 1.94430
405570.14 3774299.03 1.77751 405620.14
3774299.03 1.63050
405670.14 3774299.03 1.50122 405720.14

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         403870.14   3774349.03   1.27808   403920.14
3774349.03   1.38416
         403970.14   3774349.03   1.50418   404020.14
3774349.03   1.64060
         404070.14   3774349.03   1.79660   404120.14
3774349.03   1.97587
         404170.14   3774349.03   2.18288   404220.14
3774349.03   2.42278
         404270.14   3774349.03   2.70141   404320.14
3774349.03   3.02632
         404370.14   3774349.03   3.40593   404420.14
3774349.03   3.84827
         404470.14   3774349.03   4.35766   404520.14
3774349.03   4.94054
         404570.14   3774349.03   5.57914   404620.14
3774349.03   6.26064
         404670.14   3774349.03   6.92769   404720.14
3774349.03   7.50325

404770.14 3774349.03 7.90275 404820.14 3774349.03 8.06898
404870.14 3774349.03 7.95727 404920.14 3774349.03 7.58878
404970.14 3774349.03 7.03569 405020.14 3774349.03 6.40971
405070.14 3774349.03 5.73384 405120.14 3774349.03 5.09000
405170.14 3774349.03 4.50567 405220.14 3774349.03 3.98776
405270.14 3774349.03 3.53576 405320.14 3774349.03 3.14422
405370.14 3774349.03 2.80781 405420.14 3774349.03 2.51901
405470.14 3774349.03 2.27080 405520.14 3774349.03 2.05664
405570.14 3774349.03 1.86957 405620.14 3774349.03 1.70672
405670.14 3774349.03 1.56500 405720.14 3774349.03 1.44083
405770.14 3774349.03 1.32970 405820.14 3774349.03 1.23300
403870.14 3774399.03 1.31128 403920.14 3774399.03 1.42407
403970.14 3774399.03 1.55269 404020.14 3774399.03 1.69989
404070.14 3774399.03 1.86927 404120.14 3774399.03 2.06603
404170.14 3774399.03 2.29580 404220.14 3774399.03 2.56572
404270.14 3774399.03 2.88455 404320.14 3774399.03 3.26526
404370.14 3774399.03 3.71763 404420.14 3774399.03 4.26328
404470.14 3774399.03 4.91333 404520.14 3774399.03 5.68821
404570.14 3774399.03 6.58402 404620.14 3774399.03 7.58332
404670.14 3774399.03 8.62410 404720.14 3774399.03 9.57819
404770.14 3774399.03 10.27295 404820.14 3774399.03 10.57044
404870.14 3774399.03 10.38539 404920.14 3774399.03 9.76422
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405170.14 3774399.03 5.13897 405220.14 3774399.03 4.46619

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         405370.14    3774399.03        3.02646                       405420.14
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         405770.14    3774399.03        1.37419                       405820.14
3774399.03        1.27078
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3774449.03        1.45994
         403970.14    3774449.03        1.59645                       404020.14
3774449.03        1.75337
         404070.14    3774449.03        1.93594                       404120.14
3774449.03        2.14929
         404170.14    3774449.03        2.40192                       404220.14
3774449.03        2.70203
         404270.14    3774449.03        3.06223                       404320.14
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3774449.03 9.31399
404670.14 3774449.03 11.00312 404720.14
3774449.03 12.66932
404770.14 3774449.03 13.99311 404820.14
3774449.03 14.57068
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3774449.03 13.08367
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3774449.03 6.93929
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405270.14 3774449.03 4.28853 405320.14
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405370.14 3774449.03 3.25225 405420.14
3774449.03 2.86736
405470.14 3774449.03 2.54773 405520.14
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405570.14 3774449.03 2.04949 405620.14
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3774449.03 1.30684
403870.14 3774499.03 1.36648 403920.14
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3774499.03 2.82525
404270.14 3774499.03 3.22826 404320.14
3774499.03 3.72623
404370.14 3774499.03 4.34809 404420.14
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404470.14 3774499.03 6.16866 404520.14
3774499.03 7.51601
404570.14 3774499.03 9.28286 404620.14
3774499.03 11.57809
404670.14 3774499.03 14.42751 404720.14
3774499.03 17.56618
404770.14 3774499.03 20.28903 404820.14

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3774499.03   12.50895
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3774499.03   4.01369
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3774499.03   1.59114
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3774499.03   1.34047

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
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, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -

403870.14 3774549.03 1.38678 403920.14 3774549.03 1.51536
403970.14 3774549.03 1.66416 404020.14 3774549.03 1.83715
404070.14 3774549.03 2.04106 404120.14 3774549.03 2.28369
404170.14 3774549.03 2.57501 404220.14 3774549.03 2.92938
404270.14 3774549.03 3.36803 404320.14 3774549.03 3.92004
404370.14 3774549.03 4.62544 404420.14 3774549.03 5.52937
404470.14 3774549.03 6.79101 404520.14 3774549.03 8.50309
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404670.14 3774549.03 19.43588 404720.14 3774549.03 25.88987
404970.14 3774549.03 21.74528 405020.14 3774549.03 16.18045
405070.14 3774549.03 12.20661 405120.14 3774549.03 9.46654
405170.14 3774549.03 7.53194 405220.14 3774549.03 6.13236
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405670.14 3774549.03 1.79707 405720.14 3774549.03 1.63427
405770.14 3774549.03 1.49316 405820.14 3774549.03 1.37135
403870.14 3774599.03 1.40148 403920.14 3774599.03 1.53316
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404170.14 3774599.03 2.63374 404220.14 3774599.03 3.00825
404270.14 3774599.03 3.47552 404320.14 3774599.03 4.07036
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3774649.03        2.09595
         404120.14    3774649.03        2.35457                       404170.14
3774649.03        2.66873
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3774649.03        3.54152
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
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404620.14	3774649.03	20.66917	404670.14	3774649.03	35.09467
404970.14	3774649.03	47.22332	405020.14	3774649.03	26.12974
405070.14	3774649.03	16.94256	405120.14	3774649.03	12.04938
405170.14	3774649.03	9.06821	405220.14	3774649.03	7.12110
405270.14	3774649.03	5.75964	405320.14	3774649.03	4.77793
405370.14	3774649.03	4.03112	405420.14	3774649.03	3.45562
405470.14	3774649.03	3.00336	405520.14	3774649.03	2.63581
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405670.14	3774649.03	1.88143	405720.14	3774649.03	1.70449
405770.14	3774649.03	1.55249	405820.14	3774649.03	1.42184
403870.14	3774699.03	1.41223	403920.14	3774699.03	1.54590
403970.14	3774699.03	1.70211	404020.14	3774699.03	1.88417
404070.14	3774699.03	2.10096	404120.14	3774699.03	2.36082
404170.14	3774699.03	2.67713	404220.14	3774699.03	3.06701
404270.14	3774699.03	3.55904	404320.14	3774699.03	4.18983
404370.14	3774699.03	5.02329	404420.14	3774699.03	6.16118
404470.14	3774699.03	7.78354	404520.14	3774699.03	10.23304
404570.14	3774699.03	14.24844	404620.14		

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3774699.03        7.37002
         405270.14    3774699.03        5.93450                       405320.14
3774699.03        4.90313
         405370.14    3774699.03        4.12930                       405420.14
3774699.03        3.53203
         405470.14    3774699.03        3.06259                       405520.14
3774699.03        2.68596
         405570.14    3774699.03        2.37766                       405620.14
3774699.03        2.12258
         405670.14    3774699.03        1.90960                       405720.14
3774699.03        1.72801
         405770.14    3774699.03        1.57242                       405820.14
3774699.03        1.43876
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3774749.03        1.87651
         404070.14    3774749.03        2.09074                       404120.14
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         404170.14    3774749.03        2.65934                       404220.14
3774749.03        3.04375
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3774749.03        4.14136
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3774749.03        9.89941
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3774749.03       66.28586
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
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, L0000003    , L0000004    , L0000005    ,
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, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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         405220.14    3774749.03        7.35519                     405270.14
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3774749.03        1.92390
         405720.14    3774749.03        1.74083                     405770.14
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3774799.03        1.27162
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3774799.03        1.65346
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         404120.14    3774799.03        2.31442                     404170.14
3774799.03        2.61577
         404220.14    3774799.03        2.98539                     404270.14
3774799.03        3.44495
         404320.14    3774799.03        4.02821                     404370.14
3774799.03        4.78246
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3774799.03       20.96277
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3774799.03       11.38460
         405170.14    3774799.03        8.84441                    405220.14
3774799.03        7.07063
         405270.14    3774799.03        5.78633                    405320.14
3774799.03        4.82998
         405370.14    3774799.03        4.09672                    405420.14
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         404670.14    3774849.03       17.61470                    404720.14
3774849.03       22.67122
         404770.14    3774849.03       27.40091                    404820.14
3774849.03       29.79806
1 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404870.14	3774849.03	28.94842	404970.14	3774849.03	20.49180
405020.14	3774849.03	16.07914	405070.14	3774849.03	12.58075
405120.14	3774849.03	9.96325	405170.14	3774849.03	8.02111
405220.14	3774849.03	6.57247	405270.14	3774849.03	5.47432
405320.14	3774849.03	4.62801	405370.14	3774849.03	3.96262
405420.14	3774849.03	3.43224	405470.14	3774849.03	3.00340
405520.14	3774849.03	2.65222	405570.14	3774849.03	2.35980
405620.14	3774849.03	2.11539	405670.14	3774849.03	1.90816
405720.14	3774849.03	1.73114	405770.14	3774849.03	1.57838
405820.14	3774849.03	1.44627	403870.14	3774899.03	1.20804
403920.14	3774899.03	1.33202	403970.14	3774899.03	1.47410
404020.14	3774899.03	1.73518	404070.14		

3774899.03 1.97137
404120.14 3774899.03 2.19748 404170.14
3774899.03 2.46399
404220.14 3774899.03 2.78383 404270.14
3774899.03 3.17209
404320.14 3774899.03 3.65143 404370.14
3774899.03 4.25027
404420.14 3774899.03 4.98920 404470.14
3774899.03 5.94446
404520.14 3774899.03 7.17306 404570.14
3774899.03 8.74526
404620.14 3774899.03 10.73221 404670.14
3774899.03 13.09871
404720.14 3774899.03 15.60626 404770.14
3774899.03 17.71770
404820.14 3774899.03 18.73714 404870.14
3774899.03 18.39888
404970.14 3774899.03 14.63470 405020.14
3774899.03 12.31925
405070.14 3774899.03 10.23315 405120.14
3774899.03 8.48933
405170.14 3774899.03 7.08082 405220.14
3774899.03 5.95822
405270.14 3774899.03 5.06324 405320.14
3774899.03 4.34630
405370.14 3774899.03 3.76633 405420.14
3774899.03 3.29286
405470.14 3774899.03 2.90309 405520.14
3774899.03 2.57821
405570.14 3774899.03 2.30552 405620.14
3774899.03 2.07431
405670.14 3774899.03 1.87716 405720.14
3774899.03 1.70751
405770.14 3774899.03 1.56017 405820.14
3774899.03 1.43216
403870.14 3774949.03 1.17391 403920.14
3774949.03 1.29004
403970.14 3774949.03 1.41742 404020.14
3774949.03 1.55303
404070.14 3774949.03 1.78130 404120.14
3774949.03 2.09952
404170.14 3774949.03 2.35790 404220.14
3774949.03 2.65362
404270.14 3774949.03 2.99943 404320.14
3774949.03 3.41651
404370.14 3774949.03 3.92363 404420.14
3774949.03 4.53927
404470.14 3774949.03 5.30051 404520.14
3774949.03 6.22433
404570.14 3774949.03 7.33755 404620.14

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         404970.14   3774949.03   10.91185   405020.14
3774949.03   9.60227
         405070.14   3774949.03   8.32176   405120.14
3774949.03   7.16275
         405170.14   3774949.03   6.16132   405220.14
3774949.03   5.31498
         405270.14   3774949.03   4.60793   405320.14
3774949.03   4.01942
         405370.14   3774949.03   3.52852   405420.14
3774949.03   3.11771
         405470.14   3774949.03   2.77202   405520.14
3774949.03   2.47929
         405570.14   3774949.03   2.23001   405620.14
3774949.03   2.01609

405670.14 3774949.03 1.83175 405720.14
3774949.03 1.67173
405770.14 3774949.03 1.53208 405820.14
3774949.03 1.40984
403870.14 3774999.03 1.13132 403920.14
3774999.03 1.23960
403970.14 3774999.03 1.36327 404020.14
3774999.03 1.49709
404070.14 3774999.03 1.65301 404120.14
3774999.03 1.91782
404170.14 3774999.03 2.22899 404220.14
3774999.03 2.51225
404270.14 3774999.03 2.81645 404320.14
3774999.03 3.17495
404370.14 3774999.03 3.59932 404420.14
3774999.03 4.10211
404470.14 3774999.03 4.69766 404520.14
3774999.03 5.39056
404570.14 3774999.03 6.18001 404620.14
3774999.03 7.04004
404670.14 3774999.03 7.92231 404720.14
3774999.03 8.72512
404770.14 3774999.03 9.33225 404820.14
3774999.03 9.61650
404870.14 3774999.03 9.53344 404920.14
3774999.03 9.11353
404970.14 3774999.03 8.43975 405020.14
3774999.03 7.64997
405070.14 3774999.03 6.83276 405120.14
3774999.03 6.04683
405170.14 3774999.03 5.33335 405220.14
3774999.03 4.70165
405270.14 3774999.03 4.15195 405320.14
3774999.03 3.67777
405370.14 3774999.03 3.27062 405420.14
3774999.03 2.92115
405470.14 3774999.03 2.62090 405520.14
3774999.03 2.36223
405570.14 3774999.03 2.13835 405620.14
3774999.03 1.94402
405670.14 3774999.03 1.77441 405720.14
3774999.03 1.62590
405770.14 3774999.03 1.49508 405820.14
3774999.03 1.37978
403870.14 3775049.03 1.07804 403920.14
3775049.03 1.17358
403970.14 3775049.03 1.28906 404020.14
3775049.03 1.41620
404070.14 3775049.03 1.56800 404120.14
3775049.03 1.72462

```
         404170.14    3775049.03        1.91541                      404220.14
3775049.03        2.25459
         404270.14    3775049.03        2.61752                      404320.14
3775049.03        2.93499
         404370.14    3775049.03        3.28699                      404420.14
3775049.03        3.69256
         404470.14    3775049.03        4.15545                      404520.14
3775049.03        4.67487
         404570.14    3775049.03        5.24121                      404620.14
3775049.03        5.83009
         404670.14    3775049.03        6.40597                      404720.14
3775049.03        6.90788
         404770.14    3775049.03        7.27660                      404820.14
3775049.03        7.44448
         404870.14    3775049.03        7.39547                      404920.14
3775049.03        7.14546
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         404970.14    3775049.03        6.72984                      405020.14
3775049.03        6.22498
         405070.14    3775049.03        5.68256                      405120.14
3775049.03        5.13599
         405170.14    3775049.03        4.62135                      405220.14
```

3775049.03 4.14797
405270.14 3775049.03 3.72242 405320.14
3775049.03 3.34316
405370.14 3775049.03 3.00962 405420.14
3775049.03 2.71652
405470.14 3775049.03 2.45939 405520.14
3775049.03 2.23390
405570.14 3775049.03 2.03588 405620.14
3775049.03 1.86159
405670.14 3775049.03 1.70786 405720.14
3775049.03 1.57173
405770.14 3775049.03 1.45084 405820.14
3775049.03 1.34333
403870.14 3775099.03 1.03023 403920.14
3775099.03 1.12040
403970.14 3775099.03 1.21992 404020.14
3775099.03 1.34099
404070.14 3775099.03 1.47805 404120.14
3775099.03 1.62513
404170.14 3775099.03 1.79396 404220.14
3775099.03 1.99610
404270.14 3775099.03 2.32179 404320.14
3775099.03 2.66005
404370.14 3775099.03 2.95724 404420.14
3775099.03 3.22937
404470.14 3775099.03 3.53797 404520.14
3775099.03 4.07290
404570.14 3775099.03 4.48408 404620.14
3775099.03 4.89660
404670.14 3775099.03 5.28459 404720.14
3775099.03 5.61282
404770.14 3775099.03 5.85190 404820.14
3775099.03 5.95875
404870.14 3775099.03 5.92756 404920.14
3775099.03 5.77006
404970.14 3775099.03 5.50093 405020.14
3775099.03 5.16313
405070.14 3775099.03 4.78975 405120.14
3775099.03 4.40094
405170.14 3775099.03 4.02277 405220.14
3775099.03 3.66440
405270.14 3775099.03 3.33337 405320.14
3775099.03 3.03052
405370.14 3775099.03 2.75793 405420.14
3775099.03 2.51365
405470.14 3775099.03 2.29528 405520.14
3775099.03 2.10074
405570.14 3775099.03 1.92732 405620.14
3775099.03 1.77272
405670.14 3775099.03 1.63469 405720.14

3775099.03   1.51128
         405770.14   3775099.03   1.40070   405820.14
3775099.03   1.30144
         403870.14   3775149.03   0.98172   403920.14
3775149.03   1.06141
         403970.14   3775149.03   1.14551   404020.14
3775149.03   1.25165
         404070.14   3775149.03   1.37722   404120.14
3775149.03   1.51624
         404170.14   3775149.03   1.66839   404220.14
3775149.03   1.84278
         404270.14   3775149.03   2.02474   404320.14
3775149.03   2.25325
         404370.14   3775149.03   2.47311   404420.14
3775149.03   2.71939
         404470.14   3775149.03   2.92575   404520.14
3775149.03   3.37222
         404570.14   3775149.03   3.46755   404620.14
3775149.03   3.96223
         404670.14   3775149.03   4.40489   404720.14
3775149.03   4.66427
         404770.14   3775149.03   4.82403   404820.14
3775149.03   4.89275
         404870.14   3775149.03   4.87391   404920.14
3775149.03   4.77010

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775149.03	4.58840	405020.14	3775149.03	4.35538
405070.14	3775149.03	4.08986	405120.14	3775149.03	3.80593
405170.14	3775149.03	3.52279	405220.14	3775149.03	3.24743
405270.14	3775149.03	2.98815	405320.14	3775149.03	2.74507
405370.14	3775149.03	2.52305	405420.14	3775149.03	2.31921
405470.14	3775149.03	2.13495	405520.14	3775149.03	1.96796
405570.14	3775149.03	1.81705	405620.14	3775149.03	1.68087
405670.14	3775149.03	1.55791	405720.14	3775149.03	1.44689
405770.14	3775149.03	1.34658	405820.14	3775149.03	1.25572
403870.14	3775199.03	0.94368	403920.14	3775199.03	1.02031
403970.14	3775199.03	1.10741	404020.14	3775199.03	1.20205
404070.14	3775199.03	1.30879	404120.14	3775199.03	1.41159
404170.14	3775199.03	1.54348	404220.14	3775199.03	1.70126
404270.14	3775199.03	1.86064	404320.14	3775199.03	2.02561
404370.14	3775199.03	2.20207	404420.14	3775199.03	2.37279
404470.14	3775199.03	2.57151	404520.14	3775199.03	2.79086
404570.14	3775199.03	2.99179	404620.14	3775199.03	3.31401
404670.14	3775199.03	3.59005	404720.14	3775199.03	3.88982
404770.14	3775199.03	4.05523	404820.14	3775199.03	4.10301
404870.14	3775199.03	4.09066	404920.14	3775199.03	4.01884
404970.14	3775199.03	3.89095	405020.14	3775199.03	3.72461
405070.14	3775199.03	3.53042	405120.14	3775199.03	3.32052
405170.14	3775199.03	3.10481	405220.14	3775199.03	2.89135

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         405270.14    3775199.03        2.68567                      405320.14
3775199.03        2.49021
         405370.14    3775199.03        2.30816                      405420.14
3775199.03        2.13787
         405470.14    3775199.03        1.98197                      405520.14
3775199.03        1.83904
         405570.14    3775199.03        1.70831                      405620.14
3775199.03        1.58891
         405670.14    3775199.03        1.47993                      405720.14
3775199.03        1.38062
         405770.14    3775199.03        1.29013                      405820.14
3775199.03        1.20750
         403870.14    3775249.03        0.89093                      403920.14
3775249.03        0.95541
         403970.14    3775249.03        1.02460                      404020.14
3775249.03        1.11201
         404070.14    3775249.03        1.20176                      404120.14
3775249.03        1.30429
         404170.14    3775249.03        1.42596                      404220.14
3775249.03        1.56208
         404270.14    3775249.03        1.67744                      404320.14
3775249.03        1.84223
         404370.14    3775249.03        1.98710                      404420.14
3775249.03        2.10294
         404470.14    3775249.03        2.25774                      404520.14
3775249.03        2.44331
         404570.14    3775249.03        2.59780                      404620.14
3775249.03        2.76970
         404670.14    3775249.03        3.01713                      404720.14
3775249.03        3.26422
         404770.14    3775249.03        3.42593                      404820.14
3775249.03        3.49968
         404870.14    3775249.03        3.49119                      404920.14
3775249.03        3.43924
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775249.03	3.34674	405020.14	3775249.03	3.22499
405070.14	3775249.03	3.08047	405120.14	3775249.03	2.92078
405170.14	3775249.03	2.75343	405220.14	3775249.03	2.58653
405270.14	3775249.03	2.42253	405320.14	3775249.03	2.26418
405370.14	3775249.03	2.11342	405420.14	3775249.03	1.97175
405470.14	3775249.03	1.83964	405520.14	3775249.03	1.71682
405570.14	3775249.03	1.60369	405620.14	3775249.03	1.49892
405670.14	3775249.03	1.40266	405720.14	3775249.03	1.31416
405770.14	3775249.03	1.23283	405820.14	3775249.03	1.15801
403870.14	3775299.03	0.84261	403920.14	3775299.03	0.90322
403970.14	3775299.03	0.96535	404020.14	3775299.03	1.03575
404070.14	3775299.03	1.12151	404120.14	3775299.03	1.21139
404170.14	3775299.03	1.31582	404220.14	3775299.03	1.44622
404270.14	3775299.03	1.54690	404320.14	3775299.03	1.65881
404370.14	3775299.03	1.77450	404420.14	3775299.03	1.88233
404470.14	3775299.03	2.02551	404520.14	3775299.03	2.17121
404570.14	3775299.03	2.30585	404620.14	3775299.03	2.42835
404670.14	3775299.03	2.53505	404720.14	3775299.03	2.63219
404770.14	3775299.03	2.82829	404820.14		

3775299.03 2.93989
  404870.14 3775299.03 2.98678 404920.14
3775299.03 2.96587
  404970.14 3775299.03 2.91476 405020.14
3775299.03 2.82313
  405070.14 3775299.03 2.71323 405120.14
3775299.03 2.59029
  405170.14 3775299.03 2.45996 405220.14
3775299.03 2.32641
  405270.14 3775299.03 2.19382 405320.14
3775299.03 2.06410
  405370.14 3775299.03 1.93915 405420.14
3775299.03 1.82014
  405470.14 3775299.03 1.70791 405520.14
3775299.03 1.60262
  405570.14 3775299.03 1.50433 405620.14
3775299.03 1.41278
  405670.14 3775299.03 1.32774 405720.14
3775299.03 1.24890
  405770.14 3775299.03 1.17589 405820.14
3775299.03 1.10830
  403870.14 3775349.03 0.79902 403920.14
3775349.03 0.85252
  403970.14 3775349.03 0.91072 404020.14
3775349.03 0.98271
  404070.14 3775349.03 1.06437 404120.14
3775349.03 1.15355
  404170.14 3775349.03 1.21622 404220.14
3775349.03 1.31367
  404270.14 3775349.03 1.40256 404320.14
3775349.03 1.49643
  404370.14 3775349.03 1.63479 404420.14
3775349.03 1.68996
  404470.14 3775349.03 1.81551 404520.14
3775349.03 1.93268
  404570.14 3775349.03 2.03717 404620.14
3775349.03 2.13841
  404670.14 3775349.03 2.21949 404720.14
3775349.03 2.28199
  404770.14 3775349.03 2.33599 404820.14
3775349.03 2.37234
  404870.14 3775349.03 2.35293 404920.14
3775349.03 2.47162

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775349.03	2.39514	405020.14	3775349.03	2.25775
405070.14	3775349.03	2.33645	405120.14	3775349.03	2.17273
405170.14	3775349.03	2.07228	405220.14	3775349.03	1.99590
405270.14	3775349.03	1.97552	405320.14	3775349.03	1.88705
405370.14	3775349.03	1.78278	405420.14	3775349.03	1.68257
405470.14	3775349.03	1.58683	405520.14	3775349.03	1.49621
405570.14	3775349.03	1.41074	405620.14	3775349.03	1.33043
405670.14	3775349.03	1.25535	405720.14	3775349.03	1.18542
405770.14	3775349.03	1.12006	405820.14	3775349.03	1.05913
403870.14	3775399.03	0.75879	403920.14	3775399.03	0.80833
403970.14	3775399.03	0.86002	404020.14	3775399.03	0.92886
404070.14	3775399.03	0.99427	404120.14	3775399.03	1.06463
404170.14	3775399.03	1.13631	404220.14	3775399.03	1.20642
404270.14	3775399.03	1.27765	404320.14	3775399.03	1.35010

404370.14 3775399.03 1.50612 404420.14
3775399.03 1.58750
404470.14 3775399.03 1.66362 404520.14
3775399.03 1.73661
404570.14 3775399.03 1.79876 404620.14
3775399.03 1.88165
404670.14 3775399.03 1.95973 404720.14
3775399.03 2.01522
404770.14 3775399.03 2.04883 404820.14
3775399.03 2.05627
404870.14 3775399.03 2.07427 404920.14
3775399.03 2.07003
404970.14 3775399.03 2.04968 405020.14
3775399.03 2.00511
405070.14 3775399.03 1.97083 405120.14
3775399.03 1.89003
405170.14 3775399.03 1.86408 405220.14
3775399.03 1.82409
405270.14 3775399.03 1.77328 405320.14
3775399.03 1.71376
405370.14 3775399.03 1.63349 405420.14
3775399.03 1.55855
405470.14 3775399.03 1.47662 405520.14
3775399.03 1.39820
405570.14 3775399.03 1.32380 405620.14
3775399.03 1.25379
405670.14 3775399.03 1.18740 405720.14
3775399.03 1.12479
405770.14 3775399.03 1.06609 405820.14
3775399.03 1.01107
403870.14 3775449.03 0.71718 403920.14
3775449.03 0.76696
403970.14 3775449.03 0.81675 404020.14
3775449.03 0.87368
404070.14 3775449.03 0.93481 404120.14
3775449.03 0.99032
404170.14 3775449.03 1.05201 404220.14
3775449.03 1.11375
404270.14 3775449.03 1.16463 404320.14
3775449.03 1.23694
404370.14 3775449.03 1.31548 404420.14
3775449.03 1.39233
404470.14 3775449.03 1.47523 404520.14
3775449.03 1.55008
404570.14 3775449.03 1.61270 404620.14
3775449.03 1.68019
404670.14 3775449.03 1.74144 404720.14
3775449.03 1.77932
404770.14 3775449.03 1.81041 404820.14
3775449.03 1.82745

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775449.03	1.80857	405020.14	3775449.03	1.77078
405070.14	3775449.03	1.73286	405120.14	3775449.03	1.68635
405170.14	3775449.03	1.63401	405220.14	3775449.03	1.58166
405270.14	3775449.03	1.52954	405320.14	3775449.03	1.51539
405370.14	3775449.03	1.45540	405420.14	3775449.03	1.37697
405470.14	3775449.03	1.33440	405520.14	3775449.03	1.27832
405570.14	3775449.03	1.23626	405620.14	3775449.03	1.18134
405670.14	3775449.03	1.12247	405720.14	3775449.03	1.06678
405770.14	3775449.03	1.01435	405820.14	3775449.03	0.96486
403870.14	3775499.03	0.68136	403920.14		

3775499.03 0.72715
403970.14 3775499.03 0.77205 404020.14
3775499.03 0.82333
404070.14 3775499.03 0.87472 404120.14
3775499.03 0.92248
404170.14 3775499.03 0.97466 404220.14
3775499.03 1.02592
404270.14 3775499.03 1.07137 404320.14
3775499.03 1.14435
404370.14 3775499.03 1.20710 404420.14
3775499.03 1.27499
404470.14 3775499.03 1.34043 404520.14
3775499.03 1.40991
404570.14 3775499.03 1.46628 404620.14
3775499.03 1.50885
404670.14 3775499.03 1.54874 404720.14
3775499.03 1.57960
404770.14 3775499.03 1.61063 404820.14
3775499.03 1.62617
404870.14 3775499.03 1.63344 404920.14
3775499.03 1.63459
404970.14 3775499.03 1.61045 405020.14
3775499.03 1.58947
405070.14 3775499.03 1.56119 405120.14
3775499.03 1.52500
405170.14 3775499.03 1.48586 405220.14
3775499.03 1.44008
405270.14 3775499.03 1.39472 405320.14
3775499.03 1.34574
405370.14 3775499.03 1.29912 405420.14
3775499.03 1.25265
405470.14 3775499.03 1.20658 405520.14
3775499.03 1.17416
405570.14 3775499.03 1.13477 405620.14
3775499.03 1.11070
405670.14 3775499.03 1.06212 405720.14
3775499.03 1.01244
405770.14 3775499.03 0.96530 405820.14
3775499.03 0.92059
403870.14 3775549.03 0.65103 403920.14
3775549.03 0.69624
403970.14 3775549.03 0.73529 404020.14
3775549.03 0.77742
404070.14 3775549.03 0.81883 404120.14
3775549.03 0.86145
404170.14 3775549.03 0.90416 404220.14
3775549.03 0.95115
404270.14 3775549.03 0.99528 404320.14
3775549.03 1.04986
404370.14 3775549.03 1.10974 404420.14

3775549.03   1.16204
         404470.14   3775549.03   1.20595   404520.14
3775549.03   1.25374
         404570.14   3775549.03   1.29863   404620.14
3775549.03   1.35127
         404670.14   3775549.03   1.39044   404720.14
3775549.03   1.41123
         404770.14   3775549.03   1.42054   404820.14
3775549.03   1.45958
         404870.14   3775549.03   1.45925   404920.14
3775549.03   1.45765

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         404970.14   3775549.03   1.43394   405020.14
3775549.03   1.42859
         405070.14   3775549.03   1.39940   405120.14
3775549.03   1.37027
         405170.14   3775549.03   1.34430   405220.14
3775549.03   1.31007
         405270.14   3775549.03   1.27805   405320.14
3775549.03   1.23858
         405370.14   3775549.03   1.19349   405420.14
3775549.03   1.14697

```
         405470.14    3775549.03        1.11043                      405520.14
3775549.03        1.07561
         405570.14    3775549.03        1.04435                      405620.14
3775549.03        1.00987
         405670.14    3775549.03        0.98531                      405720.14
3775549.03        0.94685
         405770.14    3775549.03        0.91658                      405820.14
3775549.03        0.87699
         403870.14    3775599.03        0.60648                      403920.14
3775599.03        0.64637
         403970.14    3775599.03        0.68829                      404020.14
3775599.03        0.72566
         404070.14    3775599.03        0.76788                      404120.14
3775599.03        0.80610
         404170.14    3775599.03        0.84404                      404220.14
3775599.03        0.88545
         404270.14    3775599.03        0.91971                      404320.14
3775599.03        0.97112
         404370.14    3775599.03        1.02273                      404420.14
3775599.03        1.05842
         404470.14    3775599.03        1.09702                      404520.14
3775599.03        1.13951
         404570.14    3775599.03        1.17157                      404620.14
3775599.03        1.22137
         404670.14    3775599.03        1.23673                      404720.14
3775599.03        1.25309
         404770.14    3775599.03        1.28850                      404820.14
3775599.03        1.31016
         404870.14    3775599.03        1.30667                      404920.14
3775599.03        1.31175
         404970.14    3775599.03        1.28682                      405020.14
3775599.03        1.27772
         405070.14    3775599.03        1.25443                      405120.14
3775599.03        1.24804
         405170.14    3775599.03        1.21838                      405220.14
3775599.03        1.19566
         405270.14    3775599.03        1.15845                      405320.14
3775599.03        1.13103
         405370.14    3775599.03        1.08735                      405420.14
3775599.03        1.05749
         405470.14    3775599.03        1.02711                      405520.14
3775599.03        0.99886
         405570.14    3775599.03        0.97240                      405620.14
3775599.03        0.94322
         405670.14    3775599.03        0.91867                      405720.14
3775599.03        0.89076
         405770.14    3775599.03        0.86628                      405820.14
3775599.03        0.83229
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3773649.03 1.17838
405070.14 3773649.03 1.15857 405120.14
3773649.03 1.13630
405170.14 3773649.03 1.11063 405220.14
3773649.03 1.08272
405270.14 3773649.03 1.05356 405320.14
3773649.03 1.02282
405370.14 3773649.03 0.99124 405420.14
3773649.03 0.95867
405470.14 3773649.03 0.92597 405520.14
3773649.03 0.89354
405570.14 3773649.03 0.85994 405620.14
3773649.03 0.82629
405670.14 3773649.03 0.79471 405720.14
3773649.03 0.76487
405770.14 3773649.03 0.73578 405820.14
3773649.03 0.70764
403870.14 3773699.03 0.77178 403920.14
3773699.03 0.80491
403970.14 3773699.03 0.83950 404020.14
3773699.03 0.87538
404070.14 3773699.03 0.91228 404120.14
3773699.03 0.94999
404170.14 3773699.03 0.98827 404220.14
3773699.03 1.02695
404270.14 3773699.03 1.06542 404320.14
3773699.03 1.10334
404370.14 3773699.03 1.14015 404420.14
3773699.03 1.17548
404470.14 3773699.03 1.20791 404520.14
3773699.03 1.23750
404570.14 3773699.03 1.26316 404620.14
3773699.03 1.28483
404670.14 3773699.03 1.30236 404720.14
3773699.03 1.31371
404770.14 3773699.03 1.32069 404820.14
3773699.03 1.32264
404870.14 3773699.03 1.31853 404920.14
3773699.03 1.30992
404970.14 3773699.03 1.29536 405020.14
3773699.03 1.27614
405070.14 3773699.03 1.25253 405120.14
3773699.03 1.22598
405170.14 3773699.03 1.19568 405220.14
3773699.03 1.16334
405270.14 3773699.03 1.12916 405320.14
3773699.03 1.09337
405370.14 3773699.03 1.05661 405420.14
3773699.03 1.01943
405470.14 3773699.03 0.98273 405520.14

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         403870.14   3773749.03   0.80561   403920.14
3773749.03   0.84239
         403970.14   3773749.03   0.88067   404020.14
3773749.03   0.92057
         404070.14   3773749.03   0.96202   404120.14
3773749.03   1.00458
         404170.14   3773749.03   1.04811   404220.14
3773749.03   1.09214
         404270.14   3773749.03   1.13666   404320.14
3773749.03   1.18052
         404370.14   3773749.03   1.22389   404420.14
3773749.03   1.26555
         404470.14   3773749.03   1.30347   404520.14
3773749.03   1.33921

404570.14 3773749.03 1.37105 404620.14
3773749.03 1.39748
404670.14 3773749.03 1.41730 404720.14
3773749.03 1.43278
404770.14 3773749.03 1.44146 404820.14
3773749.03 1.44374
404870.14 3773749.03 1.43785 404920.14
3773749.03 1.42624
404970.14 3773749.03 1.40954 405020.14
3773749.03 1.38704
405070.14 3773749.03 1.35858 405120.14
3773749.03 1.32681
405170.14 3773749.03 1.29129 405220.14
3773749.03 1.25391
405270.14 3773749.03 1.21313 405320.14
3773749.03 1.17116
405370.14 3773749.03 1.12851 405420.14
3773749.03 1.08573
405470.14 3773749.03 1.04333 405520.14
3773749.03 1.00092
405570.14 3773749.03 0.95951 405620.14
3773749.03 0.91915
405670.14 3773749.03 0.88048 405720.14
3773749.03 0.84167
405770.14 3773749.03 0.80617 405820.14
3773749.03 0.77095
403870.14 3773799.03 0.84127 403920.14
3773799.03 0.88193
403970.14 3773799.03 0.92441 404020.14
3773799.03 0.96904
404070.14 3773799.03 1.01538 404120.14
3773799.03 1.06347
404170.14 3773799.03 1.11305 404220.14
3773799.03 1.16360
404270.14 3773799.03 1.21471 404320.14
3773799.03 1.26612
404370.14 3773799.03 1.31685 404420.14
3773799.03 1.36617
404470.14 3773799.03 1.41140 404520.14
3773799.03 1.45362
404570.14 3773799.03 1.49279 404620.14
3773799.03 1.52490
404670.14 3773799.03 1.54975 404720.14
3773799.03 1.56826
404770.14 3773799.03 1.57998 404820.14
3773799.03 1.58231
404870.14 3773799.03 1.57678 404920.14
3773799.03 1.56396
404970.14 3773799.03 1.54260 405020.14
3773799.03 1.51475

```
         405070.14    3773799.03        1.47987                      405120.14
3773799.03        1.44295
         405170.14    3773799.03        1.40036                      405220.14
3773799.03        1.35478
         405270.14    3773799.03        1.30703                      405320.14
3773799.03        1.25773
         405370.14    3773799.03        1.20744                      405420.14
3773799.03        1.15837
         405470.14    3773799.03        1.10921                      405520.14
3773799.03        1.06112
         405570.14    3773799.03        1.01450                      405620.14
3773799.03        0.96938
         405670.14    3773799.03        0.92548                      405720.14
3773799.03        0.88312
         405770.14    3773799.03        0.84366                      405820.14
3773799.03        0.80590
```



```
                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         403870.14    3773849.03        0.87800                      403920.14
3773849.03        0.92282
         403970.14    3773849.03        0.97005                      404020.14
3773849.03        1.01986
         404070.14    3773849.03        1.07207                      404120.14
```

3773849.03 1.12626
404170.14 3773849.03 1.18316 404220.14
3773849.03 1.24147
404270.14 3773849.03 1.30108 404320.14
3773849.03 1.36086
404370.14 3773849.03 1.42072 404420.14
3773849.03 1.47900
404470.14 3773849.03 1.53356 404520.14
3773849.03 1.58147
404570.14 3773849.03 1.63204 404620.14
3773849.03 1.67284
404670.14 3773849.03 1.70336 404720.14
3773849.03 1.72616
404770.14 3773849.03 1.74022 404820.14
3773849.03 1.74322
404870.14 3773849.03 1.73708 404920.14
3773849.03 1.72066
404970.14 3773849.03 1.69552 405020.14
3773849.03 1.66067
405070.14 3773849.03 1.61974 405120.14
3773849.03 1.57364
405170.14 3773849.03 1.52318 405220.14
3773849.03 1.46939
405270.14 3773849.03 1.41259 405320.14
3773849.03 1.35452
405370.14 3773849.03 1.29584 405420.14
3773849.03 1.23765
405470.14 3773849.03 1.18058 405520.14
3773849.03 1.12538
405570.14 3773849.03 1.07242 405620.14
3773849.03 1.02137
405670.14 3773849.03 0.97291 405720.14
3773849.03 0.92645
405770.14 3773849.03 0.88279 405820.14
3773849.03 0.84125
403870.14 3773899.03 0.91603 403920.14
3773899.03 0.96549
403970.14 3773899.03 1.01789 404020.14
3773899.03 1.07344
404070.14 3773899.03 1.13218 404120.14
3773899.03 1.19373
404170.14 3773899.03 1.25869 404220.14
3773899.03 1.32576
404270.14 3773899.03 1.39511 404320.14
3773899.03 1.46543
404370.14 3773899.03 1.53598 404420.14
3773899.03 1.60596
404470.14 3773899.03 1.67247 404520.14
3773899.03 1.72211
404570.14 3773899.03 1.79258 404620.14

3773899.03   1.84306
         404670.14   3773899.03   1.88282   404720.14
3773899.03   1.91127
         404770.14   3773899.03   1.92833   404820.14
3773899.03   1.93280
         404870.14   3773899.03   1.92458   404920.14
3773899.03   1.90511
         404970.14   3773899.03   1.87335   405020.14
3773899.03   1.83092
         405070.14   3773899.03   1.78112   405120.14
3773899.03   1.72471
         405170.14   3773899.03   1.66314   405220.14
3773899.03   1.59746
         405270.14   3773899.03   1.53002   405320.14
3773899.03   1.46026
         405370.14   3773899.03   1.39199   405420.14
3773899.03   1.32426
         405470.14   3773899.03   1.25834   405520.14
3773899.03   1.19582
         405570.14   3773899.03   1.13509   405620.14
3773899.03   1.07776
         405670.14   3773899.03   1.02314   405720.14
3773899.03   0.97059
         405770.14   3773899.03   0.92230   405820.14
3773899.03   0.87677

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3773949.03	0.95546	403920.14	3773949.03	1.00978
403970.14	3773949.03	1.06797	404020.14	3773949.03	1.12993
404070.14	3773949.03	1.19588	404120.14	3773949.03	1.26598
404170.14	3773949.03	1.33988	404220.14	3773949.03	1.41742
404270.14	3773949.03	1.49821	404320.14	3773949.03	1.58124
404370.14	3773949.03	1.66611	404420.14	3773949.03	1.74920
404470.14	3773949.03	1.83076	404520.14	3773949.03	1.90677
404570.14	3773949.03	1.98003	404620.14	3773949.03	2.04278
404670.14	3773949.03	2.09370	404720.14	3773949.03	2.13204
404770.14	3773949.03	2.15195	404820.14	3773949.03	2.15720
404870.14	3773949.03	2.14819	404920.14	3773949.03	2.12340
404970.14	3773949.03	2.08323	405020.14	3773949.03	2.03082
405070.14	3773949.03	1.96893	405120.14	3773949.03	1.89932
405170.14	3773949.03	1.82373	405220.14	3773949.03	1.74374
405270.14	3773949.03	1.66188	405320.14	3773949.03	1.57964
405370.14	3773949.03	1.49820	405420.14	3773949.03	1.41903
405470.14	3773949.03	1.34260	405520.14	3773949.03	1.27053
405570.14	3773949.03	1.20109	405620.14	3773949.03	1.13704
405670.14	3773949.03	1.07566	405720.14	3773949.03	1.01818
405770.14	3773949.03	0.96481	405820.14	3773949.03	0.91411
403870.14	3773999.03	0.99608	403920.14	3773999.03	1.05575
403970.14	3773999.03	1.11998	404020.14	3773999.03	1.18916
404070.14	3773999.03	1.26342	404120.14	3773999.03	1.34266

```
         404170.14    3773999.03        1.42707                        404220.14
3773999.03        1.51680
         404270.14    3773999.03        1.61122                        404320.14
3773999.03        1.70966
         404370.14    3773999.03        1.81155                        404420.14
3773999.03        1.91217
         404470.14    3773999.03        2.01195                        404520.14
3773999.03        2.10940
         404570.14    3773999.03        2.19877                        404620.14
3773999.03        2.27812
         404670.14    3773999.03        2.34336                        404720.14
3773999.03        2.39114
         404770.14    3773999.03        2.41947                        404820.14
3773999.03        2.42739
         404870.14    3773999.03        2.41632                        404920.14
3773999.03        2.38363
         404970.14    3773999.03        2.33336                        405020.14
3773999.03        2.26630
         405070.14    3773999.03        2.18894                        405120.14
3773999.03        2.10168
         405170.14    3773999.03        2.00804                        405220.14
3773999.03        1.90958
         405270.14    3773999.03        1.80959                        405320.14
3773999.03        1.71062
         405370.14    3773999.03        1.61464                        405420.14
3773999.03        1.52203
         405470.14    3773999.03        1.43371                        405520.14
3773999.03        1.35116
         405570.14    3773999.03        1.27177                        405620.14
3773999.03        1.19943
         405670.14    3773999.03        1.13059                        405720.14
3773999.03        1.06701
         405770.14    3773999.03        1.00790                        405820.14
3773999.03        0.95280
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
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L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3774049.03	1.03727	403920.14	3774049.03	1.10264
403970.14	3774049.03	1.17387	404020.14	3774049.03	1.25106
404070.14	3774049.03	1.33414	404120.14	3774049.03	1.42403
404170.14	3774049.03	1.52084	404220.14	3774049.03	1.62477
404270.14	3774049.03	1.73555	404320.14	3774049.03	1.85189
404370.14	3774049.03	1.97282	404420.14	3774049.03	2.09603
404470.14	3774049.03	2.21931	404520.14	3774049.03	2.34088
404570.14	3774049.03	2.45604	404620.14	3774049.03	2.55754
404670.14	3774049.03	2.64393	404720.14	3774049.03	2.70627
404770.14	3774049.03	2.74510	404820.14	3774049.03	2.75660
404870.14	3774049.03	2.74083	404920.14	3774049.03	2.69956
404970.14	3774049.03	2.63546	405020.14	3774049.03	2.54878
405070.14	3774049.03	2.45034	405120.14	3774049.03	2.33939
405170.14	3774049.03	2.22138	405220.14	3774049.03	2.09894
405270.14	3774049.03	1.97783	405320.14	3774049.03	1.85906
405370.14	3774049.03	1.74458	405420.14	3774049.03	1.63519
405470.14	3774049.03	1.53296	405520.14	3774049.03	1.43750
405570.14	3774049.03	1.34745	405620.14	3774049.03	1.26508
405670.14	3774049.03	1.18797	405720.14		

3774049.03   1.11774
         405770.14   3774049.03   1.05221   405820.14
3774049.03   0.99226
         403870.14   3774099.03   1.07887   403920.14
3774099.03   1.15080
         403970.14   3774099.03   1.22888   404020.14
3774099.03   1.31425
         404070.14   3774099.03   1.40773   404120.14
3774099.03   1.50976
         404170.14   3774099.03   1.62071   404220.14
3774099.03   1.74050
         404270.14   3774099.03   1.87023   404320.14
3774099.03   2.00906
         404370.14   3774099.03   2.15492   404420.14
3774099.03   2.30567
         404470.14   3774099.03   2.46139   404520.14
3774099.03   2.61462
         404570.14   3774099.03   2.76228   404620.14
3774099.03   2.89413
         404670.14   3774099.03   3.00781   404720.14
3774099.03   3.09413
         404770.14   3774099.03   3.14445   404820.14
3774099.03   3.16173
         404870.14   3774099.03   3.14380   404920.14
3774099.03   3.09039
         404970.14   3774099.03   3.00511   405020.14
3774099.03   2.89022
         405070.14   3774099.03   2.76199   405120.14
3774099.03   2.61931
         405170.14   3774099.03   2.46807   405220.14
3774099.03   2.31675
         405270.14   3774099.03   2.16754   405320.14
3774099.03   2.02387
         405370.14   3774099.03   1.88705   405420.14
3774099.03   1.75835
         405470.14   3774099.03   1.63911   405520.14
3774099.03   1.52956
         405570.14   3774099.03   1.42671   405620.14
3774099.03   1.33357
         405670.14   3774099.03   1.24794   405720.14
3774099.03   1.17035
         405770.14   3774099.03   1.09723   405820.14
3774099.03   1.03211

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3774149.03	1.12063	403920.14	3774149.03	1.19883
403970.14	3774149.03	1.28488	404020.14	3774149.03	1.37950
404070.14	3774149.03	1.48369	404120.14	3774149.03	1.59926
404170.14	3774149.03	1.72627	404220.14	3774149.03	1.86524
404270.14	3774149.03	2.01703	404320.14	3774149.03	2.18151
404370.14	3774149.03	2.35783	404420.14	3774149.03	2.54383
404470.14	3774149.03	2.73317	404520.14	3774149.03	2.93452
404570.14	3774149.03	3.12931	404620.14	3774149.03	3.30409
404670.14	3774149.03	3.45763	404720.14	3774149.03	3.57711
404770.14	3774149.03	3.65080	404820.14	3774149.03	3.67423
404870.14	3774149.03	3.65169	404920.14	3774149.03	3.57784
404970.14	3774149.03	3.46189	405020.14	3774149.03	3.30764
405070.14	3774149.03	3.13446	405120.14	3774149.03	2.94759
405170.14	3774149.03	2.75696	405220.14	3774149.03	2.56664

405270.14 3774149.03 2.38161 405320.14
3774149.03 2.20661
405370.14 3774149.03 2.04289 405420.14
3774149.03 1.89134
405470.14 3774149.03 1.75280 405520.14
3774149.03 1.62620
405570.14 3774149.03 1.51006 405620.14
3774149.03 1.40488
405670.14 3774149.03 1.31020 405720.14
3774149.03 1.22363
405770.14 3774149.03 1.14324 405820.14
3774149.03 1.07292
403870.14 3774199.03 1.16217 403920.14
3774199.03 1.24732
403970.14 3774199.03 1.34152 404020.14
3774199.03 1.44624
404070.14 3774199.03 1.56207 404120.14
3774199.03 1.69219
404170.14 3774199.03 1.83617 404220.14
3774199.03 1.99713
404270.14 3774199.03 2.17393 404320.14
3774199.03 2.36992
404370.14 3774199.03 2.58484 404420.14
3774199.03 2.81604
404470.14 3774199.03 3.03150 404520.14
3774199.03 3.31316
404570.14 3774199.03 3.57018 404620.14
3774199.03 3.80984
404670.14 3774199.03 4.02170 404720.14
3774199.03 4.18771
404770.14 3774199.03 4.29364 404820.14
3774199.03 4.33387
404870.14 3774199.03 4.30176 404920.14
3774199.03 4.19520
404970.14 3774199.03 4.03374 405020.14
3774199.03 3.82736
405070.14 3774199.03 3.59532 405120.14
3774199.03 3.34344
405170.14 3774199.03 3.09550 405220.14
3774199.03 2.85266
405270.14 3774199.03 2.62334 405320.14
3774199.03 2.40979
405370.14 3774199.03 2.21289 405420.14
3774199.03 2.03409
405470.14 3774199.03 1.87310 405520.14
3774199.03 1.72765
405570.14 3774199.03 1.59658 405620.14
3774199.03 1.47865
405670.14 3774199.03 1.37313 405720.14
3774199.03 1.27771

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
  L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
  L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
  L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

 ** CONC OF PM_10 IN MICROGRAMS/M**3
  **

  X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
 - - -

3774249.03 5.20917
404870.14 3774249.03 5.16138 404920.14
3774249.03 5.00620
404970.14 3774249.03 4.76911 405020.14
3774249.03 4.47983
405070.14 3774249.03 4.15729 405120.14
3774249.03 3.81903
405170.14 3774249.03 3.49255 405220.14
3774249.03 3.18222
405270.14 3774249.03 2.89502 405320.14
3774249.03 2.63387
405370.14 3774249.03 2.39843 405420.14
3774249.03 2.18767
405470.14 3774249.03 2.00095 405520.14
3774249.03 1.83408
405570.14 3774249.03 1.68604 405620.14
3774249.03 1.55418
405670.14 3774249.03 1.43694 405720.14
3774249.03 1.33144
405770.14 3774249.03 1.23677 405820.14
3774249.03 1.15340
403870.14 3774299.03 1.24158 403920.14
3774299.03 1.34057
403970.14 3774299.03 1.45190 404020.14
3774299.03 1.57764
404070.14 3774299.03 1.72027 404120.14
3774299.03 1.88208
404170.14 3774299.03 2.06683 404220.14
3774299.03 2.27766
404270.14 3774299.03 2.51886 404320.14
3774299.03 2.79508
404370.14 3774299.03 3.11024 404420.14
3774299.03 3.46675
404470.14 3774299.03 3.86679 404520.14
3774299.03 4.30400
404570.14 3774299.03 4.76712 404620.14
3774299.03 5.23505
404670.14 3774299.03 5.67527 404720.14
3774299.03 6.04466
404770.14 3774299.03 6.28821 404820.14
3774299.03 6.39062
404870.14 3774299.03 6.31882 404920.14
3774299.03 6.08662
404970.14 3774299.03 5.73097 405020.14
3774299.03 5.31468
405070.14 3774299.03 4.85758 405120.14
3774299.03 4.39811
405170.14 3774299.03 3.95989 405220.14
3774299.03 3.55917
405270.14 3774299.03 3.19930 405320.14

3774299.03   2.87860
         405370.14   3774299.03   2.59666   405420.14
3774299.03   2.34937
         405470.14   3774299.03   2.13366   405520.14
3774299.03   1.94430
         405570.14   3774299.03   1.77751   405620.14
3774299.03   1.63050
         405670.14   3774299.03   1.50122   405720.14
3774299.03   1.38694
         405770.14   3774299.03   1.28373   405820.14
3774299.03   1.19374

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         403870.14   3774349.03   1.27808   403920.14
3774349.03   1.38416
         403970.14   3774349.03   1.50418   404020.14
3774349.03   1.64060
         404070.14   3774349.03   1.79660   404120.14
3774349.03   1.97587
         404170.14   3774349.03   2.18288   404220.14
3774349.03   2.42278
         404270.14   3774349.03   2.70141   404320.14
3774349.03   3.02632

404370.14 3774349.03 3.40593 404420.14
3774349.03 3.84827
404470.14 3774349.03 4.35766 404520.14
3774349.03 4.94054
404570.14 3774349.03 5.57914 404620.14
3774349.03 6.26064
404670.14 3774349.03 6.92769 404720.14
3774349.03 7.50325
404770.14 3774349.03 7.90275 404820.14
3774349.03 8.06898
404870.14 3774349.03 7.95727 404920.14
3774349.03 7.58878
404970.14 3774349.03 7.03569 405020.14
3774349.03 6.40971
405070.14 3774349.03 5.73384 405120.14
3774349.03 5.09000
405170.14 3774349.03 4.50567 405220.14
3774349.03 3.98776
405270.14 3774349.03 3.53576 405320.14
3774349.03 3.14422
405370.14 3774349.03 2.80781 405420.14
3774349.03 2.51901
405470.14 3774349.03 2.27080 405520.14
3774349.03 2.05664
405570.14 3774349.03 1.86957 405620.14
3774349.03 1.70672
405670.14 3774349.03 1.56500 405720.14
3774349.03 1.44083
405770.14 3774349.03 1.32970 405820.14
3774349.03 1.23300
403870.14 3774399.03 1.31128 403920.14
3774399.03 1.42407
403970.14 3774399.03 1.55269 404020.14
3774399.03 1.69989
404070.14 3774399.03 1.86927 404120.14
3774399.03 2.06603
404170.14 3774399.03 2.29580 404220.14
3774399.03 2.56572
404270.14 3774399.03 2.88455 404320.14
3774399.03 3.26526
404370.14 3774399.03 3.71763 404420.14
3774399.03 4.26328
404470.14 3774399.03 4.91333 404520.14
3774399.03 5.68821
404570.14 3774399.03 6.58402 404620.14
3774399.03 7.58332
404670.14 3774399.03 8.62410 404720.14
3774399.03 9.57819
404770.14 3774399.03 10.27295 404820.14
3774399.03 10.57044

```
         404870.14    3774399.03       10.38539                       404920.14
3774399.03        9.76422
         404970.14    3774399.03        8.85362                       405020.14
3774399.03        7.84223
         405070.14    3774399.03        6.84883                       405120.14
3774399.03        5.93314
         405170.14    3774399.03        5.13897                       405220.14
3774399.03        4.46619
         405270.14    3774399.03        3.89946                       405320.14
3774399.03        3.42435
         405370.14    3774399.03        3.02646                       405420.14
3774399.03        2.69191
         405470.14    3774399.03        2.40875                       405520.14
3774399.03        2.16870
         405570.14    3774399.03        1.96067                       405620.14
3774399.03        1.78226
         405670.14    3774399.03        1.62755                       405720.14
3774399.03        1.49335
         405770.14    3774399.03        1.37419                       405820.14
3774399.03        1.27078
♠ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                   PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         403870.14    3774449.03        1.34104                       403920.14
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3774449.03 1.45994
403970.14 3774449.03 1.59645 404020.14
3774449.03 1.75337
404070.14 3774449.03 1.93594 404120.14
3774449.03 2.14929
404170.14 3774449.03 2.40192 404220.14
3774449.03 2.70203
404270.14 3774449.03 3.06223 404320.14
3774449.03 3.49989
404370.14 3774449.03 4.03823 404420.14
3774449.03 4.70197
404470.14 3774449.03 5.52471 404520.14
3774449.03 6.55273
404570.14 3774449.03 7.81625 404620.14
3774449.03 9.31399
404670.14 3774449.03 11.00312 404720.14
3774449.03 12.66932
404770.14 3774449.03 13.99311 404820.14
3774449.03 14.57068
404870.14 3774449.03 14.24186 404920.14
3774449.03 13.08367
404970.14 3774449.03 11.48797 405020.14
3774449.03 9.81744
405070.14 3774449.03 8.26508 405120.14
3774449.03 6.93929
405170.14 3774449.03 5.86145 405220.14
3774449.03 4.99140
405270.14 3774449.03 4.28853 405320.14
3774449.03 3.71804
405370.14 3774449.03 3.25225 405420.14
3774449.03 2.86736
405470.14 3774449.03 2.54773 405520.14
3774449.03 2.27802
405570.14 3774449.03 2.04949 405620.14
3774449.03 1.85485
405670.14 3774449.03 1.68806 405720.14
3774449.03 1.54352
405770.14 3774449.03 1.41641 405820.14
3774449.03 1.30684
403870.14 3774499.03 1.36648 403920.14
3774499.03 1.49058
403970.14 3774499.03 1.63401 404020.14
3774499.03 1.79961
404070.14 3774499.03 1.99382 404120.14
3774499.03 2.22298
404170.14 3774499.03 2.49637 404220.14
3774499.03 2.82525
404270.14 3774499.03 3.22826 404320.14
3774499.03 3.72623
404370.14 3774499.03 4.34809 404420.14

3774499.03   5.10068
         404470.14   3774499.03   6.16866   404520.14
3774499.03   7.51601
         404570.14   3774499.03   9.28286   404620.14
3774499.03   11.57809
         404670.14   3774499.03   14.42751   404720.14
3774499.03   17.56618
         404770.14   3774499.03   20.28903   404820.14
3774499.03   21.60608
         404870.14   3774499.03   20.91223   404920.14
3774499.03   18.53640
         404970.14   3774499.03   15.46075   405020.14
3774499.03   12.50895
         405070.14   3774499.03   10.03290   405120.14
3774499.03   8.12511
         405170.14   3774499.03   6.66957   405220.14
3774499.03   5.55482
         405270.14   3774499.03   4.69220   405320.14
3774499.03   4.01369
         405370.14   3774499.03   3.47332   405420.14
3774499.03   3.03707
         405470.14   3774499.03   2.67893   405520.14
3774499.03   2.38249
         405570.14   3774499.03   2.13391   405620.14
3774499.03   1.92378
         405670.14   3774499.03   1.74487   405720.14
3774499.03   1.59114
         405770.14   3774499.03   1.45650   405820.14
3774499.03   1.34047

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
403870.14	3774549.03	1.38678	403920.14	3774549.03	1.51536
403970.14	3774549.03	1.66416	404020.14	3774549.03	1.83715
404070.14	3774549.03	2.04106	404120.14	3774549.03	2.28369
404170.14	3774549.03	2.57501	404220.14	3774549.03	2.92938
404270.14	3774549.03	3.36803	404320.14	3774549.03	3.92004
404370.14	3774549.03	4.62544	404420.14	3774549.03	5.52937
404470.14	3774549.03	6.79101	404520.14	3774549.03	8.50309
404570.14	3774549.03	10.93398	404620.14	3774549.03	14.44420
404670.14	3774549.03	19.43588	404720.14	3774549.03	25.88987
404970.14	3774549.03	21.74528	405020.14	3774549.03	16.18045
405070.14	3774549.03	12.20661	405120.14	3774549.03	9.46654
405170.14	3774549.03	7.53194	405220.14	3774549.03	6.13236
405270.14	3774549.03	5.09424	405320.14	3774549.03	4.30282
405370.14	3774549.03	3.68707	405420.14	3774549.03	3.19832
405470.14	3774549.03	2.80318	405520.14	3774549.03	2.48017
405570.14	3774549.03	2.21268	405620.14	3774549.03	1.98859
405670.14	3774549.03	1.79707	405720.14	3774549.03	1.63427
405770.14	3774549.03	1.49316	405820.14	3774549.03	1.37135
403870.14	3774599.03	1.40148	403920.14	3774599.03	1.53316
403970.14	3774599.03	1.68606	404020.14	3774599.03	1.86439
404070.14	3774599.03	2.07566	404120.14	3774599.03	2.32813

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         404170.14    3774599.03        2.63374                      404220.14
3774599.03        3.00825
         404270.14    3774599.03        3.47552                      404320.14
3774599.03        4.07036
         404370.14    3774599.03        4.84539                      404420.14
3774599.03        5.88419
         404470.14    3774599.03        7.32485                      404520.14
3774599.03        9.40781
         404570.14    3774599.03       12.58089                      404620.14
3774599.03       17.71656
         404670.14    3774599.03       26.56676                      404970.14
3774599.03       32.09884
         405020.14    3774599.03       20.97925                      405070.14
3774599.03       14.67397
         405120.14    3774599.03       10.85356                      405170.14
3774599.03        8.37443
         405220.14    3774599.03        6.67801                      405270.14
3774599.03        5.46511
         405320.14    3774599.03        4.56445                      405370.14
3774599.03        3.87664
         405420.14    3774599.03        3.34037                      405470.14
3774599.03        2.91389
         405520.14    3774599.03        2.56612                      405570.14
3774599.03        2.28219
         405620.14    3774599.03        2.04550                      405670.14
3774599.03        1.84289
         405720.14    3774599.03        1.67268                      405770.14
3774599.03        1.52539
         405820.14    3774599.03        1.39875                      403870.14
3774649.03        1.41001
         403920.14    3774649.03        1.54352                      403970.14
3774649.03        1.69886
         404020.14    3774649.03        1.88037                      404070.14
3774649.03        2.09595
         404120.14    3774649.03        2.35457                      404170.14
3774649.03        2.66873
         404220.14    3774649.03        3.05522                      404270.14
3774649.03        3.54152
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         404320.14    3774649.03        4.16468                      404370.14
3774649.03        4.98523
         404420.14    3774649.03        6.10050                      404470.14
3774649.03        7.68123
         404520.14    3774649.03       10.04571                      404570.14
3774649.03       13.84146
         404620.14    3774649.03       20.66917                      404670.14
3774649.03       35.09467
         404970.14    3774649.03       47.22332                      405020.14
3774649.03       26.12974
         405070.14    3774649.03       16.94256                      405120.14
3774649.03       12.04938
         405170.14    3774649.03        9.06821                      405220.14
3774649.03        7.12110
         405270.14    3774649.03        5.75964                      405320.14
3774649.03        4.77793
         405370.14    3774649.03        4.03112                      405420.14
3774649.03        3.45562
         405470.14    3774649.03        3.00336                      405520.14
3774649.03        2.63581
         405570.14    3774649.03        2.33761                      405620.14
3774649.03        2.08976
         405670.14    3774649.03        1.88143                      405720.14
3774649.03        1.70449
         405770.14    3774649.03        1.55249                      405820.14
3774649.03        1.42184
         403870.14    3774699.03        1.41223                      403920.14
3774699.03        1.54590
         403970.14    3774699.03        1.70211                      404020.14
3774699.03        1.88417
         404070.14    3774699.03        2.10096                      404120.14
3774699.03        2.36082
         404170.14    3774699.03        2.67713                      404220.14
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3774699.03        3.06701
         404270.14    3774699.03        3.55904                        404320.14
3774699.03        4.18983
         404370.14    3774699.03        5.02329                        404420.14
3774699.03        6.16118
         404470.14    3774699.03        7.78354                        404520.14
3774699.03       10.23304
         404570.14    3774699.03       14.24844                        404620.14
3774699.03       21.71265
         404670.14    3774699.03       39.14336                        404720.14
3774699.03      110.55675
         404970.14    3774699.03       54.91323                        405020.14
3774699.03       28.54325
         405070.14    3774699.03       18.04196                        405120.14
3774699.03       12.65260
         405170.14    3774699.03        9.44157                        405220.14
3774699.03        7.37002
         405270.14    3774699.03        5.93450                        405320.14
3774699.03        4.90313
         405370.14    3774699.03        4.12930                        405420.14
3774699.03        3.53203
         405470.14    3774699.03        3.06259                        405520.14
3774699.03        2.68596
         405570.14    3774699.03        2.37766                        405620.14
3774699.03        2.12258
         405670.14    3774699.03        1.90960                        405720.14
3774699.03        1.72801
         405770.14    3774699.03        1.57242                        405820.14
3774699.03        1.43876
         403870.14    3774749.03        1.39611                        403920.14
3774749.03        1.52778
         403970.14    3774749.03        1.69518                        404020.14
3774749.03        1.87651
         404070.14    3774749.03        2.09074                        404120.14
3774749.03        2.34752
         404170.14    3774749.03        2.65934                        404220.14
3774749.03        3.04375
         404270.14    3774749.03        3.52482                        404320.14
3774749.03        4.14136
         404370.14    3774749.03        4.95374                        404420.14
3774749.03        6.04986
         404470.14    3774749.03        7.59946                        404520.14
3774749.03        9.89941
         404570.14    3774749.03       13.56041                        404620.14
3774749.03       20.00036
         404670.14    3774749.03       33.17536                        404720.14
3774749.03       66.28586
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404770.14	3774749.03	124.26296	404820.14	3774749.03	147.46768
404870.14	3774749.03	137.48513	404970.14	3774749.03	43.88447
405020.14	3774749.03	26.06256	405070.14	3774749.03	17.29497
405120.14	3774749.03	12.40625	405170.14	3774749.03	9.37157
405220.14	3774749.03	7.35519	405270.14	3774749.03	5.94915
405320.14	3774749.03	4.92514	405370.14	3774749.03	4.15333
405420.14	3774749.03	3.55693	405470.14	3774749.03	3.08584
405520.14	3774749.03	2.70676	405570.14	3774749.03	2.39636
405620.14	3774749.03	2.13941	405670.14	3774749.03	1.92390
405720.14	3774749.03	1.74083	405770.14	3774749.03	1.58404
405820.14	3774749.03	1.44910	403870.14	3774799.03	1.27162
403920.14	3774799.03	1.46760	403970.14	3774799.03	1.65346

404020.14 3774799.03 1.85603 404070.14
3774799.03 2.06499
404120.14 3774799.03 2.31442 404170.14
3774799.03 2.61577
404220.14 3774799.03 2.98539 404270.14
3774799.03 3.44495
404320.14 3774799.03 4.02821 404370.14
3774799.03 4.78246
404420.14 3774799.03 5.79129 404470.14
3774799.03 7.17645
404520.14 3774799.03 9.15469 404570.14
3774799.03 12.10499
404620.14 3774799.03 16.74906 404670.14
3774799.03 24.31908
404720.14 3774799.03 36.02142 404770.14
3774799.03 49.08056
404820.14 3774799.03 56.03331 404870.14
3774799.03 53.27528
404970.14 3774799.03 29.92038 405020.14
3774799.03 20.96277
405070.14 3774799.03 15.15244 405120.14
3774799.03 11.38460
405170.14 3774799.03 8.84441 405220.14
3774799.03 7.07063
405270.14 3774799.03 5.78633 405320.14
3774799.03 4.82998
405370.14 3774799.03 4.09672 405420.14
3774799.03 3.52290
405470.14 3774799.03 3.06562 405520.14
3774799.03 2.69540
405570.14 3774799.03 2.39059 405620.14
3774799.03 2.13714
405670.14 3774799.03 1.92380 405720.14
3774799.03 1.74213
405770.14 3774799.03 1.58620 405820.14
3774799.03 1.45168
403870.14 3774849.03 1.24270 403920.14
3774849.03 1.36648
403970.14 3774849.03 1.56837 404020.14
3774849.03 1.81268
404070.14 3774849.03 2.02580 404120.14
3774849.03 2.26397
404170.14 3774849.03 2.54995 404220.14
3774849.03 2.89660
404270.14 3774849.03 3.32389 404320.14
3774849.03 3.85923
404370.14 3774849.03 4.54089 404420.14
3774849.03 5.41971
404470.14 3774849.03 6.59291 404520.14
3774849.03 8.18330

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         404870.14   3774849.03   28.94842   404970.14
3774849.03   20.49180
         405020.14   3774849.03   16.07914   405070.14
3774849.03   12.58075
         405120.14   3774849.03   9.96325   405170.14
3774849.03   8.02111
         405220.14   3774849.03   6.57247   405270.14
3774849.03   5.47432
         405320.14   3774849.03   4.62801   405370.14
3774849.03   3.96262
         405420.14   3774849.03   3.43224   405470.14
3774849.03   3.00340
         405520.14   3774849.03   2.65222   405570.14
3774849.03   2.35980
         405620.14   3774849.03   2.11539   405670.14

3774849.03 1.90816
405720.14 3774849.03 1.73114 405770.14
3774849.03 1.57838
405820.14 3774849.03 1.44627 403870.14
3774899.03 1.20804
403920.14 3774899.03 1.33202 403970.14
3774899.03 1.47410
404020.14 3774899.03 1.73518 404070.14
3774899.03 1.97137
404120.14 3774899.03 2.19748 404170.14
3774899.03 2.46399
404220.14 3774899.03 2.78383 404270.14
3774899.03 3.17209
404320.14 3774899.03 3.65143 404370.14
3774899.03 4.25027
404420.14 3774899.03 4.98920 404470.14
3774899.03 5.94446
404520.14 3774899.03 7.17306 404570.14
3774899.03 8.74526
404620.14 3774899.03 10.73221 404670.14
3774899.03 13.09871
404720.14 3774899.03 15.60626 404770.14
3774899.03 17.71770
404820.14 3774899.03 18.73714 404870.14
3774899.03 18.39888
404970.14 3774899.03 14.63470 405020.14
3774899.03 12.31925
405070.14 3774899.03 10.23315 405120.14
3774899.03 8.48933
405170.14 3774899.03 7.08082 405220.14
3774899.03 5.95822
405270.14 3774899.03 5.06324 405320.14
3774899.03 4.34630
405370.14 3774899.03 3.76633 405420.14
3774899.03 3.29286
405470.14 3774899.03 2.90309 405520.14
3774899.03 2.57821
405570.14 3774899.03 2.30552 405620.14
3774899.03 2.07431
405670.14 3774899.03 1.87716 405720.14
3774899.03 1.70751
405770.14 3774899.03 1.56017 405820.14
3774899.03 1.43216
403870.14 3774949.03 1.17391 403920.14
3774949.03 1.29004
403970.14 3774949.03 1.41742 404020.14
3774949.03 1.55303
404070.14 3774949.03 1.78130 404120.14
3774949.03 2.09952
404170.14 3774949.03 2.35790 404220.14

3774949.03   2.65362
         404270.14   3774949.03   2.99943   404320.14
3774949.03   3.41651
         404370.14   3774949.03   3.92363   404420.14
3774949.03   4.53927
         404470.14   3774949.03   5.30051   404520.14
3774949.03   6.22433
         404570.14   3774949.03   7.33755   404620.14
3774949.03   8.63239
         404670.14   3774949.03   10.04655   404720.14
3774949.03   11.41842
         404770.14   3774949.03   12.49134   404820.14
3774949.03   13.01238
         404870.14   3774949.03   12.84982   404920.14
3774949.03   12.08195

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         404970.14   3774949.03   10.91185   405020.14
3774949.03   9.60227
         405070.14   3774949.03   8.32176   405120.14
3774949.03   7.16275
         405170.14   3774949.03   6.16132   405220.14
3774949.03   5.31498

405270.14 3774949.03 4.60793 405320.14
3774949.03 4.01942
405370.14 3774949.03 3.52852 405420.14
3774949.03 3.11771
405470.14 3774949.03 2.77202 405520.14
3774949.03 2.47929
405570.14 3774949.03 2.23001 405620.14
3774949.03 2.01609
405670.14 3774949.03 1.83175 405720.14
3774949.03 1.67173
405770.14 3774949.03 1.53208 405820.14
3774949.03 1.40984
403870.14 3774999.03 1.13132 403920.14
3774999.03 1.23960
403970.14 3774999.03 1.36327 404020.14
3774999.03 1.49709
404070.14 3774999.03 1.65301 404120.14
3774999.03 1.91782
404170.14 3774999.03 2.22899 404220.14
3774999.03 2.51225
404270.14 3774999.03 2.81645 404320.14
3774999.03 3.17495
404370.14 3774999.03 3.59932 404420.14
3774999.03 4.10211
404470.14 3774999.03 4.69766 404520.14
3774999.03 5.39056
404570.14 3774999.03 6.18001 404620.14
3774999.03 7.04004
404670.14 3774999.03 7.92231 404720.14
3774999.03 8.72512
404770.14 3774999.03 9.33225 404820.14
3774999.03 9.61650
404870.14 3774999.03 9.53344 404920.14
3774999.03 9.11353
404970.14 3774999.03 8.43975 405020.14
3774999.03 7.64997
405070.14 3774999.03 6.83276 405120.14
3774999.03 6.04683
405170.14 3774999.03 5.33335 405220.14
3774999.03 4.70165
405270.14 3774999.03 4.15195 405320.14
3774999.03 3.67777
405370.14 3774999.03 3.27062 405420.14
3774999.03 2.92115
405470.14 3774999.03 2.62090 405520.14
3774999.03 2.36223
405570.14 3774999.03 2.13835 405620.14
3774999.03 1.94402
405670.14 3774999.03 1.77441 405720.14
3774999.03 1.62590

```
         405770.14    3774999.03        1.49508                      405820.14
3774999.03        1.37978
         403870.14    3775049.03        1.07804                      403920.14
3775049.03        1.17358
         403970.14    3775049.03        1.28906                      404020.14
3775049.03        1.41620
         404070.14    3775049.03        1.56800                      404120.14
3775049.03        1.72462
         404170.14    3775049.03        1.91541                      404220.14
3775049.03        2.25459
         404270.14    3775049.03        2.61752                      404320.14
3775049.03        2.93499
         404370.14    3775049.03        3.28699                      404420.14
3775049.03        3.69256
         404470.14    3775049.03        4.15545                      404520.14
3775049.03        4.67487
         404570.14    3775049.03        5.24121                      404620.14
3775049.03        5.83009
         404670.14    3775049.03        6.40597                      404720.14
3775049.03        6.90788
         404770.14    3775049.03        7.27660                      404820.14
3775049.03        7.44448
         404870.14    3775049.03        7.39547                      404920.14
3775049.03        7.14546
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
```

Y-COORD (M) CONC

- - - -

3775099.03   3.03052
         405370.14   3775099.03   2.75793   405420.14
3775099.03   2.51365
         405470.14   3775099.03   2.29528   405520.14
3775099.03   2.10074
         405570.14   3775099.03   1.92732   405620.14
3775099.03   1.77272
         405670.14   3775099.03   1.63469   405720.14
3775099.03   1.51128
         405770.14   3775099.03   1.40070   405820.14
3775099.03   1.30144
         403870.14   3775149.03   0.98172   403920.14
3775149.03   1.06141
         403970.14   3775149.03   1.14551   404020.14
3775149.03   1.25165
         404070.14   3775149.03   1.37722   404120.14
3775149.03   1.51624
         404170.14   3775149.03   1.66839   404220.14
3775149.03   1.84278
         404270.14   3775149.03   2.02474   404320.14
3775149.03   2.25325
         404370.14   3775149.03   2.47311   404420.14
3775149.03   2.71939
         404470.14   3775149.03   2.92575   404520.14
3775149.03   3.37222
         404570.14   3775149.03   3.46755   404620.14
3775149.03   3.96223
         404670.14   3775149.03   4.40489   404720.14
3775149.03   4.66427
         404770.14   3775149.03   4.82403   404820.14
3775149.03   4.89275
         404870.14   3775149.03   4.87391   404920.14
3775149.03   4.77010

                             *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026

, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775149.03	4.58840	405020.14	3775149.03	4.35538
405070.14	3775149.03	4.08986	405120.14	3775149.03	3.80593
405170.14	3775149.03	3.52279	405220.14	3775149.03	3.24743
405270.14	3775149.03	2.98815	405320.14	3775149.03	2.74507
405370.14	3775149.03	2.52305	405420.14	3775149.03	2.31921
405470.14	3775149.03	2.13495	405520.14	3775149.03	1.96796
405570.14	3775149.03	1.81705	405620.14	3775149.03	1.68087
405670.14	3775149.03	1.55791	405720.14	3775149.03	1.44689
405770.14	3775149.03	1.34658	405820.14	3775149.03	1.25572
403870.14	3775199.03	0.94368	403920.14	3775199.03	1.02031
403970.14	3775199.03	1.10741	404020.14	3775199.03	1.20205
404070.14	3775199.03	1.30879	404120.14	3775199.03	1.41159
404170.14	3775199.03	1.54348	404220.14	3775199.03	1.70126
404270.14	3775199.03	1.86064	404320.14	3775199.03	2.02561
404370.14	3775199.03	2.20207	404420.14	3775199.03	2.37279
404470.14	3775199.03	2.57151	404520.14	3775199.03	2.79086
404570.14	3775199.03	2.99179	404620.14	3775199.03	3.31401
404670.14	3775199.03	3.59005	404720.14	3775199.03	3.88982
404770.14	3775199.03	4.05523	404820.14	3775199.03	4.10301

```
         404870.14    3775199.03        4.09066                        404920.14
3775199.03        4.01884
         404970.14    3775199.03        3.89095                        405020.14
3775199.03        3.72461
         405070.14    3775199.03        3.53042                        405120.14
3775199.03        3.32052
         405170.14    3775199.03        3.10481                        405220.14
3775199.03        2.89135
         405270.14    3775199.03        2.68567                        405320.14
3775199.03        2.49021
         405370.14    3775199.03        2.30816                        405420.14
3775199.03        2.13787
         405470.14    3775199.03        1.98197                        405520.14
3775199.03        1.83904
         405570.14    3775199.03        1.70831                        405620.14
3775199.03        1.58891
         405670.14    3775199.03        1.47993                        405720.14
3775199.03        1.38062
         405770.14    3775199.03        1.29013                        405820.14
3775199.03        1.20750
         403870.14    3775249.03        0.89093                        403920.14
3775249.03        0.95541
         403970.14    3775249.03        1.02460                        404020.14
3775249.03        1.11201
         404070.14    3775249.03        1.20176                        404120.14
3775249.03        1.30429
         404170.14    3775249.03        1.42596                        404220.14
3775249.03        1.56208
         404270.14    3775249.03        1.67744                        404320.14
3775249.03        1.84223
         404370.14    3775249.03        1.98710                        404420.14
3775249.03        2.10294
         404470.14    3775249.03        2.25774                        404520.14
3775249.03        2.44331
         404570.14    3775249.03        2.59780                        404620.14
3775249.03        2.76970
         404670.14    3775249.03        3.01713                        404720.14
3775249.03        3.26422
         404770.14    3775249.03        3.42593                        404820.14
3775249.03        3.49968
         404870.14    3775249.03        3.49119                        404920.14
3775249.03        3.43924
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775249.03	3.34674	405020.14	3775249.03	3.22499
405070.14	3775249.03	3.08047	405120.14	3775249.03	2.92078
405170.14	3775249.03	2.75343	405220.14	3775249.03	2.58653
405270.14	3775249.03	2.42253	405320.14	3775249.03	2.26418
405370.14	3775249.03	2.11342	405420.14	3775249.03	1.97175
405470.14	3775249.03	1.83964	405520.14	3775249.03	1.71682
405570.14	3775249.03	1.60369	405620.14	3775249.03	1.49892
405670.14	3775249.03	1.40266	405720.14	3775249.03	1.31416
405770.14	3775249.03	1.23283	405820.14	3775249.03	1.15801
403870.14	3775299.03	0.84261	403920.14	3775299.03	0.90322
403970.14	3775299.03	0.96535	404020.14	3775299.03	1.03575
404070.14	3775299.03	1.12151	404120.14	3775299.03	1.21139
404170.14	3775299.03	1.31582	404220.14	3775299.03	1.44622
404270.14	3775299.03	1.54690	404320.14	3775299.03	1.65881
404370.14	3775299.03	1.77450	404420.14		

3775299.03 1.88233
404470.14 3775299.03 2.02551 404520.14
3775299.03 2.17121
404570.14 3775299.03 2.30585 404620.14
3775299.03 2.42835
404670.14 3775299.03 2.53505 404720.14
3775299.03 2.63219
404770.14 3775299.03 2.82829 404820.14
3775299.03 2.93989
404870.14 3775299.03 2.98678 404920.14
3775299.03 2.96587
404970.14 3775299.03 2.91476 405020.14
3775299.03 2.82313
405070.14 3775299.03 2.71323 405120.14
3775299.03 2.59029
405170.14 3775299.03 2.45996 405220.14
3775299.03 2.32641
405270.14 3775299.03 2.19382 405320.14
3775299.03 2.06410
405370.14 3775299.03 1.93915 405420.14
3775299.03 1.82014
405470.14 3775299.03 1.70791 405520.14
3775299.03 1.60262
405570.14 3775299.03 1.50433 405620.14
3775299.03 1.41278
405670.14 3775299.03 1.32774 405720.14
3775299.03 1.24890
405770.14 3775299.03 1.17589 405820.14
3775299.03 1.10830
403870.14 3775349.03 0.79902 403920.14
3775349.03 0.85252
403970.14 3775349.03 0.91072 404020.14
3775349.03 0.98271
404070.14 3775349.03 1.06437 404120.14
3775349.03 1.15355
404170.14 3775349.03 1.21622 404220.14
3775349.03 1.31367
404270.14 3775349.03 1.40256 404320.14
3775349.03 1.49643
404370.14 3775349.03 1.63479 404420.14
3775349.03 1.68996
404470.14 3775349.03 1.81551 404520.14
3775349.03 1.93268
404570.14 3775349.03 2.03717 404620.14
3775349.03 2.13841
404670.14 3775349.03 2.21949 404720.14
3775349.03 2.28199
404770.14 3775349.03 2.33599 404820.14
3775349.03 2.37234
404870.14 3775349.03 2.35293 404920.14

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

403970.14 3775399.03 0.86002 404020.14 3775399.03 0.92886
404070.14 3775399.03 0.99427 404120.14 3775399.03 1.06463
404170.14 3775399.03 1.13631 404220.14 3775399.03 1.20642
404270.14 3775399.03 1.27765 404320.14 3775399.03 1.35010
404370.14 3775399.03 1.50612 404420.14 3775399.03 1.58750
404470.14 3775399.03 1.66362 404520.14 3775399.03 1.73661
404570.14 3775399.03 1.79876 404620.14 3775399.03 1.88165
404670.14 3775399.03 1.95973 404720.14 3775399.03 2.01522
404770.14 3775399.03 2.04883 404820.14 3775399.03 2.05627
404870.14 3775399.03 2.07427 404920.14 3775399.03 2.07003
404970.14 3775399.03 2.04968 405020.14 3775399.03 2.00511
405070.14 3775399.03 1.97083 405120.14 3775399.03 1.89003
405170.14 3775399.03 1.86408 405220.14 3775399.03 1.82409
405270.14 3775399.03 1.77328 405320.14 3775399.03 1.71376
405370.14 3775399.03 1.63349 405420.14 3775399.03 1.55855
405470.14 3775399.03 1.47662 405520.14 3775399.03 1.39820
405570.14 3775399.03 1.32380 405620.14 3775399.03 1.25379
405670.14 3775399.03 1.18740 405720.14 3775399.03 1.12479
405770.14 3775399.03 1.06609 405820.14 3775399.03 1.01107
403870.14 3775449.03 0.71718 403920.14 3775449.03 0.76696
403970.14 3775449.03 0.81675 404020.14 3775449.03 0.87368
404070.14 3775449.03 0.93481 404120.14 3775449.03 0.99032
404170.14 3775449.03 1.05201 404220.14 3775449.03 1.11375
404270.14 3775449.03 1.16463 404320.14 3775449.03 1.23694
404370.14 3775449.03 1.31548 404420.14 3775449.03 1.39233

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
404970.14	3775449.03	1.80857	405020.14	3775449.03	1.77078
405070.14	3775449.03	1.73286	405120.14	3775449.03	1.68635
405170.14	3775449.03	1.63401	405220.14	3775449.03	1.58166
405270.14	3775449.03	1.52954	405320.14	3775449.03	1.51539
405370.14	3775449.03	1.45540	405420.14	3775449.03	1.37697
405470.14	3775449.03	1.33440	405520.14		

3775449.03 1.27832
405570.14 3775449.03 1.23626 405620.14
3775449.03 1.18134
405670.14 3775449.03 1.12247 405720.14
3775449.03 1.06678
405770.14 3775449.03 1.01435 405820.14
3775449.03 0.96486
403870.14 3775499.03 0.68136 403920.14
3775499.03 0.72715
403970.14 3775499.03 0.77205 404020.14
3775499.03 0.82333
404070.14 3775499.03 0.87472 404120.14
3775499.03 0.92248
404170.14 3775499.03 0.97466 404220.14
3775499.03 1.02592
404270.14 3775499.03 1.07137 404320.14
3775499.03 1.14435
404370.14 3775499.03 1.20710 404420.14
3775499.03 1.27499
404470.14 3775499.03 1.34043 404520.14
3775499.03 1.40991
404570.14 3775499.03 1.46628 404620.14
3775499.03 1.50885
404670.14 3775499.03 1.54874 404720.14
3775499.03 1.57960
404770.14 3775499.03 1.61063 404820.14
3775499.03 1.62617
404870.14 3775499.03 1.63344 404920.14
3775499.03 1.63459
404970.14 3775499.03 1.61045 405020.14
3775499.03 1.58947
405070.14 3775499.03 1.56119 405120.14
3775499.03 1.52500
405170.14 3775499.03 1.48586 405220.14
3775499.03 1.44008
405270.14 3775499.03 1.39472 405320.14
3775499.03 1.34574
405370.14 3775499.03 1.29912 405420.14
3775499.03 1.25265
405470.14 3775499.03 1.20658 405520.14
3775499.03 1.17416
405570.14 3775499.03 1.13477 405620.14
3775499.03 1.11070
405670.14 3775499.03 1.06212 405720.14
3775499.03 1.01244
405770.14 3775499.03 0.96530 405820.14
3775499.03 0.92059
403870.14 3775549.03 0.65103 403920.14
3775549.03 0.69624
403970.14 3775549.03 0.73529 404020.14

3775549.03   0.77742
         404070.14   3775549.03   0.81883   404120.14
3775549.03   0.86145
         404170.14   3775549.03   0.90416   404220.14
3775549.03   0.95115
         404270.14   3775549.03   0.99528   404320.14
3775549.03   1.04986
         404370.14   3775549.03   1.10974   404420.14
3775549.03   1.16204
         404470.14   3775549.03   1.20595   404520.14
3775549.03   1.25374
         404570.14   3775549.03   1.29863   404620.14
3775549.03   1.35127
         404670.14   3775549.03   1.39044   404720.14
3775549.03   1.41123
         404770.14   3775549.03   1.42054   404820.14
3775549.03   1.45958
         404870.14   3775549.03   1.45925   404920.14
3775549.03   1.45765

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         404970.14   3775549.03   1.43394   405020.14
3775549.03   1.42859

405070.14 3775549.03 1.39940 405120.14
3775549.03 1.37027
405170.14 3775549.03 1.34430 405220.14
3775549.03 1.31007
405270.14 3775549.03 1.27805 405320.14
3775549.03 1.23858
405370.14 3775549.03 1.19349 405420.14
3775549.03 1.14697
405470.14 3775549.03 1.11043 405520.14
3775549.03 1.07561
405570.14 3775549.03 1.04435 405620.14
3775549.03 1.00987
405670.14 3775549.03 0.98531 405720.14
3775549.03 0.94685
405770.14 3775549.03 0.91658 405820.14
3775549.03 0.87699
403870.14 3775599.03 0.60648 403920.14
3775599.03 0.64637
403970.14 3775599.03 0.68829 404020.14
3775599.03 0.72566
404070.14 3775599.03 0.76788 404120.14
3775599.03 0.80610
404170.14 3775599.03 0.84404 404220.14
3775599.03 0.88545
404270.14 3775599.03 0.91971 404320.14
3775599.03 0.97112
404370.14 3775599.03 1.02273 404420.14
3775599.03 1.05842
404470.14 3775599.03 1.09702 404520.14
3775599.03 1.13951
404570.14 3775599.03 1.17157 404620.14
3775599.03 1.22137
404670.14 3775599.03 1.23673 404720.14
3775599.03 1.25309
404770.14 3775599.03 1.28850 404820.14
3775599.03 1.31016
404870.14 3775599.03 1.30667 404920.14
3775599.03 1.31175
404970.14 3775599.03 1.28682 405020.14
3775599.03 1.27772
405070.14 3775599.03 1.25443 405120.14
3775599.03 1.24804
405170.14 3775599.03 1.21838 405220.14
3775599.03 1.19566
405270.14 3775599.03 1.15845 405320.14
3775599.03 1.13103
405370.14 3775599.03 1.08735 405420.14
3775599.03 1.05749
405470.14 3775599.03 1.02711 405520.14
3775599.03 0.99886

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3773649.03	2.25655	(12021216)	403920.14	3773649.03	2.68090	(12021216)
403970.14	3773649.03	3.09276	(12021216)	404020.14	3773649.03	3.45532	(12021216)
404070.14	3773649.03	3.72888	(12021216)	404120.14	3773649.03	4.62269	(12111715)
404170.14	3773649.03	5.67556	(12111715)	404220.14	3773649.03	6.60471	(12111715)
404270.14	3773649.03	7.26168	(12111715)	404320.14	3773649.03	7.51323	(12111715)
404370.14	3773649.03	7.28581	(12111715)	404420.14	3773649.03	7.86335	(12021515)
404470.14	3773649.03	8.10320	(12021515)	404520.14	3773649.03	7.76696	(12021515)
404570.14	3773649.03	6.89563	(12021515)	404620.14			

3773649.03 5.65522 (12021515)
404670.14 3773649.03 4.41281 (15122816) 404720.14
3773649.03 4.95034 (15122816)
404770.14 3773649.03 5.17736 (15122816) 404820.14
3773649.03 5.04585 (15122816)
404870.14 3773649.03 5.72716 (12101116) 404920.14
3773649.03 6.23202 (12101116)
404970.14 3773649.03 6.28724 (12101116) 405020.14
3773649.03 5.89258 (12101116)
405070.14 3773649.03 6.52418 (12042618) 405120.14
3773649.03 7.38970 (12042618)
405170.14 3773649.03 7.82147 (12042618) 405220.14
3773649.03 7.76385 (12042618)
405270.14 3773649.03 7.25265 (12042618) 405320.14
3773649.03 7.51306 (12120216)
405370.14 3773649.03 7.42827 (12120216) 405420.14
3773649.03 6.89383 (12120216)
405470.14 3773649.03 6.02990 (12120216) 405520.14
3773649.03 4.98960 (12120216)
405570.14 3773649.03 4.59843 (12111716) 405620.14
3773649.03 4.06252 (12111716)
405670.14 3773649.03 3.43518 (12111716) 405720.14
3773649.03 2.78851 (12111716)
405770.14 3773649.03 2.71907 (14120116) 405820.14
3773649.03 2.67108 (14120116)
403870.14 3773699.03 2.06195 (12021216) 403920.14
3773699.03 2.52176 (12021216)
403970.14 3773699.03 2.99568 (12021216) 404020.14
3773699.03 3.44769 (12021216)
404070.14 3773699.03 3.83334 (12021216) 404120.14
3773699.03 4.30410 (12111715)
404170.14 3773699.03 5.48638 (12111715) 404220.14
3773699.03 6.62530 (12111715)
404270.14 3773699.03 7.54987 (12111715) 404320.14
3773699.03 8.08635 (12111715)
404370.14 3773699.03 8.10562 (12111715) 404420.14
3773699.03 8.27742 (12021515)
404470.14 3773699.03 8.77340 (12021515) 404520.14
3773699.03 8.62536 (12021515)
404570.14 3773699.03 7.83251 (12021515) 404620.14
3773699.03 6.54351 (12021515)
404670.14 3773699.03 5.00896 (12021515) 404720.14
3773699.03 5.31908 (15122816)
404770.14 3773699.03 5.59982 (15122816) 404820.14
3773699.03 5.47198 (15122816)
404870.14 3773699.03 6.26064 (12101116) 404920.14
3773699.03 6.78053 (12101116)
404970.14 3773699.03 6.78071 (12101116) 405020.14
3773699.03 6.27243 (12101116)
405070.14 3773699.03 7.39591 (12042618) 405120.14

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        403870.14   3773749.03   2.10333 (16093007)   403920.14
3773749.03   2.31075 (12021216)
        403970.14   3773749.03   2.83101 (12021216)   404020.14
3773749.03   3.36165 (12021216)
        404070.14   3773749.03   3.85783 (12021216)   404120.14
3773749.03   4.26492 (12021216)

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        404170.14   3773749.03        5.18082  (12111715)               404220.14
3773749.03        6.50853  (12111715)
        404270.14   3773749.03        7.70975  (12111715)               404320.14
3773749.03        8.57230  (12111715)
        404370.14   3773749.03        8.90791  (12111715)               404420.14
3773749.03        8.62874  (12021515)
        404470.14   3773749.03        9.43210  (12021515)               404520.14
3773749.03        9.53770  (12021515)
        404570.14   3773749.03        8.87979  (12021515)               404620.14
3773749.03        7.57529  (12021515)
        404670.14   3773749.03        5.89317  (12021515)               404720.14
3773749.03        5.73489  (15122816)
        404770.14   3773749.03        6.08218  (15122816)               404820.14
3773749.03        5.95869  (15122816)
        404870.14   3773749.03        6.86922  (12101116)               404920.14
3773749.03        7.39793  (12101116)
        404970.14   3773749.03        7.32600  (12101116)               405020.14
3773749.03        7.11545  (12042618)
        405070.14   3773749.03        8.38128  (12042618)               405120.14
3773749.03        9.13469  (12042618)
        405170.14   3773749.03        9.24686  (12042618)               405220.14
3773749.03        8.73250  (12042618)
        405270.14   3773749.03        8.90644  (12120216)               405320.14
3773749.03        8.79170  (12120216)
        405370.14   3773749.03        8.08641  (12120216)               405420.14
3773749.03        6.96326  (12120216)
        405470.14   3773749.03        5.75889  (12111716)               405520.14
3773749.03        5.21418  (12111716)
        405570.14   3773749.03        4.48211  (12111716)               405620.14
3773749.03        3.67229  (12111716)
        405670.14   3773749.03        3.27435  (14120116)               405720.14
3773749.03        3.21456  (14120116)
        405770.14   3773749.03        3.09340  (14120116)               405820.14
3773749.03        2.92792  (14120116)
        403870.14   3773799.03        2.19784  (16093007)               403920.14
3773799.03        2.30285  (16093007)
        403970.14   3773799.03        2.60265  (12021216)               404020.14
3773799.03        3.19445  (12021216)
        404070.14   3773799.03        3.79052  (12021216)               404120.14
3773799.03        4.33460  (12021216)
        404170.14   3773799.03        4.76368  (12111715)               404220.14
3773799.03        6.24508  (12111715)
        404270.14   3773799.03        7.71265  (12111715)               404320.14
3773799.03        8.93199  (12111715)
        404370.14   3773799.03        9.65123  (12111715)               404420.14
3773799.03        9.67913  (12111715)
        404470.14   3773799.03       10.05905  (12021515)               404520.14
3773799.03       10.48963  (12021515)
        404570.14   3773799.03       10.03908  (12021515)               404620.14
3773799.03        8.76569  (12021515)
```

```
        404670.14   3773799.03        6.94842  (12021515)               404720.14
3773799.03        6.19824  (15122816)
        404770.14   3773799.03        6.62992  (15122816)               404820.14
3773799.03        6.51381  (15122816)
        404870.14   3773799.03        7.57064  (12101116)               404920.14
3773799.03        8.10759  (12101116)
        404970.14   3773799.03        7.93609  (12101116)               405020.14
3773799.03        8.21279  (12042618)
        405070.14   3773799.03        9.49323  (12042618)               405120.14
3773799.03       10.11906  (12042618)
        405170.14   3773799.03        9.97864  (12042618)               405220.14
3773799.03        9.53537  (12120216)
        405270.14   3773799.03        9.78545  (12120216)               405320.14
3773799.03        9.28901  (12120216)
        405370.14   3773799.03        8.20034  (12120216)               405420.14
3773799.03        6.77061  (12120216)
        405470.14   3773799.03        5.91969  (12111716)               405520.14
3773799.03        5.14125  (12111716)
        405570.14   3773799.03        4.23905  (12111716)               405620.14
3773799.03        3.62654  (14120116)
        405670.14   3773799.03        3.55584  (14120116)               405720.14
3773799.03        3.41588  (14120116)
        405770.14   3773799.03        3.22003  (14120116)               405820.14
3773799.03        3.03053  (12012517)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                  PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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3773899.03   5.54496 (12021216)
        404270.14   3773899.03   7.16000 (12111715)   404320.14
3773899.03   9.09314 (12111715)
        404370.14   3773899.03   10.74260 (12111715)   404420.14
3773899.03   11.73421 (12111715)
        404470.14   3773899.03   11.76797 (12111715)   404520.14
3773899.03   12.39005 (12021515)
        404570.14   3773899.03   12.69085 (12021515)   404620.14
3773899.03   11.71669 (12021515)
        404670.14   3773899.03   9.71698 (12021515)   404720.14
3773899.03   7.31588 (15122816)
        404770.14   3773899.03   7.98147 (15122816)   404820.14
3773899.03   7.95605 (12101116)
        404870.14   3773899.03   9.31889 (12101116)   404920.14
3773899.03   9.83450 (12101116)
        404970.14   3773899.03   9.36716 (12101116)   405020.14
3773899.03   10.97344 (12042618)
        405070.14   3773899.03   12.13206 (12042618)   405120.14
3773899.03   12.24726 (12042618)
        405170.14   3773899.03   11.56989 (12120216)   405220.14
3773899.03   11.92158 (12120216)
        405270.14   3773899.03   11.23671 (12120216)   405320.14
3773899.03   9.74948 (12120216)
        405370.14   3773899.03   7.84331 (12120216)   405420.14
3773899.03   6.83635 (12111716)
        405470.14   3773899.03   5.72751 (12111716)   405520.14
3773899.03   4.54946 (14120116)
        405570.14   3773899.03   4.45230 (14120116)   405620.14
3773899.03   4.25174 (14120116)
        405670.14   3773899.03   3.97480 (14120116)   405720.14
3773899.03   3.80109 (12012517)
        405770.14   3773899.03   3.65844 (12012517)   405820.14
3773899.03   3.46195 (12012517)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026

, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3773949.03	2.50228	(16093007)	403920.14	3773949.03	2.64319	(16093007)
403970.14	3773949.03	2.79375	(16093007)	404020.14	3773949.03	2.95398	(16093007)
404070.14	3773949.03	3.12422	(16093007)	404120.14	3773949.03	3.85129	(12021216)
404170.14	3773949.03	4.75207	(12021216)	404220.14	3773949.03	5.61369	(12021216)
404270.14	3773949.03	6.58594	(12111715)	404320.14	3773949.03	8.81570	(12111715)
404370.14	3773949.03	10.96475	(12111715)	404420.14	3773949.03	12.57870	(12111715)
404470.14	3773949.03	13.22084	(12111715)	404520.14	3773949.03	13.34495	(12021515)
404570.14	3773949.03	14.16107	(12021515)	404620.14	3773949.03	13.51402	(12021515)
404670.14	3773949.03	11.51823	(12021515)	404720.14	3773949.03	8.70599	(12021515)
404770.14	3773949.03	8.82676	(15122816)	404820.14	3773949.03	8.91042	(12101116)
404870.14	3773949.03	10.42749	(12101116)	404920.14	3773949.03	10.90414	(12101116)
404970.14	3773949.03	10.65405	(12042618)	405020.14	3773949.03	12.70012	(12042618)
405070.14	3773949.03	13.66282	(12042618)	405120.14	3773949.03	13.35166	(12042618)
405170.14	3773949.03	13.22140	(12120216)	405220.14	3773949.03	13.00434	(12120216)
405270.14	3773949.03	11.66481	(12120216)	405320.14	3773949.03	9.61362	(12120216)
405370.14	3773949.03	7.92747	(12111716)	405420.14	3773949.03	6.71417	(12111716)
405470.14	3773949.03	5.34209	(12111716)	405520.14	3773949.03	5.04712	(14120116)
405570.14	3773949.03	4.80517	(14120116)	405620.14	3773949.03	4.46736	(14120116)
405670.14	3773949.03	4.29127	(12012517)	405720.14	3773949.03	4.10611	(12012517)

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        405770.14   3773949.03        3.85797  (12012517)                405820.14
3773949.03        3.56992  (12012517)
        403870.14   3773999.03        2.61024  (16093007)                403920.14
3773999.03        2.76531  (16093007)
        403970.14   3773999.03        2.93195  (16093007)                404020.14
3773999.03        3.11093  (16093007)
        404070.14   3773999.03        3.30262  (16093007)                404120.14
3773999.03        3.50700  (16093007)
        404170.14   3773999.03        4.45200  (12021216)                404220.14
3773999.03        5.50255  (12021216)
        404270.14   3773999.03        6.48208  (12021216)                404320.14
3773999.03        8.26835  (12111715)
        404370.14   3773999.03       10.88157  (12111715)                404420.14
3773999.03       13.18288  (12111715)
        404470.14   3773999.03       14.59515  (12111715)                404520.14
3773999.03       14.64528  (12111715)
        404570.14   3773999.03       15.68558  (12021515)                404620.14
3773999.03       15.54423  (12021515)
        404670.14   3773999.03       13.66786  (12021515)                404720.14
3773999.03       10.57338  (12021515)
        404770.14   3773999.03        9.81846  (15122816)                404820.14
3773999.03       10.04877  (12101116)
        404870.14   3773999.03       11.74288  (12101116)                404920.14
3773999.03       12.14761  (12101116)
        404970.14   3773999.03       12.64010  (12042618)                405020.14
3773999.03       14.69713  (12042618)
        405070.14   3773999.03       15.32471  (12042618)                405120.14
3773999.03       14.42905  (12042618)
        405170.14   3773999.03       14.86925  (12120216)                405220.14
3773999.03       13.88436  (12120216)
        405270.14   3773999.03       11.78720  (12120216)                405320.14
3773999.03        9.22189  (12111716)
        405370.14   3773999.03        7.91639  (12111716)                405420.14
3773999.03        6.34072  (12111716)
        405470.14   3773999.03        5.78410  (14120116)                405520.14
3773999.03        5.48161  (14120116)
        405570.14   3773999.03        5.06950  (14120116)                405620.14
3773999.03        4.87809  (12012517)
        405670.14   3773999.03        4.63575  (12012517)                405720.14
3773999.03        4.32107  (12012517)
        405770.14   3773999.03        3.96175  (12012517)                405820.14
3773999.03        3.58128  (12012517)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3774049.03	2.72006	(16093007)	403920.14	3774049.03	2.89031	(16093007)
403970.14	3774049.03	3.07500	(16093007)	404020.14	3774049.03	3.27472	(16093007)
404070.14	3774049.03	3.48984	(16093007)	404120.14	3774049.03	3.72177	(16093007)
404170.14	3774049.03	4.00258	(12021216)	404220.14	3774049.03	5.19362	(12021216)
404270.14	3774049.03	6.42959	(12021216)	404320.14	3774049.03	7.54470	(12021216)
404370.14	3774049.03	10.43775	(12111715)	404420.14	3774049.03	13.43720	(12111715)
404470.14	3774049.03	15.76769	(12111715)	404520.14	3774049.03	16.71195	(12111715)
404570.14	3774049.03	17.21020	(12021515)	404620.14	3774049.03	17.80626	(12021515)
404670.14	3774049.03	16.23323	(12021515)	404720.14	3774049.03	12.90539	(12021515)
404770.14	3774049.03	10.99555	(15122816)	404820.14	3774049.03	11.42107	(12101116)
404870.14	3774049.03	13.31670	(12101116)	404920.14	3774049.03	13.60753	(12101116)
404970.14	3774049.03	15.05052	(12042618)	405020.14	3774049.03	17.00075	(12042618)
405070.14	3774049.03	17.09708	(12042618)	405120.14	3774049.03	16.70854	(12120216)
405170.14	3774049.03	16.39912	(12120216)	405220.14	3774049.03	14.44439	(12120216)
405270.14	3774049.03	11.53682	(12120216)	405320.14			

3774049.03 9.39855 (12111716)
405370.14 3774049.03 7.59125 (12111716) 405420.14
3774049.03 6.72348 (14120116)
405470.14 3774049.03 6.33718 (14120116) 405520.14
3774049.03 5.81105 (14120116)
405570.14 3774049.03 5.58714 (12012517) 405620.14
3774049.03 5.26577 (12012517)
405670.14 3774049.03 4.86399 (12012517) 405720.14
3774049.03 4.41387 (12012517)
405770.14 3774049.03 4.03815 (12031617) 405820.14
3774049.03 4.30598 (12031617)
403870.14 3774099.03 2.83107 (16093007) 403920.14
3774099.03 3.01811 (16093007)
403970.14 3774099.03 3.22146 (16093007) 404020.14
3774099.03 3.44319 (16093007)
404070.14 3774099.03 3.68504 (16093007) 404120.14
3774099.03 3.94817 (16093007)
404170.14 3774099.03 4.23357 (16093007) 404220.14
3774099.03 4.68667 (12021216)
404270.14 3774099.03 6.12186 (12021216) 404320.14
3774099.03 7.58896 (12021216)
404370.14 3774099.03 9.61658 (12111715) 404420.14
3774099.03 13.24515 (12111715)
404470.14 3774099.03 16.59837 (12111715) 404520.14
3774099.03 18.71370 (12111715)
404570.14 3774099.03 18.77578 (12111715) 404620.14
3774099.03 20.28258 (12021515)
404670.14 3774099.03 19.27529 (12021515) 404720.14
3774099.03 15.83073 (12021515)
404770.14 3774099.03 12.40152 (15122816) 404820.14
3774099.03 13.09203 (12101116)
404870.14 3774099.03 15.23165 (12101116) 404920.14
3774099.03 15.33907 (12101116)
404970.14 3774099.03 17.98191 (12042618) 405020.14
3774099.03 19.63019 (12042618)
405070.14 3774099.03 18.92391 (12042618) 405120.14
3774099.03 19.12688 (12120216)
405170.14 3774099.03 17.64609 (12120216) 405220.14
3774099.03 14.55818 (12120216)
405270.14 3774099.03 11.23605 (12111716) 405320.14
3774099.03 9.17467 (12111716)
405370.14 3774099.03 7.92217 (14120116) 405420.14
3774099.03 7.43808 (14120116)
405470.14 3774099.03 6.76418 (14120116) 405520.14
3774099.03 6.45025 (12012517)
405570.14 3774099.03 6.02461 (12012517) 405620.14
3774099.03 5.50394 (12012517)
405670.14 3774099.03 4.93735 (12012517) 405720.14
3774099.03 4.91348 (12031617)
405770.14 3774099.03 5.42226 (12031616) 405820.14

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        403870.14   3774149.03   2.94239 (16093007)   403920.14   3774149.03   3.14640 (16093007)
        403970.14   3774149.03   3.37046 (16093007)   404020.14   3774149.03   3.61651 (16093007)
        404070.14   3774149.03   3.88686 (16093007)   404120.14   3774149.03   4.18480 (16093007)
        404170.14   3774149.03   4.51142 (16093007)   404220.14   3774149.03   4.86818 (16093007)
        404270.14   3774149.03   5.55183 (12021216)   404320.14   3774149.03   7.30506 (12021216)
        404370.14   3774149.03   9.06175 (12021216)   404420.14   3774149.03   12.52372 (12111715)
        404470.14   3774149.03   16.87743 (12111715)   404520.14   3774149.03   20.43589 (12111715)
        404570.14   3774149.03   21.90204 (12111715)   404620.14   3774149.03   22.91664 (12021515)
        404670.14   3774149.03   22.86591 (12021515)   404720.14   3774149.03   19.51107 (12021515)
        404770.14   3774149.03   14.11681 (15122816)   404820.14   3774149.03   15.16689 (12101116)

404870.14 3774149.03 17.58922 (12101116) 404920.14
3774149.03 17.73191 (12042618)
404970.14 3774149.03 21.54128 (12042618) 405020.14
3774149.03 22.58581 (12042618)
405070.14 3774149.03 21.85991 (12120216) 405120.14
3774149.03 21.40391 (12120216)
405170.14 3774149.03 18.41453 (12120216) 405220.14
3774149.03 14.10113 (12120216)
405270.14 3774149.03 11.20814 (12111716) 405320.14
3774149.03 9.44940 (14120116)
405370.14 3774149.03 8.84223 (14120116) 405420.14
3774149.03 7.98250 (14120116)
405470.14 3774149.03 7.52181 (12012517) 405520.14
3774149.03 6.94492 (12012517)
405570.14 3774149.03 6.26575 (12012517) 405620.14
3774149.03 5.64209 (12031617)
405670.14 3774149.03 6.37949 (12031616) 405720.14
3774149.03 7.07250 (12031616)
405770.14 3774149.03 7.61397 (12031616) 405820.14
3774149.03 8.00081 (12031616)
403870.14 3774199.03 3.05285 (16093007) 403920.14
3774199.03 3.27504 (16093007)
403970.14 3774199.03 3.52067 (16093007) 404020.14
3774199.03 3.79297 (16093007)
404070.14 3774199.03 4.09428 (16093007) 404120.14
3774199.03 4.43013 (16093007)
404170.14 3774199.03 4.80176 (16093007) 404220.14
3774199.03 5.21457 (16093007)
404270.14 3774199.03 5.66860 (16093007) 404320.14
3774199.03 6.66417 (12021216)
404370.14 3774199.03 8.84325 (12021216) 404420.14
3774199.03 11.24661 (12111715)
404470.14 3774199.03 16.40714 (12111715) 404520.14
3774199.03 21.61917 (12111715)
404570.14 3774199.03 24.99123 (12111715) 404620.14
3774199.03 25.59734 (12021515)
404670.14 3774199.03 27.05214 (12021515) 404720.14
3774199.03 24.14930 (12021515)
404770.14 3774199.03 17.93830 (12021515) 404820.14
3774199.03 17.78420 (12101116)
404870.14 3774199.03 20.53003 (12101116) 404920.14
3774199.03 22.04183 (12042618)
404970.14 3774199.03 25.84523 (12042618) 405020.14
3774199.03 25.83806 (12042618)
405070.14 3774199.03 25.64925 (12120216) 405120.14
3774199.03 23.28708 (12120216)
405170.14 3774199.03 18.47364 (12120216) 405220.14
3774199.03 13.86315 (12111716)
405270.14 3774199.03 11.43361 (14120116) 405320.14
3774199.03 10.65604 (14120116)

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3774249.03       10.89269  (12021216)
        404470.14   3774249.03       15.24256  (12111715)                404520.14
3774249.03       21.95685  (12111715)
        404570.14   3774249.03       27.70152  (12111715)                404620.14
3774249.03       30.09489  (12111715)
        404670.14   3774249.03       31.84264  (12021515)                404720.14
3774249.03       30.02006  (12021515)
        404770.14   3774249.03       23.17706  (12021515)                404820.14
3774249.03       21.16944  (12101116)
        404870.14   3774249.03       24.28922  (12101116)                404920.14
3774249.03       27.65981  (12042618)
        404970.14   3774249.03       31.03516  (12042618)                405020.14
3774249.03       30.00753  (12120216)
        405070.14   3774249.03       29.33247  (12120216)                405120.14
3774249.03       24.39211  (12120216)
        405170.14   3774249.03       17.60828  (12120216)                405220.14
3774249.03       14.08389  (14120116)
        405270.14   3774249.03       13.06441  (14120116)                405320.14
3774249.03       11.56570  (14120116)
        405370.14   3774249.03       10.59230  (12012517)                405420.14
3774249.03        9.49404  (12012517)
        405470.14   3774249.03        9.09979  (12031616)                405520.14
3774249.03       10.35273  (12031616)
        405570.14   3774249.03       11.30144  (12031616)                405620.14
3774249.03       11.91863  (12031616)
        405670.14   3774249.03       12.21357  (12031616)                405720.14
3774249.03       12.21505  (12031616)
        405770.14   3774249.03       11.97013  (12031616)                405820.14
3774249.03       11.53504  (12031616)
        403870.14   3774299.03        4.70014  (12022717)                403920.14
3774299.03        4.64572  (12022717)
        403970.14   3774299.03        4.53317  (12022717)                404020.14
3774299.03        4.35313  (12022717)
        404070.14   3774299.03        4.51253  (16093007)                404120.14
3774299.03        4.93230  (16093007)
        404170.14   3774299.03        5.40973  (16093007)                404220.14
3774299.03        5.95306  (16093007)
        404270.14   3774299.03        6.57230  (16093007)                404320.14
3774299.03        7.27799  (16093007)
        404370.14   3774299.03        8.07939  (16093007)                404420.14
3774299.03       10.12584  (12021216)
        404470.14   3774299.03       13.70438  (12021216)                404520.14
3774299.03       21.10650  (12111715)
        404570.14   3774299.03       29.53452  (12111715)                404620.14
3774299.03       35.31472  (12111715)
        404670.14   3774299.03       37.15403  (12021515)                404720.14
3774299.03       37.46935  (12021515)
        404770.14   3774299.03       30.33917  (12021515)                404820.14
3774299.03       25.62286  (12101116)
        404870.14   3774299.03       29.16635  (12101116)                404920.14
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3774299.03   35.02160 (12042618)
        404970.14   3774299.03   37.21497 (12042618)   405020.14
3774299.03   36.44881 (12120216)
        405070.14   3774299.03   32.41999 (12120216)   405120.14
3774299.03   24.29751 (12120216)
        405170.14   3774299.03   17.73872 (14120116)   405220.14
3774299.03   16.36507 (14120116)
        405270.14   3774299.03   14.29324 (14120116)   405320.14
3774299.03   12.84942 (12012517)
        405370.14   3774299.03   11.28546 (12012517)   405420.14
3774299.03   12.83781 (12031616)
        405470.14   3774299.03   14.17242 (12031616)   405520.14
3774299.03   14.99942 (12031616)
        405570.14   3774299.03   15.33713 (12031616)   405620.14
3774299.03   15.24741 (12031616)
        405670.14   3774299.03   14.81404 (12031616)   405720.14
3774299.03   14.12170 (12031616)
        405770.14   3774299.03   13.24481 (12031616)   405820.14
3774299.03   12.26536 (12031616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        403870.14   3774349.03   5.90380 (12022717)   403920.14
3774349.03   6.01878 (12022717)

403970.14 3774349.03 6.09716 (12022717) 404020.14
3774349.03 6.10611 (12022717)
404070.14 3774349.03 6.02799 (12022717) 404120.14
3774349.03 5.84573 (12022717)
404170.14 3774349.03 5.71569 (16093007) 404220.14
3774349.03 6.33421 (16093007)
404270.14 3774349.03 7.05041 (16093007) 404320.14
3774349.03 7.88204 (16093007)
404370.14 3774349.03 8.84849 (16093007) 404420.14
3774349.03 9.96830 (16093007)
404470.14 3774349.03 12.93090 (12021216) 404520.14
3774349.03 18.85527 (12111715)
404570.14 3774349.03 29.84739 (12111715) 404620.14
3774349.03 40.08863 (12111715)
404670.14 3774349.03 44.42797 (12111715) 404720.14
3774349.03 46.87670 (12021515)
404770.14 3774349.03 40.30581 (12021515) 404820.14
3774349.03 31.70220 (12101116)
404870.14 3774349.03 35.70457 (12101116) 404920.14
3774349.03 44.80799 (12042618)
404970.14 3774349.03 44.47148 (12042618) 405020.14
3774349.03 43.12088 (12120216)
405070.14 3774349.03 34.15222 (12120216) 405120.14
3774349.03 22.98703 (14120116)
405170.14 3774349.03 21.07513 (14120116) 405220.14
3774349.03 18.09393 (14120116)
405270.14 3774349.03 15.87945 (12012517) 405320.14
3774349.03 16.23868 (12031616)
405370.14 3774349.03 18.22964 (12031616) 405420.14
3774349.03 19.39886 (12031616)
405470.14 3774349.03 19.79095 (12031616) 405520.14
3774349.03 19.52676 (12031616)
405570.14 3774349.03 18.75303 (12031616) 405620.14
3774349.03 17.62837 (12031616)
405670.14 3774349.03 16.29006 (12031616) 405720.14
3774349.03 14.84509 (12031616)
405770.14 3774349.03 13.36976 (12031616) 405820.14
3774349.03 11.93416 (12031616)
403870.14 3774399.03 6.99601 (12022717) 403920.14
3774399.03 7.30450 (12022717)
403970.14 3774399.03 7.54404 (12022717) 404020.14
3774399.03 7.85059 (12022717)
404070.14 3774399.03 8.09024 (12022717) 404120.14
3774399.03 8.23957 (12022717)
404170.14 3774399.03 8.26302 (12022717) 404220.14
3774399.03 8.12183 (12022717)
404270.14 3774399.03 7.77645 (12022717) 404320.14
3774399.03 8.50419 (16093007)
404370.14 3774399.03 9.65918 (16093007) 404420.14
3774399.03 11.04008 (16093007)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3774449.03	7.57202	(12022717)	403920.14	3774449.03	8.09927	(12022717)
403970.14	3774449.03	8.55135	(12022717)	404020.14	3774449.03	9.22598	(12022717)
404070.14	3774449.03	9.84660	(12022717)	404120.14	3774449.03	10.46853	(12022717)
404170.14	3774449.03	11.04113	(12022717)	404220.14	3774449.03	11.50438	(12022717)
404270.14	3774449.03	11.79020	(12022717)	404320.14	3774449.03	11.81347	(12022717)
404370.14	3774449.03	11.47484	(12022717)	404420.14	3774449.03	12.17060	(16093007)
404470.14	3774449.03	14.24448	(16093007)	404520.14	3774449.03	16.81068	(16093007)
404570.14	3774449.03	23.62029	(12021216)	404620.14	3774449.03	43.51368	(12111715)
404670.14	3774449.03	64.55249	(12111715)	404720.14	3774449.03	73.38779	(12111715)
404770.14	3774449.03	74.86050	(12021515)	404820.14	3774449.03	55.04137	(12021515)
404870.14	3774449.03	68.71691	(12042618)	404920.14	3774449.03	75.69142	(12042618)
404970.14	3774449.03	71.08835	(12120216)	405020.14	3774449.03	52.28207	(12120216)
405070.14	3774449.03	39.43607	(14120116)	405120.14	3774449.03	32.18542	(14120116)
405170.14	3774449.03	33.47179	(12031616)	405220.14	3774449.03	36.62718	(12031616)
405270.14	3774449.03	37.18625	(12031616)	405320.14	3774449.03	35.78271	(12031616)
405370.14	3774449.03	33.13390	(12031616)	405420.14	3774449.03	29.83450	(12031616)
405470.14	3774449.03	26.32497	(12031616)	405520.14	3774449.03	22.87665	(12031616)
405570.14	3774449.03	19.65910	(12031616)	405620.14	3774449.03	17.22267	(12120116)
405670.14	3774449.03	16.11354	(12120116)	405720.14	3774449.03	15.00957	(12120116)
405770.14	3774449.03	13.93255	(12120116)	405820.14	3774449.03	12.90836	(12120116)
403870.14	3774499.03	7.47348	(12022717)	403920.14	3774499.03	8.21964	(12022717)
403970.14	3774499.03	8.86921	(12022717)	404020.14			

3774499.03   9.87656 (12022717)
        404070.14   3774499.03   10.83301 (12022717)   404120.14
3774499.03   11.88978 (12022717)
        404170.14   3774499.03   13.12228 (12022717)   404220.14
3774499.03   14.35000 (12022717)
        404270.14   3774499.03   15.61982 (12022717)   404320.14
3774499.03   16.81443 (12022717)
        404370.14   3774499.03   17.79413 (12022717)   404420.14
3774499.03   18.28156 (12022717)
        404470.14   3774499.03   18.22344 (12022717)   404520.14
3774499.03   19.24918 (16093007)
        404570.14   3774499.03   23.62424 (16093007)   404620.14
3774499.03   38.97324 (12111715)
        404670.14   3774499.03   72.01220 (12111715)   404720.14
3774499.03   98.27331 (12111715)
        404770.14   3774499.03   105.36816 (12021515)   404820.14
3774499.03   84.55924 (12021515)
        404870.14   3774499.03   100.33913 (12042618)   404920.14
3774499.03   102.65761 (12120216)
        404970.14   3774499.03   85.71933 (12120216)   405020.14
3774499.03   59.31322 (14120116)
        405070.14   3774499.03   48.55707 (12031616)   405120.14
3774499.03   55.33392 (12031616)
        405170.14   3774499.03   56.20960 (12031616)   405220.14
3774499.03   52.94809 (12031616)
        405270.14   3774499.03   47.48073 (12031616)   405320.14
3774499.03   41.21090 (12031616)
        405370.14   3774499.03   35.00832 (12031616)   405420.14
3774499.03   29.32039 (12031616)
        405470.14   3774499.03   25.22749 (12120116)   405520.14
3774499.03   23.05698 (12120116)
        405570.14   3774499.03   20.99074 (12120116)   405620.14
3774499.03   19.06457 (12120116)
        405670.14   3774499.03   17.29425 (12120116)   405720.14
3774499.03   15.68080 (12120116)
        405770.14   3774499.03   14.21357 (12120116)   405820.14
3774499.03   12.89306 (12120116)

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010

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, L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        403870.14   3774549.03        6.70595  (12022717)               403920.14
3774549.03        7.50294  (12022717)
        403970.14   3774549.03        8.37172  (12022717)               404020.14
3774549.03        9.48757  (12022717)
        404070.14   3774549.03       10.68211  (12022717)               404120.14
3774549.03       11.99080  (12022717)
        404170.14   3774549.03       13.65205  (12022717)               404220.14
3774549.03       15.57176  (12022717)
        404270.14   3774549.03       17.79830  (12022717)               404320.14
3774549.03       20.33556  (12022717)
        404370.14   3774549.03       23.16309  (12022717)               404420.14
3774549.03       26.14643  (12022717)
        404470.14   3774549.03       29.19976  (12022717)               404520.14
3774549.03       31.64420  (12022717)
        404570.14   3774549.03       32.56094  (12022717)               404620.14
3774549.03       36.32547  (16093007)
        404670.14   3774549.03       72.34475  (12111715)               404720.14
3774549.03      128.91522  (12111715)
        404970.14   3774549.03       99.59478  (14120116)               405020.14
3774549.03       92.72951  (12031616)
        405070.14   3774549.03       95.73849  (12031616)               405120.14
3774549.03       87.22073  (12031616)
        405170.14   3774549.03       74.13082  (12031616)               405220.14
3774549.03       60.67571  (12031616)
        405270.14   3774549.03       48.67151  (12031616)               405320.14
3774549.03       40.53931  (12120116)
        405370.14   3774549.03       35.65696  (12120116)               405420.14
3774549.03       31.31230  (12120116)
        405470.14   3774549.03       27.50326  (12120116)               405520.14
3774549.03       24.19408  (12120116)
        405570.14   3774549.03       21.32735  (12120116)               405620.14
3774549.03       18.84493  (12120116)
        405670.14   3774549.03       16.68813  (12120116)               405720.14
3774549.03       14.82032  (12120116)
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        405770.14   3774549.03       13.19409  (12120116)                405820.14
3774549.03       11.77880  (12120116)
        403870.14   3774599.03        5.41469  (12022717)                403920.14
3774599.03        6.16306  (12022717)
        403970.14   3774599.03        7.02199  (12022717)                404020.14
3774599.03        8.09037  (12022717)
        404070.14   3774599.03        9.29555  (12022717)                404120.14
3774599.03       10.71193  (12022717)
        404170.14   3774599.03       12.37667  (12022717)                404220.14
3774599.03       14.51905  (12022717)
        404270.14   3774599.03       17.18692  (12022717)                404320.14
3774599.03       20.51161  (12022717)
        404370.14   3774599.03       24.69138  (12022717)                404420.14
3774599.03       29.98567  (12022717)
        404470.14   3774599.03       36.70338  (12022717)                404520.14
3774599.03       45.14080  (12022717)
        404570.14   3774599.03       55.31388  (12022717)                404620.14
3774599.03       65.97529  (12022717)
        404670.14   3774599.03       72.49329  (12022717)                404970.14
3774599.03      204.28802  (12031616)
        405020.14   3774599.03      176.83863  (12031616)                405070.14
3774599.03      134.87937  (12031616)
        405120.14   3774599.03       98.90453  (12031616)                405170.14
3774599.03       76.69037  (12120116)
        405220.14   3774599.03       62.70891  (12120116)                405270.14
3774599.03       51.64939  (12120116)
        405320.14   3774599.03       42.88781  (12120116)                405370.14
3774599.03       35.90858  (12120116)
        405420.14   3774599.03       30.31517  (12120116)                405470.14
3774599.03       25.79294  (12120116)
        405520.14   3774599.03       22.09227  (12120116)                405570.14
3774599.03       19.05118  (12120116)
        405620.14   3774599.03       16.52345  (12120116)                405670.14
3774599.03       14.39833  (12120116)
        405720.14   3774599.03       12.61412  (12120116)                405770.14
3774599.03       11.09797  (12120116)
        405820.14   3774599.03        9.80641  (12120116)                403870.14
3774649.03        6.59224  (12120215)
        403920.14   3774649.03        7.33993  (12120215)                403970.14
3774649.03        8.20820  (12120215)
        404020.14   3774649.03        9.23400  (12120215)                404070.14
3774649.03       10.44166  (12120215)
        404120.14   3774649.03       11.87526  (12120215)                404170.14
3774649.03       13.59429  (12120215)
        404220.14   3774649.03       15.74157  (12120215)                404270.14
3774649.03       18.35064  (12120215)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404320.14	3774649.03	21.71643	(12120215)	404370.14	3774649.03	26.05489	(12120215)
404420.14	3774649.03	31.79624	(12120215)	404470.14	3774649.03	39.61664	(12120215)
404520.14	3774649.03	50.64316	(12120215)	404570.14	3774649.03	66.88220	(12120215)
404620.14	3774649.03	93.64854	(12022717)	404670.14	3774649.03	145.03546	(12022717)
404970.14	3774649.03	360.93832	(12031616)	405020.14	3774649.03	214.13740	(12120116)
405070.14	3774649.03	143.09977	(12120116)	405120.14	3774649.03	101.70858	(12120116)
405170.14	3774649.03	75.41032	(12120116)	405220.14	3774649.03	57.81321	(12120116)
405270.14	3774649.03	45.43667	(12120116)	405320.14	3774649.03	36.47571	(12120116)
405370.14	3774649.03	29.74048	(12120116)	405420.14	3774649.03	24.59543	(12120116)
405470.14	3774649.03	20.59174	(12120116)	405520.14	3774649.03	17.40639	(12120116)
405570.14	3774649.03	14.85125	(12120116)	405620.14	3774649.03	12.76807	(12120116)
405670.14	3774649.03	11.05173	(12120116)	405720.14	3774649.03	9.62420	(12120116)
405770.14	3774649.03	8.42615	(12120116)	405820.14			

3774649.03 7.41470 (12120116)
403870.14 3774699.03 8.03984 (12120215) 403920.14
3774699.03 8.99969 (12120215)
403970.14 3774699.03 10.09800 (12120215) 404020.14
3774699.03 11.44613 (12120215)
404070.14 3774699.03 13.22199 (12033117) 404120.14
3774699.03 15.39893 (12033117)
404170.14 3774699.03 18.06031 (12033117) 404220.14
3774699.03 21.39734 (12033117)
404270.14 3774699.03 25.46890 (12033117) 404320.14
3774699.03 30.89443 (12033117)
404370.14 3774699.03 38.04644 (12033117) 404420.14
3774699.03 47.91331 (12033117)
404470.14 3774699.03 61.87509 (12033117) 404520.14
3774699.03 82.83510 (12033117)
404570.14 3774699.03 116.62975 (12033117) 404620.14
3774699.03 177.02562 (12033117)
404670.14 3774699.03 306.88646 (12033117) 404720.14
3774699.03 698.67449 (12033117)
404970.14 3774699.03 353.87093 (12043018) 405020.14
3774699.03 185.73662 (12043018)
405070.14 3774699.03 114.37784 (12043018) 405120.14
3774699.03 77.30926 (12043018)
405170.14 3774699.03 55.35677 (12043018) 405220.14
3774699.03 41.33309 (12043018)
405270.14 3774699.03 31.79879 (12043018) 405320.14
3774699.03 25.06622 (12043018)
405370.14 3774699.03 20.62745 (12102016) 405420.14
3774699.03 17.83831 (12102016)
405470.14 3774699.03 15.60595 (12102016) 405520.14
3774699.03 13.78690 (12102016)
405570.14 3774699.03 12.27977 (12102016) 405620.14
3774699.03 11.01811 (12102016)
405670.14 3774699.03 9.95179 (12102016) 405720.14
3774699.03 9.03608 (12102016)
405770.14 3774699.03 8.24461 (12102016) 405820.14
3774699.03 7.55716 (12102016)
403870.14 3774749.03 10.82287 (12033117) 403920.14
3774749.03 12.30105 (12033117)
403970.14 3774749.03 14.00354 (12033117) 404020.14
3774749.03 16.01842 (12033117)
404070.14 3774749.03 18.47013 (12033117) 404120.14
3774749.03 21.39759 (12033117)
404170.14 3774749.03 24.91089 (12033117) 404220.14
3774749.03 29.14365 (12033117)
404270.14 3774749.03 34.69528 (12033117) 404320.14
3774749.03 41.64389 (12033117)
404370.14 3774749.03 49.16776 (12033117) 404420.14
3774749.03 62.41210 (12033117)
404470.14 3774749.03 78.25961 (12033117) 404520.14

3774749.03   100.72499 (12033117)
        404570.14   3774749.03   133.25968 (12033117)   404620.14
3774749.03   180.71118 (12033117)
        404670.14   3774749.03   244.78145 (12033117)   404720.14
3774749.03   292.89391 (12033117)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        404770.14   3774749.03   338.13266 (15022217)   404820.14
3774749.03   351.35171 (16020617)
        404870.14   3774749.03   455.38603 (12071919)   404970.14
3774749.03   304.71784 (12121716)
        405020.14   3774749.03   194.34769 (12121716)   405070.14
3774749.03   137.87797 (12043018)
        405120.14   3774749.03   100.67229 (12043018)   405170.14
3774749.03   75.47038 (12043018)
        405220.14   3774749.03   57.94433 (12043018)   405270.14
3774749.03   45.43944 (12043018)
        405320.14   3774749.03   36.26422 (12043018)   405370.14
3774749.03   29.37115 (12043018)
        405420.14   3774749.03   24.09652 (12043018)   405470.14
3774749.03   19.99144 (12043018)
        405520.14   3774749.03   16.74805 (12043018)   405570.14
3774749.03   14.15007 (12043018)

405620.14 3774749.03 12.04634 (12043018) 405670.14
3774749.03 10.41556 (12033018)
405720.14 3774749.03 9.22348 (12033018) 405770.14
3774749.03 8.20850 (12033018)
405820.14 3774749.03 7.33938 (12033018) 403870.14
3774799.03 13.61391 (12033117)
403920.14 3774799.03 15.28555 (12033117) 403970.14
3774799.03 17.26631 (12033117)
404020.14 3774799.03 19.46239 (12033117) 404070.14
3774799.03 22.09229 (12033117)
404120.14 3774799.03 25.13865 (12033117) 404170.14
3774799.03 28.68658 (12033117)
404220.14 3774799.03 32.69825 (12033117) 404270.14
3774799.03 37.61036 (12033117)
404320.14 3774799.03 43.34072 (12033117) 404370.14
3774799.03 48.48544 (12033117)
404420.14 3774799.03 58.37183 (12033117) 404470.14
3774799.03 67.34933 (12033117)
404520.14 3774799.03 76.84905 (12033117) 404570.14
3774799.03 85.41958 (12033117)
404620.14 3774799.03 87.33617 (12033117) 404670.14
3774799.03 77.86093 (13020917)
404720.14 3774799.03 126.32654 (15022217) 404770.14
3774799.03 180.53180 (15022217)
404820.14 3774799.03 168.19781 (15022217) 404870.14
3774799.03 184.36953 (16020617)
404970.14 3774799.03 197.57528 (12071919) 405020.14
3774799.03 149.70589 (12071919)
405070.14 3774799.03 120.18019 (12121716) 405120.14
3774799.03 93.63425 (12121716)
405170.14 3774799.03 72.58356 (12043018) 405220.14
3774799.03 60.36629 (12043018)
405270.14 3774799.03 50.15905 (12043018) 405320.14
3774799.03 41.81087 (12043018)
405370.14 3774799.03 35.01393 (12043018) 405420.14
3774799.03 29.48752 (12043018)
405470.14 3774799.03 24.98021 (12043018) 405520.14
3774799.03 21.28457 (12043018)
405570.14 3774799.03 18.23302 (12043018) 405620.14
3774799.03 15.69939 (12043018)
405670.14 3774799.03 13.58269 (12043018) 405720.14
3774799.03 11.80380 (12043018)
405770.14 3774799.03 10.30088 (12043018) 405820.14
3774799.03 9.02507 (12043018)
403870.14 3774849.03 15.17118 (12033117) 403920.14
3774849.03 16.75327 (12033117)
403970.14 3774849.03 18.51478 (12033117) 404020.14
3774849.03 20.44994 (12033117)
404070.14 3774849.03 22.49080 (12033117) 404120.14
3774849.03 24.85948 (12033117)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404870.14	3774849.03	110.12203	(16020617)	404970.14	3774849.03	111.22097	(12071919)
405020.14	3774849.03	113.94573	(12071919)	405070.14	3774849.03	95.98305	(12071919)
405120.14	3774849.03	76.44663	(12121716)	405170.14	3774849.03	67.17299	(12121716)
405220.14	3774849.03	56.74217	(12121716)	405270.14			

3774849.03 46.78844 (12121716)
405320.14 3774849.03 39.28710 (12043018) 405370.14
3774849.03 34.70574 (12043018)
405420.14 3774849.03 30.51702 (12043018) 405470.14
3774849.03 26.78233 (12043018)
405520.14 3774849.03 23.49813 (12043018) 405570.14
3774849.03 20.62719 (12043018)
405620.14 3774849.03 18.13271 (12043018) 405670.14
3774849.03 15.96697 (12043018)
405720.14 3774849.03 14.08823 (12043018) 405770.14
3774849.03 12.45670 (12043018)
405820.14 3774849.03 11.03903 (12043018) 403870.14
3774899.03 15.02363 (12033117)
403920.14 3774899.03 16.16127 (12033117) 403970.14
3774899.03 17.36424 (12033117)
404020.14 3774899.03 18.59780 (12033117) 404070.14
3774899.03 19.83079 (12033117)
404120.14 3774899.03 21.01651 (12033117) 404170.14
3774899.03 22.05683 (12033117)
404220.14 3774899.03 22.90615 (12033117) 404270.14
3774899.03 23.41752 (12033117)
404320.14 3774899.03 23.39121 (12033117) 404370.14
3774899.03 22.92111 (12033117)
404420.14 3774899.03 20.73789 (12033117) 404470.14
3774899.03 21.68786 (12020617)
404520.14 3774899.03 24.58339 (12111616) 404570.14
3774899.03 30.21304 (12111616)
404620.14 3774899.03 33.04750 (12111616) 404670.14
3774899.03 53.08671 (15022217)
404720.14 3774899.03 74.99824 (15022217) 404770.14
3774899.03 77.57545 (15022217)
404820.14 3774899.03 72.57445 (16123116) 404870.14
3774899.03 69.74776 (16020617)
404970.14 3774899.03 59.59331 (16020617) 405020.14
3774899.03 71.95839 (12071919)
405070.14 3774899.03 75.20714 (12071919) 405120.14
3774899.03 67.84998 (12071919)
405170.14 3774899.03 55.76924 (12071919) 405220.14
3774899.03 47.75493 (12121716)
405270.14 3774899.03 43.57818 (12121716) 405320.14
3774899.03 38.50376 (12121716)
405370.14 3774899.03 33.27576 (12121716) 405420.14
3774899.03 28.34946 (12121716)
405470.14 3774899.03 24.92632 (12043018) 405520.14
3774899.03 22.75212 (12043018)
405570.14 3774899.03 20.65792 (12043018) 405620.14
3774899.03 18.68999 (12043018)
405670.14 3774899.03 16.87304 (12043018) 405720.14
3774899.03 15.21368 (12043018)
405770.14 3774899.03 13.70903 (12043018) 405820.14

3774899.03   12.35274 (12043018)
        403870.14   3774949.03   13.23141 (12033117)   403920.14
3774949.03   13.81631 (12033117)
        403970.14   3774949.03   14.34218 (12033117)   404020.14
3774949.03   14.79244 (12033117)
        404070.14   3774949.03   15.05164 (12033117)   404120.14
3774949.03   15.12578 (12033117)
        404170.14   3774949.03   14.94968 (12033117)   404220.14
3774949.03   14.47577 (12033117)
        404270.14   3774949.03   13.58067 (12033117)   404320.14
3774949.03   12.30438 (12020617)
        404370.14   3774949.03   14.42049 (12020617)   404420.14
3774949.03   16.45606 (12020617)
        404470.14   3774949.03   18.38984 (12111616)   404520.14
3774949.03   21.44186 (12111616)
        404570.14   3774949.03   22.82807 (12111616)   404620.14
3774949.03   30.87241 (15022217)
        404670.14   3774949.03   47.30848 (15022217)   404720.14
3774949.03   57.51091 (15022217)
        404770.14   3774949.03   54.18256 (15022217)   404820.14
3774949.03   54.28938 (16123116)
        404870.14   3774949.03   49.99747 (16123116)   404920.14
3774949.03   51.75466 (16020617)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

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        405370.14   3774999.03       25.63198  (12071919)               405420.14
3774999.03       24.31367  (12121716)
        405470.14   3774999.03       23.02420  (12121716)               405520.14
3774999.03       21.37492  (12121716)
        405570.14   3774999.03       19.41770  (12121716)               405620.14
3774999.03       17.46252  (12121716)
        405670.14   3774999.03       15.54256  (12121716)               405720.14
3774999.03       13.72273  (12121716)
        405770.14   3774999.03       12.75109  (12043018)               405820.14
3774999.03       12.04141  (12043018)
        403870.14   3775049.03       10.12881  (16102717)               403920.14
3775049.03       10.62602  (16102717)
        403970.14   3775049.03       10.96172  (16102717)               404020.14
3775049.03       11.37641  (16102717)
        404070.14   3775049.03       11.47767  (16102717)               404120.14
3775049.03       11.98708  (15100404)
        404170.14   3775049.03       12.45346  (15100404)               404220.14
3775049.03        8.66967  (12020617)
        404270.14   3775049.03        9.36856  (12020617)               404320.14
3775049.03        9.85022  (12111616)
        404370.14   3775049.03       11.29820  (12111616)               404420.14
3775049.03       12.35257  (12111616)
        404470.14   3775049.03       12.67255  (12111616)               404520.14
3775049.03       12.49661  (15011115)
        404570.14   3775049.03       20.00861  (15022217)               404620.14
3775049.03       28.24532  (15022217)
        404670.14   3775049.03       34.04405  (15022217)               404720.14
3775049.03       34.39083  (15022217)
        404770.14   3775049.03       28.64366  (12021917)               404820.14
3775049.03       34.64879  (16123116)
        404870.14   3775049.03       32.57820  (16123116)               404920.14
3775049.03       28.45678  (16020617)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404970.14	3775049.03	29.77997	(16020617)	405020.14	3775049.03	27.13185	(16020617)
405070.14	3775049.03	24.09816	(15102517)	405120.14	3775049.03	23.45973	(12071919)
405170.14	3775049.03	28.34807	(12071919)	405220.14	3775049.03	30.70589	(12071919)
405270.14	3775049.03	30.46875	(12071919)	405320.14	3775049.03	28.90345	(12071919)
405370.14	3775049.03	25.82548	(12071919)	405420.14	3775049.03	22.28692	(12071919)
405470.14	3775049.03	19.13474	(12121716)	405520.14	3775049.03	18.76886	(12121716)
405570.14	3775049.03	17.98845	(12121716)	405620.14	3775049.03	16.86996	(12121716)
405670.14	3775049.03	15.66552	(12121716)	405720.14	3775049.03	14.25588	(12121716)
405770.14	3775049.03	12.88144	(12121716)	405820.14	3775049.03	11.57835	(12121716)
403870.14	3775099.03	10.21679	(16122319)	403920.14	3775099.03	10.56018	(12011122)
403970.14	3775099.03	10.99772	(12011122)	404020.14	3775099.03	11.23715	(13012505)
404070.14	3775099.03	11.65427	(15100404)	404120.14	3775099.03	12.15915	(15100404)
404170.14	3775099.03	12.45109	(16102307)	404220.14	3775099.03	12.42977	(16102307)
404270.14	3775099.03	8.57816	(16102307)	404320.14	3775099.03	9.13718	(12111616)
404370.14	3775099.03	9.79236	(12111616)	404420.14	3775099.03	9.94016	(12111616)
404470.14	3775099.03	10.28427	(14121123)	404520.14	3775099.03	13.62707	(15022217)
404570.14	3775099.03	19.78222	(15022217)	404620.14	3775099.03	25.42799	(15022217)
404670.14	3775099.03	28.33351	(15022217)	404720.14	3775099.03	26.87069	(15022217)
404770.14	3775099.03	24.10676	(12021917)	404820.14	3775099.03	28.61070	(16123116)
404870.14	3775099.03	27.22305	(16123116)	404920.14			

3775099.03   22.07437 (16013017)
        404970.14   3775099.03   23.64879 (16020617)   405020.14
3775099.03   22.81111 (16020617)
        405070.14   3775099.03   19.79604 (16020617)   405120.14
3775099.03   19.16457 (15102517)
        405170.14   3775099.03   18.68660 (12071919)   405220.14
3775099.03   22.33499 (12071919)
        405270.14   3775099.03   24.26879 (12071919)   405320.14
3775099.03   24.76185 (12071919)
        405370.14   3775099.03   23.81707 (12071919)   405420.14
3775099.03   21.91296 (12071919)
        405470.14   3775099.03   19.59773 (12071919)   405520.14
3775099.03   17.01328 (12071919)
        405570.14   3775099.03   15.12986 (12121716)   405620.14
3775099.03   14.91280 (12121716)
        405670.14   3775099.03   14.40582 (12121716)   405720.14
3775099.03   13.66907 (12121716)
        405770.14   3775099.03   12.73852 (12121716)   405820.14
3775099.03   11.81699 (12121716)
        403870.14   3775149.03   10.28828 (13012505)   403920.14
3775149.03   10.68576 (13012505)
        403970.14   3775149.03   11.34657 (15100404)   404020.14
3775149.03   11.75682 (15100404)
        404070.14   3775149.03   11.93606 (15100404)   404120.14
3775149.03   12.21324 (16102307)
        404170.14   3775149.03   12.51328 (16102307)   404220.14
3775149.03   12.35296 (16102307)
        404270.14   3775149.03   12.86159 (12112901)   404320.14
3775149.03   12.56765 (12112901)
        404370.14   3775149.03   13.30984 (16042801)   404420.14
3775149.03   14.07749 (14121123)
        404470.14   3775149.03   16.79454 (12122017)   404520.14
3775149.03   14.08317 (15022217)
        404570.14   3775149.03   19.07729 (12090205)   404620.14
3775149.03   22.42498 (15022217)
        404670.14   3775149.03   23.37823 (15022217)   404720.14
3775149.03   21.07413 (15022217)
        404770.14   3775149.03   20.52823 (12021917)   404820.14
3775149.03   24.15184 (16123116)
        404870.14   3775149.03   23.10309 (16123116)   404920.14
3775149.03   18.73555 (16013017)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        404970.14   3775149.03   18.90566 (16020617)   405020.14
3775149.03   19.03736 (16020617)
        405070.14   3775149.03   17.42120 (16020617)   405120.14
3775149.03   15.77274 (15102517)
        405170.14   3775149.03   15.42159 (15102517)   405220.14
3775149.03   15.17108 (12071919)
        405270.14   3775149.03   18.01698 (12071919)   405320.14
3775149.03   19.83775 (12071919)
        405370.14   3775149.03   20.34752 (12071919)   405420.14
3775149.03   20.05081 (12071919)
        405470.14   3775149.03   18.80474 (12071919)   405520.14
3775149.03   17.13484 (12071919)
        405570.14   3775149.03   15.24776 (12071919)   405620.14
3775149.03   13.29317 (12071919)
        405670.14   3775149.03   12.25400 (12121716)   405720.14
3775149.03   12.14954 (12121716)
        405770.14   3775149.03   11.74591 (12121716)   405820.14
3775149.03   11.25400 (12121716)
        403870.14   3775199.03   10.06179 (15100404)   403920.14
3775199.03   10.44666 (15100404)
        403970.14   3775199.03   10.71711 (15100404)   404020.14
3775199.03   10.98147 (16102307)
        404070.14   3775199.03   11.33839 (16102307)   404120.14
3775199.03   11.94097 (16102307)
        404170.14   3775199.03   12.23384 (13041605)   404220.14
3775199.03   12.41308 (12112901)
        404270.14   3775199.03   12.77353 (12112901)   404320.14
3775199.03   13.36084 (16042801)
        404370.14   3775199.03   14.23553 (14121123)   404420.14
3775199.03   15.73420 (12122017)

404470.14 3775199.03 16.59816 (12042522) 404520.14
3775199.03 16.97022 (12090205)
404570.14 3775199.03 17.94352 (12090205) 404620.14
3775199.03 19.44700 (15022217)
404670.14 3775199.03 19.28219 (15022217) 404720.14
3775199.03 16.72104 (15022217)
404770.14 3775199.03 17.73801 (12021917) 404820.14
3775199.03 20.57838 (16123116)
404870.14 3775199.03 19.82494 (16123116) 404920.14
3775199.03 16.00319 (16013017)
404970.14 3775199.03 15.24236 (16020617) 405020.14
3775199.03 16.16288 (12110815)
405070.14 3775199.03 15.45324 (12110815) 405120.14
3775199.03 13.49848 (16020617)
405170.14 3775199.03 13.16318 (15102517) 405220.14
3775199.03 12.66274 (15102517)
405270.14 3775199.03 12.54321 (12071919) 405320.14
3775199.03 14.82924 (12071919)
405370.14 3775199.03 16.30549 (12071919) 405420.14
3775199.03 17.08079 (12071919)
405470.14 3775199.03 16.98855 (12071919) 405520.14
3775199.03 16.25428 (12071919)
405570.14 3775199.03 15.08084 (12071919) 405620.14
3775199.03 13.66533 (12071919)
405670.14 3775199.03 12.17040 (12071919) 405720.14
3775199.03 10.65147 (12071919)
405770.14 3775199.03 10.09728 (12121716) 405820.14
3775199.03 10.02704 (12121716)
403870.14 3775249.03 10.29014 (15100404) 403920.14
3775249.03 10.63864 (15100404)
403970.14 3775249.03 11.11166 (13030105) 404020.14
3775249.03 11.28089 (13030105)
404070.14 3775249.03 11.60852 (13041605) 404120.14
3775249.03 11.84276 (13041605)
404170.14 3775249.03 12.21993 (12112901) 404220.14
3775249.03 12.43337 (12112901)
404270.14 3775249.03 13.26346 (16042801) 404320.14
3775249.03 13.26732 (14121123)
404370.14 3775249.03 13.99224 (12122017) 404420.14
3775249.03 15.69049 (12042522)
404470.14 3775249.03 16.35288 (12041022) 404520.14
3775249.03 16.59099 (12090205)
404570.14 3775249.03 17.19089 (16042722) 404620.14
3775249.03 16.87918 (16042722)
404670.14 3775249.03 15.90505 (15022217) 404720.14
3775249.03 13.68431 (12021917)
404770.14 3775249.03 15.54224 (12021917) 404820.14
3775249.03 17.71132 (16123116)
404870.14 3775249.03 17.17502 (16123116) 404920.14
3775249.03 13.74884 (16013017)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: CONST   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
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        404070.14   3775299.03       11.32834  (12112901)                404120.14
3775299.03       11.88046  (12112901)
        404170.14   3775299.03       12.10200  (12112901)                404220.14
3775299.03       11.90100  (16042801)
        404270.14   3775299.03       12.64938  (14121123)                404320.14
3775299.03       13.35115  (12122017)
        404370.14   3775299.03       14.00615  (12042522)                404420.14
3775299.03       14.87265  (12041022)
        404470.14   3775299.03       15.26383  (12090205)                404520.14
3775299.03       15.31713  (12090205)
        404570.14   3775299.03       15.48312  (16042722)                404620.14
3775299.03       15.23702  (16042722)
        404670.14   3775299.03       15.55522  (13050621)                404720.14
3775299.03       15.30596  (13100906)
        404770.14   3775299.03       13.67872  (12021917)                404820.14
3775299.03       15.44717  (16123116)
        404870.14   3775299.03       15.05863  (16123116)                404920.14
3775299.03       12.17066  (16123116)
        404970.14   3775299.03       11.72192  (16013017)                405020.14
3775299.03       11.34781  (12110815)
        405070.14   3775299.03       12.24853  (12110815)                405120.14
3775299.03       11.55430  (12110815)
        405170.14   3775299.03        9.75871  (16020617)                405220.14
3775299.03        9.47347  (15102517)
        405270.14   3775299.03        9.40519  (15102517)                405320.14
3775299.03        8.85783  (15102517)
        405370.14   3775299.03        8.93170  (12071919)                405420.14
3775299.03       10.45942  (12071919)
        405470.14   3775299.03       11.58812  (12071919)                405520.14
3775299.03       12.25158  (12071919)
        405570.14   3775299.03       12.44947  (12071919)                405620.14
3775299.03       12.25066  (12071919)
        405670.14   3775299.03       11.73393  (12071919)                405720.14
3775299.03       10.98722  (12071919)
        405770.14   3775299.03       10.08875  (12071919)                405820.14
3775299.03        9.12052  (12071919)
        403870.14   3775349.03       10.05005  (13030105)                403920.14
3775349.03       10.31731  (13041605)
        403970.14   3775349.03       10.59741  (13041605)                404020.14
3775349.03       10.70429  (12112901)
        404070.14   3775349.03       10.95493  (12112901)                404120.14
3775349.03       11.01444  (12112901)
        404170.14   3775349.03       11.82314  (16042801)                404220.14
3775349.03       12.03123  (14121123)
        404270.14   3775349.03       12.63640  (12122017)                404320.14
3775349.03       13.08374  (12042522)
        404370.14   3775349.03       12.81479  (12042522)                404420.14
3775349.03       14.20174  (12041701)
        404470.14   3775349.03       14.38748  (12090205)                404520.14
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3775349.03   14.41041 (16042722)
        404570.14   3775349.03   14.66684 (16042722)   404620.14
3775349.03   14.24859 (16122317)
        404670.14   3775349.03   14.73358 (13050621)   404720.14
3775349.03   14.82347 (13100906)
        404770.14   3775349.03   14.65156 (15100322)   404820.14
3775349.03   14.17419 (15100322)
        404870.14   3775349.03   14.77963 (14103121)   404920.14
3775349.03   10.97484 (16123116)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: CONST   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        404970.14   3775349.03   10.51430 (16013017)   405020.14
3775349.03   13.21485 (13092518)
        405070.14   3775349.03   10.70754 (12110815)   405120.14
3775349.03   10.71543 (12110815)
        405170.14   3775349.03   9.74139 (14051719)   405220.14
3775349.03   8.50780 (14051719)
        405270.14   3775349.03   8.23227 (15102517)   405320.14
3775349.03   8.06493 (15102517)
        405370.14   3775349.03   7.55337 (15102517)   405420.14
3775349.03   7.65738 (12071919)
        405470.14   3775349.03   8.94081 (12071919)   405520.14
3775349.03   9.92847 (12071919)

405570.14 3775349.03 10.56676 (12071919) 405620.14
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405670.14 3775349.03 10.81043 (12071919) 405720.14
3775349.03 10.45283 (12071919)
405770.14 3775349.03 9.90137 (12071919) 405820.14
3775349.03 9.21046 (12071919)
403870.14 3775399.03 9.85149 (13082606) 403920.14
3775399.03 9.98488 (13041605)
403970.14 3775399.03 10.35658 (12112901) 404020.14
3775399.03 10.52624 (12112901)
404070.14 3775399.03 10.74554 (12112901) 404120.14
3775399.03 10.96550 (16042801)
404170.14 3775399.03 11.30288 (14121123) 404220.14
3775399.03 11.87429 (12122017)
404270.14 3775399.03 12.34226 (12122017) 404320.14
3775399.03 12.99273 (12042522)
404370.14 3775399.03 11.75788 (12041022) 404420.14
3775399.03 12.37605 (12090205)
404470.14 3775399.03 12.87307 (12090205) 404520.14
3775399.03 13.50324 (16042722)
404570.14 3775399.03 13.94325 (16042722) 404620.14
3775399.03 13.91454 (16122317)
404670.14 3775399.03 13.95512 (13050621) 404720.14
3775399.03 13.72655 (16122320)
404770.14 3775399.03 13.95874 (15100322) 404820.14
3775399.03 14.27867 (15100322)
404870.14 3775399.03 13.59440 (14103121) 404920.14
3775399.03 13.03316 (15100405)
404970.14 3775399.03 12.37732 (12082705) 405020.14
3775399.03 12.24663 (13092518)
405070.14 3775399.03 11.08132 (15100321) 405120.14
3775399.03 11.53989 (15100321)
405170.14 3775399.03 9.07049 (14051719) 405220.14
3775399.03 7.57960 (12110815)
405270.14 3775399.03 7.06444 (15102517) 405320.14
3775399.03 7.17731 (15102517)
405370.14 3775399.03 6.96347 (15102517) 405420.14
3775399.03 6.49073 (15102517)
405470.14 3775399.03 6.63332 (12071919) 405520.14
3775399.03 7.71451 (12071919)
405570.14 3775399.03 8.57728 (12071919) 405620.14
3775399.03 9.14305 (12071919)
405670.14 3775399.03 9.44104 (12071919) 405720.14
3775399.03 9.49803 (12071919)
405770.14 3775399.03 9.31764 (12071919) 405820.14
3775399.03 8.95320 (12071919)
403870.14 3775449.03 9.62914 (13082606) 403920.14
3775449.03 9.80743 (12112901)
403970.14 3775449.03 10.14276 (12112901) 404020.14
3775449.03 10.24379 (12112901)

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        404070.14   3775449.03       10.36371  (16042801)                404120.14
3775449.03       10.72761  (16042801)
        404170.14   3775449.03       11.12629  (14121123)                404220.14
3775449.03       11.48497  (12122017)
        404270.14   3775449.03       12.20445  (12042522)                404320.14
3775449.03       12.38931  (12041022)
        404370.14   3775449.03       12.56177  (12041701)                404420.14
3775449.03       12.83217  (12090205)
        404470.14   3775449.03       12.72865  (16042722)                404520.14
3775449.03       12.96783  (16042722)
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3775449.03       13.09083  (16122317)
        404670.14   3775449.03       13.19458  (13050621)                404720.14
3775449.03       13.20681  (16122320)
        404770.14   3775449.03       13.34159  (15100322)                404820.14
3775449.03       13.19849  (15100322)
        404870.14   3775449.03       12.77599  (14103121)                404920.14
3775449.03       12.47491  (15100405)
♠ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                   PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONST    ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        404970.14   3775449.03       12.26078  (12082705)                405020.14
3775449.03       12.33671  (13092518)
        405070.14   3775449.03       11.84923  (15100321)                405120.14
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3775449.03 11.54790 (15100321)
405170.14 3775449.03 11.00893 (14051719) 405220.14
3775449.03 10.71893 (14051719)
405270.14 3775449.03 10.00518 (14051719) 405320.14
3775449.03 6.76434 (13012617)
405370.14 3775449.03 6.29888 (15102517) 405420.14
3775449.03 7.42089 (15091119)
405470.14 3775449.03 5.63926 (15102517) 405520.14
3775449.03 5.78081 (12071919)
405570.14 3775449.03 6.71192 (12071919) 405620.14
3775449.03 7.46720 (12071919)
405670.14 3775449.03 8.01755 (12071919) 405720.14
3775449.03 8.34557 (12071919)
405770.14 3775449.03 8.43931 (12071919) 405820.14
3775449.03 8.33954 (12071919)
403870.14 3775499.03 9.42250 (12112901) 403920.14
3775499.03 9.67806 (12112901)
403970.14 3775499.03 9.83069 (12112901) 404020.14
3775499.03 9.93644 (16042801)
404070.14 3775499.03 10.12717 (16042801) 404120.14
3775499.03 10.55924 (14121123)
404170.14 3775499.03 10.86321 (12122017) 404220.14
3775499.03 11.23335 (12042522)
404270.14 3775499.03 11.75576 (12042522) 404320.14
3775499.03 11.63818 (12041701)
404370.14 3775499.03 12.00844 (12090205) 404420.14
3775499.03 11.97426 (12090205)
404470.14 3775499.03 12.14178 (16042722) 404520.14
3775499.03 11.99845 (16042722)
404570.14 3775499.03 11.79210 (16122317) 404620.14
3775499.03 12.35142 (13050621)
404670.14 3775499.03 12.59727 (13050621) 404720.14
3775499.03 12.58597 (16122320)
404770.14 3775499.03 12.66450 (15100322) 404820.14
3775499.03 12.50407 (15100322)
404870.14 3775499.03 12.32455 (14103121) 404920.14
3775499.03 11.90576 (15100405)
404970.14 3775499.03 11.95359 (15100405) 405020.14
3775499.03 11.66975 (13092518)
405070.14 3775499.03 11.18116 (13050419) 405120.14
3775499.03 10.92787 (15100321)
405170.14 3775499.03 10.30569 (15100321) 405220.14
3775499.03 10.09420 (14051719)
405270.14 3775499.03 9.71018 (14051719) 405320.14
3775499.03 9.27065 (13012617)
405370.14 3775499.03 8.88195 (15091119) 405420.14
3775499.03 8.64619 (15091119)
405470.14 3775499.03 8.30772 (12103017) 405520.14
3775499.03 6.67351 (12103017)
405570.14 3775499.03 5.37220 (15070319) 405620.14

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3775499.03        5.88501  (12071919)
        405670.14   3775499.03        6.54577  (12071919)                405720.14
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        405770.14   3775499.03        7.36080  (12071919)                405820.14
3775499.03        7.50076  (12071919)
        403870.14   3775549.03        9.19481  (12112901)                403920.14
3775549.03        9.20212  (12112901)
        403970.14   3775549.03        9.41990  (16042801)                404020.14
3775549.03        9.62230  (16042801)
        404070.14   3775549.03        9.96437  (14121123)                404120.14
3775549.03       10.27332  (12122017)
        404170.14   3775549.03       10.55313  (12042522)                404220.14
3775549.03       10.87056  (12042522)
        404270.14   3775549.03       11.16241  (12041022)                404320.14
3775549.03       11.36692  (12041701)
        404370.14   3775549.03       11.43014  (12090205)                404420.14
3775549.03       11.45332  (16042722)
        404470.14   3775549.03       11.90376  (16042722)                404520.14
3775549.03       11.79824  (16042722)
        404570.14   3775549.03       11.87250  (16122317)                404620.14
3775549.03       11.94994  (13050621)
        404670.14   3775549.03       11.94222  (13100906)                404720.14
3775549.03       11.98898  (16122320)
        404770.14   3775549.03       12.45154  (15100322)                404820.14
3775549.03       11.74834  (15100322)
        404870.14   3775549.03       11.76281  (14103121)                404920.14
3775549.03       11.53891  (14103121)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  CONST    ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404970.14	3775549.03	11.67862	(15100405)	405020.14	3775549.03	11.17625	(13092518)
405070.14	3775549.03	11.04205	(13092518)	405120.14	3775549.03	10.82660	(15100321)
405170.14	3775549.03	10.27991	(15100321)	405220.14	3775549.03	9.75578	(14051719)
405270.14	3775549.03	9.30781	(14051719)	405320.14	3775549.03	8.88271	(14051719)
405370.14	3775549.03	8.68262	(13012617)	405420.14	3775549.03	8.82159	(15091119)
405470.14	3775549.03	8.49170	(15091119)	405520.14	3775549.03	7.94096	(15091119)
405570.14	3775549.03	7.19633	(12103017)	405620.14	3775549.03	6.81904	(15070319)
405670.14	3775549.03	5.19062	(12071919)	405720.14	3775549.03	5.78080	(12071919)
405770.14	3775549.03	6.23517	(12071919)	405820.14	3775549.03	6.55124	(12071919)
403870.14	3775599.03	9.24017	(12101702)	403920.14	3775599.03	9.21557	(16042801)
403970.14	3775599.03	9.34160	(16042801)	404020.14	3775599.03	9.59531	(14121123)
404070.14	3775599.03	9.72255	(12122017)	404120.14	3775599.03	9.86236	(12042522)
404170.14	3775599.03	10.24774	(12042522)	404220.14	3775599.03	10.41701	(12041022)
404270.14	3775599.03	10.80840	(12041701)	404320.14	3775599.03	10.93660	(12090205)
404370.14	3775599.03	10.82366	(13121901)	404420.14	3775599.03	11.21999	(16042722)
404470.14	3775599.03	11.42162	(16042722)	404520.14	3775599.03	11.09839	(16042722)
404570.14	3775599.03	11.55356	(16122317)	404620.14	3775599.03	11.45766	(13050621)
404670.14	3775599.03	11.75645	(13100906)	404720.14	3775599.03	11.83045	(13050620)
404770.14	3775599.03	11.63318	(15100322)	404820.14	3775599.03	11.23119	(15100322)
404870.14	3775599.03	11.32203	(14103121)	404920.14	3775599.03	11.02959	(14103121)
404970.14	3775599.03	11.28417	(15100405)	405020.14	3775599.03	10.95838	(12082705)
405070.14	3775599.03	10.88799	(13092518)	405120.14	3775599.03	10.20382	(15100321)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3773649.03	2.25655	(12021216)	403920.14	3773649.03	2.68090	(12021216)
403970.14	3773649.03	3.09276	(12021216)	404020.14	3773649.03	3.45532	(12021216)
404070.14	3773649.03	3.72888	(12021216)	404120.14	3773649.03	4.62269	(12111715)
404170.14	3773649.03	5.67556	(12111715)	404220.14			

3773649.03 6.60471 (12111715)
404270.14 3773649.03 7.26168 (12111715) 404320.14
3773649.03 7.51323 (12111715)
404370.14 3773649.03 7.28581 (12111715) 404420.14
3773649.03 7.86335 (12021515)
404470.14 3773649.03 8.10320 (12021515) 404520.14
3773649.03 7.76696 (12021515)
404570.14 3773649.03 6.89563 (12021515) 404620.14
3773649.03 5.65522 (12021515)
404670.14 3773649.03 4.41281 (15122816) 404720.14
3773649.03 4.95034 (15122816)
404770.14 3773649.03 5.17736 (15122816) 404820.14
3773649.03 5.04585 (15122816)
404870.14 3773649.03 5.72716 (12101116) 404920.14
3773649.03 6.23202 (12101116)
404970.14 3773649.03 6.28724 (12101116) 405020.14
3773649.03 5.89258 (12101116)
405070.14 3773649.03 6.52418 (12042618) 405120.14
3773649.03 7.38970 (12042618)
405170.14 3773649.03 7.82147 (12042618) 405220.14
3773649.03 7.76385 (12042618)
405270.14 3773649.03 7.25265 (12042618) 405320.14
3773649.03 7.51306 (12120216)
405370.14 3773649.03 7.42827 (12120216) 405420.14
3773649.03 6.89383 (12120216)
405470.14 3773649.03 6.02990 (12120216) 405520.14
3773649.03 4.98960 (12120216)
405570.14 3773649.03 4.59843 (12111716) 405620.14
3773649.03 4.06252 (12111716)
405670.14 3773649.03 3.43518 (12111716) 405720.14
3773649.03 2.78851 (12111716)
405770.14 3773649.03 2.71907 (14120116) 405820.14
3773649.03 2.67108 (14120116)
403870.14 3773699.03 2.06195 (12021216) 403920.14
3773699.03 2.52176 (12021216)
403970.14 3773699.03 2.99568 (12021216) 404020.14
3773699.03 3.44769 (12021216)
404070.14 3773699.03 3.83334 (12021216) 404120.14
3773699.03 4.30410 (12111715)
404170.14 3773699.03 5.48638 (12111715) 404220.14
3773699.03 6.62530 (12111715)
404270.14 3773699.03 7.54987 (12111715) 404320.14
3773699.03 8.08635 (12111715)
404370.14 3773699.03 8.10562 (12111715) 404420.14
3773699.03 8.27742 (12021515)
404470.14 3773699.03 8.77340 (12021515) 404520.14
3773699.03 8.62536 (12021515)
404570.14 3773699.03 7.83251 (12021515) 404620.14
3773699.03 6.54351 (12021515)
404670.14 3773699.03 5.00896 (12021515) 404720.14

3773699.03   5.31908 (15122816)
        404770.14   3773699.03   5.59982 (15122816)   404820.14
3773699.03   5.47198 (15122816)
        404870.14   3773699.03   6.26064 (12101116)   404920.14
3773699.03   6.78053 (12101116)
        404970.14   3773699.03   6.78071 (12101116)   405020.14
3773699.03   6.27243 (12101116)
        405070.14   3773699.03   7.39591 (12042618)   405120.14
3773699.03   8.22580 (12042618)
        405170.14   3773699.03   8.52363 (12042618)   405220.14
3773699.03   8.26237 (12042618)
        405270.14   3773699.03   8.00010 (12120216)   405320.14
3773699.03   8.18555 (12120216)
        405370.14   3773699.03   7.81702 (12120216)   405420.14
3773699.03   6.99845 (12120216)
        405470.14   3773699.03   5.89961 (12120216)   405520.14
3773699.03   5.14711 (12111716)
        405570.14   3773699.03   4.60120 (12111716)   405620.14
3773699.03   3.92111 (12111716)
        405670.14   3773699.03   3.19345 (12111716)   405720.14
3773699.03   2.97674 (14120116)
        405770.14   3773699.03   2.92282 (14120116)   405820.14
3773699.03   2.81890 (14120116)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)

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        404270.14   3773799.03        7.71265  (12111715)               404320.14
3773799.03        8.93199  (12111715)
        404370.14   3773799.03        9.65123  (12111715)               404420.14
3773799.03        9.67913  (12111715)
        404470.14   3773799.03       10.05905  (12021515)               404520.14
3773799.03       10.48963  (12021515)
        404570.14   3773799.03       10.03908  (12021515)               404620.14
3773799.03        8.76569  (12021515)
        404670.14   3773799.03        6.94842  (12021515)               404720.14
3773799.03        6.19824  (15122816)
        404770.14   3773799.03        6.62992  (15122816)               404820.14
3773799.03        6.51381  (15122816)
        404870.14   3773799.03        7.57064  (12101116)               404920.14
3773799.03        8.10759  (12101116)
        404970.14   3773799.03        7.93609  (12101116)               405020.14
3773799.03        8.21279  (12042618)
        405070.14   3773799.03        9.49323  (12042618)               405120.14
3773799.03       10.11906  (12042618)
        405170.14   3773799.03        9.97864  (12042618)               405220.14
3773799.03        9.53537  (12120216)
        405270.14   3773799.03        9.78545  (12120216)               405320.14
3773799.03        9.28901  (12120216)
        405370.14   3773799.03        8.20034  (12120216)               405420.14
3773799.03        6.77061  (12120216)
        405470.14   3773799.03        5.91969  (12111716)               405520.14
3773799.03        5.14125  (12111716)
        405570.14   3773799.03        4.23905  (12111716)               405620.14
3773799.03        3.62654  (14120116)
        405670.14   3773799.03        3.55584  (14120116)               405720.14
3773799.03        3.41588  (14120116)
        405770.14   3773799.03        3.22003  (14120116)               405820.14
3773799.03        3.03053  (12012517)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                 PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3773849.03	2.29576	(16093007)	403920.14	3773849.03	2.41169	(16093007)
403970.14	3773849.03	2.53378	(16093007)	404020.14	3773849.03	2.94711	(12021216)
404070.14	3773849.03	3.62359	(12021216)	404120.14	3773849.03	4.29510	(12021216)
404170.14	3773849.03	4.89141	(12021216)	404220.14	3773849.03	5.83125	(12111715)
404270.14	3773849.03	7.53578	(12111715)	404320.14	3773849.03	9.12032	(12111715)
404370.14	3773849.03	10.28431	(12111715)	404420.14	3773849.03	10.74146	(12111715)
404470.14	3773849.03	10.62302	(12021515)	404520.14	3773849.03	11.45492	(12021515)
404570.14	3773849.03	11.31184	(12021515)	404620.14	3773849.03	10.14148	(12021515)
404670.14	3773849.03	8.20934	(12021515)	404720.14	3773849.03	6.72191	(15122816)
404770.14	3773849.03	7.25680	(15122816)	404820.14	3773849.03	7.15413	(15122816)
404870.14	3773849.03	8.37858	(12101116)	404920.14	3773849.03	8.91010	(12101116)
404970.14	3773849.03	8.61281	(12101116)	405020.14	3773849.03	9.48785	(12042618)
405070.14	3773849.03	10.74230	(12042618)	405120.14	3773849.03	11.15957	(12042618)
405170.14	3773849.03	10.69029	(12042618)	405220.14	3773849.03	10.74177	(12120216)
405270.14	3773849.03	10.58559	(12120216)	405320.14	3773849.03	9.62830	(12120216)
405370.14	3773849.03	8.13027	(12120216)	405420.14	3773849.03	6.73200	(12111716)
405470.14	3773849.03	5.91685	(12111716)	405520.14	3773849.03	4.91388	(12111716)
405570.14	3773849.03	4.04667	(14120116)	405620.14	3773849.03	3.96373	(14120116)
405670.14	3773849.03	3.79626	(14120116)	405720.14	3773849.03	3.56515	(14120116)
405770.14	3773849.03	3.38381	(12012517)	405820.14			

3773849.03   3.27419 (12012517)
        403870.14   3773899.03   2.39728 (16093007)   403920.14
3773899.03   2.52525 (16093007)
        403970.14   3773899.03   2.66083 (16093007)   404020.14
3773899.03   2.80428 (16093007)
        404070.14   3773899.03   3.35742 (12021216)   404120.14
3773899.03   4.13515 (12021216)
        404170.14   3773899.03   4.89555 (12021216)   404220.14
3773899.03   5.54496 (12021216)
        404270.14   3773899.03   7.16000 (12111715)   404320.14
3773899.03   9.09314 (12111715)
        404370.14   3773899.03   10.74260 (12111715)   404420.14
3773899.03   11.73421 (12111715)
        404470.14   3773899.03   11.76797 (12111715)   404520.14
3773899.03   12.39005 (12021515)
        404570.14   3773899.03   12.69085 (12021515)   404620.14
3773899.03   11.71669 (12021515)
        404670.14   3773899.03   9.71698 (12021515)   404720.14
3773899.03   7.31588 (15122816)
        404770.14   3773899.03   7.98147 (15122816)   404820.14
3773899.03   7.95605 (12101116)
        404870.14   3773899.03   9.31889 (12101116)   404920.14
3773899.03   9.83450 (12101116)
        404970.14   3773899.03   9.36716 (12101116)   405020.14
3773899.03   10.97344 (12042618)
        405070.14   3773899.03   12.13206 (12042618)   405120.14
3773899.03   12.24726 (12042618)
        405170.14   3773899.03   11.56989 (12120216)   405220.14
3773899.03   11.92158 (12120216)
        405270.14   3773899.03   11.23671 (12120216)   405320.14
3773899.03   9.74948 (12120216)
        405370.14   3773899.03   7.84331 (12120216)   405420.14
3773899.03   6.83635 (12111716)
        405470.14   3773899.03   5.72751 (12111716)   405520.14
3773899.03   4.54946 (14120116)
        405570.14   3773899.03   4.45230 (14120116)   405620.14
3773899.03   4.25174 (14120116)
        405670.14   3773899.03   3.97480 (14120116)   405720.14
3773899.03   3.80109 (12012517)
        405770.14   3773899.03   3.65844 (12012517)   405820.14
3773899.03   3.46195 (12012517)

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        403870.14   3773949.03   2.50228 (16093007)   403920.14
3773949.03   2.64319 (16093007)
        403970.14   3773949.03   2.79375 (16093007)   404020.14
3773949.03   2.95398 (16093007)
        404070.14   3773949.03   3.12422 (16093007)   404120.14
3773949.03   3.85129 (12021216)
        404170.14   3773949.03   4.75207 (12021216)   404220.14
3773949.03   5.61369 (12021216)
        404270.14   3773949.03   6.58594 (12111715)   404320.14
3773949.03   8.81570 (12111715)
        404370.14   3773949.03   10.96475 (12111715)   404420.14
3773949.03   12.57870 (12111715)
        404470.14   3773949.03   13.22084 (12111715)   404520.14
3773949.03   13.34495 (12021515)
        404570.14   3773949.03   14.16107 (12021515)   404620.14
3773949.03   13.51402 (12021515)
        404670.14   3773949.03   11.51823 (12021515)   404720.14
3773949.03   8.70599 (12021515)
        404770.14   3773949.03   8.82676 (15122816)   404820.14
3773949.03   8.91042 (12101116)
        404870.14   3773949.03   10.42749 (12101116)   404920.14
3773949.03   10.90414 (12101116)
        404970.14   3773949.03   10.65405 (12042618)   405020.14
3773949.03   12.70012 (12042618)
        405070.14   3773949.03   13.66282 (12042618)   405120.14
3773949.03   13.35166 (12042618)
        405170.14   3773949.03   13.22140 (12120216)   405220.14
3773949.03   13.00434 (12120216)
        405270.14   3773949.03   11.66481 (12120216)   405320.14
3773949.03   9.61362 (12120216)

405370.14 3773949.03 7.92747 (12111716) 405420.14
3773949.03 6.71417 (12111716)
405470.14 3773949.03 5.34209 (12111716) 405520.14
3773949.03 5.04712 (14120116)
405570.14 3773949.03 4.80517 (14120116) 405620.14
3773949.03 4.46736 (14120116)
405670.14 3773949.03 4.29127 (12012517) 405720.14
3773949.03 4.10611 (12012517)
405770.14 3773949.03 3.85797 (12012517) 405820.14
3773949.03 3.56992 (12012517)
403870.14 3773999.03 2.61024 (16093007) 403920.14
3773999.03 2.76531 (16093007)
403970.14 3773999.03 2.93195 (16093007) 404020.14
3773999.03 3.11093 (16093007)
404070.14 3773999.03 3.30262 (16093007) 404120.14
3773999.03 3.50700 (16093007)
404170.14 3773999.03 4.45200 (12021216) 404220.14
3773999.03 5.50255 (12021216)
404270.14 3773999.03 6.48208 (12021216) 404320.14
3773999.03 8.26835 (12111715)
404370.14 3773999.03 10.88157 (12111715) 404420.14
3773999.03 13.18288 (12111715)
404470.14 3773999.03 14.59515 (12111715) 404520.14
3773999.03 14.64528 (12111715)
404570.14 3773999.03 15.68558 (12021515) 404620.14
3773999.03 15.54423 (12021515)
404670.14 3773999.03 13.66786 (12021515) 404720.14
3773999.03 10.57338 (12021515)
404770.14 3773999.03 9.81846 (15122816) 404820.14
3773999.03 10.04877 (12101116)
404870.14 3773999.03 11.74288 (12101116) 404920.14
3773999.03 12.14761 (12101116)
404970.14 3773999.03 12.64010 (12042618) 405020.14
3773999.03 14.69713 (12042618)
405070.14 3773999.03 15.32471 (12042618) 405120.14
3773999.03 14.42905 (12042618)
405170.14 3773999.03 14.86925 (12120216) 405220.14
3773999.03 13.88436 (12120216)
405270.14 3773999.03 11.78720 (12120216) 405320.14
3773999.03 9.22189 (12111716)
405370.14 3773999.03 7.91639 (12111716) 405420.14
3773999.03 6.34072 (12111716)
405470.14 3773999.03 5.78410 (14120116) 405520.14
3773999.03 5.48161 (14120116)
405570.14 3773999.03 5.06950 (14120116) 405620.14
3773999.03 4.87809 (12012517)
405670.14 3773999.03 4.63575 (12012517) 405720.14
3773999.03 4.32107 (12012517)
405770.14 3773999.03 3.96175 (12012517) 405820.14
3773999.03 3.58128 (12012517)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

3774049.03 13.60753 (12101116)
404970.14 3774049.03 15.05052 (12042618) 405020.14
3774049.03 17.00075 (12042618)
405070.14 3774049.03 17.09708 (12042618) 405120.14
3774049.03 16.70854 (12120216)
405170.14 3774049.03 16.39912 (12120216) 405220.14
3774049.03 14.44439 (12120216)
405270.14 3774049.03 11.53682 (12120216) 405320.14
3774049.03 9.39855 (12111716)
405370.14 3774049.03 7.59125 (12111716) 405420.14
3774049.03 6.72348 (14120116)
405470.14 3774049.03 6.33718 (14120116) 405520.14
3774049.03 5.81105 (14120116)
405570.14 3774049.03 5.58714 (12012517) 405620.14
3774049.03 5.26577 (12012517)
405670.14 3774049.03 4.86399 (12012517) 405720.14
3774049.03 4.41387 (12012517)
405770.14 3774049.03 4.03815 (12031617) 405820.14
3774049.03 4.30598 (12031617)
403870.14 3774099.03 2.83107 (16093007) 403920.14
3774099.03 3.01811 (16093007)
403970.14 3774099.03 3.22146 (16093007) 404020.14
3774099.03 3.44319 (16093007)
404070.14 3774099.03 3.68504 (16093007) 404120.14
3774099.03 3.94817 (16093007)
404170.14 3774099.03 4.23357 (16093007) 404220.14
3774099.03 4.68667 (12021216)
404270.14 3774099.03 6.12186 (12021216) 404320.14
3774099.03 7.58896 (12021216)
404370.14 3774099.03 9.61658 (12111715) 404420.14
3774099.03 13.24515 (12111715)
404470.14 3774099.03 16.59837 (12111715) 404520.14
3774099.03 18.71370 (12111715)
404570.14 3774099.03 18.77578 (12111715) 404620.14
3774099.03 20.28258 (12021515)
404670.14 3774099.03 19.27529 (12021515) 404720.14
3774099.03 15.83073 (12021515)
404770.14 3774099.03 12.40152 (15122816) 404820.14
3774099.03 13.09203 (12101116)
404870.14 3774099.03 15.23165 (12101116) 404920.14
3774099.03 15.33907 (12101116)
404970.14 3774099.03 17.98191 (12042618) 405020.14
3774099.03 19.63019 (12042618)
405070.14 3774099.03 18.92391 (12042618) 405120.14
3774099.03 19.12688 (12120216)
405170.14 3774099.03 17.64609 (12120216) 405220.14
3774099.03 14.55818 (12120216)
405270.14 3774099.03 11.23605 (12111716) 405320.14
3774099.03 9.17467 (12111716)
405370.14 3774099.03 7.92217 (14120116) 405420.14

3774099.03   7.43808 (14120116)
        405470.14   3774099.03   6.76418 (14120116)   405520.14
3774099.03   6.45025 (12012517)
        405570.14   3774099.03   6.02461 (12012517)   405620.14
3774099.03   5.50394 (12012517)
        405670.14   3774099.03   4.93735 (12012517)   405720.14
3774099.03   4.91348 (12031617)
        405770.14   3774099.03   5.42226 (12031616)   405820.14
3774099.03   5.96239 (12031616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010 , L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018 , L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026 , L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        403870.14   3774149.03   2.94239 (16093007)   403920.14
3774149.03   3.14640 (16093007)
        403970.14   3774149.03   3.37046 (16093007)   404020.14
3774149.03   3.61651 (16093007)
        404070.14   3774149.03   3.88686 (16093007)   404120.14
3774149.03   4.18480 (16093007)
        404170.14   3774149.03   4.51142 (16093007)   404220.14
3774149.03   4.86818 (16093007)
        404270.14   3774149.03   5.55183 (12021216)   404320.14
3774149.03   7.30506 (12021216)
        404370.14   3774149.03   9.06175 (12021216)   404420.14
3774149.03   12.52372 (12111715)

404470.14 3774149.03 16.87743 (12111715) 404520.14
3774149.03 20.43589 (12111715)
404570.14 3774149.03 21.90204 (12111715) 404620.14
3774149.03 22.91664 (12021515)
404670.14 3774149.03 22.86591 (12021515) 404720.14
3774149.03 19.51107 (12021515)
404770.14 3774149.03 14.11681 (15122816) 404820.14
3774149.03 15.16689 (12101116)
404870.14 3774149.03 17.58922 (12101116) 404920.14
3774149.03 17.73191 (12042618)
404970.14 3774149.03 21.54128 (12042618) 405020.14
3774149.03 22.58581 (12042618)
405070.14 3774149.03 21.85991 (12120216) 405120.14
3774149.03 21.40391 (12120216)
405170.14 3774149.03 18.41453 (12120216) 405220.14
3774149.03 14.10113 (12120216)
405270.14 3774149.03 11.20814 (12111716) 405320.14
3774149.03 9.44940 (14120116)
405370.14 3774149.03 8.84223 (14120116) 405420.14
3774149.03 7.98250 (14120116)
405470.14 3774149.03 7.52181 (12012517) 405520.14
3774149.03 6.94492 (12012517)
405570.14 3774149.03 6.26575 (12012517) 405620.14
3774149.03 5.64209 (12031617)
405670.14 3774149.03 6.37949 (12031616) 405720.14
3774149.03 7.07250 (12031616)
405770.14 3774149.03 7.61397 (12031616) 405820.14
3774149.03 8.00081 (12031616)
403870.14 3774199.03 3.05285 (16093007) 403920.14
3774199.03 3.27504 (16093007)
403970.14 3774199.03 3.52067 (16093007) 404020.14
3774199.03 3.79297 (16093007)
404070.14 3774199.03 4.09428 (16093007) 404120.14
3774199.03 4.43013 (16093007)
404170.14 3774199.03 4.80176 (16093007) 404220.14
3774199.03 5.21457 (16093007)
404270.14 3774199.03 5.66860 (16093007) 404320.14
3774199.03 6.66417 (12021216)
404370.14 3774199.03 8.84325 (12021216) 404420.14
3774199.03 11.24661 (12111715)
404470.14 3774199.03 16.40714 (12111715) 404520.14
3774199.03 21.61917 (12111715)
404570.14 3774199.03 24.99123 (12111715) 404620.14
3774199.03 25.59734 (12021515)
404670.14 3774199.03 27.05214 (12021515) 404720.14
3774199.03 24.14930 (12021515)
404770.14 3774199.03 17.93830 (12021515) 404820.14
3774199.03 17.78420 (12101116)
404870.14 3774199.03 20.53003 (12101116) 404920.14
3774199.03 22.04183 (12042618)

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        404970.14   3774199.03       25.84523  (12042618)               405020.14
3774199.03       25.83806  (12042618)
        405070.14   3774199.03       25.64925  (12120216)               405120.14
3774199.03       23.28708  (12120216)
        405170.14   3774199.03       18.47364  (12120216)               405220.14
3774199.03       13.86315  (12111716)
        405270.14   3774199.03       11.43361  (14120116)               405320.14
3774199.03       10.65604  (14120116)
        405370.14   3774199.03        9.53775  (14120116)               405420.14
3774199.03        8.86925  (12012517)
        405470.14   3774199.03        8.07976  (12012517)               405520.14
3774199.03        7.17929  (12012517)
        405570.14   3774199.03        7.57756  (12031616)               405620.14
3774199.03        8.49295  (12031616)
        405670.14   3774199.03        9.20053  (12031616)               405720.14
3774199.03        9.68096  (12031616)
        405770.14   3774199.03        9.93424  (12031616)               405820.14
3774199.03        9.98601  (12031616)
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        403870.14   3774249.03        3.49097  (12022717)               403920.14
3774249.03        3.40104  (16093007)
        403970.14   3774249.03        3.66918  (16093007)               404020.14
```

```
3774249.03        3.96872  (16093007)
        404070.14   3774249.03        4.30404  (16093007)                404120.14
3774249.03        4.68059  (16093007)
        404170.14   3774249.03        5.10328  (16093007)                404220.14
3774249.03        5.57751  (16093007)
        404270.14   3774249.03        6.10878  (16093007)                404320.14
3774249.03        6.70454  (16093007)
        404370.14   3774249.03        8.13334  (12021216)                404420.14
3774249.03       10.89269  (12021216)
        404470.14   3774249.03       15.24256  (12111715)                404520.14
3774249.03       21.95685  (12111715)
        404570.14   3774249.03       27.70152  (12111715)                404620.14
3774249.03       30.09489  (12111715)
        404670.14   3774249.03       31.84264  (12021515)                404720.14
3774249.03       30.02006  (12021515)
        404770.14   3774249.03       23.17706  (12021515)                404820.14
3774249.03       21.16944  (12101116)
        404870.14   3774249.03       24.28922  (12101116)                404920.14
3774249.03       27.65981  (12042618)
        404970.14   3774249.03       31.03516  (12042618)                405020.14
3774249.03       30.00753  (12120216)
        405070.14   3774249.03       29.33247  (12120216)                405120.14
3774249.03       24.39211  (12120216)
        405170.14   3774249.03       17.60828  (12120216)                405220.14
3774249.03       14.08389  (14120116)
        405270.14   3774249.03       13.06441  (14120116)                405320.14
3774249.03       11.56570  (14120116)
        405370.14   3774249.03       10.59230  (12012517)                405420.14
3774249.03        9.49404  (12012517)
        405470.14   3774249.03        9.09979  (12031616)                405520.14
3774249.03       10.35273  (12031616)
        405570.14   3774249.03       11.30144  (12031616)                405620.14
3774249.03       11.91863  (12031616)
        405670.14   3774249.03       12.21357  (12031616)                405720.14
3774249.03       12.21505  (12031616)
        405770.14   3774249.03       11.97013  (12031616)                405820.14
3774249.03       11.53504  (12031616)
        403870.14   3774299.03        4.70014  (12022717)                403920.14
3774299.03        4.64572  (12022717)
        403970.14   3774299.03        4.53317  (12022717)                404020.14
3774299.03        4.35313  (12022717)
        404070.14   3774299.03        4.51253  (16093007)                404120.14
3774299.03        4.93230  (16093007)
        404170.14   3774299.03        5.40973  (16093007)                404220.14
3774299.03        5.95306  (16093007)
        404270.14   3774299.03        6.57230  (16093007)                404320.14
3774299.03        7.27799  (16093007)
        404370.14   3774299.03        8.07939  (16093007)                404420.14
3774299.03       10.12584  (12021216)
        404470.14   3774299.03       13.70438  (12021216)                404520.14
```

3774299.03   21.10650 (12111715)
        404570.14   3774299.03   29.53452 (12111715)   404620.14
3774299.03   35.31472 (12111715)
        404670.14   3774299.03   37.15403 (12021515)   404720.14
3774299.03   37.46935 (12021515)
        404770.14   3774299.03   30.33917 (12021515)   404820.14
3774299.03   25.62286 (12101116)
        404870.14   3774299.03   29.16635 (12101116)   404920.14
3774299.03   35.02160 (12042618)
        404970.14   3774299.03   37.21497 (12042618)   405020.14
3774299.03   36.44881 (12120216)
        405070.14   3774299.03   32.41999 (12120216)   405120.14
3774299.03   24.29751 (12120216)
        405170.14   3774299.03   17.73872 (14120116)   405220.14
3774299.03   16.36507 (14120116)
        405270.14   3774299.03   14.29324 (14120116)   405320.14
3774299.03   12.84942 (12012517)
        405370.14   3774299.03   11.28546 (12012517)   405420.14
3774299.03   12.83781 (12031616)
        405470.14   3774299.03   14.17242 (12031616)   405520.14
3774299.03   14.99942 (12031616)
        405570.14   3774299.03   15.33713 (12031616)   405620.14
3774299.03   15.24741 (12031616)
        405670.14   3774299.03   14.81404 (12031616)   405720.14
3774299.03   14.12170 (12031616)
        405770.14   3774299.03   13.24481 (12031616)   405820.14
3774299.03   12.26536 (12031616)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                 L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                 L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3774349.03	5.90380	(12022717)	403920.14	3774349.03	6.01878	(12022717)
403970.14	3774349.03	6.09716	(12022717)	404020.14	3774349.03	6.10611	(12022717)
404070.14	3774349.03	6.02799	(12022717)	404120.14	3774349.03	5.84573	(12022717)
404170.14	3774349.03	5.71569	(16093007)	404220.14	3774349.03	6.33421	(16093007)
404270.14	3774349.03	7.05041	(16093007)	404320.14	3774349.03	7.88204	(16093007)
404370.14	3774349.03	8.84849	(16093007)	404420.14	3774349.03	9.96830	(16093007)
404470.14	3774349.03	12.93090	(12021216)	404520.14	3774349.03	18.85527	(12111715)
404570.14	3774349.03	29.84739	(12111715)	404620.14	3774349.03	40.08863	(12111715)
404670.14	3774349.03	44.42797	(12111715)	404720.14	3774349.03	46.87670	(12021515)
404770.14	3774349.03	40.30581	(12021515)	404820.14	3774349.03	31.70220	(12101116)
404870.14	3774349.03	35.70457	(12101116)	404920.14	3774349.03	44.80799	(12042618)
404970.14	3774349.03	44.47148	(12042618)	405020.14	3774349.03	43.12088	(12120216)
405070.14	3774349.03	34.15222	(12120216)	405120.14	3774349.03	22.98703	(14120116)
405170.14	3774349.03	21.07513	(14120116)	405220.14	3774349.03	18.09393	(14120116)
405270.14	3774349.03	15.87945	(12012517)	405320.14	3774349.03	16.23868	(12031616)
405370.14	3774349.03	18.22964	(12031616)	405420.14	3774349.03	19.39886	(12031616)
405470.14	3774349.03	19.79095	(12031616)	405520.14	3774349.03	19.52676	(12031616)
405570.14	3774349.03	18.75303	(12031616)	405620.14	3774349.03	17.62837	(12031616)
405670.14	3774349.03	16.29006	(12031616)	405720.14	3774349.03	14.84509	(12031616)
405770.14	3774349.03	13.36976	(12031616)	405820.14	3774349.03	11.93416	(12031616)
403870.14	3774399.03	6.99601	(12022717)	403920.14	3774399.03	7.30450	(12022717)
403970.14	3774399.03	7.54404	(12022717)	404020.14	3774399.03	7.85059	(12022717)

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        404070.14   3774399.03        8.09024  (12022717)               404120.14
3774399.03        8.23957  (12022717)
        404170.14   3774399.03        8.26302  (12022717)               404220.14
3774399.03        8.12183  (12022717)
        404270.14   3774399.03        7.77645  (12022717)               404320.14
3774399.03        8.50419  (16093007)
        404370.14   3774399.03        9.65918  (16093007)               404420.14
3774399.03       11.04008  (16093007)
        404470.14   3774399.03       12.67892  (16093007)               404520.14
3774399.03       17.08270  (12021216)
        404570.14   3774399.03       27.98516  (12111715)               404620.14
3774399.03       43.31868  (12111715)
        404670.14   3774399.03       54.55817  (12111715)               404720.14
3774399.03       58.64007  (12021515)
        404770.14   3774399.03       54.40517  (12021515)               404820.14
3774399.03       40.31217  (12101116)
        404870.14   3774399.03       48.77689  (12042618)               404920.14
3774399.03       57.92863  (12042618)
        404970.14   3774399.03       56.64341  (12120216)               405020.14
3774399.03       48.92240  (12120216)
        405070.14   3774399.03       33.59871  (12120216)               405120.14
3774399.03       28.13766  (14120116)
        405170.14   3774399.03       23.63683  (14120116)               405220.14
3774399.03       20.97300  (12031616)
        405270.14   3774399.03       24.20984  (12031616)               405320.14
3774399.03       26.00682  (12031616)
        405370.14   3774399.03       26.45998  (12031616)               405420.14
3774399.03       25.83460  (12031616)
        405470.14   3774399.03       24.44118  (12031616)               405520.14
3774399.03       22.57187  (12031616)
        405570.14   3774399.03       20.44605  (12031616)               405620.14
3774399.03       18.25272  (12031616)
        405670.14   3774399.03       16.10761  (12031616)               405720.14
3774399.03       14.08849  (12031616)
        405770.14   3774399.03       12.48129  (12120116)               405820.14
3774399.03       11.86452  (12120116)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                  PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
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                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        403870.14   3774449.03        7.57202  (12022717)               403920.14
3774449.03        8.09927  (12022717)
        403970.14   3774449.03        8.55135  (12022717)               404020.14
3774449.03        9.22598  (12022717)
        404070.14   3774449.03        9.84660  (12022717)               404120.14
3774449.03       10.46853  (12022717)
        404170.14   3774449.03       11.04113  (12022717)               404220.14
3774449.03       11.50438  (12022717)
        404270.14   3774449.03       11.79020  (12022717)               404320.14
3774449.03       11.81347  (12022717)
        404370.14   3774449.03       11.47484  (12022717)               404420.14
3774449.03       12.17060  (16093007)
        404470.14   3774449.03       14.24448  (16093007)               404520.14
3774449.03       16.81068  (16093007)
        404570.14   3774449.03       23.62029  (12021216)               404620.14
3774449.03       43.51368  (12111715)
        404670.14   3774449.03       64.55249  (12111715)               404720.14
3774449.03       73.38779  (12111715)
        404770.14   3774449.03       74.86050  (12021515)               404820.14
3774449.03       55.04137  (12021515)
        404870.14   3774449.03       68.71691  (12042618)               404920.14
3774449.03       75.69142  (12042618)
        404970.14   3774449.03       71.08835  (12120216)               405020.14
3774449.03       52.28207  (12120216)
        405070.14   3774449.03       39.43607  (14120116)               405120.14
3774449.03       32.18542  (14120116)
        405170.14   3774449.03       33.47179  (12031616)               405220.14
3774449.03       36.62718  (12031616)
        405270.14   3774449.03       37.18625  (12031616)               405320.14
3774449.03       35.78271  (12031616)
        405370.14   3774449.03       33.13390  (12031616)               405420.14
3774449.03       29.83450  (12031616)
        405470.14   3774449.03       26.32497  (12031616)               405520.14
3774449.03       22.87665  (12031616)
        405570.14   3774449.03       19.65910  (12031616)               405620.14
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3774449.03       17.22267  (12120116)
        405670.14   3774449.03       16.11354  (12120116)                405720.14
3774449.03       15.00957  (12120116)
        405770.14   3774449.03       13.93255  (12120116)                405820.14
3774449.03       12.90836  (12120116)
        403870.14   3774499.03        7.47348  (12022717)                403920.14
3774499.03        8.21964  (12022717)
        403970.14   3774499.03        8.86921  (12022717)                404020.14
3774499.03        9.87656  (12022717)
        404070.14   3774499.03       10.83301  (12022717)                404120.14
3774499.03       11.88978  (12022717)
        404170.14   3774499.03       13.12228  (12022717)                404220.14
3774499.03       14.35000  (12022717)
        404270.14   3774499.03       15.61982  (12022717)                404320.14
3774499.03       16.81443  (12022717)
        404370.14   3774499.03       17.79413  (12022717)                404420.14
3774499.03       18.28156  (12022717)
        404470.14   3774499.03       18.22344  (12022717)                404520.14
3774499.03       19.24918  (16093007)
        404570.14   3774499.03       23.62424  (16093007)                404620.14
3774499.03       38.97324  (12111715)
        404670.14   3774499.03       72.01220  (12111715)                404720.14
3774499.03       98.27331  (12111715)
        404770.14   3774499.03      105.36816  (12021515)                404820.14
3774499.03       84.55924  (12021515)
        404870.14   3774499.03      100.33913  (12042618)                404920.14
3774499.03      102.65761  (12120216)
        404970.14   3774499.03       85.71933  (12120216)                405020.14
3774499.03       59.31322  (14120116)
        405070.14   3774499.03       48.55707  (12031616)                405120.14
3774499.03       55.33392  (12031616)
        405170.14   3774499.03       56.20960  (12031616)                405220.14
3774499.03       52.94809  (12031616)
        405270.14   3774499.03       47.48073  (12031616)                405320.14
3774499.03       41.21090  (12031616)
        405370.14   3774499.03       35.00832  (12031616)                405420.14
3774499.03       29.32039  (12031616)
        405470.14   3774499.03       25.22749  (12120116)                405520.14
3774499.03       23.05698  (12120116)
        405570.14   3774499.03       20.99074  (12120116)                405620.14
3774499.03       19.06457  (12120116)
        405670.14   3774499.03       17.29425  (12120116)                405720.14
3774499.03       15.68080  (12120116)
        405770.14   3774499.03       14.21357  (12120116)                405820.14
3774499.03       12.89306  (12120116)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
403870.14	3774549.03	6.70595	(12022717)	403920.14	3774549.03	7.50294	(12022717)
403970.14	3774549.03	8.37172	(12022717)	404020.14	3774549.03	9.48757	(12022717)
404070.14	3774549.03	10.68211	(12022717)	404120.14	3774549.03	11.99080	(12022717)
404170.14	3774549.03	13.65205	(12022717)	404220.14	3774549.03	15.57176	(12022717)
404270.14	3774549.03	17.79830	(12022717)	404320.14	3774549.03	20.33556	(12022717)
404370.14	3774549.03	23.16309	(12022717)	404420.14	3774549.03	26.14643	(12022717)
404470.14	3774549.03	29.19976	(12022717)	404520.14	3774549.03	31.64420	(12022717)
404570.14	3774549.03	32.56094	(12022717)	404620.14	3774549.03	36.32547	(16093007)
404670.14	3774549.03	72.34475	(12111715)	404720.14	3774549.03	128.91522	(12111715)
404970.14	3774549.03	99.59478	(14120116)	405020.14	3774549.03	92.72951	(12031616)
405070.14	3774549.03	95.73849	(12031616)	405120.14	3774549.03	87.22073	(12031616)
405170.14	3774549.03	74.13082	(12031616)	405220.14	3774549.03	60.67571	(12031616)
405270.14	3774549.03	48.67151	(12031616)	405320.14	3774549.03	40.53931	(12120116)

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        405370.14   3774549.03       35.65696  (12120116)                405420.14
3774549.03       31.31230  (12120116)
        405470.14   3774549.03       27.50326  (12120116)                405520.14
3774549.03       24.19408  (12120116)
        405570.14   3774549.03       21.32735  (12120116)                405620.14
3774549.03       18.84493  (12120116)
        405670.14   3774549.03       16.68813  (12120116)                405720.14
3774549.03       14.82032  (12120116)
        405770.14   3774549.03       13.19409  (12120116)                405820.14
3774549.03       11.77880  (12120116)
        403870.14   3774599.03        5.41469  (12022717)                403920.14
3774599.03        6.16306  (12022717)
        403970.14   3774599.03        7.02199  (12022717)                404020.14
3774599.03        8.09037  (12022717)
        404070.14   3774599.03        9.29555  (12022717)                404120.14
3774599.03       10.71193  (12022717)
        404170.14   3774599.03       12.37667  (12022717)                404220.14
3774599.03       14.51905  (12022717)
        404270.14   3774599.03       17.18692  (12022717)                404320.14
3774599.03       20.51161  (12022717)
        404370.14   3774599.03       24.69138  (12022717)                404420.14
3774599.03       29.98567  (12022717)
        404470.14   3774599.03       36.70338  (12022717)                404520.14
3774599.03       45.14080  (12022717)
        404570.14   3774599.03       55.31388  (12022717)                404620.14
3774599.03       65.97529  (12022717)
        404670.14   3774599.03       72.49329  (12022717)                404970.14
3774599.03      204.28802  (12031616)
        405020.14   3774599.03      176.83863  (12031616)                405070.14
3774599.03      134.87937  (12031616)
        405120.14   3774599.03       98.90453  (12031616)                405170.14
3774599.03       76.69037  (12120116)
        405220.14   3774599.03       62.70891  (12120116)                405270.14
3774599.03       51.64939  (12120116)
        405320.14   3774599.03       42.88781  (12120116)                405370.14
3774599.03       35.90858  (12120116)
        405420.14   3774599.03       30.31517  (12120116)                405470.14
3774599.03       25.79294  (12120116)
        405520.14   3774599.03       22.09227  (12120116)                405570.14
3774599.03       19.05118  (12120116)
        405620.14   3774599.03       16.52345  (12120116)                405670.14
3774599.03       14.39833  (12120116)
        405720.14   3774599.03       12.61412  (12120116)                405770.14
3774599.03       11.09797  (12120116)
        405820.14   3774599.03        9.80641  (12120116)                403870.14
3774649.03        6.59224  (12120215)
        403920.14   3774649.03        7.33993  (12120215)                403970.14
3774649.03        8.20820  (12120215)
        404020.14   3774649.03        9.23400  (12120215)                404070.14
3774649.03       10.44166  (12120215)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404320.14	3774649.03	21.71643	(12120215)	404370.14	3774649.03	26.05489	(12120215)
404420.14	3774649.03	31.79624	(12120215)	404470.14	3774649.03	39.61664	(12120215)
404520.14	3774649.03	50.64316	(12120215)	404570.14	3774649.03	66.88220	(12120215)
404620.14	3774649.03	93.64854	(12022717)	404670.14	3774649.03	145.03546	(12022717)
404970.14	3774649.03	360.93832	(12031616)	405020.14	3774649.03	214.13740	(12120116)
405070.14	3774649.03	143.09977	(12120116)	405120.14	3774649.03	101.70858	(12120116)
405170.14	3774649.03	75.41032	(12120116)	405220.14	3774649.03	57.81321	(12120116)
405270.14	3774649.03	45.43667	(12120116)	405320.14	3774649.03	36.47571	(12120116)
405370.14	3774649.03	29.74048	(12120116)	405420.14			

3774649.03 24.59543 (12120116)
405470.14 3774649.03 20.59174 (12120116) 405520.14
3774649.03 17.40639 (12120116)
405570.14 3774649.03 14.85125 (12120116) 405620.14
3774649.03 12.76807 (12120116)
405670.14 3774649.03 11.05173 (12120116) 405720.14
3774649.03 9.62420 (12120116)
405770.14 3774649.03 8.42615 (12120116) 405820.14
3774649.03 7.41470 (12120116)
403870.14 3774699.03 8.03984 (12120215) 403920.14
3774699.03 8.99969 (12120215)
403970.14 3774699.03 10.09800 (12120215) 404020.14
3774699.03 11.44613 (12120215)
404070.14 3774699.03 13.22199 (12033117) 404120.14
3774699.03 15.39893 (12033117)
404170.14 3774699.03 18.06031 (12033117) 404220.14
3774699.03 21.39734 (12033117)
404270.14 3774699.03 25.46890 (12033117) 404320.14
3774699.03 30.89443 (12033117)
404370.14 3774699.03 38.04644 (12033117) 404420.14
3774699.03 47.91331 (12033117)
404470.14 3774699.03 61.87509 (12033117) 404520.14
3774699.03 82.83510 (12033117)
404570.14 3774699.03 116.62975 (12033117) 404620.14
3774699.03 177.02562 (12033117)
404670.14 3774699.03 306.88646 (12033117) 404720.14
3774699.03 698.67449 (12033117)
404970.14 3774699.03 353.87093 (12043018) 405020.14
3774699.03 185.73662 (12043018)
405070.14 3774699.03 114.37784 (12043018) 405120.14
3774699.03 77.30926 (12043018)
405170.14 3774699.03 55.35677 (12043018) 405220.14
3774699.03 41.33309 (12043018)
405270.14 3774699.03 31.79879 (12043018) 405320.14
3774699.03 25.06622 (12043018)
405370.14 3774699.03 20.62745 (12102016) 405420.14
3774699.03 17.83831 (12102016)
405470.14 3774699.03 15.60595 (12102016) 405520.14
3774699.03 13.78690 (12102016)
405570.14 3774699.03 12.27977 (12102016) 405620.14
3774699.03 11.01811 (12102016)
405670.14 3774699.03 9.95179 (12102016) 405720.14
3774699.03 9.03608 (12102016)
405770.14 3774699.03 8.24461 (12102016) 405820.14
3774699.03 7.55716 (12102016)
403870.14 3774749.03 10.82287 (12033117) 403920.14
3774749.03 12.30105 (12033117)
403970.14 3774749.03 14.00354 (12033117) 404020.14
3774749.03 16.01842 (12033117)
404070.14 3774749.03 18.47013 (12033117) 404120.14

3774749.03   21.39759 (12033117)
        404170.14   3774749.03   24.91089 (12033117)   404220.14
3774749.03   29.14365 (12033117)
        404270.14   3774749.03   34.69528 (12033117)   404320.14
3774749.03   41.64389 (12033117)
        404370.14   3774749.03   49.16776 (12033117)   404420.14
3774749.03   62.41210 (12033117)
        404470.14   3774749.03   78.25961 (12033117)   404520.14
3774749.03   100.72499 (12033117)
        404570.14   3774749.03   133.25968 (12033117)   404620.14
3774749.03   180.71118 (12033117)
        404670.14   3774749.03   244.78145 (12033117)   404720.14
3774749.03   292.89391 (12033117)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                  L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                  L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        404770.14   3774749.03   338.13266 (15022217)   404820.14
3774749.03   351.35171 (16020617)
        404870.14   3774749.03   455.38603 (12071919)   404970.14
3774749.03   304.71784 (12121716)
        405020.14   3774749.03   194.34769 (12121716)   405070.14
3774749.03   137.87797 (12043018)
        405120.14   3774749.03   100.67229 (12043018)   405170.14
3774749.03   75.47038 (12043018)

405220.14 3774749.03 57.94433 (12043018) 405270.14
3774749.03 45.43944 (12043018)
405320.14 3774749.03 36.26422 (12043018) 405370.14
3774749.03 29.37115 (12043018)
405420.14 3774749.03 24.09652 (12043018) 405470.14
3774749.03 19.99144 (12043018)
405520.14 3774749.03 16.74805 (12043018) 405570.14
3774749.03 14.15007 (12043018)
405620.14 3774749.03 12.04634 (12043018) 405670.14
3774749.03 10.41556 (12033018)
405720.14 3774749.03 9.22348 (12033018) 405770.14
3774749.03 8.20850 (12033018)
405820.14 3774749.03 7.33938 (12033018) 403870.14
3774799.03 13.61391 (12033117)
403920.14 3774799.03 15.28555 (12033117) 403970.14
3774799.03 17.26631 (12033117)
404020.14 3774799.03 19.46239 (12033117) 404070.14
3774799.03 22.09229 (12033117)
404120.14 3774799.03 25.13865 (12033117) 404170.14
3774799.03 28.68658 (12033117)
404220.14 3774799.03 32.69825 (12033117) 404270.14
3774799.03 37.61036 (12033117)
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3774799.03 67.34933 (12033117)
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3774799.03 77.86093 (13020917)
404720.14 3774799.03 126.32654 (15022217) 404770.14
3774799.03 180.53180 (15022217)
404820.14 3774799.03 168.19781 (15022217) 404870.14
3774799.03 184.36953 (16020617)
404970.14 3774799.03 197.57528 (12071919) 405020.14
3774799.03 149.70589 (12071919)
405070.14 3774799.03 120.18019 (12121716) 405120.14
3774799.03 93.63425 (12121716)
405170.14 3774799.03 72.58356 (12043018) 405220.14
3774799.03 60.36629 (12043018)
405270.14 3774799.03 50.15905 (12043018) 405320.14
3774799.03 41.81087 (12043018)
405370.14 3774799.03 35.01393 (12043018) 405420.14
3774799.03 29.48752 (12043018)
405470.14 3774799.03 24.98021 (12043018) 405520.14
3774799.03 21.28457 (12043018)
405570.14 3774799.03 18.23302 (12043018) 405620.14
3774799.03 15.69939 (12043018)
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3774799.03 11.80380 (12043018)

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3774849.03       20.44994  (12033117)
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        404170.14   3774849.03       27.35674  (12033117)               404220.14
3774849.03       30.17515  (12033117)
        404270.14   3774849.03       33.02204  (12033117)               404320.14
3774849.03       35.69630  (12033117)
        404370.14   3774849.03       37.29520  (12033117)               404420.14
3774849.03       40.51858  (12033117)
        404470.14   3774849.03       40.96220  (12033117)               404520.14
3774849.03       39.16854  (12033117)
        404570.14   3774849.03       36.43672  (12020617)               404620.14
3774849.03       45.84955  (12111616)
        404670.14   3774849.03       55.24695  (15022217)               404720.14
3774849.03       97.42437  (15022217)
        404770.14   3774849.03      114.80006  (15022217)               404820.14
3774849.03      100.66113  (16123116)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        404870.14   3774849.03      110.12203  (16020617)                404970.14
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        405020.14   3774849.03      113.94573  (12071919)                405070.14
3774849.03       95.98305  (12071919)
        405120.14   3774849.03       76.44663  (12121716)                405170.14
3774849.03       67.17299  (12121716)
        405220.14   3774849.03       56.74217  (12121716)                405270.14
3774849.03       46.78844  (12121716)
        405320.14   3774849.03       39.28710  (12043018)                405370.14
3774849.03       34.70574  (12043018)
        405420.14   3774849.03       30.51702  (12043018)                405470.14
3774849.03       26.78233  (12043018)
        405520.14   3774849.03       23.49813  (12043018)                405570.14
3774849.03       20.62719  (12043018)
        405620.14   3774849.03       18.13271  (12043018)                405670.14
3774849.03       15.96697  (12043018)
        405720.14   3774849.03       14.08823  (12043018)                405770.14
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3774899.03       23.41752  (12033117)
        404320.14   3774899.03       23.39121  (12033117)                404370.14
3774899.03       22.92111  (12033117)
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3774899.03       21.68786  (12020617)
        404520.14   3774899.03       24.58339  (12111616)                404570.14
3774899.03       30.21304  (12111616)
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3774899.03       53.08671  (15022217)
        404720.14   3774899.03       74.99824  (15022217)                404770.14
3774899.03       77.57545  (15022217)
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3774899.03       69.74776  (16020617)
        404970.14   3774899.03       59.59331  (16020617)                405020.14
3774899.03       71.95839  (12071919)
        405070.14   3774899.03       75.20714  (12071919)                405120.14
3774899.03       67.84998  (12071919)
        405170.14   3774899.03       55.76924  (12071919)                405220.14
3774899.03       47.75493  (12121716)
        405270.14   3774899.03       43.57818  (12121716)                405320.14
3774899.03       38.50376  (12121716)
        405370.14   3774899.03       33.27576  (12121716)                405420.14
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        405570.14   3774899.03       20.65792  (12043018)                405620.14
3774899.03       18.68999  (12043018)
        405670.14   3774899.03       16.87304  (12043018)                405720.14
3774899.03       15.21368  (12043018)
        405770.14   3774899.03       13.70903  (12043018)                405820.14
3774899.03       12.35274  (12043018)
        403870.14   3774949.03       13.23141  (12033117)                403920.14
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        403970.14   3774949.03       14.34218  (12033117)                404020.14
3774949.03       14.79244  (12033117)
        404070.14   3774949.03       15.05164  (12033117)                404120.14
3774949.03       15.12578  (12033117)
        404170.14   3774949.03       14.94968  (12033117)                404220.14
3774949.03       14.47577  (12033117)
        404270.14   3774949.03       13.58067  (12033117)                404320.14
3774949.03       12.30438  (12020617)
        404370.14   3774949.03       14.42049  (12020617)                404420.14
3774949.03       16.45606  (12020617)
        404470.14   3774949.03       18.38984  (12111616)                404520.14
3774949.03       21.44186  (12111616)
        404570.14   3774949.03       22.82807  (12111616)                404620.14
3774949.03       30.87241  (15022217)
        404670.14   3774949.03       47.30848  (15022217)                404720.14
3774949.03       57.51091  (15022217)
        404770.14   3774949.03       54.18256  (15022217)                404820.14
3774949.03       54.28938  (16123116)
        404870.14   3774949.03       49.99747  (16123116)                404920.14
3774949.03       51.75466  (16020617)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404970.14	3774949.03	47.49732	(16020617)	405020.14	3774949.03	40.73855	(15102517)
405070.14	3774949.03	50.15249	(12071919)	405120.14	3774949.03	53.28332	(12071919)
405170.14	3774949.03	49.87991	(12071919)	405220.14	3774949.03	43.60654	(12071919)
405270.14	3774949.03	36.25091	(12071919)	405320.14	3774949.03	33.05220	(12121716)
405370.14	3774949.03	30.79576	(12121716)	405420.14	3774949.03	27.98398	(12121716)
405470.14	3774949.03	24.94614	(12121716)	405520.14	3774949.03	21.93289	(12121716)
405570.14	3774949.03	19.08405	(12121716)	405620.14	3774949.03	17.31396	(12043018)
405670.14	3774949.03	16.12627	(12043018)	405720.14	3774949.03	14.94358	(12043018)
405770.14	3774949.03	13.79483	(12043018)	405820.14	3774949.03	12.69845	(12043018)
403870.14	3774999.03	10.42906	(12033117)	403920.14	3774999.03	10.49461	(12033117)
403970.14	3774999.03	10.45701	(16102717)	404020.14	3774999.03	11.03065	(16102717)
404070.14	3774999.03	11.53645	(16102717)	404120.14	3774999.03	9.35298	(12033117)
404170.14	3774999.03	8.61984	(12033117)	404220.14	3774999.03	8.94211	(12020617)
404270.14	3774999.03	10.31870	(12020617)	404320.14	3774999.03	11.60781	(12020617)
404370.14	3774999.03	12.56723	(12020617)	404420.14	3774999.03	14.26559	(12111616)
404470.14	3774999.03	15.95797	(12111616)	404520.14	3774999.03	16.63698	(12111616)
404570.14	3774999.03	19.10028	(15022217)	404620.14	3774999.03	30.38068	(15022217)
404670.14	3774999.03	40.69177	(15022217)	404720.14	3774999.03	44.63182	(15022217)
404770.14	3774999.03	38.84704	(15022217)	404820.14	3774999.03	43.01858	(16123116)
404870.14	3774999.03	39.90495	(16123116)	404920.14	3774999.03	38.02513	(16020617)

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3774999.03       31.87019  (16020617)
        405070.14   3774999.03       30.32958  (12071919)                405120.14
3774999.03       37.03991  (12071919)
        405170.14   3774999.03       39.70857  (12071919)                405220.14
3774999.03       38.67927  (12071919)
        405270.14   3774999.03       34.97324  (12071919)                405320.14
3774999.03       30.64981  (12071919)
        405370.14   3774999.03       25.63198  (12071919)                405420.14
3774999.03       24.31367  (12121716)
        405470.14   3774999.03       23.02420  (12121716)                405520.14
3774999.03       21.37492  (12121716)
        405570.14   3774999.03       19.41770  (12121716)                405620.14
3774999.03       17.46252  (12121716)
        405670.14   3774999.03       15.54256  (12121716)                405720.14
3774999.03       13.72273  (12121716)
        405770.14   3774999.03       12.75109  (12043018)                405820.14
3774999.03       12.04141  (12043018)
        403870.14   3775049.03       10.12881  (16102717)                403920.14
3775049.03       10.62602  (16102717)
        403970.14   3775049.03       10.96172  (16102717)                404020.14
3775049.03       11.37641  (16102717)
        404070.14   3775049.03       11.47767  (16102717)                404120.14
3775049.03       11.98708  (15100404)
        404170.14   3775049.03       12.45346  (15100404)                404220.14
3775049.03        8.66967  (12020617)
        404270.14   3775049.03        9.36856  (12020617)                404320.14
3775049.03        9.85022  (12111616)
        404370.14   3775049.03       11.29820  (12111616)                404420.14
3775049.03       12.35257  (12111616)
        404470.14   3775049.03       12.67255  (12111616)                404520.14
3775049.03       12.49661  (15011115)
        404570.14   3775049.03       20.00861  (15022217)                404620.14
3775049.03       28.24532  (15022217)
        404670.14   3775049.03       34.04405  (15022217)                404720.14
3775049.03       34.39083  (15022217)
        404770.14   3775049.03       28.64366  (12021917)                404820.14
3775049.03       34.64879  (16123116)
        404870.14   3775049.03       32.57820  (16123116)                404920.14
3775049.03       28.45678  (16020617)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                      ***        10:28:28

                                 PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404970.14	3775049.03	29.77997	(16020617)	405020.14	3775049.03	27.13185	(16020617)
405070.14	3775049.03	24.09816	(15102517)	405120.14	3775049.03	23.45973	(12071919)
405170.14	3775049.03	28.34807	(12071919)	405220.14	3775049.03	30.70589	(12071919)
405270.14	3775049.03	30.46875	(12071919)	405320.14	3775049.03	28.90345	(12071919)
405370.14	3775049.03	25.82548	(12071919)	405420.14	3775049.03	22.28692	(12071919)
405470.14	3775049.03	19.13474	(12121716)	405520.14	3775049.03	18.76886	(12121716)
405570.14	3775049.03	17.98845	(12121716)	405620.14	3775049.03	16.86996	(12121716)
405670.14	3775049.03	15.66552	(12121716)	405720.14	3775049.03	14.25588	(12121716)
405770.14	3775049.03	12.88144	(12121716)	405820.14	3775049.03	11.57835	(12121716)
403870.14	3775099.03	10.21679	(16122319)	403920.14	3775099.03	10.56018	(12011122)
403970.14	3775099.03	10.99772	(12011122)	404020.14	3775099.03	11.23715	(13012505)
404070.14	3775099.03	11.65427	(15100404)	404120.14	3775099.03	12.15915	(15100404)
404170.14	3775099.03	12.45109	(16102307)	404220.14	3775099.03	12.42977	(16102307)
404270.14	3775099.03	8.57816	(16102307)	404320.14	3775099.03	9.13718	(12111616)
404370.14	3775099.03	9.79236	(12111616)	404420.14	3775099.03	9.94016	(12111616)
404470.14	3775099.03	10.28427	(14121123)	404520.14			

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3775099.03       13.62707  (15022217)
        404570.14   3775099.03       19.78222  (15022217)                404620.14
3775099.03       25.42799  (15022217)
        404670.14   3775099.03       28.33351  (15022217)                404720.14
3775099.03       26.87069  (15022217)
        404770.14   3775099.03       24.10676  (12021917)                404820.14
3775099.03       28.61070  (16123116)
        404870.14   3775099.03       27.22305  (16123116)                404920.14
3775099.03       22.07437  (16013017)
        404970.14   3775099.03       23.64879  (16020617)                405020.14
3775099.03       22.81111  (16020617)
        405070.14   3775099.03       19.79604  (16020617)                405120.14
3775099.03       19.16457  (15102517)
        405170.14   3775099.03       18.68660  (12071919)                405220.14
3775099.03       22.33499  (12071919)
        405270.14   3775099.03       24.26879  (12071919)                405320.14
3775099.03       24.76185  (12071919)
        405370.14   3775099.03       23.81707  (12071919)                405420.14
3775099.03       21.91296  (12071919)
        405470.14   3775099.03       19.59773  (12071919)                405520.14
3775099.03       17.01328  (12071919)
        405570.14   3775099.03       15.12986  (12121716)                405620.14
3775099.03       14.91280  (12121716)
        405670.14   3775099.03       14.40582  (12121716)                405720.14
3775099.03       13.66907  (12121716)
        405770.14   3775099.03       12.73852  (12121716)                405820.14
3775099.03       11.81699  (12121716)
        403870.14   3775149.03       10.28828  (13012505)                403920.14
3775149.03       10.68576  (13012505)
        403970.14   3775149.03       11.34657  (15100404)                404020.14
3775149.03       11.75682  (15100404)
        404070.14   3775149.03       11.93606  (15100404)                404120.14
3775149.03       12.21324  (16102307)
        404170.14   3775149.03       12.51328  (16102307)                404220.14
3775149.03       12.35296  (16102307)
        404270.14   3775149.03       12.86159  (12112901)                404320.14
3775149.03       12.56765  (12112901)
        404370.14   3775149.03       13.30984  (16042801)                404420.14
3775149.03       14.07749  (14121123)
        404470.14   3775149.03       16.79454  (12122017)                404520.14
3775149.03       14.08317  (15022217)
        404570.14   3775149.03       19.07729  (12090205)                404620.14
3775149.03       22.42498  (15022217)
        404670.14   3775149.03       23.37823  (15022217)                404720.14
3775149.03       21.07413  (15022217)
        404770.14   3775149.03       20.52823  (12021917)                404820.14
3775149.03       24.15184  (16123116)
        404870.14   3775149.03       23.10309  (16123116)                404920.14
3775149.03       18.73555  (16013017)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        404970.14   3775149.03   18.90566 (16020617)   405020.14
3775149.03   19.03736 (16020617)
        405070.14   3775149.03   17.42120 (16020617)   405120.14
3775149.03   15.77274 (15102517)
        405170.14   3775149.03   15.42159 (15102517)   405220.14
3775149.03   15.17108 (12071919)
        405270.14   3775149.03   18.01698 (12071919)   405320.14
3775149.03   19.83775 (12071919)
        405370.14   3775149.03   20.34752 (12071919)   405420.14
3775149.03   20.05081 (12071919)
        405470.14   3775149.03   18.80474 (12071919)   405520.14
3775149.03   17.13484 (12071919)
        405570.14   3775149.03   15.24776 (12071919)   405620.14
3775149.03   13.29317 (12071919)
        405670.14   3775149.03   12.25400 (12121716)   405720.14
3775149.03   12.14954 (12121716)
        405770.14   3775149.03   11.74591 (12121716)   405820.14
3775149.03   11.25400 (12121716)
        403870.14   3775199.03   10.06179 (15100404)   403920.14
3775199.03   10.44666 (15100404)
        403970.14   3775199.03   10.71711 (15100404)   404020.14
3775199.03   10.98147 (16102307)

404070.14 3775199.03 11.33839 (16102307) 404120.14
3775199.03 11.94097 (16102307)
404170.14 3775199.03 12.23384 (13041605) 404220.14
3775199.03 12.41308 (12112901)
404270.14 3775199.03 12.77353 (12112901) 404320.14
3775199.03 13.36084 (16042801)
404370.14 3775199.03 14.23553 (14121123) 404420.14
3775199.03 15.73420 (12122017)
404470.14 3775199.03 16.59816 (12042522) 404520.14
3775199.03 16.97022 (12090205)
404570.14 3775199.03 17.94352 (12090205) 404620.14
3775199.03 19.44700 (15022217)
404670.14 3775199.03 19.28219 (15022217) 404720.14
3775199.03 16.72104 (15022217)
404770.14 3775199.03 17.73801 (12021917) 404820.14
3775199.03 20.57838 (16123116)
404870.14 3775199.03 19.82494 (16123116) 404920.14
3775199.03 16.00319 (16013017)
404970.14 3775199.03 15.24236 (16020617) 405020.14
3775199.03 16.16288 (12110815)
405070.14 3775199.03 15.45324 (12110815) 405120.14
3775199.03 13.49848 (16020617)
405170.14 3775199.03 13.16318 (15102517) 405220.14
3775199.03 12.66274 (15102517)
405270.14 3775199.03 12.54321 (12071919) 405320.14
3775199.03 14.82924 (12071919)
405370.14 3775199.03 16.30549 (12071919) 405420.14
3775199.03 17.08079 (12071919)
405470.14 3775199.03 16.98855 (12071919) 405520.14
3775199.03 16.25428 (12071919)
405570.14 3775199.03 15.08084 (12071919) 405620.14
3775199.03 13.66533 (12071919)
405670.14 3775199.03 12.17040 (12071919) 405720.14
3775199.03 10.65147 (12071919)
405770.14 3775199.03 10.09728 (12121716) 405820.14
3775199.03 10.02704 (12121716)
403870.14 3775249.03 10.29014 (15100404) 403920.14
3775249.03 10.63864 (15100404)
403970.14 3775249.03 11.11166 (13030105) 404020.14
3775249.03 11.28089 (13030105)
404070.14 3775249.03 11.60852 (13041605) 404120.14
3775249.03 11.84276 (13041605)
404170.14 3775249.03 12.21993 (12112901) 404220.14
3775249.03 12.43337 (12112901)
404270.14 3775249.03 13.26346 (16042801) 404320.14
3775249.03 13.26732 (14121123)
404370.14 3775249.03 13.99224 (12122017) 404420.14
3775249.03 15.69049 (12042522)
404470.14 3775249.03 16.35288 (12041022) 404520.14
3775249.03 16.59099 (12090205)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
404970.14	3775249.03	13.18014	(16013017)	405020.14	3775249.03	13.62923	(12110815)
405070.14	3775249.03	13.90661	(12110815)	405120.14	3775249.03	12.32607	(12110815)
405170.14	3775249.03	10.97992	(15102517)	405220.14	3775249.03	11.09749	(15102517)
405270.14	3775249.03	10.52690	(15102517)	405320.14	3775249.03	10.52007	(12071919)
405370.14	3775249.03	12.37238	(12071919)	405420.14	3775249.03	13.68313	(12071919)
405470.14	3775249.03	14.36987	(12071919)	405520.14	3775249.03	14.49477	(12071919)
405570.14	3775249.03	14.04448	(12071919)	405620.14			

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3775249.03       13.30906  (12071919)
        405670.14   3775249.03       12.27776  (12071919)                405720.14
3775249.03       11.09718  (12071919)
        405770.14   3775249.03        9.86144  (12071919)                405820.14
3775249.03        8.66022  (12071919)
        403870.14   3775299.03       10.21121  (13030105)                403920.14
3775299.03       10.52357  (13030105)
        403970.14   3775299.03       10.84124  (13030105)                404020.14
3775299.03       11.23277  (13041605)
        404070.14   3775299.03       11.32834  (12112901)                404120.14
3775299.03       11.88046  (12112901)
        404170.14   3775299.03       12.10200  (12112901)                404220.14
3775299.03       11.90100  (16042801)
        404270.14   3775299.03       12.64938  (14121123)                404320.14
3775299.03       13.35115  (12122017)
        404370.14   3775299.03       14.00615  (12042522)                404420.14
3775299.03       14.87265  (12041022)
        404470.14   3775299.03       15.26383  (12090205)                404520.14
3775299.03       15.31713  (12090205)
        404570.14   3775299.03       15.48312  (16042722)                404620.14
3775299.03       15.23702  (16042722)
        404670.14   3775299.03       15.55522  (13050621)                404720.14
3775299.03       15.30596  (13100906)
        404770.14   3775299.03       13.67872  (12021917)                404820.14
3775299.03       15.44717  (16123116)
        404870.14   3775299.03       15.05863  (16123116)                404920.14
3775299.03       12.17066  (16123116)
        404970.14   3775299.03       11.72192  (16013017)                405020.14
3775299.03       11.34781  (12110815)
        405070.14   3775299.03       12.24853  (12110815)                405120.14
3775299.03       11.55430  (12110815)
        405170.14   3775299.03        9.75871  (16020617)                405220.14
3775299.03        9.47347  (15102517)
        405270.14   3775299.03        9.40519  (15102517)                405320.14
3775299.03        8.85783  (15102517)
        405370.14   3775299.03        8.93170  (12071919)                405420.14
3775299.03       10.45942  (12071919)
        405470.14   3775299.03       11.58812  (12071919)                405520.14
3775299.03       12.25158  (12071919)
        405570.14   3775299.03       12.44947  (12071919)                405620.14
3775299.03       12.25066  (12071919)
        405670.14   3775299.03       11.73393  (12071919)                405720.14
3775299.03       10.98722  (12071919)
        405770.14   3775299.03       10.08875  (12071919)                405820.14
3775299.03        9.12052  (12071919)
        403870.14   3775349.03       10.05005  (13030105)                403920.14
3775349.03       10.31731  (13041605)
        403970.14   3775349.03       10.59741  (13041605)                404020.14
3775349.03       10.70429  (12112901)
        404070.14   3775349.03       10.95493  (12112901)                404120.14
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3775349.03   11.01444 (12112901)
        404170.14   3775349.03   11.82314 (16042801)   404220.14
3775349.03   12.03123 (14121123)
        404270.14   3775349.03   12.63640 (12122017)   404320.14
3775349.03   13.08374 (12042522)
        404370.14   3775349.03   12.81479 (12042522)   404420.14
3775349.03   14.20174 (12041701)
        404470.14   3775349.03   14.38748 (12090205)   404520.14
3775349.03   14.41041 (16042722)
        404570.14   3775349.03   14.66684 (16042722)   404620.14
3775349.03   14.24859 (16122317)
        404670.14   3775349.03   14.73358 (13050621)   404720.14
3775349.03   14.82347 (13100906)
        404770.14   3775349.03   14.65156 (15100322)   404820.14
3775349.03   14.17419 (15100322)
        404870.14   3775349.03   14.77963 (14103121)   404920.14
3775349.03   10.97484 (16123116)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                   L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
                   L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                   L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        404970.14   3775349.03   10.51430 (16013017)   405020.14
3775349.03   13.21485 (13092518)
        405070.14   3775349.03   10.70754 (12110815)   405120.14
3775349.03   10.71543 (12110815)

405170.14 3775349.03 9.74139 (14051719) 405220.14
3775349.03 8.50780 (14051719)
405270.14 3775349.03 8.23227 (15102517) 405320.14
3775349.03 8.06493 (15102517)
405370.14 3775349.03 7.55337 (15102517) 405420.14
3775349.03 7.65738 (12071919)
405470.14 3775349.03 8.94081 (12071919) 405520.14
3775349.03 9.92847 (12071919)
405570.14 3775349.03 10.56676 (12071919) 405620.14
3775349.03 10.85690 (12071919)
405670.14 3775349.03 10.81043 (12071919) 405720.14
3775349.03 10.45283 (12071919)
405770.14 3775349.03 9.90137 (12071919) 405820.14
3775349.03 9.21046 (12071919)
403870.14 3775399.03 9.85149 (13082606) 403920.14
3775399.03 9.98488 (13041605)
403970.14 3775399.03 10.35658 (12112901) 404020.14
3775399.03 10.52624 (12112901)
404070.14 3775399.03 10.74554 (12112901) 404120.14
3775399.03 10.96550 (16042801)
404170.14 3775399.03 11.30288 (14121123) 404220.14
3775399.03 11.87429 (12122017)
404270.14 3775399.03 12.34226 (12122017) 404320.14
3775399.03 12.99273 (12042522)
404370.14 3775399.03 11.75788 (12041022) 404420.14
3775399.03 12.37605 (12090205)
404470.14 3775399.03 12.87307 (12090205) 404520.14
3775399.03 13.50324 (16042722)
404570.14 3775399.03 13.94325 (16042722) 404620.14
3775399.03 13.91454 (16122317)
404670.14 3775399.03 13.95512 (13050621) 404720.14
3775399.03 13.72655 (16122320)
404770.14 3775399.03 13.95874 (15100322) 404820.14
3775399.03 14.27867 (15100322)
404870.14 3775399.03 13.59440 (14103121) 404920.14
3775399.03 13.03316 (15100405)
404970.14 3775399.03 12.37732 (12082705) 405020.14
3775399.03 12.24663 (13092518)
405070.14 3775399.03 11.08132 (15100321) 405120.14
3775399.03 11.53989 (15100321)
405170.14 3775399.03 9.07049 (14051719) 405220.14
3775399.03 7.57960 (12110815)
405270.14 3775399.03 7.06444 (15102517) 405320.14
3775399.03 7.17731 (15102517)
405370.14 3775399.03 6.96347 (15102517) 405420.14
3775399.03 6.49073 (15102517)
405470.14 3775399.03 6.63332 (12071919) 405520.14
3775399.03 7.71451 (12071919)
405570.14 3775399.03 8.57728 (12071919) 405620.14
3775399.03 9.14305 (12071919)

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        405670.14   3775399.03        9.44104  (12071919)               405720.14
3775399.03        9.49803  (12071919)
        405770.14   3775399.03        9.31764  (12071919)               405820.14
3775399.03        8.95320  (12071919)
        403870.14   3775449.03        9.62914  (13082606)               403920.14
3775449.03        9.80743  (12112901)
        403970.14   3775449.03       10.14276  (12112901)               404020.14
3775449.03       10.24379  (12112901)
        404070.14   3775449.03       10.36371  (16042801)               404120.14
3775449.03       10.72761  (16042801)
        404170.14   3775449.03       11.12629  (14121123)               404220.14
3775449.03       11.48497  (12122017)
        404270.14   3775449.03       12.20445  (12042522)               404320.14
3775449.03       12.38931  (12041022)
        404370.14   3775449.03       12.56177  (12041701)               404420.14
3775449.03       12.83217  (12090205)
        404470.14   3775449.03       12.72865  (16042722)               404520.14
3775449.03       12.96783  (16042722)
        404570.14   3775449.03       12.85493  (16042722)               404620.14
3775449.03       13.09083  (16122317)
        404670.14   3775449.03       13.19458  (13050621)               404720.14
3775449.03       13.20681  (16122320)
        404770.14   3775449.03       13.34159  (15100322)               404820.14
3775449.03       13.19849  (15100322)
        404870.14   3775449.03       12.77599  (14103121)               404920.14
3775449.03       12.47491  (15100405)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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```
      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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```
3775499.03       10.09420  (14051719)
        405270.14   3775499.03        9.71018  (14051719)                405320.14
3775499.03        9.27065  (13012617)
        405370.14   3775499.03        8.88195  (15091119)                405420.14
3775499.03        8.64619  (15091119)
        405470.14   3775499.03        8.30772  (12103017)                405520.14
3775499.03        6.67351  (12103017)
        405570.14   3775499.03        5.37220  (15070319)                405620.14
3775499.03        5.88501  (12071919)
        405670.14   3775499.03        6.54577  (12071919)                405720.14
3775499.03        7.04366  (12071919)
        405770.14   3775499.03        7.36080  (12071919)                405820.14
3775499.03        7.50076  (12071919)
        403870.14   3775549.03        9.19481  (12112901)                403920.14
3775549.03        9.20212  (12112901)
        403970.14   3775549.03        9.41990  (16042801)                404020.14
3775549.03        9.62230  (16042801)
        404070.14   3775549.03        9.96437  (14121123)                404120.14
3775549.03       10.27332  (12122017)
        404170.14   3775549.03       10.55313  (12042522)                404220.14
3775549.03       10.87056  (12042522)
        404270.14   3775549.03       11.16241  (12041022)                404320.14
3775549.03       11.36692  (12041701)
        404370.14   3775549.03       11.43014  (12090205)                404420.14
3775549.03       11.45332  (16042722)
        404470.14   3775549.03       11.90376  (16042722)                404520.14
3775549.03       11.79824  (16042722)
        404570.14   3775549.03       11.87250  (16122317)                404620.14
3775549.03       11.94994  (13050621)
        404670.14   3775549.03       11.94222  (13100906)                404720.14
3775549.03       11.98898  (16122320)
        404770.14   3775549.03       12.45154  (15100322)                404820.14
3775549.03       11.74834  (15100322)
        404870.14   3775549.03       11.76281  (14103121)                404920.14
3775549.03       11.53891  (14103121)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
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, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        404970.14   3775549.03       11.67862  (15100405)               405020.14
3775549.03       11.17625  (13092518)
        405070.14   3775549.03       11.04205  (13092518)               405120.14
3775549.03       10.82660  (15100321)
        405170.14   3775549.03       10.27991  (15100321)               405220.14
3775549.03        9.75578  (14051719)
        405270.14   3775549.03        9.30781  (14051719)               405320.14
3775549.03        8.88271  (14051719)
        405370.14   3775549.03        8.68262  (13012617)               405420.14
3775549.03        8.82159  (15091119)
        405470.14   3775549.03        8.49170  (15091119)               405520.14
3775549.03        7.94096  (15091119)
        405570.14   3775549.03        7.19633  (12103017)               405620.14
3775549.03        6.81904  (15070319)
        405670.14   3775549.03        5.19062  (12071919)               405720.14
3775549.03        5.78080  (12071919)
        405770.14   3775549.03        6.23517  (12071919)               405820.14
3775549.03        6.55124  (12071919)
        403870.14   3775599.03        9.24017  (12101702)               403920.14
3775599.03        9.21557  (16042801)
        403970.14   3775599.03        9.34160  (16042801)               404020.14
3775599.03        9.59531  (14121123)
        404070.14   3775599.03        9.72255  (12122017)               404120.14
3775599.03        9.86236  (12042522)
        404170.14   3775599.03       10.24774  (12042522)               404220.14
3775599.03       10.41701  (12041022)
        404270.14   3775599.03       10.80840  (12041701)               404320.14
3775599.03       10.93660  (12090205)
        404370.14   3775599.03       10.82366  (13121901)               404420.14
3775599.03       11.21999  (16042722)
        404470.14   3775599.03       11.42162  (16042722)               404520.14
3775599.03       11.09839  (16042722)
        404570.14   3775599.03       11.55356  (16122317)               404620.14
3775599.03       11.45766  (13050621)
        404670.14   3775599.03       11.75645  (13100906)               404720.14
3775599.03       11.83045  (13050620)
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        404770.14   3775599.03       11.63318  (15100322)                404820.14
3775599.03       11.23119  (15100322)
        404870.14   3775599.03       11.32203  (14103121)                404920.14
3775599.03       11.02959  (14103121)
        404970.14   3775599.03       11.28417  (15100405)                405020.14
3775599.03       10.95838  (12082705)
        405070.14   3775599.03       10.88799  (13092518)                405120.14
3775599.03       10.20382  (15100321)
        405170.14   3775599.03       10.10235  (15100321)                405220.14
3775599.03        9.47625  (16013021)
        405270.14   3775599.03        9.47689  (14051719)                405320.14
3775599.03        9.07636  (14051719)
        405370.14   3775599.03        8.96732  (14051819)                405420.14
3775599.03        8.51195  (13092519)
        405470.14   3775599.03        8.29883  (15091119)                405520.14
3775599.03        7.84326  (15091119)
        405570.14   3775599.03        7.13426  (12103017)                405620.14
3775599.03        6.63586  (12103017)
        405670.14   3775599.03        5.52872  (15070319)                405720.14
3775599.03        4.60671  (12071919)
        405770.14   3775599.03        5.12886  (12071919)                405820.14
3775599.03        5.54815  (12071919)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\dlarocca\Desktop\Air Quality
Work\Lakes\SouthSantaA\SouthSa ***        07/02/21
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:28:28

                                  PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                        NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

CONST     1ST HIGHEST VALUE IS     147.46768 AT (  404820.14,  3774749.03,   109.99,
  109.99,    0.00)  DC
          2ND HIGHEST VALUE IS     137.48513 AT (  404870.14,  3774749.03,   109.71,
  109.71,    0.00)  DC
          3RD HIGHEST VALUE IS     124.26296 AT (  404770.14,  3774749.03,   110.09,
  110.09,    0.00)  DC
```

```
         4TH HIGHEST VALUE IS     110.55675 AT (  404720.14,  3774699.03,   109.65,
  109.65,    0.00)  DC
         5TH HIGHEST VALUE IS      66.28586 AT (  404720.14,  3774749.03,   110.16,
  110.16,    0.00)  DC
         6TH HIGHEST VALUE IS      56.03331 AT (  404820.14,  3774799.03,   110.14,
  110.14,    0.00)  DC
         7TH HIGHEST VALUE IS      54.91323 AT (  404970.14,  3774699.03,   108.68,
  108.68,    0.00)  DC
         8TH HIGHEST VALUE IS      53.27528 AT (  404870.14,  3774799.03,   109.93,
  109.93,    0.00)  DC
         9TH HIGHEST VALUE IS      49.08056 AT (  404770.14,  3774799.03,   110.24,
  110.24,    0.00)  DC
        10TH HIGHEST VALUE IS      47.22332 AT (  404970.14,  3774649.03,   108.14,
  108.14,    0.00)  DC

ALL      1ST HIGHEST VALUE IS     147.46768 AT (  404820.14,  3774749.03,   109.99,
  109.99,    0.00)  DC
         2ND HIGHEST VALUE IS     137.48513 AT (  404870.14,  3774749.03,   109.71,
  109.71,    0.00)  DC
         3RD HIGHEST VALUE IS     124.26296 AT (  404770.14,  3774749.03,   110.09,
  110.09,    0.00)  DC
         4TH HIGHEST VALUE IS     110.55675 AT (  404720.14,  3774699.03,   109.65,
  109.65,    0.00)  DC
         5TH HIGHEST VALUE IS      66.28586 AT (  404720.14,  3774749.03,   110.16,
  110.16,    0.00)  DC
         6TH HIGHEST VALUE IS      56.03331 AT (  404820.14,  3774799.03,   110.14,
  110.14,    0.00)  DC
         7TH HIGHEST VALUE IS      54.91323 AT (  404970.14,  3774699.03,   108.68,
  108.68,    0.00)  DC
         8TH HIGHEST VALUE IS      53.27528 AT (  404870.14,  3774799.03,   109.93,
  109.93,    0.00)  DC
         9TH HIGHEST VALUE IS      49.08056 AT (  404770.14,  3774799.03,   110.24,
  110.24,    0.00)  DC
        10TH HIGHEST VALUE IS      47.22332 AT (  404970.14,  3774649.03,   108.14,
  108.14,    0.00)  DC


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

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CONST	HIGH 1ST HIGH VALUE IS	698.67449	ON 12033117: AT (404720.14, 3774699.03, 109.65, 109.65, 0.00)	DC	
ALL	HIGH 1ST HIGH VALUE IS	698.67449	ON 12033117: AT (404720.14, 3774699.03, 109.65, 109.65, 0.00)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 3 Warning Message(s)
A Total of 1684 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 75 Calm Hours Identified

A Total of 1609 Missing Hours Identified (3.67 Percent)

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

```
   ********   WARNING MESSAGES   ********
ME W186     244       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     244       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

OU W540     259        OUTQA: No RECTABLE/MAXTABLE/DAYTABLE for Average Period
  024-HR

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

HARP2 - HRACalc (dated 21081) 7/2/2021 4:54:22 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.33

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.33
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstCancer4TiCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstCancer4TiCancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v21081 7/2/2021 4:54:22 PM - Cancer Risk - Input File: C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstCancer4TiHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		403870.1	3773649	1.05E-08	1.33YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		403920.1	3773649	1.09E-08	1.33YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		403970.1	3773649	1.14E-08	1.33YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		404020.1	3773649	1.18E-08	1.33YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		404070.1	3773649	1.23E-08	1.33YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		404120.1	3773649	1.28E-08	1.33YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		404170.1	3773649	1.33E-08	1.33YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		404220.1	3773649	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		404270.1	3773649	1.42E-08	1.33YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		404320.1	3773649	1.47E-08	1.33YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		404370.1	3773649	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		404420.1	3773649	1.56E-08	1.33YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		404470.1	3773649	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		404520.1	3773649	1.63E-08	1.33YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		404570.1	3773649	1.66E-08	1.33YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		404620.1	3773649	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		404670.1	3773649	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		404720.1	3773649	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		404770.1	3773649	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		404820.1	3773649	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		404870.1	3773649	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		404920.1	3773649	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		404970.1	3773649	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		405020.1	3773649	1.68E-08	1.33YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		405070.1	3773649	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		405120.1	3773649	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		405170.1	3773649	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		405220.1	3773649	1.54E-08	1.33YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		405270.1	3773649	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		405320.1	3773649	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		405370.1	3773649	1.41E-08	1.33YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		405420.1	3773649	1.36E-08	1.33YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		405470.1	3773649	1.32E-08	1.33YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		405520.1	3773649	1.27E-08	1.33YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		405570.1	3773649	1.22E-08	1.33YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		405620.1	3773649	1.17E-08	1.33YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		405670.1	3773649	1.13E-08	1.33YrCanc	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		405720.1	3773649	1.09E-08	1.33YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		405770.1	3773649	1.05E-08	1.33YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		405820.1	3773649	1.01E-08	1.33YrCanc	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		403870.1	3773699	1.10E-08	1.33YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		403920.1	3773699	1.14E-08	1.33YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

43	ALL	403970.1	3773699	1.19E-08	1.33YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL	404020.1	3773699	1.24E-08	1.33YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL	404070.1	3773699	1.30E-08	1.33YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	404120.1	3773699	1.35E-08	1.33YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	404170.1	3773699	1.41E-08	1.33YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	404220.1	3773699	1.46E-08	1.33YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	404270.1	3773699	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	404320.1	3773699	1.57E-08	1.33YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	404370.1	3773699	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	404420.1	3773699	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	404470.1	3773699	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	404520.1	3773699	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	404570.1	3773699	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	404620.1	3773699	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	404670.1	3773699	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	404720.1	3773699	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	404770.1	3773699	1.88E-08	1.33YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	404820.1	3773699	1.88E-08	1.33YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	404870.1	3773699	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	404920.1	3773699	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	404970.1	3773699	1.84E-08	1.33YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL	405020.1	3773699	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL	405070.1	3773699	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL	405120.1	3773699	1.74E-08	1.33YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL	405170.1	3773699	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL	405220.1	3773699	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL	405270.1	3773699	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL	405320.1	3773699	1.55E-08	1.33YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL	405370.1	3773699	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL	405420.1	3773699	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL	405470.1	3773699	1.40E-08	1.33YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL	405520.1	3773699	1.34E-08	1.33YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL	405570.1	3773699	1.29E-08	1.33YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL	405620.1	3773699	1.24E-08	1.33YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL	405670.1	3773699	1.19E-08	1.33YrCanc	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL	405720.1	3773699	1.14E-08	1.33YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL	405770.1	3773699	1.09E-08	1.33YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL	405820.1	3773699	1.05E-08	1.33YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL	403870.1	3773749	1.15E-08	1.33YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL	403920.1	3773749	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL	403970.1	3773749	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL	404020.1	3773749	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL	404070.1	3773749	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL	404120.1	3773749	1.43E-08	1.33YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

87	ALL	404170.1	3773749	1.49E-08	1.33YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL	404220.1	3773749	1.55E-08	1.33YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL	404270.1	3773749	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL	404320.1	3773749	1.68E-08	1.33YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	404370.1	3773749	1.74E-08	1.33YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	404420.1	3773749	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	404470.1	3773749	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	404520.1	3773749	1.90E-08	1.33YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	404570.1	3773749	1.95E-08	1.33YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	404620.1	3773749	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	404670.1	3773749	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	404720.1	3773749	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	404770.1	3773749	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	404820.1	3773749	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	404870.1	3773749	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	404920.1	3773749	2.03E-08	1.33YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	404970.1	3773749	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	405020.1	3773749	1.97E-08	1.33YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	405070.1	3773749	1.93E-08	1.33YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	405120.1	3773749	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	405170.1	3773749	1.84E-08	1.33YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	405220.1	3773749	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	405270.1	3773749	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	405320.1	3773749	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	405370.1	3773749	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	405420.1	3773749	1.54E-08	1.33YrCanc	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	405470.1	3773749	1.48E-08	1.33YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	405520.1	3773749	1.42E-08	1.33YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	405570.1	3773749	1.36E-08	1.33YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	405620.1	3773749	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	405670.1	3773749	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	405720.1	3773749	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	405770.1	3773749	1.15E-08	1.33YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	405820.1	3773749	1.10E-08	1.33YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	403870.1	3773799	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	403920.1	3773799	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	403970.1	3773799	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	404020.1	3773799	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	404070.1	3773799	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	404120.1	3773799	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	404170.1	3773799	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	404220.1	3773799	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	404270.1	3773799	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	404320.1	3773799	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

131	ALL	404370.1	3773799	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	404420.1	3773799	1.94E-08	1.33YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	404470.1	3773799	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	404520.1	3773799	2.07E-08	1.33YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	404570.1	3773799	2.12E-08	1.33YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	404620.1	3773799	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	404670.1	3773799	2.20E-08	1.33YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	404720.1	3773799	2.23E-08	1.33YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	404770.1	3773799	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	404820.1	3773799	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	404870.1	3773799	2.24E-08	1.33YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	404920.1	3773799	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	404970.1	3773799	2.19E-08	1.33YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	405020.1	3773799	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	405070.1	3773799	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	405120.1	3773799	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	405170.1	3773799	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	405220.1	3773799	1.93E-08	1.33YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	405270.1	3773799	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	405320.1	3773799	1.79E-08	1.33YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	405370.1	3773799	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	405420.1	3773799	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	405470.1	3773799	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	405520.1	3773799	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	405570.1	3773799	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	405620.1	3773799	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	405670.1	3773799	1.32E-08	1.33YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	405720.1	3773799	1.26E-08	1.33YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	405770.1	3773799	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	405820.1	3773799	1.15E-08	1.33YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	403870.1	3773849	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	403920.1	3773849	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	403970.1	3773849	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	404020.1	3773849	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	404070.1	3773849	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	404120.1	3773849	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	404170.1	3773849	1.68E-08	1.33YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	404220.1	3773849	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	404270.1	3773849	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	404320.1	3773849	1.93E-08	1.33YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	404370.1	3773849	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	404420.1	3773849	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	404470.1	3773849	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	404520.1	3773849	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

175	ALL	404570.1	3773849	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	404620.1	3773849	2.38E-08	1.33YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	404670.1	3773849	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	404720.1	3773849	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	404770.1	3773849	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	404820.1	3773849	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	404870.1	3773849	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	404920.1	3773849	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	404970.1	3773849	2.41E-08	1.33YrCanc	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	405020.1	3773849	2.36E-08	1.33YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	405070.1	3773849	2.30E-08	1.33YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	405120.1	3773849	2.24E-08	1.33YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	405170.1	3773849	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	405220.1	3773849	2.09E-08	1.33YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	405270.1	3773849	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	405320.1	3773849	1.93E-08	1.33YrCanc	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	405370.1	3773849	1.84E-08	1.33YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	405420.1	3773849	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	405470.1	3773849	1.68E-08	1.33YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	405520.1	3773849	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	405570.1	3773849	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	405620.1	3773849	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	405670.1	3773849	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	405720.1	3773849	1.32E-08	1.33YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	405770.1	3773849	1.26E-08	1.33YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	405820.1	3773849	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	403870.1	3773899	1.30E-08	1.33YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	403920.1	3773899	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	403970.1	3773899	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	404020.1	3773899	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	404070.1	3773899	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	404120.1	3773899	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	404170.1	3773899	1.79E-08	1.33YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	404220.1	3773899	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	404270.1	3773899	1.98E-08	1.33YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	404320.1	3773899	2.08E-08	1.33YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	404370.1	3773899	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	404420.1	3773899	2.28E-08	1.33YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	404470.1	3773899	2.38E-08	1.33YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	404520.1	3773899	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	404570.1	3773899	2.55E-08	1.33YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	404620.1	3773899	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	404670.1	3773899	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	404720.1	3773899	2.72E-08	1.33YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

219	ALL	404770.1	3773899	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	404820.1	3773899	2.75E-08	1.33YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	404870.1	3773899	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	404920.1	3773899	2.71E-08	1.33YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	404970.1	3773899	2.66E-08	1.33YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	405020.1	3773899	2.60E-08	1.33YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	405070.1	3773899	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	405120.1	3773899	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	405170.1	3773899	2.36E-08	1.33YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	405220.1	3773899	2.27E-08	1.33YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	405270.1	3773899	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	405320.1	3773899	2.08E-08	1.33YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	405370.1	3773899	1.98E-08	1.33YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	405420.1	3773899	1.88E-08	1.33YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	405470.1	3773899	1.79E-08	1.33YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	405520.1	3773899	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	405570.1	3773899	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	405620.1	3773899	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	405670.1	3773899	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	405720.1	3773899	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	405770.1	3773899	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	405820.1	3773899	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	403870.1	3773949	1.36E-08	1.33YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	403920.1	3773949	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	403970.1	3773949	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	404020.1	3773949	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	404070.1	3773949	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	404120.1	3773949	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	404170.1	3773949	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	404220.1	3773949	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	404270.1	3773949	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	404320.1	3773949	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	404370.1	3773949	2.37E-08	1.33YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	404420.1	3773949	2.49E-08	1.33YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	404470.1	3773949	2.60E-08	1.33YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	404520.1	3773949	2.71E-08	1.33YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	404570.1	3773949	2.82E-08	1.33YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	404620.1	3773949	2.90E-08	1.33YrCanc	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	404670.1	3773949	2.98E-08	1.33YrCanc	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	404720.1	3773949	3.03E-08	1.33YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	404770.1	3773949	3.06E-08	1.33YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	404820.1	3773949	3.07E-08	1.33YrCanc	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	404870.1	3773949	3.05E-08	1.33YrCanc	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	404920.1	3773949	3.02E-08	1.33YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

263	ALL	404970.1	3773949	2.96E-08	1.33YrCanc	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	405020.1	3773949	2.89E-08	1.33YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	405070.1	3773949	2.80E-08	1.33YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	405120.1	3773949	2.70E-08	1.33YrCanc	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	405170.1	3773949	2.59E-08	1.33YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	405220.1	3773949	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	405270.1	3773949	2.36E-08	1.33YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	405320.1	3773949	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	405370.1	3773949	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	405420.1	3773949	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	405470.1	3773949	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	405520.1	3773949	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	405570.1	3773949	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	405620.1	3773949	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	405670.1	3773949	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	405720.1	3773949	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	405770.1	3773949	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	405820.1	3773949	1.30E-08	1.33YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	403870.1	3773999	1.42E-08	1.33YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	403920.1	3773999	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	403970.1	3773999	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	404020.1	3773999	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	404070.1	3773999	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	404120.1	3773999	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	404170.1	3773999	2.03E-08	1.33YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	404220.1	3773999	2.16E-08	1.33YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	404270.1	3773999	2.29E-08	1.33YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	404320.1	3773999	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	404370.1	3773999	2.58E-08	1.33YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	404420.1	3773999	2.72E-08	1.33YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	404470.1	3773999	2.86E-08	1.33YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	404520.1	3773999	3.00E-08	1.33YrCanc	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	404570.1	3773999	3.13E-08	1.33YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	404620.1	3773999	3.24E-08	1.33YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	404670.1	3773999	3.33E-08	1.33YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	404720.1	3773999	3.40E-08	1.33YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	404770.1	3773999	3.44E-08	1.33YrCanc	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	404820.1	3773999	3.45E-08	1.33YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	404870.1	3773999	3.44E-08	1.33YrCanc	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	404920.1	3773999	3.39E-08	1.33YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	404970.1	3773999	3.32E-08	1.33YrCanc	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	405020.1	3773999	3.22E-08	1.33YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	405070.1	3773999	3.11E-08	1.33YrCanc	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	405120.1	3773999	2.99E-08	1.33YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

307	ALL	405170.1	3773999	2.86E-08	1.33YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	405220.1	3773999	2.72E-08	1.33YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	405270.1	3773999	2.57E-08	1.33YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	405320.1	3773999	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	405370.1	3773999	2.30E-08	1.33YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	405420.1	3773999	2.16E-08	1.33YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	405470.1	3773999	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	405520.1	3773999	1.92E-08	1.33YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	405570.1	3773999	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	405620.1	3773999	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	405670.1	3773999	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	405720.1	3773999	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	405770.1	3773999	1.43E-08	1.33YrCanc	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	405820.1	3773999	1.35E-08	1.33YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	403870.1	3774049	1.47E-08	1.33YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	403920.1	3774049	1.57E-08	1.33YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	403970.1	3774049	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	404020.1	3774049	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	404070.1	3774049	1.90E-08	1.33YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	404120.1	3774049	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	404170.1	3774049	2.16E-08	1.33YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	404220.1	3774049	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	404270.1	3774049	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	404320.1	3774049	2.63E-08	1.33YrCanc	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	404370.1	3774049	2.81E-08	1.33YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	404420.1	3774049	2.98E-08	1.33YrCanc	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	404470.1	3774049	3.16E-08	1.33YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	404520.1	3774049	3.33E-08	1.33YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	404570.1	3774049	3.49E-08	1.33YrCanc	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	404620.1	3774049	3.64E-08	1.33YrCanc	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	404670.1	3774049	3.76E-08	1.33YrCanc	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	404720.1	3774049	3.85E-08	1.33YrCanc	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	404770.1	3774049	3.90E-08	1.33YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	404820.1	3774049	3.92E-08	1.33YrCanc	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	404870.1	3774049	3.90E-08	1.33YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	404920.1	3774049	3.84E-08	1.33YrCanc	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	404970.1	3774049	3.75E-08	1.33YrCanc	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	405020.1	3774049	3.62E-08	1.33YrCanc	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	405070.1	3774049	3.48E-08	1.33YrCanc	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	405120.1	3774049	3.33E-08	1.33YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	405170.1	3774049	3.16E-08	1.33YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	405220.1	3774049	2.98E-08	1.33YrCanc	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	405270.1	3774049	2.81E-08	1.33YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	405320.1	3774049	2.64E-08	1.33YrCanc	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

351	ALL	405370.1	3774049	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	405420.1	3774049	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	405470.1	3774049	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	405520.1	3774049	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	405570.1	3774049	1.92E-08	1.33YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	405620.1	3774049	1.80E-08	1.33YrCanc	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	405670.1	3774049	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	405720.1	3774049	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	405770.1	3774049	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	405820.1	3774049	1.41E-08	1.33YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	403870.1	3774099	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	403920.1	3774099	1.64E-08	1.33YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	403970.1	3774099	1.75E-08	1.33YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	404020.1	3774099	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	404070.1	3774099	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	404120.1	3774099	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	404170.1	3774099	2.30E-08	1.33YrCanc	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	404220.1	3774099	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	404270.1	3774099	2.66E-08	1.33YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	404320.1	3774099	2.86E-08	1.33YrCanc	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	404370.1	3774099	3.06E-08	1.33YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	404420.1	3774099	3.28E-08	1.33YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	404470.1	3774099	3.50E-08	1.33YrCanc	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	404520.1	3774099	3.72E-08	1.33YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	404570.1	3774099	3.93E-08	1.33YrCanc	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	404620.1	3774099	4.11E-08	1.33YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	404670.1	3774099	4.28E-08	1.33YrCanc	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	404720.1	3774099	4.40E-08	1.33YrCanc	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	404770.1	3774099	4.47E-08	1.33YrCanc	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	404820.1	3774099	4.50E-08	1.33YrCanc	4.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	404870.1	3774099	4.47E-08	1.33YrCanc	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	404920.1	3774099	4.39E-08	1.33YrCanc	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	404970.1	3774099	4.27E-08	1.33YrCanc	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	405020.1	3774099	4.11E-08	1.33YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	405070.1	3774099	3.93E-08	1.33YrCanc	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	405120.1	3774099	3.72E-08	1.33YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	405170.1	3774099	3.51E-08	1.33YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	405220.1	3774099	3.29E-08	1.33YrCanc	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	405270.1	3774099	3.08E-08	1.33YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	405320.1	3774099	2.88E-08	1.33YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	405370.1	3774099	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	405420.1	3774099	2.50E-08	1.33YrCanc	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	405470.1	3774099	2.33E-08	1.33YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	405520.1	3774099	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

395	ALL	405570.1	3774099	2.03E-08	1.33YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	405620.1	3774099	1.90E-08	1.33YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	405670.1	3774099	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	405720.1	3774099	1.66E-08	1.33YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	405770.1	3774099	1.56E-08	1.33YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	405820.1	3774099	1.47E-08	1.33YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	403870.1	3774149	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	403920.1	3774149	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	403970.1	3774149	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	404020.1	3774149	1.96E-08	1.33YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	404070.1	3774149	2.11E-08	1.33YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	404120.1	3774149	2.27E-08	1.33YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	404170.1	3774149	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	404220.1	3774149	2.65E-08	1.33YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	404270.1	3774149	2.87E-08	1.33YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	404320.1	3774149	3.10E-08	1.33YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	404370.1	3774149	3.35E-08	1.33YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	404420.1	3774149	3.62E-08	1.33YrCanc	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	404470.1	3774149	3.89E-08	1.33YrCanc	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	404520.1	3774149	4.17E-08	1.33YrCanc	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	404570.1	3774149	4.45E-08	1.33YrCanc	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	404620.1	3774149	4.70E-08	1.33YrCanc	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	404670.1	3774149	4.92E-08	1.33YrCanc	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	404720.1	3774149	5.09E-08	1.33YrCanc	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	404770.1	3774149	5.19E-08	1.33YrCanc	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	404820.1	3774149	5.22E-08	1.33YrCanc	5.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	404870.1	3774149	5.19E-08	1.33YrCanc	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	404920.1	3774149	5.09E-08	1.33YrCanc	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	404970.1	3774149	4.92E-08	1.33YrCanc	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	405020.1	3774149	4.70E-08	1.33YrCanc	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	405070.1	3774149	4.46E-08	1.33YrCanc	4.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	405120.1	3774149	4.19E-08	1.33YrCanc	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	405170.1	3774149	3.92E-08	1.33YrCanc	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	405220.1	3774149	3.65E-08	1.33YrCanc	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	405270.1	3774149	3.39E-08	1.33YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	405320.1	3774149	3.14E-08	1.33YrCanc	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	405370.1	3774149	2.90E-08	1.33YrCanc	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	405420.1	3774149	2.69E-08	1.33YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	405470.1	3774149	2.49E-08	1.33YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	405520.1	3774149	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	405570.1	3774149	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	405620.1	3774149	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	405670.1	3774149	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	405720.1	3774149	1.74E-08	1.33YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

439	ALL	405770.1	3774149	1.63E-08	1.33YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	405820.1	3774149	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	403870.1	3774199	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	403920.1	3774199	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	403970.1	3774199	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	404020.1	3774199	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	404070.1	3774199	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	404120.1	3774199	2.41E-08	1.33YrCanc	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	404170.1	3774199	2.61E-08	1.33YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	404220.1	3774199	2.84E-08	1.33YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	404270.1	3774199	3.09E-08	1.33YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	404320.1	3774199	3.37E-08	1.33YrCanc	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	404370.1	3774199	3.68E-08	1.33YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	404420.1	3774199	4.00E-08	1.33YrCanc	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	404470.1	3774199	4.31E-08	1.33YrCanc	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	404520.1	3774199	4.71E-08	1.33YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	404570.1	3774199	5.08E-08	1.33YrCanc	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	404620.1	3774199	5.42E-08	1.33YrCanc	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	404670.1	3774199	5.72E-08	1.33YrCanc	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	404720.1	3774199	5.95E-08	1.33YrCanc	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	404770.1	3774199	6.10E-08	1.33YrCanc	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	404820.1	3774199	6.16E-08	1.33YrCanc	6.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	404870.1	3774199	6.12E-08	1.33YrCanc	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	404920.1	3774199	5.96E-08	1.33YrCanc	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	404970.1	3774199	5.74E-08	1.33YrCanc	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	405020.1	3774199	5.44E-08	1.33YrCanc	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	405070.1	3774199	5.11E-08	1.33YrCanc	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	405120.1	3774199	4.75E-08	1.33YrCanc	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	405170.1	3774199	4.40E-08	1.33YrCanc	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	405220.1	3774199	4.06E-08	1.33YrCanc	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	405270.1	3774199	3.73E-08	1.33YrCanc	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	405320.1	3774199	3.43E-08	1.33YrCanc	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	405370.1	3774199	3.15E-08	1.33YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	405420.1	3774199	2.89E-08	1.33YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	405470.1	3774199	2.66E-08	1.33YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	405520.1	3774199	2.46E-08	1.33YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	405570.1	3774199	2.27E-08	1.33YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	405620.1	3774199	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	405670.1	3774199	1.95E-08	1.33YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	405720.1	3774199	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	405770.1	3774199	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	405820.1	3774199	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	403870.1	3774249	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	403920.1	3774249	1.84E-08	1.33YrCanc	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

483	ALL	403970.1	3774249	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	404020.1	3774249	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	404070.1	3774249	2.33E-08	1.33YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	404120.1	3774249	2.54E-08	1.33YrCanc	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	404170.1	3774249	2.77E-08	1.33YrCanc	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	404220.1	3774249	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	404270.1	3774249	3.33E-08	1.33YrCanc	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	404320.1	3774249	3.66E-08	1.33YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	404370.1	3774249	4.03E-08	1.33YrCanc	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	404420.1	3774249	4.44E-08	1.33YrCanc	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	404470.1	3774249	4.87E-08	1.33YrCanc	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	404520.1	3774249	5.36E-08	1.33YrCanc	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	404570.1	3774249	5.84E-08	1.33YrCanc	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	404620.1	3774249	6.31E-08	1.33YrCanc	6.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	404670.1	3774249	6.74E-08	1.33YrCanc	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	404720.1	3774249	7.08E-08	1.33YrCanc	7.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	404770.1	3774249	7.31E-08	1.33YrCanc	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	404820.1	3774249	7.41E-08	1.33YrCanc	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	404870.1	3774249	7.34E-08	1.33YrCanc	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	404920.1	3774249	7.12E-08	1.33YrCanc	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	404970.1	3774249	6.78E-08	1.33YrCanc	6.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	405020.1	3774249	6.37E-08	1.33YrCanc	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	405070.1	3774249	5.91E-08	1.33YrCanc	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	405120.1	3774249	5.43E-08	1.33YrCanc	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	405170.1	3774249	4.97E-08	1.33YrCanc	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	405220.1	3774249	4.52E-08	1.33YrCanc	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	405270.1	3774249	4.12E-08	1.33YrCanc	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	405320.1	3774249	3.74E-08	1.33YrCanc	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	405370.1	3774249	3.41E-08	1.33YrCanc	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	405420.1	3774249	3.11E-08	1.33YrCanc	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	405470.1	3774249	2.85E-08	1.33YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	405520.1	3774249	2.61E-08	1.33YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	405570.1	3774249	2.40E-08	1.33YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	405620.1	3774249	2.21E-08	1.33YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	405670.1	3774249	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	405720.1	3774249	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	405770.1	3774249	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	405820.1	3774249	1.64E-08	1.33YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	403870.1	3774299	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	403920.1	3774299	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	403970.1	3774299	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	404020.1	3774299	2.24E-08	1.33YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	404070.1	3774299	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	404120.1	3774299	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

527	ALL	404170.1	3774299	2.94E-08	1.33YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	404220.1	3774299	3.24E-08	1.33YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	404270.1	3774299	3.58E-08	1.33YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	404320.1	3774299	3.97E-08	1.33YrCanc	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	404370.1	3774299	4.42E-08	1.33YrCanc	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	404420.1	3774299	4.93E-08	1.33YrCanc	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	404470.1	3774299	5.50E-08	1.33YrCanc	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	404520.1	3774299	6.12E-08	1.33YrCanc	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	404570.1	3774299	6.78E-08	1.33YrCanc	6.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	404620.1	3774299	7.44E-08	1.33YrCanc	7.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	404670.1	3774299	8.07E-08	1.33YrCanc	8.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	404720.1	3774299	8.59E-08	1.33YrCanc	8.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	404770.1	3774299	8.94E-08	1.33YrCanc	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	404820.1	3774299	9.09E-08	1.33YrCanc	9.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	404870.1	3774299	8.98E-08	1.33YrCanc	8.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	404920.1	3774299	8.65E-08	1.33YrCanc	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	404970.1	3774299	8.15E-08	1.33YrCanc	8.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	405020.1	3774299	7.56E-08	1.33YrCanc	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	405070.1	3774299	6.91E-08	1.33YrCanc	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	405120.1	3774299	6.25E-08	1.33YrCanc	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	405170.1	3774299	5.63E-08	1.33YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	405220.1	3774299	5.06E-08	1.33YrCanc	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	405270.1	3774299	4.55E-08	1.33YrCanc	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	405320.1	3774299	4.09E-08	1.33YrCanc	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	405370.1	3774299	3.69E-08	1.33YrCanc	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	405420.1	3774299	3.34E-08	1.33YrCanc	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	405470.1	3774299	3.03E-08	1.33YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	405520.1	3774299	2.76E-08	1.33YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	405570.1	3774299	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	405620.1	3774299	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	405670.1	3774299	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	405720.1	3774299	1.97E-08	1.33YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	405770.1	3774299	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	405820.1	3774299	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	403870.1	3774349	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	403920.1	3774349	1.97E-08	1.33YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	403970.1	3774349	2.14E-08	1.33YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	404020.1	3774349	2.33E-08	1.33YrCanc	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	404070.1	3774349	2.55E-08	1.33YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	404120.1	3774349	2.81E-08	1.33YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	404170.1	3774349	3.10E-08	1.33YrCanc	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	404220.1	3774349	3.44E-08	1.33YrCanc	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	404270.1	3774349	3.84E-08	1.33YrCanc	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	404320.1	3774349	4.30E-08	1.33YrCanc	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

571	ALL	404370.1	3774349	4.84E-08	1.33YrCanc	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	404420.1	3774349	5.47E-08	1.33YrCanc	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	404470.1	3774349	6.20E-08	1.33YrCanc	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	404520.1	3774349	7.02E-08	1.33YrCanc	7.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	404570.1	3774349	7.93E-08	1.33YrCanc	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	404620.1	3774349	8.90E-08	1.33YrCanc	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	404670.1	3774349	9.85E-08	1.33YrCanc	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	404720.1	3774349	1.07E-07	1.33YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	404770.1	3774349	1.12E-07	1.33YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	404820.1	3774349	1.15E-07	1.33YrCanc	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	404870.1	3774349	1.13E-07	1.33YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	404920.1	3774349	1.08E-07	1.33YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	404970.1	3774349	1.00E-07	1.33YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	405020.1	3774349	9.11E-08	1.33YrCanc	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	405070.1	3774349	8.15E-08	1.33YrCanc	8.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	405120.1	3774349	7.24E-08	1.33YrCanc	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	405170.1	3774349	6.41E-08	1.33YrCanc	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	405220.1	3774349	5.67E-08	1.33YrCanc	5.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	405270.1	3774349	5.03E-08	1.33YrCanc	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	405320.1	3774349	4.47E-08	1.33YrCanc	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	405370.1	3774349	3.99E-08	1.33YrCanc	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	405420.1	3774349	3.58E-08	1.33YrCanc	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	405470.1	3774349	3.23E-08	1.33YrCanc	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	405520.1	3774349	2.92E-08	1.33YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	405570.1	3774349	2.66E-08	1.33YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	405620.1	3774349	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	405670.1	3774349	2.23E-08	1.33YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	405720.1	3774349	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	405770.1	3774349	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	405820.1	3774349	1.75E-08	1.33YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	403870.1	3774399	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	403920.1	3774399	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	403970.1	3774399	2.21E-08	1.33YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	404020.1	3774399	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	404070.1	3774399	2.66E-08	1.33YrCanc	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	404120.1	3774399	2.94E-08	1.33YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	404170.1	3774399	3.26E-08	1.33YrCanc	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	404220.1	3774399	3.65E-08	1.33YrCanc	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	404270.1	3774399	4.10E-08	1.33YrCanc	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	404320.1	3774399	4.64E-08	1.33YrCanc	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	404370.1	3774399	5.29E-08	1.33YrCanc	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	404420.1	3774399	6.06E-08	1.33YrCanc	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	404470.1	3774399	6.99E-08	1.33YrCanc	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	404520.1	3774399	8.09E-08	1.33YrCanc	8.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

615	ALL	404570.1	3774399	9.36E-08	1.33YrCanc	9.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	404620.1	3774399	1.08E-07	1.33YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	404670.1	3774399	1.23E-07	1.33YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	404720.1	3774399	1.36E-07	1.33YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	404770.1	3774399	1.46E-07	1.33YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	404820.1	3774399	1.50E-07	1.33YrCanc	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	404870.1	3774399	1.48E-07	1.33YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	404920.1	3774399	1.39E-07	1.33YrCanc	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	404970.1	3774399	1.26E-07	1.33YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	405020.1	3774399	1.12E-07	1.33YrCanc	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	405070.1	3774399	9.74E-08	1.33YrCanc	9.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	405120.1	3774399	8.44E-08	1.33YrCanc	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	405170.1	3774399	7.31E-08	1.33YrCanc	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	405220.1	3774399	6.35E-08	1.33YrCanc	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	405270.1	3774399	5.54E-08	1.33YrCanc	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	405320.1	3774399	4.87E-08	1.33YrCanc	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	405370.1	3774399	4.30E-08	1.33YrCanc	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	405420.1	3774399	3.83E-08	1.33YrCanc	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	405470.1	3774399	3.42E-08	1.33YrCanc	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	405520.1	3774399	3.08E-08	1.33YrCanc	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	405570.1	3774399	2.79E-08	1.33YrCanc	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	405620.1	3774399	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	405670.1	3774399	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	405720.1	3774399	2.12E-08	1.33YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	405770.1	3774399	1.95E-08	1.33YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	405820.1	3774399	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	403870.1	3774449	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	403920.1	3774449	2.08E-08	1.33YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	403970.1	3774449	2.27E-08	1.33YrCanc	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	404020.1	3774449	2.49E-08	1.33YrCanc	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	404070.1	3774449	2.75E-08	1.33YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	404120.1	3774449	3.06E-08	1.33YrCanc	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	404170.1	3774449	3.42E-08	1.33YrCanc	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	404220.1	3774449	3.84E-08	1.33YrCanc	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	404270.1	3774449	4.35E-08	1.33YrCanc	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	404320.1	3774449	4.98E-08	1.33YrCanc	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	404370.1	3774449	5.74E-08	1.33YrCanc	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	404420.1	3774449	6.69E-08	1.33YrCanc	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	404470.1	3774449	7.86E-08	1.33YrCanc	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	404520.1	3774449	9.32E-08	1.33YrCanc	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	404570.1	3774449	1.11E-07	1.33YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	404620.1	3774449	1.32E-07	1.33YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	404670.1	3774449	1.56E-07	1.33YrCanc	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	404720.1	3774449	1.80E-07	1.33YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

659	ALL	404770.1	3774449	1.99E-07	1.33YrCanc	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	404820.1	3774449	2.07E-07	1.33YrCanc	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	404870.1	3774449	2.02E-07	1.33YrCanc	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	404920.1	3774449	1.86E-07	1.33YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	404970.1	3774449	1.63E-07	1.33YrCanc	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	405020.1	3774449	1.40E-07	1.33YrCanc	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	405070.1	3774449	1.18E-07	1.33YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	405120.1	3774449	9.87E-08	1.33YrCanc	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	405170.1	3774449	8.33E-08	1.33YrCanc	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	405220.1	3774449	7.10E-08	1.33YrCanc	7.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	405270.1	3774449	6.10E-08	1.33YrCanc	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	405320.1	3774449	5.29E-08	1.33YrCanc	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	405370.1	3774449	4.62E-08	1.33YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	405420.1	3774449	4.08E-08	1.33YrCanc	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	405470.1	3774449	3.62E-08	1.33YrCanc	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	405520.1	3774449	3.24E-08	1.33YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	405570.1	3774449	2.91E-08	1.33YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	405620.1	3774449	2.64E-08	1.33YrCanc	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	405670.1	3774449	2.40E-08	1.33YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	405720.1	3774449	2.19E-08	1.33YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	405770.1	3774449	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	405820.1	3774449	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	403870.1	3774499	1.94E-08	1.33YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	403920.1	3774499	2.12E-08	1.33YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	403970.1	3774499	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	404020.1	3774499	2.56E-08	1.33YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	404070.1	3774499	2.83E-08	1.33YrCanc	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	404120.1	3774499	3.16E-08	1.33YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	404170.1	3774499	3.55E-08	1.33YrCanc	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	404220.1	3774499	4.02E-08	1.33YrCanc	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	404270.1	3774499	4.59E-08	1.33YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	404320.1	3774499	5.30E-08	1.33YrCanc	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	404370.1	3774499	6.18E-08	1.33YrCanc	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	404420.1	3774499	7.25E-08	1.33YrCanc	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	404470.1	3774499	8.77E-08	1.33YrCanc	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	404520.1	3774499	1.07E-07	1.33YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	404570.1	3774499	1.32E-07	1.33YrCanc	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	404620.1	3774499	1.65E-07	1.33YrCanc	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	404670.1	3774499	2.05E-07	1.33YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	404720.1	3774499	2.50E-07	1.33YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	404770.1	3774499	2.88E-07	1.33YrCanc	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	404820.1	3774499	3.07E-07	1.33YrCanc	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	404870.1	3774499	2.97E-07	1.33YrCanc	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	404920.1	3774499	2.64E-07	1.33YrCanc	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

703	ALL	404970.1	3774499	2.20E-07	1.33YrCanc	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	405020.1	3774499	1.78E-07	1.33YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	405070.1	3774499	1.43E-07	1.33YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	405120.1	3774499	1.16E-07	1.33YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	405170.1	3774499	9.48E-08	1.33YrCanc	9.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	405220.1	3774499	7.90E-08	1.33YrCanc	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	405270.1	3774499	6.67E-08	1.33YrCanc	6.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	405320.1	3774499	5.71E-08	1.33YrCanc	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	405370.1	3774499	4.94E-08	1.33YrCanc	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	405420.1	3774499	4.32E-08	1.33YrCanc	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	405470.1	3774499	3.81E-08	1.33YrCanc	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	405520.1	3774499	3.39E-08	1.33YrCanc	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	405570.1	3774499	3.03E-08	1.33YrCanc	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	405620.1	3774499	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	405670.1	3774499	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	405720.1	3774499	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	405770.1	3774499	2.07E-08	1.33YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	405820.1	3774499	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	403870.1	3774549	1.97E-08	1.33YrCanc	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	403920.1	3774549	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	403970.1	3774549	2.37E-08	1.33YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	404020.1	3774549	2.61E-08	1.33YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	404070.1	3774549	2.90E-08	1.33YrCanc	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	404120.1	3774549	3.25E-08	1.33YrCanc	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	404170.1	3774549	3.66E-08	1.33YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	404220.1	3774549	4.17E-08	1.33YrCanc	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	404270.1	3774549	4.79E-08	1.33YrCanc	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	404320.1	3774549	5.57E-08	1.33YrCanc	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	404370.1	3774549	6.58E-08	1.33YrCanc	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	404420.1	3774549	7.86E-08	1.33YrCanc	7.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	404470.1	3774549	9.66E-08	1.33YrCanc	9.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	404520.1	3774549	1.21E-07	1.33YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	404570.1	3774549	1.55E-07	1.33YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	404620.1	3774549	2.05E-07	1.33YrCanc	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	404670.1	3774549	2.76E-07	1.33YrCanc	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	404720.1	3774549	3.68E-07	1.33YrCanc	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	404970.1	3774549	3.09E-07	1.33YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	405020.1	3774549	2.30E-07	1.33YrCanc	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	405070.1	3774549	1.74E-07	1.33YrCanc	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	405120.1	3774549	1.35E-07	1.33YrCanc	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	405170.1	3774549	1.07E-07	1.33YrCanc	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	405220.1	3774549	8.72E-08	1.33YrCanc	8.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	405270.1	3774549	7.24E-08	1.33YrCanc	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	405320.1	3774549	6.12E-08	1.33YrCanc	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

747	ALL	405370.1	3774549	5.24E-08	1.33YrCanc	5.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	405420.1	3774549	4.55E-08	1.33YrCanc	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	405470.1	3774549	3.99E-08	1.33YrCanc	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	405520.1	3774549	3.53E-08	1.33YrCanc	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	405570.1	3774549	3.15E-08	1.33YrCanc	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	405620.1	3774549	2.83E-08	1.33YrCanc	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	405670.1	3774549	2.56E-08	1.33YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	405720.1	3774549	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	405770.1	3774549	2.12E-08	1.33YrCanc	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	405820.1	3774549	1.95E-08	1.33YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	403870.1	3774599	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	403920.1	3774599	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	403970.1	3774599	2.40E-08	1.33YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	404020.1	3774599	2.65E-08	1.33YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	404070.1	3774599	2.95E-08	1.33YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	404120.1	3774599	3.31E-08	1.33YrCanc	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	404170.1	3774599	3.74E-08	1.33YrCanc	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	404220.1	3774599	4.28E-08	1.33YrCanc	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	404270.1	3774599	4.94E-08	1.33YrCanc	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	404320.1	3774599	5.79E-08	1.33YrCanc	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	404370.1	3774599	6.89E-08	1.33YrCanc	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	404420.1	3774599	8.37E-08	1.33YrCanc	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	404470.1	3774599	1.04E-07	1.33YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	404520.1	3774599	1.34E-07	1.33YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	404570.1	3774599	1.79E-07	1.33YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	404620.1	3774599	2.52E-07	1.33YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	404670.1	3774599	3.78E-07	1.33YrCanc	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	404970.1	3774599	4.56E-07	1.33YrCanc	4.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	405020.1	3774599	2.98E-07	1.33YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	405070.1	3774599	2.09E-07	1.33YrCanc	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	405120.1	3774599	1.54E-07	1.33YrCanc	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	405170.1	3774599	1.19E-07	1.33YrCanc	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	405220.1	3774599	9.49E-08	1.33YrCanc	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	405270.1	3774599	7.77E-08	1.33YrCanc	7.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	405320.1	3774599	6.49E-08	1.33YrCanc	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	405370.1	3774599	5.51E-08	1.33YrCanc	5.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	405420.1	3774599	4.75E-08	1.33YrCanc	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	405470.1	3774599	4.14E-08	1.33YrCanc	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	405520.1	3774599	3.65E-08	1.33YrCanc	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	405570.1	3774599	3.24E-08	1.33YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	405620.1	3774599	2.91E-08	1.33YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	405670.1	3774599	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	405720.1	3774599	2.38E-08	1.33YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	405770.1	3774599	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

791	ALL	405820.1	3774599	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	403870.1	3774649	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	403920.1	3774649	2.19E-08	1.33YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	403970.1	3774649	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	404020.1	3774649	2.67E-08	1.33YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	404070.1	3774649	2.98E-08	1.33YrCanc	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	404120.1	3774649	3.35E-08	1.33YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	404170.1	3774649	3.79E-08	1.33YrCanc	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	404220.1	3774649	4.34E-08	1.33YrCanc	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	404270.1	3774649	5.04E-08	1.33YrCanc	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	404320.1	3774649	5.92E-08	1.33YrCanc	5.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	404370.1	3774649	7.09E-08	1.33YrCanc	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	404420.1	3774649	8.67E-08	1.33YrCanc	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	404470.1	3774649	1.09E-07	1.33YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	404520.1	3774649	1.43E-07	1.33YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	404570.1	3774649	1.97E-07	1.33YrCanc	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	404620.1	3774649	2.94E-07	1.33YrCanc	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	404670.1	3774649	4.99E-07	1.33YrCanc	4.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	404970.1	3774649	6.71E-07	1.33YrCanc	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	405020.1	3774649	3.72E-07	1.33YrCanc	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	405070.1	3774649	2.41E-07	1.33YrCanc	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	405120.1	3774649	1.71E-07	1.33YrCanc	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	405170.1	3774649	1.29E-07	1.33YrCanc	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	405220.1	3774649	1.01E-07	1.33YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	405270.1	3774649	8.19E-08	1.33YrCanc	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	405320.1	3774649	6.79E-08	1.33YrCanc	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	405370.1	3774649	5.73E-08	1.33YrCanc	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	405420.1	3774649	4.91E-08	1.33YrCanc	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	405470.1	3774649	4.27E-08	1.33YrCanc	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	405520.1	3774649	3.75E-08	1.33YrCanc	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	405570.1	3774649	3.32E-08	1.33YrCanc	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	405620.1	3774649	2.97E-08	1.33YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	405670.1	3774649	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	405720.1	3774649	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	405770.1	3774649	2.21E-08	1.33YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	405820.1	3774649	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	403870.1	3774699	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	403920.1	3774699	2.20E-08	1.33YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	403970.1	3774699	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	404020.1	3774699	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	404070.1	3774699	2.99E-08	1.33YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	404120.1	3774699	3.36E-08	1.33YrCanc	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	404170.1	3774699	3.81E-08	1.33YrCanc	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	404220.1	3774699	4.36E-08	1.33YrCanc	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

835	ALL	404270.1	3774699	5.06E-08	1.33YrCanc	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	404320.1	3774699	5.96E-08	1.33YrCanc	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	404370.1	3774699	7.14E-08	1.33YrCanc	7.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	404420.1	3774699	8.76E-08	1.33YrCanc	8.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	404470.1	3774699	1.11E-07	1.33YrCanc	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	404520.1	3774699	1.45E-07	1.33YrCanc	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	404570.1	3774699	2.03E-07	1.33YrCanc	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	404620.1	3774699	3.09E-07	1.33YrCanc	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	404670.1	3774699	5.57E-07	1.33YrCanc	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	404720.1	3774699	1.57E-06	1.33YrCanc	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	404970.1	3774699	7.81E-07	1.33YrCanc	7.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	405020.1	3774699	4.06E-07	1.33YrCanc	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	405070.1	3774699	2.57E-07	1.33YrCanc	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	405120.1	3774699	1.80E-07	1.33YrCanc	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	405170.1	3774699	1.34E-07	1.33YrCanc	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	405220.1	3774699	1.05E-07	1.33YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	405270.1	3774699	8.44E-08	1.33YrCanc	8.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	405320.1	3774699	6.97E-08	1.33YrCanc	6.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	405370.1	3774699	5.87E-08	1.33YrCanc	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	405420.1	3774699	5.02E-08	1.33YrCanc	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	405470.1	3774699	4.35E-08	1.33YrCanc	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	405520.1	3774699	3.82E-08	1.33YrCanc	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	405570.1	3774699	3.38E-08	1.33YrCanc	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	405620.1	3774699	3.02E-08	1.33YrCanc	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	405670.1	3774699	2.72E-08	1.33YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	405720.1	3774699	2.46E-08	1.33YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	405770.1	3774699	2.24E-08	1.33YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	405820.1	3774699	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	403870.1	3774749	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	403920.1	3774749	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	403970.1	3774749	2.41E-08	1.33YrCanc	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	404020.1	3774749	2.67E-08	1.33YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	404070.1	3774749	2.97E-08	1.33YrCanc	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	404120.1	3774749	3.34E-08	1.33YrCanc	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	404170.1	3774749	3.78E-08	1.33YrCanc	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	404220.1	3774749	4.33E-08	1.33YrCanc	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	404270.1	3774749	5.01E-08	1.33YrCanc	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	404320.1	3774749	5.89E-08	1.33YrCanc	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	404370.1	3774749	7.04E-08	1.33YrCanc	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	404420.1	3774749	8.60E-08	1.33YrCanc	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	404470.1	3774749	1.08E-07	1.33YrCanc	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	404520.1	3774749	1.41E-07	1.33YrCanc	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	404570.1	3774749	1.93E-07	1.33YrCanc	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	404620.1	3774749	2.84E-07	1.33YrCanc	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

879	ALL	404670.1	3774749	4.72E-07	1.33YrCanc	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	404720.1	3774749	9.42E-07	1.33YrCanc	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	404770.1	3774749	1.77E-06	1.33YrCanc	1.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	404820.1	3774749	2.10E-06	1.33YrCanc	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	404870.1	3774749	1.95E-06	1.33YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	404970.1	3774749	6.24E-07	1.33YrCanc	6.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	405020.1	3774749	3.71E-07	1.33YrCanc	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	405070.1	3774749	2.46E-07	1.33YrCanc	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	405120.1	3774749	1.76E-07	1.33YrCanc	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	405170.1	3774749	1.33E-07	1.33YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	405220.1	3774749	1.05E-07	1.33YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	405270.1	3774749	8.46E-08	1.33YrCanc	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	405320.1	3774749	7.00E-08	1.33YrCanc	7.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	405370.1	3774749	5.91E-08	1.33YrCanc	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	405420.1	3774749	5.06E-08	1.33YrCanc	5.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	405470.1	3774749	4.39E-08	1.33YrCanc	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	405520.1	3774749	3.85E-08	1.33YrCanc	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	405570.1	3774749	3.41E-08	1.33YrCanc	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	405620.1	3774749	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	405670.1	3774749	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	405720.1	3774749	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	405770.1	3774749	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	405820.1	3774749	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	403870.1	3774799	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	403920.1	3774799	2.09E-08	1.33YrCanc	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	403970.1	3774799	2.35E-08	1.33YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	404020.1	3774799	2.64E-08	1.33YrCanc	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	404070.1	3774799	2.94E-08	1.33YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	404120.1	3774799	3.29E-08	1.33YrCanc	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	404170.1	3774799	3.72E-08	1.33YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	404220.1	3774799	4.24E-08	1.33YrCanc	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	404270.1	3774799	4.90E-08	1.33YrCanc	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	404320.1	3774799	5.73E-08	1.33YrCanc	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	404370.1	3774799	6.80E-08	1.33YrCanc	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	404420.1	3774799	8.23E-08	1.33YrCanc	8.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	404470.1	3774799	1.02E-07	1.33YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	404520.1	3774799	1.30E-07	1.33YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	404570.1	3774799	1.72E-07	1.33YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	404620.1	3774799	2.38E-07	1.33YrCanc	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	404670.1	3774799	3.46E-07	1.33YrCanc	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	404720.1	3774799	5.12E-07	1.33YrCanc	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	404770.1	3774799	6.98E-07	1.33YrCanc	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	404820.1	3774799	7.97E-07	1.33YrCanc	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	404870.1	3774799	7.57E-07	1.33YrCanc	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

923	ALL	404970.1	3774799	4.25E-07	1.33YrCanc	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	405020.1	3774799	2.98E-07	1.33YrCanc	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	405070.1	3774799	2.15E-07	1.33YrCanc	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	405120.1	3774799	1.62E-07	1.33YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	405170.1	3774799	1.26E-07	1.33YrCanc	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	405220.1	3774799	1.01E-07	1.33YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	405270.1	3774799	8.23E-08	1.33YrCanc	8.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	405320.1	3774799	6.87E-08	1.33YrCanc	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	405370.1	3774799	5.82E-08	1.33YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	405420.1	3774799	5.01E-08	1.33YrCanc	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	405470.1	3774799	4.36E-08	1.33YrCanc	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	405520.1	3774799	3.83E-08	1.33YrCanc	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	405570.1	3774799	3.40E-08	1.33YrCanc	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	405620.1	3774799	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	405670.1	3774799	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	405720.1	3774799	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	405770.1	3774799	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	405820.1	3774799	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	403870.1	3774849	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	403920.1	3774849	1.94E-08	1.33YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	403970.1	3774849	2.23E-08	1.33YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	404020.1	3774849	2.58E-08	1.33YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	404070.1	3774849	2.88E-08	1.33YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	404120.1	3774849	3.22E-08	1.33YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	404170.1	3774849	3.63E-08	1.33YrCanc	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	404220.1	3774849	4.12E-08	1.33YrCanc	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	404270.1	3774849	4.73E-08	1.33YrCanc	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	404320.1	3774849	5.49E-08	1.33YrCanc	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	404370.1	3774849	6.46E-08	1.33YrCanc	6.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	404420.1	3774849	7.71E-08	1.33YrCanc	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	404470.1	3774849	9.37E-08	1.33YrCanc	9.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	404520.1	3774849	1.16E-07	1.33YrCanc	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	404570.1	3774849	1.48E-07	1.33YrCanc	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	404620.1	3774849	1.91E-07	1.33YrCanc	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	404670.1	3774849	2.50E-07	1.33YrCanc	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	404720.1	3774849	3.22E-07	1.33YrCanc	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	404770.1	3774849	3.90E-07	1.33YrCanc	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	404820.1	3774849	4.24E-07	1.33YrCanc	4.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	404870.1	3774849	4.12E-07	1.33YrCanc	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	404970.1	3774849	2.91E-07	1.33YrCanc	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	405020.1	3774849	2.29E-07	1.33YrCanc	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	405070.1	3774849	1.79E-07	1.33YrCanc	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	405120.1	3774849	1.42E-07	1.33YrCanc	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	405170.1	3774849	1.14E-07	1.33YrCanc	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

967	ALL	405220.1	3774849	9.34E-08	1.33YrCanc	9.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	405270.1	3774849	7.78E-08	1.33YrCanc	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	405320.1	3774849	6.58E-08	1.33YrCanc	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	405370.1	3774849	5.63E-08	1.33YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	405420.1	3774849	4.88E-08	1.33YrCanc	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	405470.1	3774849	4.27E-08	1.33YrCanc	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	405520.1	3774849	3.77E-08	1.33YrCanc	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	405570.1	3774849	3.36E-08	1.33YrCanc	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	405620.1	3774849	3.01E-08	1.33YrCanc	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	405670.1	3774849	2.71E-08	1.33YrCanc	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	405720.1	3774849	2.46E-08	1.33YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	405770.1	3774849	2.24E-08	1.33YrCanc	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	405820.1	3774849	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	403870.1	3774899	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	403920.1	3774899	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	403970.1	3774899	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	404020.1	3774899	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	404070.1	3774899	2.80E-08	1.33YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	404120.1	3774899	3.12E-08	1.33YrCanc	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	404170.1	3774899	3.50E-08	1.33YrCanc	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	404220.1	3774899	3.96E-08	1.33YrCanc	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	404270.1	3774899	4.51E-08	1.33YrCanc	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	404320.1	3774899	5.19E-08	1.33YrCanc	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	404370.1	3774899	6.04E-08	1.33YrCanc	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	404420.1	3774899	7.09E-08	1.33YrCanc	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	404470.1	3774899	8.45E-08	1.33YrCanc	8.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	404520.1	3774899	1.02E-07	1.33YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	404570.1	3774899	1.24E-07	1.33YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	404620.1	3774899	1.53E-07	1.33YrCanc	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	404670.1	3774899	1.86E-07	1.33YrCanc	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	404720.1	3774899	2.22E-07	1.33YrCanc	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	404770.1	3774899	2.52E-07	1.33YrCanc	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	404820.1	3774899	2.66E-07	1.33YrCanc	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	404870.1	3774899	2.62E-07	1.33YrCanc	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	404970.1	3774899	2.08E-07	1.33YrCanc	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	405020.1	3774899	1.75E-07	1.33YrCanc	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	405070.1	3774899	1.46E-07	1.33YrCanc	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	405120.1	3774899	1.21E-07	1.33YrCanc	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	405170.1	3774899	1.01E-07	1.33YrCanc	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	405220.1	3774899	8.47E-08	1.33YrCanc	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	405270.1	3774899	7.20E-08	1.33YrCanc	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	405320.1	3774899	6.18E-08	1.33YrCanc	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	405370.1	3774899	5.36E-08	1.33YrCanc	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	405420.1	3774899	4.68E-08	1.33YrCanc	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1011	ALL	405470.1	3774899	4.13E-08	1.33YrCanc	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	405520.1	3774899	3.67E-08	1.33YrCanc	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	405570.1	3774899	3.28E-08	1.33YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	405620.1	3774899	2.95E-08	1.33YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	405670.1	3774899	2.67E-08	1.33YrCanc	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	405720.1	3774899	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	405770.1	3774899	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	405820.1	3774899	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	403870.1	3774949	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	403920.1	3774949	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	403970.1	3774949	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	404020.1	3774949	2.21E-08	1.33YrCanc	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	404070.1	3774949	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	404120.1	3774949	2.99E-08	1.33YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	404170.1	3774949	3.35E-08	1.33YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	404220.1	3774949	3.77E-08	1.33YrCanc	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	404270.1	3774949	4.26E-08	1.33YrCanc	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	404320.1	3774949	4.86E-08	1.33YrCanc	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	404370.1	3774949	5.58E-08	1.33YrCanc	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	404420.1	3774949	6.45E-08	1.33YrCanc	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	404470.1	3774949	7.54E-08	1.33YrCanc	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	404520.1	3774949	8.85E-08	1.33YrCanc	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	404570.1	3774949	1.04E-07	1.33YrCanc	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	404620.1	3774949	1.23E-07	1.33YrCanc	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	404670.1	3774949	1.43E-07	1.33YrCanc	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	404720.1	3774949	1.62E-07	1.33YrCanc	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	404770.1	3774949	1.78E-07	1.33YrCanc	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	404820.1	3774949	1.85E-07	1.33YrCanc	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	404870.1	3774949	1.83E-07	1.33YrCanc	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	404920.1	3774949	1.72E-07	1.33YrCanc	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	404970.1	3774949	1.55E-07	1.33YrCanc	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	405020.1	3774949	1.37E-07	1.33YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	405070.1	3774949	1.18E-07	1.33YrCanc	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	405120.1	3774949	1.02E-07	1.33YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	405170.1	3774949	8.76E-08	1.33YrCanc	8.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	405220.1	3774949	7.56E-08	1.33YrCanc	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	405270.1	3774949	6.55E-08	1.33YrCanc	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	405320.1	3774949	5.71E-08	1.33YrCanc	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	405370.1	3774949	5.02E-08	1.33YrCanc	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	405420.1	3774949	4.43E-08	1.33YrCanc	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	405470.1	3774949	3.94E-08	1.33YrCanc	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	405520.1	3774949	3.53E-08	1.33YrCanc	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	405570.1	3774949	3.17E-08	1.33YrCanc	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	405620.1	3774949	2.87E-08	1.33YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1055	ALL	405670.1	3774949	2.60E-08	1.33YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	405720.1	3774949	2.38E-08	1.33YrCanc	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	405770.1	3774949	2.18E-08	1.33YrCanc	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	405820.1	3774949	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	403870.1	3774999	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	403920.1	3774999	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	403970.1	3774999	1.94E-08	1.33YrCanc	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	404020.1	3774999	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	404070.1	3774999	2.35E-08	1.33YrCanc	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	404120.1	3774999	2.73E-08	1.33YrCanc	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	404170.1	3774999	3.17E-08	1.33YrCanc	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	404220.1	3774999	3.57E-08	1.33YrCanc	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	404270.1	3774999	4.00E-08	1.33YrCanc	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	404320.1	3774999	4.51E-08	1.33YrCanc	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	404370.1	3774999	5.12E-08	1.33YrCanc	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	404420.1	3774999	5.83E-08	1.33YrCanc	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	404470.1	3774999	6.68E-08	1.33YrCanc	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	404520.1	3774999	7.66E-08	1.33YrCanc	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	404570.1	3774999	8.79E-08	1.33YrCanc	8.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	404620.1	3774999	1.00E-07	1.33YrCanc	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	404670.1	3774999	1.13E-07	1.33YrCanc	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	404720.1	3774999	1.24E-07	1.33YrCanc	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	404770.1	3774999	1.33E-07	1.33YrCanc	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	404820.1	3774999	1.37E-07	1.33YrCanc	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	404870.1	3774999	1.36E-07	1.33YrCanc	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	404920.1	3774999	1.30E-07	1.33YrCanc	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	404970.1	3774999	1.20E-07	1.33YrCanc	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	405020.1	3774999	1.09E-07	1.33YrCanc	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	405070.1	3774999	9.71E-08	1.33YrCanc	9.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	405120.1	3774999	8.60E-08	1.33YrCanc	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	405170.1	3774999	7.58E-08	1.33YrCanc	7.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	405220.1	3774999	6.68E-08	1.33YrCanc	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	405270.1	3774999	5.90E-08	1.33YrCanc	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	405320.1	3774999	5.23E-08	1.33YrCanc	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	405370.1	3774999	4.65E-08	1.33YrCanc	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	405420.1	3774999	4.15E-08	1.33YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	405470.1	3774999	3.73E-08	1.33YrCanc	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	405520.1	3774999	3.36E-08	1.33YrCanc	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	405570.1	3774999	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	405620.1	3774999	2.76E-08	1.33YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	405670.1	3774999	2.52E-08	1.33YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	405720.1	3774999	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	405770.1	3774999	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	405820.1	3774999	1.96E-08	1.33YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1099	ALL	403870.1	3775049	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	403920.1	3775049	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	403970.1	3775049	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	404020.1	3775049	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	404070.1	3775049	2.23E-08	1.33YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	404120.1	3775049	2.45E-08	1.33YrCanc	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	404170.1	3775049	2.72E-08	1.33YrCanc	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	404220.1	3775049	3.21E-08	1.33YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	404270.1	3775049	3.72E-08	1.33YrCanc	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	404320.1	3775049	4.17E-08	1.33YrCanc	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	404370.1	3775049	4.67E-08	1.33YrCanc	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	404420.1	3775049	5.25E-08	1.33YrCanc	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	404470.1	3775049	5.91E-08	1.33YrCanc	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	404520.1	3775049	6.65E-08	1.33YrCanc	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	404570.1	3775049	7.45E-08	1.33YrCanc	7.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	404620.1	3775049	8.29E-08	1.33YrCanc	8.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	404670.1	3775049	9.11E-08	1.33YrCanc	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	404720.1	3775049	9.82E-08	1.33YrCanc	9.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	404770.1	3775049	1.03E-07	1.33YrCanc	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	404820.1	3775049	1.06E-07	1.33YrCanc	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	404870.1	3775049	1.05E-07	1.33YrCanc	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	404920.1	3775049	1.02E-07	1.33YrCanc	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	404970.1	3775049	9.57E-08	1.33YrCanc	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	405020.1	3775049	8.85E-08	1.33YrCanc	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	405070.1	3775049	8.08E-08	1.33YrCanc	8.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	405120.1	3775049	7.30E-08	1.33YrCanc	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	405170.1	3775049	6.57E-08	1.33YrCanc	6.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	405220.1	3775049	5.90E-08	1.33YrCanc	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	405270.1	3775049	5.29E-08	1.33YrCanc	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	405320.1	3775049	4.75E-08	1.33YrCanc	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	405370.1	3775049	4.28E-08	1.33YrCanc	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	405420.1	3775049	3.86E-08	1.33YrCanc	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	405470.1	3775049	3.50E-08	1.33YrCanc	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	405520.1	3775049	3.18E-08	1.33YrCanc	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	405570.1	3775049	2.89E-08	1.33YrCanc	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	405620.1	3775049	2.65E-08	1.33YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	405670.1	3775049	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	405720.1	3775049	2.23E-08	1.33YrCanc	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	405770.1	3775049	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	405820.1	3775049	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	403870.1	3775099	1.46E-08	1.33YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	403920.1	3775099	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	403970.1	3775099	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	404020.1	3775099	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1143	ALL	404070.1	3775099	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	404120.1	3775099	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	404170.1	3775099	2.55E-08	1.33YrCanc	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	404220.1	3775099	2.84E-08	1.33YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	404270.1	3775099	3.30E-08	1.33YrCanc	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	404320.1	3775099	3.78E-08	1.33YrCanc	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	404370.1	3775099	4.20E-08	1.33YrCanc	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	404420.1	3775099	4.59E-08	1.33YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	404470.1	3775099	5.03E-08	1.33YrCanc	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	404520.1	3775099	5.79E-08	1.33YrCanc	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	404570.1	3775099	6.38E-08	1.33YrCanc	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	404620.1	3775099	6.96E-08	1.33YrCanc	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	404670.1	3775099	7.51E-08	1.33YrCanc	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	404720.1	3775099	7.98E-08	1.33YrCanc	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	404770.1	3775099	8.32E-08	1.33YrCanc	8.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	404820.1	3775099	8.47E-08	1.33YrCanc	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	404870.1	3775099	8.43E-08	1.33YrCanc	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	404920.1	3775099	8.20E-08	1.33YrCanc	8.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	404970.1	3775099	7.82E-08	1.33YrCanc	7.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	405020.1	3775099	7.34E-08	1.33YrCanc	7.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	405070.1	3775099	6.81E-08	1.33YrCanc	6.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	405120.1	3775099	6.26E-08	1.33YrCanc	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	405170.1	3775099	5.72E-08	1.33YrCanc	5.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	405220.1	3775099	5.21E-08	1.33YrCanc	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	405270.1	3775099	4.74E-08	1.33YrCanc	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	405320.1	3775099	4.31E-08	1.33YrCanc	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	405370.1	3775099	3.92E-08	1.33YrCanc	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	405420.1	3775099	3.57E-08	1.33YrCanc	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	405470.1	3775099	3.26E-08	1.33YrCanc	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	405520.1	3775099	2.99E-08	1.33YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	405570.1	3775099	2.74E-08	1.33YrCanc	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	405620.1	3775099	2.52E-08	1.33YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	405670.1	3775099	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	405720.1	3775099	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	405770.1	3775099	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	405820.1	3775099	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	403870.1	3775149	1.40E-08	1.33YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	403920.1	3775149	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	403970.1	3775149	1.63E-08	1.33YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	404020.1	3775149	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	404070.1	3775149	1.96E-08	1.33YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	404120.1	3775149	2.16E-08	1.33YrCanc	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	404170.1	3775149	2.37E-08	1.33YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	404220.1	3775149	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1187	ALL	404270.1	3775149	2.88E-08	1.33YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	404320.1	3775149	3.20E-08	1.33YrCanc	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	404370.1	3775149	3.52E-08	1.33YrCanc	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	404420.1	3775149	3.87E-08	1.33YrCanc	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	404470.1	3775149	4.16E-08	1.33YrCanc	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	404520.1	3775149	4.79E-08	1.33YrCanc	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	404570.1	3775149	4.93E-08	1.33YrCanc	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	404620.1	3775149	5.63E-08	1.33YrCanc	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	404670.1	3775149	6.26E-08	1.33YrCanc	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	404720.1	3775149	6.63E-08	1.33YrCanc	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	404770.1	3775149	6.86E-08	1.33YrCanc	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	404820.1	3775149	6.96E-08	1.33YrCanc	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	404870.1	3775149	6.93E-08	1.33YrCanc	6.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	404920.1	3775149	6.78E-08	1.33YrCanc	6.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	404970.1	3775149	6.52E-08	1.33YrCanc	6.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	405020.1	3775149	6.19E-08	1.33YrCanc	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	405070.1	3775149	5.82E-08	1.33YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	405120.1	3775149	5.41E-08	1.33YrCanc	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	405170.1	3775149	5.01E-08	1.33YrCanc	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	405220.1	3775149	4.62E-08	1.33YrCanc	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	405270.1	3775149	4.25E-08	1.33YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	405320.1	3775149	3.90E-08	1.33YrCanc	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	405370.1	3775149	3.59E-08	1.33YrCanc	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	405420.1	3775149	3.30E-08	1.33YrCanc	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	405470.1	3775149	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	405520.1	3775149	2.80E-08	1.33YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	405570.1	3775149	2.58E-08	1.33YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	405620.1	3775149	2.39E-08	1.33YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	405670.1	3775149	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	405720.1	3775149	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	405770.1	3775149	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	405820.1	3775149	1.79E-08	1.33YrCanc	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	403870.1	3775199	1.34E-08	1.33YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	403920.1	3775199	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	403970.1	3775199	1.57E-08	1.33YrCanc	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	404020.1	3775199	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	404070.1	3775199	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	404120.1	3775199	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	404170.1	3775199	2.19E-08	1.33YrCanc	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	404220.1	3775199	2.42E-08	1.33YrCanc	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	404270.1	3775199	2.65E-08	1.33YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	404320.1	3775199	2.88E-08	1.33YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	404370.1	3775199	3.13E-08	1.33YrCanc	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	404420.1	3775199	3.37E-08	1.33YrCanc	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1231	ALL	404470.1	3775199	3.66E-08	1.33YrCanc	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	404520.1	3775199	3.97E-08	1.33YrCanc	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	404570.1	3775199	4.25E-08	1.33YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	404620.1	3775199	4.71E-08	1.33YrCanc	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	404670.1	3775199	5.10E-08	1.33YrCanc	5.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	404720.1	3775199	5.53E-08	1.33YrCanc	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	404770.1	3775199	5.77E-08	1.33YrCanc	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	404820.1	3775199	5.83E-08	1.33YrCanc	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	404870.1	3775199	5.82E-08	1.33YrCanc	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	404920.1	3775199	5.71E-08	1.33YrCanc	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	404970.1	3775199	5.53E-08	1.33YrCanc	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	405020.1	3775199	5.30E-08	1.33YrCanc	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	405070.1	3775199	5.02E-08	1.33YrCanc	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	405120.1	3775199	4.72E-08	1.33YrCanc	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	405170.1	3775199	4.41E-08	1.33YrCanc	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	405220.1	3775199	4.11E-08	1.33YrCanc	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	405270.1	3775199	3.82E-08	1.33YrCanc	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	405320.1	3775199	3.54E-08	1.33YrCanc	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	405370.1	3775199	3.28E-08	1.33YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	405420.1	3775199	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	405470.1	3775199	2.82E-08	1.33YrCanc	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	405520.1	3775199	2.61E-08	1.33YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	405570.1	3775199	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	405620.1	3775199	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	405670.1	3775199	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	405720.1	3775199	1.96E-08	1.33YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	405770.1	3775199	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	405820.1	3775199	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	403870.1	3775249	1.27E-08	1.33YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	403920.1	3775249	1.36E-08	1.33YrCanc	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	403970.1	3775249	1.46E-08	1.33YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	404020.1	3775249	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	404070.1	3775249	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	404120.1	3775249	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	404170.1	3775249	2.03E-08	1.33YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	404220.1	3775249	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	404270.1	3775249	2.39E-08	1.33YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	404320.1	3775249	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	404370.1	3775249	2.83E-08	1.33YrCanc	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	404420.1	3775249	2.99E-08	1.33YrCanc	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	404470.1	3775249	3.21E-08	1.33YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	404520.1	3775249	3.47E-08	1.33YrCanc	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	404570.1	3775249	3.69E-08	1.33YrCanc	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	404620.1	3775249	3.94E-08	1.33YrCanc	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1275	ALL	404670.1	3775249	4.29E-08	1.33YrCanc	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	404720.1	3775249	4.64E-08	1.33YrCanc	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	404770.1	3775249	4.87E-08	1.33YrCanc	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	404820.1	3775249	4.98E-08	1.33YrCanc	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	404870.1	3775249	4.96E-08	1.33YrCanc	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	404920.1	3775249	4.89E-08	1.33YrCanc	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	404970.1	3775249	4.76E-08	1.33YrCanc	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	405020.1	3775249	4.59E-08	1.33YrCanc	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	405070.1	3775249	4.38E-08	1.33YrCanc	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	405120.1	3775249	4.15E-08	1.33YrCanc	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	405170.1	3775249	3.91E-08	1.33YrCanc	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	405220.1	3775249	3.68E-08	1.33YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	405270.1	3775249	3.44E-08	1.33YrCanc	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	405320.1	3775249	3.22E-08	1.33YrCanc	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	405370.1	3775249	3.00E-08	1.33YrCanc	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	405420.1	3775249	2.80E-08	1.33YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	405470.1	3775249	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	405520.1	3775249	2.44E-08	1.33YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	405570.1	3775249	2.28E-08	1.33YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	405620.1	3775249	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	405670.1	3775249	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	405720.1	3775249	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	405770.1	3775249	1.75E-08	1.33YrCanc	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	405820.1	3775249	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	403870.1	3775299	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	403920.1	3775299	1.28E-08	1.33YrCanc	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	403970.1	3775299	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	404020.1	3775299	1.47E-08	1.33YrCanc	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	404070.1	3775299	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	404120.1	3775299	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	404170.1	3775299	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	404220.1	3775299	2.06E-08	1.33YrCanc	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	404270.1	3775299	2.20E-08	1.33YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	404320.1	3775299	2.36E-08	1.33YrCanc	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	404370.1	3775299	2.52E-08	1.33YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	404420.1	3775299	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	404470.1	3775299	2.88E-08	1.33YrCanc	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	404520.1	3775299	3.09E-08	1.33YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	404570.1	3775299	3.28E-08	1.33YrCanc	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	404620.1	3775299	3.45E-08	1.33YrCanc	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	404670.1	3775299	3.60E-08	1.33YrCanc	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	404720.1	3775299	3.74E-08	1.33YrCanc	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	404770.1	3775299	4.02E-08	1.33YrCanc	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	404820.1	3775299	4.18E-08	1.33YrCanc	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1319	ALL	404870.1	3775299	4.25E-08	1.33YrCanc	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	404920.1	3775299	4.22E-08	1.33YrCanc	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	404970.1	3775299	4.14E-08	1.33YrCanc	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	405020.1	3775299	4.01E-08	1.33YrCanc	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	405070.1	3775299	3.86E-08	1.33YrCanc	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	405120.1	3775299	3.68E-08	1.33YrCanc	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	405170.1	3775299	3.50E-08	1.33YrCanc	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	405220.1	3775299	3.31E-08	1.33YrCanc	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	405270.1	3775299	3.12E-08	1.33YrCanc	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	405320.1	3775299	2.93E-08	1.33YrCanc	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	405370.1	3775299	2.76E-08	1.33YrCanc	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	405420.1	3775299	2.59E-08	1.33YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	405470.1	3775299	2.43E-08	1.33YrCanc	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	405520.1	3775299	2.28E-08	1.33YrCanc	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	405570.1	3775299	2.14E-08	1.33YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	405620.1	3775299	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	405670.1	3775299	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	405720.1	3775299	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	405770.1	3775299	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	405820.1	3775299	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	403870.1	3775349	1.14E-08	1.33YrCanc	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	403920.1	3775349	1.21E-08	1.33YrCanc	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	403970.1	3775349	1.29E-08	1.33YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	404020.1	3775349	1.40E-08	1.33YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	404070.1	3775349	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	404120.1	3775349	1.64E-08	1.33YrCanc	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	404170.1	3775349	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	404220.1	3775349	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	404270.1	3775349	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	404320.1	3775349	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	404370.1	3775349	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	404420.1	3775349	2.40E-08	1.33YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	404470.1	3775349	2.58E-08	1.33YrCanc	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	404520.1	3775349	2.75E-08	1.33YrCanc	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	404570.1	3775349	2.90E-08	1.33YrCanc	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	404620.1	3775349	3.04E-08	1.33YrCanc	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	404670.1	3775349	3.16E-08	1.33YrCanc	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	404720.1	3775349	3.24E-08	1.33YrCanc	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	404770.1	3775349	3.32E-08	1.33YrCanc	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	404820.1	3775349	3.37E-08	1.33YrCanc	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	404870.1	3775349	3.35E-08	1.33YrCanc	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	404920.1	3775349	3.51E-08	1.33YrCanc	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	404970.1	3775349	3.41E-08	1.33YrCanc	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	405020.1	3775349	3.21E-08	1.33YrCanc	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1363	ALL	405070.1	3775349	3.32E-08	1.33YrCanc	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	405120.1	3775349	3.09E-08	1.33YrCanc	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	405170.1	3775349	2.95E-08	1.33YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	405220.1	3775349	2.84E-08	1.33YrCanc	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	405270.1	3775349	2.81E-08	1.33YrCanc	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	405320.1	3775349	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	405370.1	3775349	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	405420.1	3775349	2.39E-08	1.33YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	405470.1	3775349	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	405520.1	3775349	2.13E-08	1.33YrCanc	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	405570.1	3775349	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	405620.1	3775349	1.89E-08	1.33YrCanc	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	405670.1	3775349	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	405720.1	3775349	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	405770.1	3775349	1.59E-08	1.33YrCanc	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	405820.1	3775349	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	403870.1	3775399	1.08E-08	1.33YrCanc	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	403920.1	3775399	1.15E-08	1.33YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	403970.1	3775399	1.22E-08	1.33YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	404020.1	3775399	1.32E-08	1.33YrCanc	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	404070.1	3775399	1.41E-08	1.33YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	404120.1	3775399	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	404170.1	3775399	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	404220.1	3775399	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	404270.1	3775399	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	404320.1	3775399	1.92E-08	1.33YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	404370.1	3775399	2.14E-08	1.33YrCanc	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	404420.1	3775399	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	404470.1	3775399	2.37E-08	1.33YrCanc	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	404520.1	3775399	2.47E-08	1.33YrCanc	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	404570.1	3775399	2.56E-08	1.33YrCanc	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	404620.1	3775399	2.68E-08	1.33YrCanc	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	404670.1	3775399	2.79E-08	1.33YrCanc	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	404720.1	3775399	2.87E-08	1.33YrCanc	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	404770.1	3775399	2.91E-08	1.33YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	404820.1	3775399	2.92E-08	1.33YrCanc	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	404870.1	3775399	2.95E-08	1.33YrCanc	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	404920.1	3775399	2.94E-08	1.33YrCanc	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	404970.1	3775399	2.91E-08	1.33YrCanc	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	405020.1	3775399	2.85E-08	1.33YrCanc	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	405070.1	3775399	2.80E-08	1.33YrCanc	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	405120.1	3775399	2.69E-08	1.33YrCanc	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	405170.1	3775399	2.65E-08	1.33YrCanc	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	405220.1	3775399	2.59E-08	1.33YrCanc	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1407	ALL	405270.1	3775399	2.52E-08	1.33YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	405320.1	3775399	2.44E-08	1.33YrCanc	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	405370.1	3775399	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	405420.1	3775399	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	405470.1	3775399	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	405520.1	3775399	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	405570.1	3775399	1.88E-08	1.33YrCanc	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	405620.1	3775399	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	405670.1	3775399	1.69E-08	1.33YrCanc	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	405720.1	3775399	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	405770.1	3775399	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	405820.1	3775399	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	403870.1	3775449	1.02E-08	1.33YrCanc	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	403920.1	3775449	1.09E-08	1.33YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	403970.1	3775449	1.16E-08	1.33YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	404020.1	3775449	1.24E-08	1.33YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	404070.1	3775449	1.33E-08	1.33YrCanc	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	404120.1	3775449	1.41E-08	1.33YrCanc	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	404170.1	3775449	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	404220.1	3775449	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	404270.1	3775449	1.66E-08	1.33YrCanc	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	404320.1	3775449	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	404370.1	3775449	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	404420.1	3775449	1.98E-08	1.33YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	404470.1	3775449	2.10E-08	1.33YrCanc	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	404520.1	3775449	2.20E-08	1.33YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	404570.1	3775449	2.29E-08	1.33YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	404620.1	3775449	2.39E-08	1.33YrCanc	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	404670.1	3775449	2.48E-08	1.33YrCanc	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	404720.1	3775449	2.53E-08	1.33YrCanc	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	404770.1	3775449	2.57E-08	1.33YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	404820.1	3775449	2.60E-08	1.33YrCanc	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	404870.1	3775449	2.62E-08	1.33YrCanc	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	404920.1	3775449	2.61E-08	1.33YrCanc	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	404970.1	3775449	2.57E-08	1.33YrCanc	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	405020.1	3775449	2.52E-08	1.33YrCanc	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	405070.1	3775449	2.46E-08	1.33YrCanc	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	405120.1	3775449	2.40E-08	1.33YrCanc	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	405170.1	3775449	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	405220.1	3775449	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	405270.1	3775449	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	405320.1	3775449	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	405370.1	3775449	2.07E-08	1.33YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	405420.1	3775449	1.96E-08	1.33YrCanc	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1451	ALL	405470.1	3775449	1.90E-08	1.33YrCanc	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	405520.1	3775449	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	405570.1	3775449	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	405620.1	3775449	1.68E-08	1.33YrCanc	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	405670.1	3775449	1.60E-08	1.33YrCanc	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	405720.1	3775449	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	405770.1	3775449	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	405820.1	3775449	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	403870.1	3775499	9.69E-09	1.33YrCanc	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	403920.1	3775499	1.03E-08	1.33YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	403970.1	3775499	1.10E-08	1.33YrCanc	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	404020.1	3775499	1.17E-08	1.33YrCanc	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	404070.1	3775499	1.24E-08	1.33YrCanc	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	404120.1	3775499	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	404170.1	3775499	1.39E-08	1.33YrCanc	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	404220.1	3775499	1.46E-08	1.33YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	404270.1	3775499	1.52E-08	1.33YrCanc	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	404320.1	3775499	1.63E-08	1.33YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	404370.1	3775499	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	404420.1	3775499	1.81E-08	1.33YrCanc	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	404470.1	3775499	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	404520.1	3775499	2.00E-08	1.33YrCanc	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	404570.1	3775499	2.08E-08	1.33YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	404620.1	3775499	2.15E-08	1.33YrCanc	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	404670.1	3775499	2.20E-08	1.33YrCanc	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	404720.1	3775499	2.25E-08	1.33YrCanc	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	404770.1	3775499	2.29E-08	1.33YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	404820.1	3775499	2.31E-08	1.33YrCanc	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	404870.1	3775499	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	404920.1	3775499	2.32E-08	1.33YrCanc	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	404970.1	3775499	2.29E-08	1.33YrCanc	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	405020.1	3775499	2.26E-08	1.33YrCanc	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	405070.1	3775499	2.22E-08	1.33YrCanc	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	405120.1	3775499	2.17E-08	1.33YrCanc	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	405170.1	3775499	2.11E-08	1.33YrCanc	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	405220.1	3775499	2.05E-08	1.33YrCanc	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	405270.1	3775499	1.98E-08	1.33YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	405320.1	3775499	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	405370.1	3775499	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	405420.1	3775499	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	405470.1	3775499	1.72E-08	1.33YrCanc	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	405520.1	3775499	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	405570.1	3775499	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	405620.1	3775499	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1495	ALL	405670.1	3775499	1.51E-08	1.33YrCanc	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	405720.1	3775499	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	405770.1	3775499	1.37E-08	1.33YrCanc	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	405820.1	3775499	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	403870.1	3775549	9.26E-09	1.33YrCanc	9.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	403920.1	3775549	9.90E-09	1.33YrCanc	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	403970.1	3775549	1.05E-08	1.33YrCanc	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	404020.1	3775549	1.11E-08	1.33YrCanc	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	404070.1	3775549	1.16E-08	1.33YrCanc	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	404120.1	3775549	1.22E-08	1.33YrCanc	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	404170.1	3775549	1.29E-08	1.33YrCanc	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	404220.1	3775549	1.35E-08	1.33YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	404270.1	3775549	1.42E-08	1.33YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	404320.1	3775549	1.49E-08	1.33YrCanc	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	404370.1	3775549	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	404420.1	3775549	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	404470.1	3775549	1.71E-08	1.33YrCanc	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	404520.1	3775549	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	404570.1	3775549	1.85E-08	1.33YrCanc	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	404620.1	3775549	1.92E-08	1.33YrCanc	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	404670.1	3775549	1.98E-08	1.33YrCanc	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	404720.1	3775549	2.01E-08	1.33YrCanc	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	404770.1	3775549	2.02E-08	1.33YrCanc	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	404820.1	3775549	2.08E-08	1.33YrCanc	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	404870.1	3775549	2.07E-08	1.33YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	404920.1	3775549	2.07E-08	1.33YrCanc	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	404970.1	3775549	2.04E-08	1.33YrCanc	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	405020.1	3775549	2.03E-08	1.33YrCanc	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	405070.1	3775549	1.99E-08	1.33YrCanc	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	405120.1	3775549	1.95E-08	1.33YrCanc	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	405170.1	3775549	1.91E-08	1.33YrCanc	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	405220.1	3775549	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	405270.1	3775549	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	405320.1	3775549	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	405370.1	3775549	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	405420.1	3775549	1.63E-08	1.33YrCanc	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	405470.1	3775549	1.58E-08	1.33YrCanc	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	405520.1	3775549	1.53E-08	1.33YrCanc	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	405570.1	3775549	1.48E-08	1.33YrCanc	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	405620.1	3775549	1.44E-08	1.33YrCanc	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	405670.1	3775549	1.40E-08	1.33YrCanc	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	405720.1	3775549	1.35E-08	1.33YrCanc	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	405770.1	3775549	1.30E-08	1.33YrCanc	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	405820.1	3775549	1.25E-08	1.33YrCanc	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1539	ALL	403870.1	3775599	8.62E-09	1.33YrCanc	8.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	403920.1	3775599	9.19E-09	1.33YrCanc	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	403970.1	3775599	9.79E-09	1.33YrCanc	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	404020.1	3775599	1.03E-08	1.33YrCanc	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	404070.1	3775599	1.09E-08	1.33YrCanc	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	404120.1	3775599	1.15E-08	1.33YrCanc	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	404170.1	3775599	1.20E-08	1.33YrCanc	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	404220.1	3775599	1.26E-08	1.33YrCanc	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	404270.1	3775599	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	404320.1	3775599	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	404370.1	3775599	1.45E-08	1.33YrCanc	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	404420.1	3775599	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	404470.1	3775599	1.56E-08	1.33YrCanc	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	404520.1	3775599	1.62E-08	1.33YrCanc	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	404570.1	3775599	1.67E-08	1.33YrCanc	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	404620.1	3775599	1.74E-08	1.33YrCanc	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	404670.1	3775599	1.76E-08	1.33YrCanc	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	404720.1	3775599	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	404770.1	3775599	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	404820.1	3775599	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	404870.1	3775599	1.86E-08	1.33YrCanc	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	404920.1	3775599	1.87E-08	1.33YrCanc	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	404970.1	3775599	1.83E-08	1.33YrCanc	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	405020.1	3775599	1.82E-08	1.33YrCanc	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	405070.1	3775599	1.78E-08	1.33YrCanc	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	405120.1	3775599	1.77E-08	1.33YrCanc	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	405170.1	3775599	1.73E-08	1.33YrCanc	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	405220.1	3775599	1.70E-08	1.33YrCanc	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	405270.1	3775599	1.65E-08	1.33YrCanc	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	405320.1	3775599	1.61E-08	1.33YrCanc	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	405370.1	3775599	1.55E-08	1.33YrCanc	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	405420.1	3775599	1.50E-08	1.33YrCanc	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	405470.1	3775599	1.46E-08	1.33YrCanc	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	405520.1	3775599	1.42E-08	1.33YrCanc	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	405570.1	3775599	1.38E-08	1.33YrCanc	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	405620.1	3775599	1.34E-08	1.33YrCanc	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	405670.1	3775599	1.31E-08	1.33YrCanc	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	405720.1	3775599	1.27E-08	1.33YrCanc	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	405770.1	3775599	1.23E-08	1.33YrCanc	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	405820.1	3775599	1.18E-08	1.33YrCanc	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2.10E-06

2.10E+00

HARP2 - HRACalc (dated 21081) 7/2/2021 4:55:23 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstChronic4tiNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstChronic4tiNCChronicRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v21081 7/2/2021 4:55:23 PM - Chronic Risk - Input File: C:\Users\dlarocca\Desktop\Air Quality Work\HARP2\southsanta\SOUTHSANTA\hra\ConstChronic4tiHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		403870.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06
2	ALL		403920.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06
3	ALL		403970.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
4	ALL		404020.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
5	ALL		404070.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
6	ALL		404120.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
7	ALL		404170.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
8	ALL		404220.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
9	ALL		404270.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
10	ALL		404320.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
11	ALL		404370.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
12	ALL		404420.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
13	ALL		404470.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
14	ALL		404520.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
15	ALL		404570.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
16	ALL		404620.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
17	ALL		404670.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
18	ALL		404720.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
19	ALL		404770.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
20	ALL		404820.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
21	ALL		404870.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
22	ALL		404920.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
23	ALL		404970.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
24	ALL		405020.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
25	ALL		405070.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
26	ALL		405120.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
27	ALL		405170.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
28	ALL		405220.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
29	ALL		405270.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
30	ALL		405320.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
31	ALL		405370.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
32	ALL		405420.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
33	ALL		405470.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
34	ALL		405520.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
35	ALL		405570.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
36	ALL		405620.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
37	ALL		405670.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06
38	ALL		405720.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-06
39	ALL		405770.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06
40	ALL		405820.1	3773649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06
41	ALL		403870.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06
42	ALL		403920.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06
43	ALL		403970.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
44	ALL		404020.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
45	ALL		404070.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
46	ALL		404120.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
47	ALL		404170.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
48	ALL		404220.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05

49	ALL	404270.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
50	ALL	404320.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
51	ALL	404370.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
52	ALL	404420.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
53	ALL	404470.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
54	ALL	404520.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
55	ALL	404570.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
56	ALL	404620.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
57	ALL	404670.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
58	ALL	404720.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
59	ALL	404770.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
60	ALL	404820.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
61	ALL	404870.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
62	ALL	404920.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
63	ALL	404970.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
64	ALL	405020.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
65	ALL	405070.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
66	ALL	405120.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
67	ALL	405170.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
68	ALL	405220.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
69	ALL	405270.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
70	ALL	405320.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
71	ALL	405370.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
72	ALL	405420.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
73	ALL	405470.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
74	ALL	405520.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
75	ALL	405570.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
76	ALL	405620.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
77	ALL	405670.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
78	ALL	405720.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06
79	ALL	405770.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-06
80	ALL	405820.1	3773699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06
81	ALL	403870.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06
82	ALL	403920.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
83	ALL	403970.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
84	ALL	404020.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
85	ALL	404070.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
86	ALL	404120.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
87	ALL	404170.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
88	ALL	404220.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
89	ALL	404270.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
90	ALL	404320.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
91	ALL	404370.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
92	ALL	404420.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
93	ALL	404470.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
94	ALL	404520.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
95	ALL	404570.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
96	ALL	404620.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
97	ALL	404670.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
98	ALL	404720.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05

99	ALL	404770.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
100	ALL	404820.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
101	ALL	404870.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
102	ALL	404920.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
103	ALL	404970.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
104	ALL	405020.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
105	ALL	405070.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
106	ALL	405120.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
107	ALL	405170.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
108	ALL	405220.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
109	ALL	405270.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
110	ALL	405320.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
111	ALL	405370.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
112	ALL	405420.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
113	ALL	405470.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
114	ALL	405520.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
115	ALL	405570.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
116	ALL	405620.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
117	ALL	405670.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
118	ALL	405720.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
119	ALL	405770.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
120	ALL	405820.1	3773749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06
121	ALL	403870.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
122	ALL	403920.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
123	ALL	403970.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
124	ALL	404020.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
125	ALL	404070.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
126	ALL	404120.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
127	ALL	404170.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
128	ALL	404220.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
129	ALL	404270.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
130	ALL	404320.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
131	ALL	404370.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
132	ALL	404420.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
133	ALL	404470.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
134	ALL	404520.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
135	ALL	404570.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
136	ALL	404620.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
137	ALL	404670.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
138	ALL	404720.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
139	ALL	404770.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
140	ALL	404820.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
141	ALL	404870.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
142	ALL	404920.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
143	ALL	404970.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
144	ALL	405020.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
145	ALL	405070.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
146	ALL	405120.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
147	ALL	405170.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
148	ALL	405220.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05

149	ALL	405270.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
150	ALL	405320.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
151	ALL	405370.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
152	ALL	405420.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
153	ALL	405470.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
154	ALL	405520.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
155	ALL	405570.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
156	ALL	405620.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
157	ALL	405670.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
158	ALL	405720.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
159	ALL	405770.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
160	ALL	405820.1	3773799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
161	ALL	403870.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
162	ALL	403920.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
163	ALL	403970.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
164	ALL	404020.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
165	ALL	404070.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
166	ALL	404120.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
167	ALL	404170.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
168	ALL	404220.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
169	ALL	404270.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
170	ALL	404320.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
171	ALL	404370.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
172	ALL	404420.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
173	ALL	404470.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
174	ALL	404520.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
175	ALL	404570.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
176	ALL	404620.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
177	ALL	404670.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
178	ALL	404720.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
179	ALL	404770.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
180	ALL	404820.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
181	ALL	404870.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
182	ALL	404920.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
183	ALL	404970.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
184	ALL	405020.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
185	ALL	405070.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
186	ALL	405120.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
187	ALL	405170.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
188	ALL	405220.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
189	ALL	405270.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
190	ALL	405320.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
191	ALL	405370.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
192	ALL	405420.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
193	ALL	405470.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
194	ALL	405520.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
195	ALL	405570.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
196	ALL	405620.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
197	ALL	405670.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
198	ALL	405720.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05

199	ALL	405770.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
200	ALL	405820.1	3773849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
201	ALL	403870.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
202	ALL	403920.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
203	ALL	403970.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
204	ALL	404020.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
205	ALL	404070.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
206	ALL	404120.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
207	ALL	404170.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
208	ALL	404220.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
209	ALL	404270.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
210	ALL	404320.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
211	ALL	404370.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
212	ALL	404420.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
213	ALL	404470.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
214	ALL	404520.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
215	ALL	404570.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
216	ALL	404620.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
217	ALL	404670.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
218	ALL	404720.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
219	ALL	404770.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
220	ALL	404820.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
221	ALL	404870.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
222	ALL	404920.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
223	ALL	404970.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
224	ALL	405020.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
225	ALL	405070.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
226	ALL	405120.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
227	ALL	405170.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
228	ALL	405220.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
229	ALL	405270.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
230	ALL	405320.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
231	ALL	405370.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
232	ALL	405420.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
233	ALL	405470.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
234	ALL	405520.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
235	ALL	405570.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
236	ALL	405620.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
237	ALL	405670.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
238	ALL	405720.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
239	ALL	405770.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
240	ALL	405820.1	3773899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
241	ALL	403870.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
242	ALL	403920.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
243	ALL	403970.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
244	ALL	404020.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
245	ALL	404070.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
246	ALL	404120.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
247	ALL	404170.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
248	ALL	404220.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05

249	ALL	404270.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
250	ALL	404320.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
251	ALL	404370.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
252	ALL	404420.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
253	ALL	404470.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
254	ALL	404520.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
255	ALL	404570.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
256	ALL	404620.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
257	ALL	404670.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
258	ALL	404720.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
259	ALL	404770.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
260	ALL	404820.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
261	ALL	404870.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
262	ALL	404920.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
263	ALL	404970.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
264	ALL	405020.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
265	ALL	405070.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
266	ALL	405120.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
267	ALL	405170.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
268	ALL	405220.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
269	ALL	405270.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
270	ALL	405320.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
271	ALL	405370.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
272	ALL	405420.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
273	ALL	405470.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
274	ALL	405520.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
275	ALL	405570.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
276	ALL	405620.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
277	ALL	405670.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
278	ALL	405720.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
279	ALL	405770.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
280	ALL	405820.1	3773949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
281	ALL	403870.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
282	ALL	403920.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
283	ALL	403970.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
284	ALL	404020.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
285	ALL	404070.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
286	ALL	404120.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
287	ALL	404170.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
288	ALL	404220.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
289	ALL	404270.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
290	ALL	404320.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
291	ALL	404370.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
292	ALL	404420.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
293	ALL	404470.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
294	ALL	404520.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
295	ALL	404570.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
296	ALL	404620.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
297	ALL	404670.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
298	ALL	404720.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05

299	ALL	404770.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
300	ALL	404820.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
301	ALL	404870.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
302	ALL	404920.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
303	ALL	404970.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
304	ALL	405020.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
305	ALL	405070.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
306	ALL	405120.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
307	ALL	405170.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
308	ALL	405220.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
309	ALL	405270.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
310	ALL	405320.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
311	ALL	405370.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
312	ALL	405420.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
313	ALL	405470.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
314	ALL	405520.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
315	ALL	405570.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
316	ALL	405620.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
317	ALL	405670.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
318	ALL	405720.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
319	ALL	405770.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
320	ALL	405820.1	3773999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
321	ALL	403870.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
322	ALL	403920.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
323	ALL	403970.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
324	ALL	404020.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
325	ALL	404070.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
326	ALL	404120.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
327	ALL	404170.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
328	ALL	404220.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
329	ALL	404270.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
330	ALL	404320.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
331	ALL	404370.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
332	ALL	404420.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
333	ALL	404470.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
334	ALL	404520.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
335	ALL	404570.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
336	ALL	404620.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
337	ALL	404670.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
338	ALL	404720.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
339	ALL	404770.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
340	ALL	404820.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
341	ALL	404870.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
342	ALL	404920.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
343	ALL	404970.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
344	ALL	405020.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
345	ALL	405070.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
346	ALL	405120.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
347	ALL	405170.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
348	ALL	405220.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05

349	ALL	405270.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
350	ALL	405320.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
351	ALL	405370.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
352	ALL	405420.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
353	ALL	405470.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
354	ALL	405520.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
355	ALL	405570.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
356	ALL	405620.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
357	ALL	405670.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
358	ALL	405720.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
359	ALL	405770.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
360	ALL	405820.1	3774049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
361	ALL	403870.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
362	ALL	403920.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
363	ALL	403970.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
364	ALL	404020.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
365	ALL	404070.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
366	ALL	404120.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
367	ALL	404170.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
368	ALL	404220.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
369	ALL	404270.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
370	ALL	404320.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
371	ALL	404370.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
372	ALL	404420.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
373	ALL	404470.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
374	ALL	404520.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
375	ALL	404570.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
376	ALL	404620.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
377	ALL	404670.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
378	ALL	404720.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
379	ALL	404770.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
380	ALL	404820.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
381	ALL	404870.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
382	ALL	404920.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
383	ALL	404970.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
384	ALL	405020.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
385	ALL	405070.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
386	ALL	405120.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
387	ALL	405170.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
388	ALL	405220.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
389	ALL	405270.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
390	ALL	405320.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
391	ALL	405370.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
392	ALL	405420.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
393	ALL	405470.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
394	ALL	405520.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
395	ALL	405570.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
396	ALL	405620.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
397	ALL	405670.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
398	ALL	405720.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05

399	ALL	405770.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
400	ALL	405820.1	3774099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
401	ALL	403870.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
402	ALL	403920.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
403	ALL	403970.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
404	ALL	404020.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
405	ALL	404070.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
406	ALL	404120.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
407	ALL	404170.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
408	ALL	404220.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
409	ALL	404270.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
410	ALL	404320.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
411	ALL	404370.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
412	ALL	404420.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
413	ALL	404470.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
414	ALL	404520.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
415	ALL	404570.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
416	ALL	404620.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
417	ALL	404670.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
418	ALL	404720.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
419	ALL	404770.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
420	ALL	404820.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
421	ALL	404870.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
422	ALL	404920.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
423	ALL	404970.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
424	ALL	405020.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
425	ALL	405070.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
426	ALL	405120.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
427	ALL	405170.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
428	ALL	405220.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
429	ALL	405270.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
430	ALL	405320.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
431	ALL	405370.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
432	ALL	405420.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
433	ALL	405470.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
434	ALL	405520.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
435	ALL	405570.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
436	ALL	405620.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
437	ALL	405670.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
438	ALL	405720.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
439	ALL	405770.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
440	ALL	405820.1	3774149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
441	ALL	403870.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
442	ALL	403920.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
443	ALL	403970.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
444	ALL	404020.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
445	ALL	404070.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
446	ALL	404120.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
447	ALL	404170.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
448	ALL	404220.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05

449	ALL	404270.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
450	ALL	404320.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
451	ALL	404370.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
452	ALL	404420.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
453	ALL	404470.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
454	ALL	404520.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
455	ALL	404570.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
456	ALL	404620.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
457	ALL	404670.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
458	ALL	404720.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
459	ALL	404770.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
460	ALL	404820.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
461	ALL	404870.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
462	ALL	404920.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05
463	ALL	404970.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
464	ALL	405020.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
465	ALL	405070.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
466	ALL	405120.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
467	ALL	405170.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
468	ALL	405220.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
469	ALL	405270.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
470	ALL	405320.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
471	ALL	405370.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
472	ALL	405420.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
473	ALL	405470.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
474	ALL	405520.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
475	ALL	405570.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
476	ALL	405620.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
477	ALL	405670.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
478	ALL	405720.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
479	ALL	405770.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
480	ALL	405820.1	3774199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
481	ALL	403870.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
482	ALL	403920.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
483	ALL	403970.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
484	ALL	404020.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
485	ALL	404070.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
486	ALL	404120.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
487	ALL	404170.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
488	ALL	404220.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
489	ALL	404270.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
490	ALL	404320.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
491	ALL	404370.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
492	ALL	404420.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
493	ALL	404470.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
494	ALL	404520.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
495	ALL	404570.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
496	ALL	404620.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
497	ALL	404670.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
498	ALL	404720.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05

499	ALL	404770.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
500	ALL	404820.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
501	ALL	404870.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
502	ALL	404920.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
503	ALL	404970.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
504	ALL	405020.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
505	ALL	405070.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
506	ALL	405120.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
507	ALL	405170.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
508	ALL	405220.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
509	ALL	405270.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
510	ALL	405320.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
511	ALL	405370.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
512	ALL	405420.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
513	ALL	405470.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
514	ALL	405520.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
515	ALL	405570.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
516	ALL	405620.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
517	ALL	405670.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
518	ALL	405720.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
519	ALL	405770.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
520	ALL	405820.1	3774249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
521	ALL	403870.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
522	ALL	403920.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
523	ALL	403970.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
524	ALL	404020.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
525	ALL	404070.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
526	ALL	404120.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
527	ALL	404170.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
528	ALL	404220.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
529	ALL	404270.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
530	ALL	404320.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
531	ALL	404370.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
532	ALL	404420.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
533	ALL	404470.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
534	ALL	404520.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
535	ALL	404570.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
536	ALL	404620.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05
537	ALL	404670.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
538	ALL	404720.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
539	ALL	404770.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
540	ALL	404820.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
541	ALL	404870.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
542	ALL	404920.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
543	ALL	404970.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
544	ALL	405020.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
545	ALL	405070.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
546	ALL	405120.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
547	ALL	405170.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
548	ALL	405220.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05

549	ALL	405270.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
550	ALL	405320.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
551	ALL	405370.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
552	ALL	405420.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
553	ALL	405470.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
554	ALL	405520.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
555	ALL	405570.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
556	ALL	405620.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
557	ALL	405670.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
558	ALL	405720.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
559	ALL	405770.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
560	ALL	405820.1	3774299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
561	ALL	403870.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
562	ALL	403920.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
563	ALL	403970.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
564	ALL	404020.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
565	ALL	404070.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
566	ALL	404120.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
567	ALL	404170.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
568	ALL	404220.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
569	ALL	404270.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
570	ALL	404320.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
571	ALL	404370.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
572	ALL	404420.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
573	ALL	404470.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
574	ALL	404520.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
575	ALL	404570.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
576	ALL	404620.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
577	ALL	404670.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-05
578	ALL	404720.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
579	ALL	404770.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
580	ALL	404820.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05
581	ALL	404870.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-05
582	ALL	404920.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-05
583	ALL	404970.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
584	ALL	405020.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
585	ALL	405070.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05
586	ALL	405120.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
587	ALL	405170.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
588	ALL	405220.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05
589	ALL	405270.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
590	ALL	405320.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
591	ALL	405370.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
592	ALL	405420.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
593	ALL	405470.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
594	ALL	405520.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
595	ALL	405570.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
596	ALL	405620.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
597	ALL	405670.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
598	ALL	405720.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05

599	ALL	405770.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
600	ALL	405820.1	3774349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
601	ALL	403870.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
602	ALL	403920.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
603	ALL	403970.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
604	ALL	404020.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
605	ALL	404070.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
606	ALL	404120.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
607	ALL	404170.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
608	ALL	404220.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
609	ALL	404270.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
610	ALL	404320.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
611	ALL	404370.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
612	ALL	404420.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
613	ALL	404470.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
614	ALL	404520.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-05
615	ALL	404570.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
616	ALL	404620.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-05
617	ALL	404670.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
618	ALL	404720.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
619	ALL	404770.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
620	ALL	404820.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
621	ALL	404870.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
622	ALL	404920.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
623	ALL	404970.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
624	ALL	405020.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
625	ALL	405070.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
626	ALL	405120.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
627	ALL	405170.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
628	ALL	405220.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
629	ALL	405270.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
630	ALL	405320.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
631	ALL	405370.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
632	ALL	405420.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
633	ALL	405470.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
634	ALL	405520.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
635	ALL	405570.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
636	ALL	405620.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
637	ALL	405670.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
638	ALL	405720.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
639	ALL	405770.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
640	ALL	405820.1	3774399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
641	ALL	403870.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
642	ALL	403920.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
643	ALL	403970.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
644	ALL	404020.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
645	ALL	404070.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
646	ALL	404120.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
647	ALL	404170.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
648	ALL	404220.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05

649	ALL	404270.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
650	ALL	404320.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
651	ALL	404370.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
652	ALL	404420.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
653	ALL	404470.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05
654	ALL	404520.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-05
655	ALL	404570.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
656	ALL	404620.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
657	ALL	404670.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
658	ALL	404720.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
659	ALL	404770.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
660	ALL	404820.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
661	ALL	404870.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
662	ALL	404920.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
663	ALL	404970.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
664	ALL	405020.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
665	ALL	405070.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
666	ALL	405120.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
667	ALL	405170.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
668	ALL	405220.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
669	ALL	405270.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
670	ALL	405320.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
671	ALL	405370.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
672	ALL	405420.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
673	ALL	405470.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
674	ALL	405520.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
675	ALL	405570.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
676	ALL	405620.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
677	ALL	405670.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
678	ALL	405720.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
679	ALL	405770.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
680	ALL	405820.1	3774449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
681	ALL	403870.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
682	ALL	403920.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
683	ALL	403970.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
684	ALL	404020.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
685	ALL	404070.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
686	ALL	404120.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
687	ALL	404170.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
688	ALL	404220.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
689	ALL	404270.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
690	ALL	404320.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
691	ALL	404370.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
692	ALL	404420.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
693	ALL	404470.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
694	ALL	404520.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
695	ALL	404570.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
696	ALL	404620.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
697	ALL	404670.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
698	ALL	404720.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04

699	ALL	404770.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
700	ALL	404820.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
701	ALL	404870.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
702	ALL	404920.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
703	ALL	404970.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
704	ALL	405020.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
705	ALL	405070.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
706	ALL	405120.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
707	ALL	405170.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
708	ALL	405220.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
709	ALL	405270.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
710	ALL	405320.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
711	ALL	405370.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
712	ALL	405420.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
713	ALL	405470.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
714	ALL	405520.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
715	ALL	405570.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
716	ALL	405620.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
717	ALL	405670.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
718	ALL	405720.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
719	ALL	405770.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
720	ALL	405820.1	3774499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
721	ALL	403870.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
722	ALL	403920.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
723	ALL	403970.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
724	ALL	404020.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
725	ALL	404070.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
726	ALL	404120.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
727	ALL	404170.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
728	ALL	404220.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
729	ALL	404270.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
730	ALL	404320.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
731	ALL	404370.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
732	ALL	404420.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
733	ALL	404470.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
734	ALL	404520.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
735	ALL	404570.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
736	ALL	404620.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
737	ALL	404670.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
738	ALL	404720.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
739	ALL	404970.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
740	ALL	405020.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
741	ALL	405070.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
742	ALL	405120.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
743	ALL	405170.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05
744	ALL	405220.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05
745	ALL	405270.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
746	ALL	405320.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
747	ALL	405370.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
748	ALL	405420.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05

749	ALL	405470.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
750	ALL	405520.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
751	ALL	405570.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
752	ALL	405620.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
753	ALL	405670.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
754	ALL	405720.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
755	ALL	405770.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
756	ALL	405820.1	3774549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
757	ALL	403870.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
758	ALL	403920.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
759	ALL	403970.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
760	ALL	404020.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
761	ALL	404070.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
762	ALL	404120.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
763	ALL	404170.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
764	ALL	404220.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
765	ALL	404270.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
766	ALL	404320.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
767	ALL	404370.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
768	ALL	404420.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-05
769	ALL	404470.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
770	ALL	404520.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
771	ALL	404570.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
772	ALL	404620.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
773	ALL	404670.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
774	ALL	404970.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
775	ALL	405020.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
776	ALL	405070.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
777	ALL	405120.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
778	ALL	405170.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
779	ALL	405220.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
780	ALL	405270.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
781	ALL	405320.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
782	ALL	405370.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
783	ALL	405420.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
784	ALL	405470.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
785	ALL	405520.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
786	ALL	405570.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
787	ALL	405620.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
788	ALL	405670.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
789	ALL	405720.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
790	ALL	405770.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
791	ALL	405820.1	3774599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
792	ALL	403870.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
793	ALL	403920.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
794	ALL	403970.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
795	ALL	404020.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
796	ALL	404070.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
797	ALL	404120.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
798	ALL	404170.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05

799	ALL	404220.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
800	ALL	404270.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
801	ALL	404320.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
802	ALL	404370.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
803	ALL	404420.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
804	ALL	404470.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
805	ALL	404520.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
806	ALL	404570.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
807	ALL	404620.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
808	ALL	404670.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04
809	ALL	404970.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
810	ALL	405020.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
811	ALL	405070.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
812	ALL	405120.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
813	ALL	405170.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
814	ALL	405220.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
815	ALL	405270.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
816	ALL	405320.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
817	ALL	405370.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
818	ALL	405420.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
819	ALL	405470.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
820	ALL	405520.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
821	ALL	405570.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
822	ALL	405620.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
823	ALL	405670.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
824	ALL	405720.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
825	ALL	405770.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
826	ALL	405820.1	3774649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
827	ALL	403870.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
828	ALL	403920.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
829	ALL	403970.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
830	ALL	404020.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
831	ALL	404070.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
832	ALL	404120.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
833	ALL	404170.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
834	ALL	404220.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
835	ALL	404270.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
836	ALL	404320.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
837	ALL	404370.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05
838	ALL	404420.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
839	ALL	404470.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
840	ALL	404520.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
841	ALL	404570.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
842	ALL	404620.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
843	ALL	404670.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
844	ALL	404720.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
845	ALL	404970.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-04
846	ALL	405020.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
847	ALL	405070.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
848	ALL	405120.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04

849	ALL	405170.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
850	ALL	405220.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
851	ALL	405270.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
852	ALL	405320.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
853	ALL	405370.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
854	ALL	405420.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
855	ALL	405470.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
856	ALL	405520.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
857	ALL	405570.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
858	ALL	405620.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
859	ALL	405670.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
860	ALL	405720.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
861	ALL	405770.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
862	ALL	405820.1	3774699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
863	ALL	403870.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
864	ALL	403920.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
865	ALL	403970.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
866	ALL	404020.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
867	ALL	404070.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
868	ALL	404120.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
869	ALL	404170.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
870	ALL	404220.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
871	ALL	404270.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
872	ALL	404320.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
873	ALL	404370.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
874	ALL	404420.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
875	ALL	404470.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
876	ALL	404520.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
877	ALL	404570.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
878	ALL	404620.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
879	ALL	404670.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
880	ALL	404720.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-04
881	ALL	404770.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
882	ALL	404820.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
883	ALL	404870.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03
884	ALL	404970.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
885	ALL	405020.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
886	ALL	405070.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
887	ALL	405120.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
888	ALL	405170.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
889	ALL	405220.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
890	ALL	405270.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
891	ALL	405320.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
892	ALL	405370.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
893	ALL	405420.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
894	ALL	405470.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
895	ALL	405520.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
896	ALL	405570.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
897	ALL	405620.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
898	ALL	405670.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05

899	ALL	405720.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
900	ALL	405770.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
901	ALL	405820.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
902	ALL	403870.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
903	ALL	403920.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
904	ALL	403970.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
905	ALL	404020.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
906	ALL	404070.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
907	ALL	404120.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
908	ALL	404170.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
909	ALL	404220.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
910	ALL	404270.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
911	ALL	404320.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
912	ALL	404370.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
913	ALL	404420.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
914	ALL	404470.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
915	ALL	404520.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
916	ALL	404570.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
917	ALL	404620.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
918	ALL	404670.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
919	ALL	404720.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
920	ALL	404770.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
921	ALL	404820.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
922	ALL	404870.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-04
923	ALL	404970.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
924	ALL	405020.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
925	ALL	405070.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
926	ALL	405120.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
927	ALL	405170.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
928	ALL	405220.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05
929	ALL	405270.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
930	ALL	405320.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
931	ALL	405370.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05
932	ALL	405420.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
933	ALL	405470.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
934	ALL	405520.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
935	ALL	405570.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
936	ALL	405620.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
937	ALL	405670.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
938	ALL	405720.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
939	ALL	405770.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
940	ALL	405820.1	3774799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
941	ALL	403870.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
942	ALL	403920.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
943	ALL	403970.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
944	ALL	404020.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
945	ALL	404070.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
946	ALL	404120.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
947	ALL	404170.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
948	ALL	404220.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05

949	ALL	404270.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
950	ALL	404320.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
951	ALL	404370.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
952	ALL	404420.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
953	ALL	404470.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05
954	ALL	404520.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
955	ALL	404570.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
956	ALL	404620.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
957	ALL	404670.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
958	ALL	404720.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
959	ALL	404770.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
960	ALL	404820.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
961	ALL	404870.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
962	ALL	404970.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
963	ALL	405020.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
964	ALL	405070.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
965	ALL	405120.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
966	ALL	405170.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05
967	ALL	405220.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
968	ALL	405270.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
969	ALL	405320.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
970	ALL	405370.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
971	ALL	405420.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
972	ALL	405470.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
973	ALL	405520.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
974	ALL	405570.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
975	ALL	405620.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
976	ALL	405670.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
977	ALL	405720.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
978	ALL	405770.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
979	ALL	405820.1	3774849	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
980	ALL	403870.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
981	ALL	403920.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
982	ALL	403970.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
983	ALL	404020.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
984	ALL	404070.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
985	ALL	404120.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
986	ALL	404170.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
987	ALL	404220.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
988	ALL	404270.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
989	ALL	404320.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
990	ALL	404370.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
991	ALL	404420.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
992	ALL	404470.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
993	ALL	404520.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
994	ALL	404570.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
995	ALL	404620.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
996	ALL	404670.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
997	ALL	404720.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
998	ALL	404770.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04

999	ALL	404820.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
1000	ALL	404870.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
1001	ALL	404970.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1002	ALL	405020.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1003	ALL	405070.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
1004	ALL	405120.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1005	ALL	405170.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
1006	ALL	405220.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
1007	ALL	405270.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
1008	ALL	405320.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1009	ALL	405370.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1010	ALL	405420.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
1011	ALL	405470.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1012	ALL	405520.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1013	ALL	405570.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1014	ALL	405620.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1015	ALL	405670.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1016	ALL	405720.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1017	ALL	405770.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1018	ALL	405820.1	3774899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1019	ALL	403870.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1020	ALL	403920.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1021	ALL	403970.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1022	ALL	404020.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1023	ALL	404070.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1024	ALL	404120.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1025	ALL	404170.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1026	ALL	404220.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1027	ALL	404270.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1028	ALL	404320.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
1029	ALL	404370.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1030	ALL	404420.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
1031	ALL	404470.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
1032	ALL	404520.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
1033	ALL	404570.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
1034	ALL	404620.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1035	ALL	404670.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1036	ALL	404720.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1037	ALL	404770.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
1038	ALL	404820.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1039	ALL	404870.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1040	ALL	404920.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1041	ALL	404970.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1042	ALL	405020.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1043	ALL	405070.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1044	ALL	405120.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
1045	ALL	405170.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
1046	ALL	405220.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
1047	ALL	405270.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
1048	ALL	405320.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05

1049	ALL	405370.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1050	ALL	405420.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
1051	ALL	405470.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
1052	ALL	405520.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1053	ALL	405570.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1054	ALL	405620.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1055	ALL	405670.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1056	ALL	405720.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1057	ALL	405770.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1058	ALL	405820.1	3774949	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1059	ALL	403870.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1060	ALL	403920.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1061	ALL	403970.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1062	ALL	404020.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1063	ALL	404070.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1064	ALL	404120.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1065	ALL	404170.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1066	ALL	404220.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1067	ALL	404270.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1068	ALL	404320.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1069	ALL	404370.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1070	ALL	404420.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1071	ALL	404470.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1072	ALL	404520.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
1073	ALL	404570.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
1074	ALL	404620.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
1075	ALL	404670.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
1076	ALL	404720.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1077	ALL	404770.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1078	ALL	404820.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1079	ALL	404870.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1080	ALL	404920.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1081	ALL	404970.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1082	ALL	405020.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
1083	ALL	405070.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
1084	ALL	405120.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
1085	ALL	405170.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
1086	ALL	405220.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1087	ALL	405270.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
1088	ALL	405320.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
1089	ALL	405370.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
1090	ALL	405420.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1091	ALL	405470.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1092	ALL	405520.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1093	ALL	405570.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
1094	ALL	405620.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1095	ALL	405670.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1096	ALL	405720.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1097	ALL	405770.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1098	ALL	405820.1	3774999	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05

1099	ALL	403870.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1100	ALL	403920.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1101	ALL	403970.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1102	ALL	404020.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1103	ALL	404070.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1104	ALL	404120.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1105	ALL	404170.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1106	ALL	404220.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1107	ALL	404270.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1108	ALL	404320.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1109	ALL	404370.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1110	ALL	404420.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
1111	ALL	404470.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
1112	ALL	404520.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
1113	ALL	404570.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-05
1114	ALL	404620.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
1115	ALL	404670.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
1116	ALL	404720.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
1117	ALL	404770.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
1118	ALL	404820.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
1119	ALL	404870.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
1120	ALL	404920.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05
1121	ALL	404970.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
1122	ALL	405020.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
1123	ALL	405070.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
1124	ALL	405120.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
1125	ALL	405170.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
1126	ALL	405220.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
1127	ALL	405270.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1128	ALL	405320.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1129	ALL	405370.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1130	ALL	405420.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1131	ALL	405470.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1132	ALL	405520.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1133	ALL	405570.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1134	ALL	405620.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1135	ALL	405670.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1136	ALL	405720.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1137	ALL	405770.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1138	ALL	405820.1	3775049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1139	ALL	403870.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1140	ALL	403920.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1141	ALL	403970.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1142	ALL	404020.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1143	ALL	404070.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1144	ALL	404120.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1145	ALL	404170.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1146	ALL	404220.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1147	ALL	404270.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1148	ALL	404320.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05

1149	ALL	404370.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1150	ALL	404420.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1151	ALL	404470.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1152	ALL	404520.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
1153	ALL	404570.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
1154	ALL	404620.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1155	ALL	404670.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
1156	ALL	404720.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
1157	ALL	404770.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05
1158	ALL	404820.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-05
1159	ALL	404870.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
1160	ALL	404920.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-05
1161	ALL	404970.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-05
1162	ALL	405020.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1163	ALL	405070.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1164	ALL	405120.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
1165	ALL	405170.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1166	ALL	405220.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1167	ALL	405270.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
1168	ALL	405320.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
1169	ALL	405370.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
1170	ALL	405420.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
1171	ALL	405470.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
1172	ALL	405520.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1173	ALL	405570.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1174	ALL	405620.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1175	ALL	405670.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1176	ALL	405720.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1177	ALL	405770.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1178	ALL	405820.1	3775099	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1179	ALL	403870.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1180	ALL	403920.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1181	ALL	403970.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1182	ALL	404020.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1183	ALL	404070.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1184	ALL	404120.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1185	ALL	404170.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1186	ALL	404220.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1187	ALL	404270.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1188	ALL	404320.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1189	ALL	404370.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1190	ALL	404420.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1191	ALL	404470.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
1192	ALL	404520.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1193	ALL	404570.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
1194	ALL	404620.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1195	ALL	404670.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
1196	ALL	404720.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1197	ALL	404770.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
1198	ALL	404820.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05

1199	ALL	404870.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
1200	ALL	404920.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
1201	ALL	404970.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
1202	ALL	405020.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
1203	ALL	405070.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1204	ALL	405120.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
1205	ALL	405170.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1206	ALL	405220.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
1207	ALL	405270.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1208	ALL	405320.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1209	ALL	405370.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1210	ALL	405420.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1211	ALL	405470.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
1212	ALL	405520.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1213	ALL	405570.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1214	ALL	405620.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1215	ALL	405670.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1216	ALL	405720.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1217	ALL	405770.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1218	ALL	405820.1	3775149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1219	ALL	403870.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1220	ALL	403920.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1221	ALL	403970.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1222	ALL	404020.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1223	ALL	404070.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1224	ALL	404120.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1225	ALL	404170.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1226	ALL	404220.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1227	ALL	404270.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1228	ALL	404320.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1229	ALL	404370.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1230	ALL	404420.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1231	ALL	404470.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1232	ALL	404520.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1233	ALL	404570.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1234	ALL	404620.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1235	ALL	404670.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
1236	ALL	404720.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
1237	ALL	404770.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
1238	ALL	404820.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1239	ALL	404870.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1240	ALL	404920.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1241	ALL	404970.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
1242	ALL	405020.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1243	ALL	405070.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1244	ALL	405120.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1245	ALL	405170.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
1246	ALL	405220.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
1247	ALL	405270.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1248	ALL	405320.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05

1249	ALL	405370.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1250	ALL	405420.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
1251	ALL	405470.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1252	ALL	405520.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1253	ALL	405570.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1254	ALL	405620.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1255	ALL	405670.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1256	ALL	405720.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1257	ALL	405770.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1258	ALL	405820.1	3775199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1259	ALL	403870.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1260	ALL	403920.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1261	ALL	403970.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1262	ALL	404020.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1263	ALL	404070.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1264	ALL	404120.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1265	ALL	404170.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1266	ALL	404220.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1267	ALL	404270.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1268	ALL	404320.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1269	ALL	404370.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1270	ALL	404420.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1271	ALL	404470.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1272	ALL	404520.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
1273	ALL	404570.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1274	ALL	404620.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1275	ALL	404670.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1276	ALL	404720.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
1277	ALL	404770.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
1278	ALL	404820.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1279	ALL	404870.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
1280	ALL	404920.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
1281	ALL	404970.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1282	ALL	405020.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
1283	ALL	405070.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1284	ALL	405120.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1285	ALL	405170.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1286	ALL	405220.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1287	ALL	405270.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1288	ALL	405320.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1289	ALL	405370.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1290	ALL	405420.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1291	ALL	405470.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1292	ALL	405520.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1293	ALL	405570.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1294	ALL	405620.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1295	ALL	405670.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1296	ALL	405720.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1297	ALL	405770.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1298	ALL	405820.1	3775249	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05

1299	ALL	403870.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1300	ALL	403920.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
1301	ALL	403970.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1302	ALL	404020.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1303	ALL	404070.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1304	ALL	404120.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1305	ALL	404170.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1306	ALL	404220.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1307	ALL	404270.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1308	ALL	404320.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1309	ALL	404370.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1310	ALL	404420.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1311	ALL	404470.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1312	ALL	404520.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1313	ALL	404570.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1314	ALL	404620.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1315	ALL	404670.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1316	ALL	404720.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1317	ALL	404770.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1318	ALL	404820.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1319	ALL	404870.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1320	ALL	404920.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1321	ALL	404970.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1322	ALL	405020.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1323	ALL	405070.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1324	ALL	405120.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1325	ALL	405170.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1326	ALL	405220.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1327	ALL	405270.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1328	ALL	405320.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1329	ALL	405370.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1330	ALL	405420.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1331	ALL	405470.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1332	ALL	405520.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1333	ALL	405570.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1334	ALL	405620.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1335	ALL	405670.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1336	ALL	405720.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1337	ALL	405770.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1338	ALL	405820.1	3775299	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1339	ALL	403870.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06
1340	ALL	403920.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1341	ALL	403970.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1342	ALL	404020.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1343	ALL	404070.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1344	ALL	404120.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1345	ALL	404170.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1346	ALL	404220.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1347	ALL	404270.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1348	ALL	404320.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05

1349	ALL	404370.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1350	ALL	404420.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1351	ALL	404470.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1352	ALL	404520.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1353	ALL	404570.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1354	ALL	404620.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
1355	ALL	404670.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1356	ALL	404720.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1357	ALL	404770.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1358	ALL	404820.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1359	ALL	404870.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1360	ALL	404920.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1361	ALL	404970.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1362	ALL	405020.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1363	ALL	405070.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1364	ALL	405120.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1365	ALL	405170.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1366	ALL	405220.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1367	ALL	405270.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1368	ALL	405320.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1369	ALL	405370.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1370	ALL	405420.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1371	ALL	405470.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1372	ALL	405520.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1373	ALL	405570.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1374	ALL	405620.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1375	ALL	405670.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1376	ALL	405720.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
1377	ALL	405770.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1378	ALL	405820.1	3775349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1379	ALL	403870.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
1380	ALL	403920.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-06
1381	ALL	403970.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1382	ALL	404020.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
1383	ALL	404070.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1384	ALL	404120.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1385	ALL	404170.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1386	ALL	404220.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1387	ALL	404270.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1388	ALL	404320.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1389	ALL	404370.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1390	ALL	404420.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1391	ALL	404470.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1392	ALL	404520.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1393	ALL	404570.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1394	ALL	404620.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1395	ALL	404670.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1396	ALL	404720.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1397	ALL	404770.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1398	ALL	404820.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05

1399	ALL	404870.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1400	ALL	404920.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1401	ALL	404970.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1402	ALL	405020.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1403	ALL	405070.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1404	ALL	405120.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1405	ALL	405170.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1406	ALL	405220.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1407	ALL	405270.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1408	ALL	405320.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1409	ALL	405370.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1410	ALL	405420.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1411	ALL	405470.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1412	ALL	405520.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1413	ALL	405570.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
1414	ALL	405620.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1415	ALL	405670.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1416	ALL	405720.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1417	ALL	405770.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1418	ALL	405820.1	3775399	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1419	ALL	403870.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06
1420	ALL	403920.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06
1421	ALL	403970.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1422	ALL	404020.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1423	ALL	404070.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1424	ALL	404120.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1425	ALL	404170.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1426	ALL	404220.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1427	ALL	404270.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1428	ALL	404320.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1429	ALL	404370.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1430	ALL	404420.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1431	ALL	404470.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1432	ALL	404520.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1433	ALL	404570.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1434	ALL	404620.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1435	ALL	404670.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1436	ALL	404720.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1437	ALL	404770.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1438	ALL	404820.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1439	ALL	404870.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1440	ALL	404920.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1441	ALL	404970.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1442	ALL	405020.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1443	ALL	405070.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1444	ALL	405120.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1445	ALL	405170.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1446	ALL	405220.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1447	ALL	405270.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1448	ALL	405320.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05

1449	ALL	405370.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1450	ALL	405420.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1451	ALL	405470.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1452	ALL	405520.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1453	ALL	405570.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1454	ALL	405620.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
1455	ALL	405670.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1456	ALL	405720.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1457	ALL	405770.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1458	ALL	405820.1	3775449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1459	ALL	403870.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06
1460	ALL	403920.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
1461	ALL	403970.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06
1462	ALL	404020.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
1463	ALL	404070.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1464	ALL	404120.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
1465	ALL	404170.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
1466	ALL	404220.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1467	ALL	404270.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1468	ALL	404320.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1469	ALL	404370.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1470	ALL	404420.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1471	ALL	404470.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1472	ALL	404520.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1473	ALL	404570.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1474	ALL	404620.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1475	ALL	404670.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1476	ALL	404720.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1477	ALL	404770.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1478	ALL	404820.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1479	ALL	404870.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1480	ALL	404920.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1481	ALL	404970.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1482	ALL	405020.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1483	ALL	405070.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1484	ALL	405120.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1485	ALL	405170.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1486	ALL	405220.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1487	ALL	405270.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1488	ALL	405320.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1489	ALL	405370.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1490	ALL	405420.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1491	ALL	405470.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1492	ALL	405520.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1493	ALL	405570.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1494	ALL	405620.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1495	ALL	405670.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1496	ALL	405720.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1497	ALL	405770.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1498	ALL	405820.1	3775499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05

1499	ALL	403870.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
1500	ALL	403920.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
1501	ALL	403970.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-06
1502	ALL	404020.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06
1503	ALL	404070.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1504	ALL	404120.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1505	ALL	404170.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
1506	ALL	404220.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1507	ALL	404270.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1508	ALL	404320.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1509	ALL	404370.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1510	ALL	404420.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1511	ALL	404470.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1512	ALL	404520.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1513	ALL	404570.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1514	ALL	404620.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1515	ALL	404670.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1516	ALL	404720.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1517	ALL	404770.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1518	ALL	404820.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1519	ALL	404870.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1520	ALL	404920.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1521	ALL	404970.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1522	ALL	405020.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1523	ALL	405070.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1524	ALL	405120.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1525	ALL	405170.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1526	ALL	405220.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1527	ALL	405270.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1528	ALL	405320.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1529	ALL	405370.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1530	ALL	405420.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1531	ALL	405470.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1532	ALL	405520.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1533	ALL	405570.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1534	ALL	405620.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1535	ALL	405670.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1536	ALL	405720.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1537	ALL	405770.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1538	ALL	405820.1	3775549	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1539	ALL	403870.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06
1540	ALL	403920.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06
1541	ALL	403970.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
1542	ALL	404020.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-06
1543	ALL	404070.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
1544	ALL	404120.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
1545	ALL	404170.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1546	ALL	404220.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1547	ALL	404270.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
1548	ALL	404320.1	3775599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05

1549 ALL	404370.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1550 ALL	404420.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1551 ALL	404470.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1552 ALL	404520.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1553 ALL	404570.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1554 ALL	404620.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1555 ALL	404670.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1556 ALL	404720.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1557 ALL	404770.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1558 ALL	404820.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1559 ALL	404870.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1560 ALL	404920.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1561 ALL	404970.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1562 ALL	405020.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1563 ALL	405070.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1564 ALL	405120.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1565 ALL	405170.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1566 ALL	405220.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1567 ALL	405270.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1568 ALL	405320.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1569 ALL	405370.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1570 ALL	405420.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1571 ALL	405470.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1572 ALL	405520.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1573 ALL	405570.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
1574 ALL	405620.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1575 ALL	405670.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
1576 ALL	405720.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1577 ALL	405770.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1578 ALL	405820.1	3775599 NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05

1.81E-03

Appendix D

Historical Resources Assessment

Historical Resources Assessment Report for 2607 Santa Anita Avenue Arcadia, California 91006

Prepared for:
Arcadia Congregational Church
2607 Santa Anita Avenue
Arcadia, California 91106
(626) 356-4801

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October 21, 2020

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ATTACHMENTS

A Resumes of Key Personnel

SECTION 1
EXECUTIVE SUMMARY

This report presents the results of a Historical Resources Assessment Report for the buildings located at 2607 Santa Anita Avenue (Assessor Parcel Number [APN] 5788-020-029), City of Arcadia (City), Los Angeles County, California. The purpose of the report is to determine if the buildings, individually or collectively, constitute historical resources, pursuant to Section 15064.5(a) of the California Environmental Quality Act (CEQA) Guidelines. This determination will be used by the City to determine the appropriate level of environmental review for consideration of the requested demolition. Sapphos Environmental, Inc. architectural historians (Ms. Carrie Chasteen and Ms. Kasey Conley; Attachment A, *Resumes of Key Personnel*) were retained to serve as the principal investigators to complete the Historical Resources Assessment Report. Ms. Chasteen and Ms. Conley meet the Secretary of the Interior's *Professional Qualifications Standards* in the fields of History and Architectural History.

The subject property located at 2607 Santa Anita Avenue (Assessor's Parcel Number [APN] 5788-020-029) is located in the City of Arcadia. Santa Anita Avenue is a north-south arterial roadway in the eastern half of Arcadia. One worship building is located on the eastern edge of the lot and a hall, Prince Erik Hall, is located behind the church. No other buildings are present on the parcel.

In 2016, Architectural Resources Group completed a Historic Context Statement for the City. A reconnaissance survey was also completed as part of the report, but the results of that survey have not been published.[1] The subject property was not identified as individually eligible for listing in the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), or for designation as a City of Arcadia Historic Landmark (Historic Landmark) within the historic context statement. The subject property was also not identified as a contributor to a potential historic district. The buildings on this parcel were evaluated in this report using the eligibility criteria for listing in the National Register, California Register, and for designation as a Historic Landmark, and to determine if the subject property would contribute to a potential historic district.

After careful research and evaluation, Sapphos Environmental, Inc. (Ms. Chasteen and Ms. Conley) concluded that the buildings do not appear to be individually eligible for listing in the National Register or California Register due to lack of sufficient historical merit. Because Government Code Section 37361 limits the ability of local governments to impose historical designations on church properties and exempts them from such local processes, it also is not eligible under the local criteria. See, e.g., The *California-Nevada Annual Conference of the United Methodist Church v. The City and County of San Francisco*, 173. Cal. App. 4th 1559 (2009) (local proceedings "unquestionably are beyond the city's jurisdiction.").Therefore, the buildings are not historical resources pursuant to CEQA.

[1] City of Arcadia, "City of Arcadia: Citywide Historic Context Statement." 11 January 2016. Prepared by Architectural Resources Group. Available at: https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/historic%20preservation/Arcadia%20HCS_11-16_FINAL.pdf

2.1 BRIEF PROJECT DESCRIPTION

The project would demolish the existing buildings on the parcel.

2.2 PROJECT LOCATION AND CURRENT SETTING

The subject property consists of one parcel located at 2607 Santa Anita Avenue (APN 5788-020-029), in the City, Los Angeles County, California. Santa Anita Avenue is a north-south arterial roadway in the eastern half of Arcadia predominately lined with residential housing. The property is located one parcel north of Live Oaks Avenue, a heavily commercialized arterial roadway.

SECTION 3
ASSESSMENT METHODOLOGY

The assessment methodology consisted of research and field assessment of the structures and buildings.

RESEARCH CONDUCTED

1. Dates of construction and subsequent alterations were determined by building permit records, as well as additional resources, such as the field inspection, Sanborn Fire Insurance Maps, and historic aerial photographs.

2. Researched the project site and surrounding area at local libraries and archives to establish the general history and context of the project site, including a review of the Built Environment Resource Directory (BERD) for Los Angeles County, newspapers, City directories, books, and articles.

3. Consulted the Context/Theme/Property Type (CTP) eligibility standards formulated for the Arcadia Historic Context Statement to identify the appropriate CTP under which to evaluate the buildings on the project site.

4. Reviewed and analyzed ordinances, statues, regulations, bulletins, and technical materials relating to federal, state, and local historic preservation assessment processes and programs to evaluate the significance and integrity of the buildings on the project site.

FIELD METHODS

5. Conducted a field inspection of the project site to ascertain the general condition and physical integrity of the buildings thereon. Digital photographs were taken during the site inspections, which included only the exterior of the buildings. Field notes were made.

6. It was concluded during the field inspection that the buildings located at 2607 Santa Anita Avenue are not located within a potential historic district because the buildings do not reflect a cohesive pattern of design and development or architectural style. Additionally, the parcel was evaluated individually as a potential historical resource under federal, state, and local eligibility criteria according to the National Park Service, California Office of Historic Preservation, and City of Arcadia Historic Preservation Ordinance.

SECTION 4
SUMMARY OF PREVIOUS EVALUATIONS/DESIGNATIONS

4.1 RECORD SEARCH

In accordance with the South Central Coastal Information Center (SCCIC), located at California State University, Fullerton, current procedures and policies, the BERD for Los Angeles County, available from the California Office of Historic Preservation (updated March 3, 2020), historic U.S. Geological Survey (USGS) 7.5-minute series topographic maps, and aerial photographs were reviewed for the project site and adjacent properties. In addition to official maps and records, and published registers and reports for the geographic area were reviewed:

1. National Register of Historic Places – Listed (2020);
2. California Register of Historical Resources – Listed (2020);
3. California State Historical Landmarks (1996 and updates);
4. California Points of Historical Interest (1992 and updates);
5. City of Arcadia List of Historic Landmarks (2020).

4.2 PREVIOUS EVALUATIONS/DESIGNATIONS SUMMARY

In 2016, Architectural Resources Group completed a Historic Context Statement for the City. A reconnaissance survey was also completed as part of the report, but the results of that survey were not published.[2] The subject property was not identified as individually eligible for listing in the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), or for designation as a City of Arcadia Historic Landmark (Historic Landmark) within the historic context statement. The subject property was also not identified as a contributor to a potential historic district. The subject property does not appear to have been otherwise surveyed.

[2] City of Arcadia, "City of Arcadia: Citywide Historic Context Statement." 11 January 2016. Prepared by Architectural Resources Group. Available at: https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/historic%20preservation/Arcadia%20HCS_11-16_FINAL.pdf

SECTION 5
HISTORY AND DESCRIPTION OF THE SURROUNDING AREA

The land that became the City of Arcadia was originally part of Rancho Santa Anita, before it was purchased by E.J. "Lucky" Baldwin. In the 1903, Arcadia was platted to take advantage of the influx of visitors to Southern California. The growth of Arcadia remained slow at the turn of the century and, like most of Southern California, saw a boom in residential growth during the 1920s. During this time, poultry farms became a lucrative industry in Arcadia. These farms were easy to maintain on small parcels as large-scale ranches were being subdivided at this time to fuel residential development. Arcadia became one of the largest suppliers of eggs to the City of Los Angeles and by 1926 was shipping 5,000 eggs a day to Los Angeles. The 8-acre subject property was originally purchased by Prince Erik of Denmark and used as a chicken farm. It was one of the southernmost lots in the Santa Anita Colony tract which had been recorded by Baldwin in 1891. According to historic aerial photographs, the land surrounding the subject property remained predominately agricultural, with a healthy mix of residential development, until at least the early 1950s.

Like most areas in the country, Arcadia saw a dip in development during the 1930s and a massive uptick at the close of World War II. Hundreds of acres of new residential developments occurred in the late 1940s and 1950s, including the rise in multi-family housing along main roads such as Baldwin Avenue, Santa Anita Avenue, and Huntington Drive. The boom in commercial and institutional development during the post-World War II years also helped solidify Arcadia as a wealthy and desirable community. A number of churches were construction in the 1950s in the City with many of the buildings taking on the preferential style of the time, Modernism. In 1952, the eastern portion of the subject property was sold to the Arcadia Congregational Church and in 1962 they constructed the current building that faces Santa Anita Avenue.[3] Today, the entire parcel is used by the church.

[3] City of Arcadia, "City of Arcadia: Citywide Historic Context Statement." 11 January 2016. Prepared by Architectural Resources Group. Available at: https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/historic%20preservation/Arcadia%20HCS_11-16_FINAL.pdf

6.1 CURRENT SETTING

The setting surrounding the parcel is mostly single-family residential to the north with commercial infill along Live Oak Avenue to the south. Architectural styles present include Minimal Traditional, Contemporary, and commercial vernacular (Figures 1A–B, *View of Setting, Santa Anita Avenue;* Figure 2, *Sketch Map, 2607 Santa Anita Avenue;* Figure 3, *Project Location Map,2607 Santa Anita Avenue*).



Figure 1A. View of Setting (facing northeast), Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

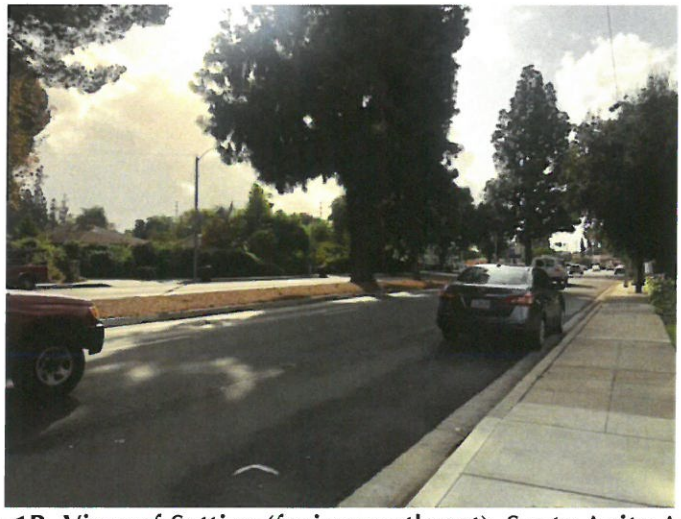


Figure 1B. View of Setting (facing southeast), Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

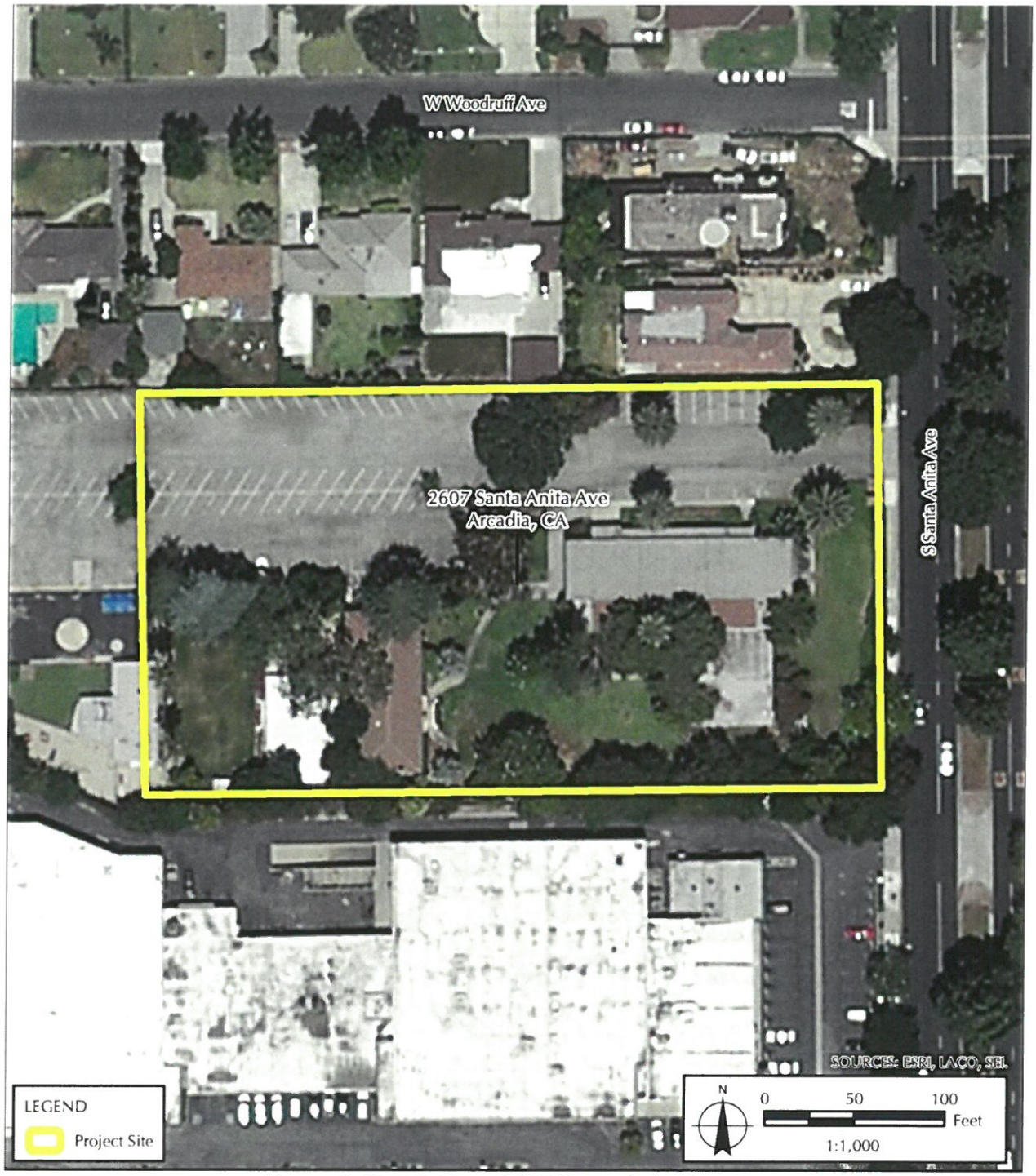


Figure 2. Sketch Map, 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

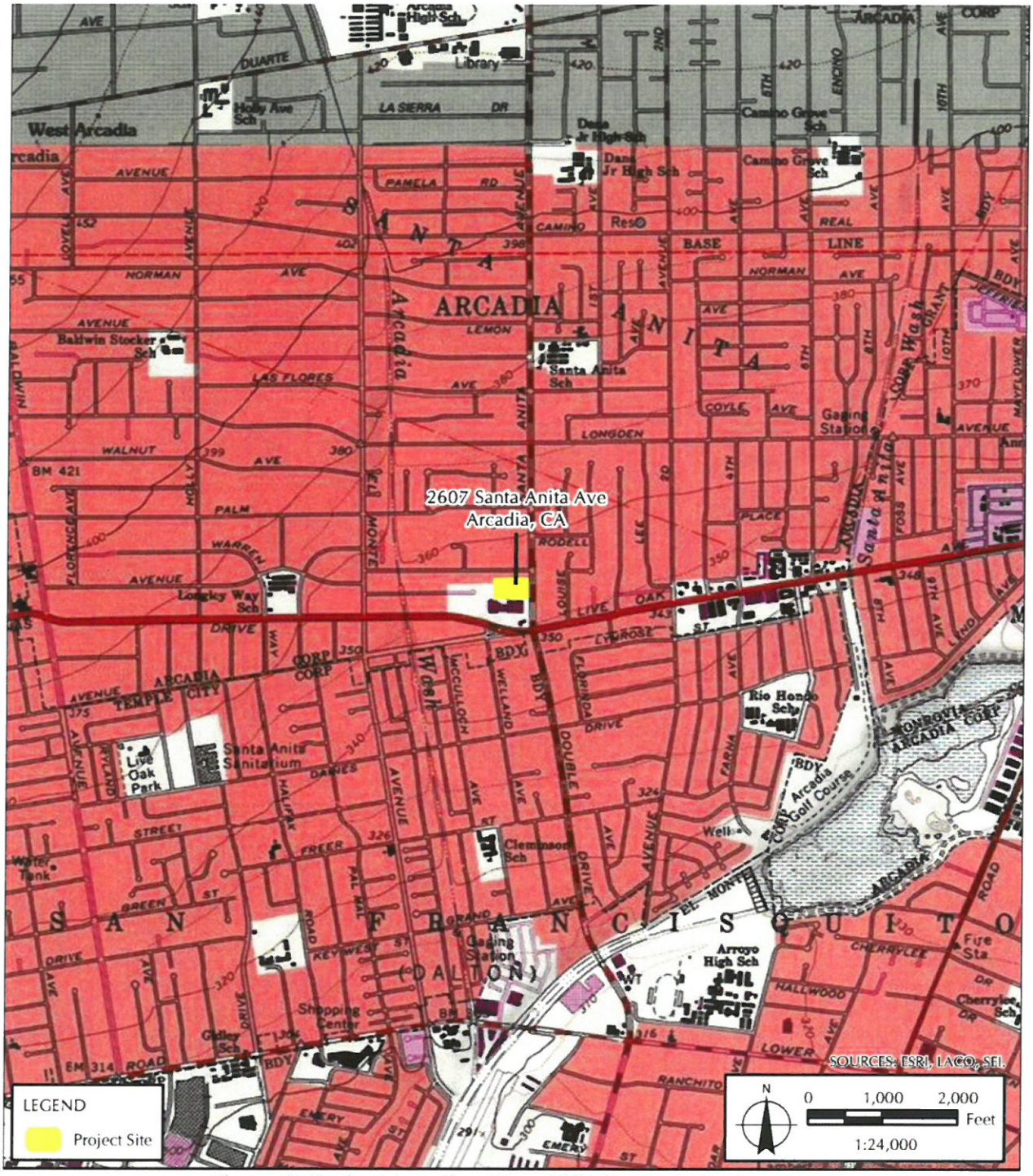


Figure 3. Project Location Map, 2607 Santa Anita Avenue
SOURCE: *U.S. Geological Survey, 1991*

6.2 ARCHITECTURAL DESCRIPTION

6.2.1 Arcadia Congregational Church

The eastern half of the subject property includes a Mid-century Modern-style worship building with a low-pitched gabled roof, wide overhanging eaves, exposed roof beams on the northern, western, and southern façades; transom windows along the roofline on the northern façade; brick façade; and a wall of glass windows on the southern façade which open to an interior courtyard. The building is clad in brick in a one-third running pattern (Figure 4, *View of Primary Façade, [view facing West], 2607 Santa Anita Avenue*). The building is on the southeast portion of the parcel and is in good condition.



Figure 4. View of Primary Façade (view facing west), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Primary (Eastern) Façade

The primary façade of the building faces Santa Anita Avenue and is simple in form. The main body of the building is located towards the north with a low-pitched gabled roofline. The northern volume of the primary façade has no fenestration, is slightly recessed, and is clad in a lighter color brick highlighting the signage of the building. A minimalist concrete cross with support post rises from roof. The southern half of the primary façade has a flat roof line, except where is slopes to meet the northern portion of the building. At the center there are three pairs of full-façade steel-framed windows with a pedestrian door towards the south (Figures 5A–B, *Primary Façade, 2607 Santa Anita Avenue*).



Figure 5A. Primary Façade (view facing northwest), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*



Figure 5B. Primary Façade (view facing southwest), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Northern Façade

The northern façade is clad in brick with steel-framed transom windows along the roofline. Paired wood doors are located towards the western end of the façade. The doors are shielded by a shed roof with brick walls on either side (Figure 6, *Northern Façade, 2607 Santa Anita Avenue*).



Figure 6. Northern Façade (view facing southeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Western Façade

The western façade of the building has a deeply recessed entry court. The façade has full-height steel-framed fixed windows with three sets of wood paired doors. The entry court is covered by an extension of the roofline with brick walls enclosing the sides. A small patio is located to the south with a flat roof cover supported by thin rounded posts (Figure 7, *Western Façade, 2607 Santa Anita Avenue*).



Figure 7. Western Façade (view facing east), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Southern Façade

The southern façade is 'L'-shaped with the eastern portion projecting to the west. The façade is mostly clad in brick with the western half of the building clad in full-height steel-framed fixed windows. Steel-framed clerestory windows line the roofline of the façade and a wood-beam awning projecting between them. The eastern portion of the façade is mostly clad in brick with steel-framed fixed windows and entrance doors at varying places oriented to the west and east (Figures 8A–C, *Southern Façade, 2607 Santa Anita Avenue*).



Figure 8A. Southern Façade (view facing north), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*



Figure 8B. Southern Façade (view facing northeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*



Figure 8C. Southern Façade (view facing northeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

6.2.2 Prince Erik Hall

The subject property includes an Italian Renaissance-style home with a low-pitched hipped roof, overhanging eaves with exposed rafters, symmetrical façade, sill band, and a prominent door surround with decorative braided molding. The building is 2 stories in height and there are multiple wood casement windows throughout the façade. Wood French doors are located on either side of the façade. The main entrance door is wood with a central light and flanking sidelights. A metal cross is located above the door. The home is clad in stucco and has a rounded double staircase with vase-like balusters supporting the rail (Figure 9, *Primary Façade of Prince Erik Hall, 2607 Santa Anita Avenue*). The building is situated at the wester (rear) portion of the parcel and is in good condition.



Figure 9. Primary Façade of Prince Erik Hall (view facing west), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Northern Façade

The northern façade is clad in stucco with wide-eave overhang and exposed rafters. There is a wood entrance door located at the center of the façade and multiple wood casement windows. Two narrow wood windows on the second story have been boarded, and an awning has been added over the entrance door (Figure 10, *Northern Façade of Prince Erik Hall, 2607 Santa Anita Avenue*).



Figure 10. Northern Façade of Prince Erik Hall (view facing southeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Western Façade

The western façade is clad in stucco with wide eave overhang and exposed rafters. There are multiple wood casement windows along both stories of the façade, and the upper portion of the first story windows are boarded. The façade projects to the west slightly at the northern end, and a wood entrance door is located at this end. The door is slightly raised with two concrete steps and covered by an awning. A concrete patio extends west from this façade with heavy landscaping and a fountain (Figure 11, *Western Façade of Prince Erik Hall, 2607 Santa Anita Avenue;* Figure 12, *Courtyard, 2607 Santa Anita Avenue*).



Figure 11. Western Façade of Prince Erik Hall (view facing southeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*



Figure 12. Courtyard (view facing south), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

Southern Façade

The southern façade is clad in stucco with wide-eave overhang and exposed rafters. Multiple wood, single-hung, and casement windows are visible on both stories and a metal staircase leads to a second-story wood entrance door. Some windows along the façade have been boarded. A slanted shed roof covers a patio an entrance door which has been enclosed. A chimney can be seen towards the eastern end of the building extending above the roofline (Figures 13A–B, *Southern Façade of Prince Erik Hall, 2607 Santa Anita Avenue*).



Figure 13A. Southern Façade of Prince Erik Hall (view facing northeast), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*



Figure 13B. Southern Façade of Prince Erik Hall (view facing northwest), 2607 Santa Anita Avenue
SOURCE: *Sapphos Environmental, Inc., 2020*

6.3 BUILDING HISTORY

6.3.1 Construction History

The subject property was developed as part of the Santa Anita Colony Tract, which was recorded in February 1891 for owner E.J. Baldwin.[4] E.J. Baldwin, or Elias J. "Lucky" Baldwin, founded Arcadia in 1903 and owned much of the land in the city until his death in 1909.[5] The subject property was improved 34 and 71 years after the platting of the Santa Anita Colony Tract and well after E.J. Baldwin's death.

6.3.2 Permit History

Two buildings are located on the parcel located at 2607 Santa Anita Avenue. The original building permits for the buildings were not available online or with the City of Arcadia.

The building at the rear (western end) of the parcel is Prince Erik Hall constructed in 1924 by Prince Erik of Denmark. Prince Erik married Lois Frances Booth, granddaughter of the Canadian lumber tycoon J.R. Booth, in 1924 and moved to Arcadia where he purchased 8 acres of land to use as a chicken farm and constructed the Italian Renaissance-style home.[6] Prince Erik was the cousin of both the Danish King Christian X and the English King George V. He renounced his title of highness and his distant right to the Danish throne in order to marry the "commoner" Lois Frances Booth, which was customary at the time.[7] The original architect, if any, and builder are unknown. There are minimal alterations to the house including awnings and new entry doors on the rear (western) and northern façade entrances.

In 1952, 3.8 acres of land from the estate was sold to the Arcadia Congregational Church for the construction of a new church building.[8] The building was constructed on the eastern portion of the parcel fronting Santa Anita Avenue, and was completed in 1962. The building was designed by architect Robert Orr of Orr, Strange, Inslee, and Senefeld.[9] The building was constructed by Raycraft Construction Co. of Arcadia.[10] No information was found on Raycraft Construction Co. No alterations to the building are visible.

The Sanborn Fire Insurance Maps do not cover this area of the City.

6.4 ARCHITECT/BUILDER

Robert Orr was a noted Los Angeles architect who was very active in the area designing the well-known Wilshire Christian Church and worked as the supervising architect for the construction of

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4 Los Angeles County Public Works. *Land Records Viewer.* Accessed November 25, 2019. Available at: https://pw.lacounty.gov/sur/nas/landrecords/misc/MR042/MR042-087.pdf

5 Townsquare Publications. 2019. "History." Accessed November 2019. Available at: https://townsquarepublications.com/arcadia-history/

6 Libby, Carol. September 2017. "Prince Erik Hall." Accessed November 2019. Available at: http://arcadiasbest.com/2017/09/prince-erik-hall/

7 Today in Ottawa's History. 13 December 2014. "Ill-Starred Royal Romance." Accessed November 2019. Available at: https://todayinottawashistory.wordpress.com/2014/12/13/ill-starred-royal-romance/

8 "Ground Broken for Modern Congregational Church Here." 29 June 1961. *Arcadia Tribune* (Arcadia, CA), p. 1.

9 "Ground Broken for Modern Congregational Church Here." 29 June 1961. *Arcadia Tribune* (Arcadia, CA), p. 1.

10 "Kuchel Speaks Sunday and Church Dedication." 8 March 1962. *Arcadia Tribune* (Arcadia, CA), p. 1.

Pomona College. Orr began his career as a draftsman for the architect William H. Weeks in Salinas in 1898 and was active as an architect in the Los Angeles area by 1908. Orr founded the firm Orr, Strange, Inslee & Senefeld in 1949 and the firm became known predominately for its church architecture within Southern California.[11] Other churches designed during the same period by the firm include the Covenant Presbyterian Church in 1962, the Westchester Lutheran Church in 1964, and the St. Stephen's Lutheran Church in 1966. All three of these buildings were identified in HistoricPlacesLA as churches embodying the distinctive characteristics of the Expressionist and Mid-century Modern styles of architecture and designed by noted church architects Orr, Strange, Inslee, and Senefeld."[12] The subject property is the simplest and least ornate design in comparison.[13] Orr is the only architect as part of the firm recognized as an architect of note, and is most closely associated with the Wilshire Christian Church as a representation of his work.

6.5 OWNERSHIP/OCCUPANT HISTORY

The property at 2607 Santa Anita Avenue was owned by multiple people from 1924 to present. The following table summarizes the ownership records for the property (Table 1, *2607 Santa Anita Avenue Ownership History*).

TABLE 1
2607 SANTA ANITA AVENUE
OWNERSHIP HISTORY

Map Book No.	Page No.	Date	Name
64	209	1920–1927	Prince Erik John McClay Gina Didricksen
371	3	1927–1934	Prince Erik
371	6	1934–1941	Prince Erik Gilbert W. Smith
371	5	1941–1948	Ross A Himes June N. Himes Gilbert W. Smith Percy J. Ubrie Rose V. Ubrie
371	5	1949–1953	Congregational Church Extension Society Inc. Arcadia Congregational Church
861	24	1954–1958	Arcadia Congregational Church
		1967*	Arcadia Congregational Church

NOTE: * *Denotes information obtained from the Los Angeles County Assessor's public counter.*

[11] University of California Los Angeles. Circa 1928. "Drawing of Women's Cub Clubhouse by architect Robert H. Orr, Azusa. *Los Angeles Times* Photograph Collection. Available at: https://dl.library.ucla.edu/islandora/object/edu.ucla.library.specialCollections.latimes:6816

[12] City of Los Angeles. September 2017. "Los Angeles Citywide Historic Context Statement, Context: Public and Private Institutional Development, 1850–1980, Sub-Context: Government Infrastructure and Services, 1850–1980, Theme: Municipal Fire Stations, Subtheme: Post World War II Fire Stations, 1947–1963." Available at: https://planning.lacity.org/odocument/b0aa3610-b466-4731-9072-eabb4c59c178/MunicipalFireStations_PostWWIIFireStations_1947-1963.pdf

[13] HistoricPlaces LA identified properties solely within the City of Los Angeles. The findings of SurveyLA were not formally adopted by the city and are generally considered to be recommendations.

The Arcadia Congregational Church was established in 1951 and is a member of the United Church of Christ.[14] The Congregational Church Extension Society Inc. is a company that builds churches in communities across the United States.[15] Gilbert W. Smith was an investment broker.[16] Prince Erik was a Danish prince who, in 1924, married Lois Frances Booth, granddaughter of the Canadian lumber tycoon J.R. Booth, and moved to Arcadia where he purchased 8 acres of land for a poultry farm.[17] No information in the historic issues of the *Los Angeles Times*, or the *Los Angeles Sentinel,* in the Assessor records, or census data was available on John McClay, Gina Didricksen, Ross A. Himes, June N. Himes, Percy J. Ubrie, or Rose Vs. Ubrie.

6.6 USE HISTORY

The property was improved by Prince Erik Hall in 1924 as the home for Prince Erik of Denmark and his wife. It was used as a chicken farm and home. In 1952, the eastern acres of land were sold to the Arcadia Congregational Church and the worship building was constructed. Today, the church is used as it was originally built, and Prince Erik Hall is used as a meeting hall.

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[14] Arcadia Congregational Church. Home page. Accessed November 2019 Available at: http://www.arcadiaucc.org/index.htm

[15] Catholic Church Extension Society of USA. "Mission." Accessed November 2019. Available at: https://www.guidestar.org/profile/36-6000520

[16] Ancestry.com. 2012. *1940 United States Federal Census*. Provo, UT: Ancestry.com Operations, Inc.

[17] Libby, Carol. September 2017. "Prince Erik Hall." Accessed November 2019. Available at: http://arcadiasbest.com/2017/09/prince-erik-hall/

The buildings associated with the subject property were evaluated to determine if they constitute historical resources as defined by the CEQA, using the eligibility criteria for listing in applicable federal, State, and local statutes and regulations.

7.1 FEDERAL

The National Historic Preservation Act of 1966, as amended, defines the criteria to be considered eligible for listing in the National Register:

> *The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and*
>
> *A. that are associated with events that have made a significant contribution to the broad patterns of our history; or*
>
> *B. that are associated with the lives of persons significant in our past; or*
>
> *C. that embody distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or*
>
> *D. that have yielded, or may be likely to yield, information important in prehistory or history* (36 Code of Federal Regulations [CFR] Section part 63).

According to *National Register Bulletin No. 15*, "to be eligible for listing in the National Register, a property must not only be shown to be significant under National Register criteria, but it also must have integrity." Integrity is defined in *National Register Bulletin No. 15* as "the ability of a property to convey its significance."[18] Within the concept of integrity, the National Register recognizes the following seven aspects or qualities that in various combinations define integrity: location, design, setting, materials, workmanship, feeling, and association.

7.2 STATE OF CALIFORNIA

Section 5024.1(c), Title 14 CCR, Section 4852 of the California Public Resources Code defines the criteria to be considered eligible for listing in the California Register:

> *A resource may be listed as an historical resource in the California Register if it meets any of the following* [National Register] *criteria:*
>
> *1. 1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;*

[18] National Park Service, U.S. Department of the Interior. 2017. "How to Apply the National Register Criteria for Evaluation." *National Register Bulletin*. Available at: https://www.nps.gov/nr/publications/bulletins/nrb15/

2. *Is associated with the lives of persons important in our past;*

3. *Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or*

4. *Has yielded, or may be likely to yield, information important in prehistory or history.*

Section 4852(C) of the California Code of Regulations[19] defines integrity as follows:

> *Integrity is the authenticity of an historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described in section 4852(b) of this chapter and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance. Historical resources that have been rehabilitated or restored may be evaluated for listing.*
>
> *Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance.*

7.3 CITY OF ARCADIA

Historic Landmark Section 9103.17 of the Historic Preservation Ordinance defines a Historic Landmark:

> On the recommendation of the Commission, the City Council may designate an individual resource (building, structure, object, or site) if it meets one or more of the following local eligibility criteria:
>
> A building may be designated as a historic landmark if it meets one or more of the following local eligibility criteria:
>
> 1. *It is associated with events that have made a significant contribution to the broad patterns of Arcadia's or California's history.*
>
> 2. *It is associated with the lives of persons important to local or California history.*
>
> 3. *It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possess high artistic values.*
>
> 4. *It has yielded, or has the potential to yield, information important to the prehistory* or history or the city or state.

[19] California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

On the recommendation of the Commission, the City Council may designate a historic district if it meets one or more of the four criteria in Section 9103.17.060(A) and:

1. *It poses a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development.*

2. *A minimum of 60% of the buildings within the proposed historic district contribute to the district's significance.*

3. *A total of 75% of the owners within a proposed historic district must consent to designation, and 100% of the owners of contributing resources within the district must consent to designation.*

The property was evaluated using the Citywide Historic Context Statement developed by Architectural Resources Group in 2016; specifically, the Early Subdivision and Growth, 1910–1935 context and Residential Development, 1910–1935 theme and the Post-World War II Development, 1946–1970 context and the Post-war Institutional Development, 1945–1970 theme.[20] Below is a summary of these contexts and themes.

Context: Early Subdivision and Growth, 1910–1935
Theme: Residential Development, 1910–1935

Residential development during this period was established and thrived due mostly to subdivisions and land speculations. Arcadia developed mostly with single-family housing, primarily in the Craftsman style, on lots which could also accommodate small part-time family-run farms and orchards. Many of the tracts subdivided at this time did not offer any infrastructure improvements, with tracts possibly offering paved roads but no curbs or sidewalks. These improvements would come in the post-World War II civic projects along with the growth of multi-family buildings.

Context: Post-World War II Development, 1946–1970
Theme: Post-war Institutional Development, 1945–1970

The post-World War II population boom proved to be a strain on the pre-war civic and institutional establishments of Arcadia. The increase in new residents created a boom in both public and private institutional growth including major projects such as the establishment of the sewer system, construction of the civic center, and the revitalization efforts of the historic commercial district (located at the intersection of 1st Avenue and Huntington Drive). Additionally, several religious institutions were constructed in the 1940s–1960s with many of them taking of the Modern style of architecture which was popular at this time.

[20] City of Arcadia, "City of Arcadia: Citywide Historic Context Statement." 11 January 2016. Prepared by Architectural Resources Group. Available at: https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/historic%20preservation/Arcadia%20HCS_11-16_FINAL.pdf

SECTION 9
EVALUATION OF ELIGIBILITY

9.1 NATIONAL REGISTER OF HISTORIC PLACES

National Register Criterion A

The property was originally developed as part of the Santa Anita Colony Tract which was recorded in 1891 for E.J. "Lucky" Baldwin. The parcel was purchased in 1924 by Prince Erik of Denmark, who built a family home for himself and his new wife and operated the land as a small-scale poultry farm. Poultry farming was very popular in the City of Arcadia during the early 20th century, becoming one of the leading suppliers of eggs to the City of Los Angeles. Yet, no information was found to suggest that this farm was significantly tied to the poultry industry in Arcadia during this time. Numerous small-scale farms operated in the area during this time, with the area remaining heavily agricultural until the 1950s. The farm is not associated with events that made significant contribution to the broad patterns of our history and does not convey any integrity as a poultry farm from the early 20th century. Therefore, the subject property is ineligible for listing in the National Register under Criterion A.

National Register Criterion B

No information was found to suggest that any of the previous owners or residents made demonstrably significant contributions to the history of the nation, state, or region, or that any other individuals of historical significance were associated with the property. Although Prince Erik was well known throughout the community, he is not associated with any significant events and did not make any contributions to the development of the City. Therefore, the subject property is ineligible for listing in the National Register under Criterion B.

National Register Criterion C

The subject property consists of a Mid-century Modern worship building constructed in 1962 and an Italian Renaissance home constructed in 1924.

Prince Erik Hall exhibits character-defining features of the Italian Renaissance type including a low-pitched hipped roof, overhanging eaves with exposed rafters, symmetrical façade, sill band, and a prominent door surround with decorative braided molding, stucco cladding, and a rounded double staircase with vase-like balusters supporting the rail. According to *A Field Guide for American Houses* by Virginia Salvage McAlester, the Italian Renaissance style was popular in the early 20th century with its peak popularity happening in the 1920s.[21] These types of homes were less common than the Tudor- or Craftsman-style homes also constructed during this time, making it a locally rare example of the style in the city of Arcadia, but not within the nation or state. The design and character-defining features do not rise to the level of significance for designation at the state or national level because in the context of the state and the nation, other better examples of the Italian Renaissance style are extant. The building conveys character-defining features of the style with the most elaborate being the entrance door surround and entrance porch. The building exhibits distinctive features of an Italian Renaissance style, and no alterations are visible giving it a high level of integrity. Although the building appears to be a locally rare example of the architectural type within the City of Arcadia, the

[21] McAlester, Virginia and Lee. 1992. *A Field Guide to American Houses*. New York, NY: Alfred A. Knopf.

design and character-defining features do not rise to the level of significance for designation at the state or national level because in the context of the state and the nation, other better examples of the Italian Renaissance style are extant.

The Arcadia Congregational Church was constructed at the eastern end of the parcel in 1962 and is a Mid-century Modern-style church with a low-pitched gabled roof; wide overhanging eaves; exposed roof beams on the northern, western, and southern façades; clerestory windows along the roofline on the northern façade; brick façade; and a wall of glass windows on the southern façade which opens to an interior courtyard. These features are common in a Mid-century Modern building according to *A Field Guide to American Houses* by Virginia Savage McAlester. This style was favored by many American architects from 1945 to 1965 with clean lines and innovative materials such as large glass walls for indoor/outdoor continuity.[22] The church was also designed by noted local architecture firm Orr, Strange, Inslee, and Senefeld, who was known for their religious architecture in Southern California. The firm designed several Mid-century Modern-style churches in the area, but the Arcadia Congregational Church is the only one located in Arcadia, making it a locally rare example of the type in the city. The building exhibits the distinctive features of a Mid-century Modern-style building and no alterations are visible giving it a high level of integrity. Although the building is a prominent example of the architectural style designed by a noted local architect in the City of Arcadia, its design and character-defining features do not rise to the level of significance at the state or national level because in the context of the state and the nation, other better examples of Mid-century Modern churches are extant. The building conveys character-defining features of the Mid-century Modern-style as noted above, but the features are not high-style enough to be eligible on a state or national level. Additionally, the building was designed by prominent local church architecture firm Orr, Strange, Inslee, and Senefeld, yet the Wilshire Christian Church, Covenant Presbyterian Church, the Westchester Lutheran Church, and the St. Stephen's Lutheran Church in Los Angeles are higher style examples of the firm's work. Therefore, the subject property is ineligible for listing in the National Register under Criterion C.

National Register Criterion D

Criterion D was not considered in this report as it generally applies to archaeological resources. Additionally, there is no reason to believe the property has the potential to yield important information regarding prehistory or history.

9.2 CALIFORNIA REGISTER OF HISTORICAL RESOURCES

The California Register eligibility criteria mirror those of the National Register. Therefore, the subject property is not eligible for listing in the California Register for the same reasons outlined above.

9.3 CITY OF ARCADIA HISTORIC LANDMARK

Historic Landmark Criterion 1

The property was originally developed as part of the Santa Anita Colony Tract which was recorded in 1891 for E.J. "Lucky" Baldwin. The parcel was purchased in 1924 by Prince Erik of Denmark, who built a family home for himself and his new wife and operated the land as a small-scale poultry farm. Poultry farming was very popular in the City of Arcadia during the early 20th century, becoming one of the leading suppliers of eggs to the City of Los Angeles. Yet, no information was found to suggest

[22] McAlester, Virginia and Lee. 1992. *A Field Guide to American Houses*. New York, NY: Alfred A. Knopf.

that this farm was significantly tied to the poultry industry in Arcadia during this time. Numerous small-scale farms operated in the area during this time, with the area remaining heavily agricultural until the 1950s. The farm is not associated with events that made significant contribution to the broad patterns of our history and does not convey any integrity as a poultry farm from the early 20th century. Therefore, the subject property is ineligible for listing as a Historic Landmark under Criterion 1.

Historic Landmark Criterion 2

No information was found to suggest that any of the previous owners or residents made demonstrably significant contributions to the history of the nation, state, or region, or that any other individuals of historical significance were associated with the property. Although Prince Erik was well known throughout the community, he is not associated with any significant events and did not make any contributions to the development of the City. Therefore, the subject property is ineligible for listing as a Historic Landmark under Criterion 2.

Historic Landmark Criterion 3

The subject property consists of a Mid-century Modern church constructed in 1962 and an Italian Renaissance residence (now hall) constructed in 1924.

The subject property is not eligible for listing as a City of Arcadia Historic Landmark under Criterion 3 for embodying the distinctive characteristic of a type, period, or method of construction because Government Code Section 37361 limits the ability of local governments to impose historical designations on church properties and exempts them from such local processes, it also is not eligible under the local criteria. See, e.g., The *California-Nevada Annual Conference of the United Methodist Church v. The City and County of San Francisco*, 173. Cal. App. 4th 1559 (2009) (local proceedings "unquestionably are beyond the city's jurisdiction").

Historic Landmark Criterion 4

Criterion 4 was not considered in this report as it generally applies to archaeological resources. Additionally, there is no reason to believe the property has the potential to yield important information regarding prehistory or history.

SECTION 10
CONCLUSION

Based upon research and analysis, the subject property located 2607 Santa Anita Avenue, City of Arcadia, Los Angeles County does not appear to be individually eligible for listing in the National Register or the California Register due to lack of sufficient historical merit. Because Government Code Section 37361 limits the ability of local governments to impose historical designations on church properties and exempts them from such local processes, it also is not eligible under the local criteria. See, e.g., The *California-Nevada Annual Conference of the United Methodist Church* v. *The City and County of San Francisco*, 173. Cal. App. 4th 1559 (2009) (local proceedings "unquestionably are beyond the city's jurisdiction."). Therefore, the buildings are not historical resources pursuant to CEQA.

SECTION 11
REFERENCES

Ancestry.com. 2012. *1940 United States Federal Census*. Provo, UT: Ancestry.com Operations, Inc.

Arcadia Congregational Church. Home page. Accessed November 2019 Available at: http://www.arcadiaucc.org/index.htm

California Office of Historic Preservation. 1999. *California State Law and Historic Preservation*, 4853 (c), p. 66.

Catholic Church Extension Society of USA. "Mission." Accessed November 2019. Available at: https://www.guidestar.org/profile/36-6000520

City of Arcadia. "City of Arcadia: Citywide Historic Context Statement." 11 January 2016. Prepared by Architectural Resources Group. Available at: https://www.arcadiaca.gov/Shape%20Arcadia/Development%20Services/historic%20preservation/Arcadia%20HCS_11-16_FINAL.pdf

City of Los Angeles. September 2017. "Los Angeles Citywide Historic Context Statement, Context: Public and Private Institutional Development, 1850–1980, Sub-Context: Government Infrastructure and Services, 1850–1980, Theme: Municipal Fire Stations, Subtheme: Post World War II Fire Stations, 1947–1963." Available at: https://planning.lacity.org/odocument/b0aa3610-b466-4731-9072-eabb4c59c178/MunicipalFireStations_PostWWIIFireStations_1947-1963.pdf

"Ground Broken for Modern Congregational Church Here." 29 June 1961. *Arcadia Tribune* (Arcadia, CA), p. 1.

"Kuchel Speaks Sunday and Church Dedication." 8 March 1962. *Arcadia Tribune* (Arcadia, CA), p. 1.

Libby, Carol. September 2017. "Prince Erik Hall." Accessed November 2019. Available at: http://arcadiasbest.com/2017/09/prince-erik-hall/

Los Angeles County Public Works. *Land Records Viewer*. Accessed November 25, 2019. Available at: https://pw.lacounty.gov/sur/nas/landrecords/misc/MR042/MR042-087.pdf

McAlester, Virginia and Lee. 1992. *A Field Guide to American Houses*. New York, NY: Alfred A. Knopf.

National Park Service, U.S. Department of the Interior. 2017. "How to Apply the National Register Criteria for Evaluation." *National Register Bulletin*. Available at: https://www.nps.gov/nr/publications/bulletins/nrb15/

Today in Ottawa's History. 13 December 2014. "Ill-Starred Royal Romance." Accessed November 2019. Available at: https://todayinottawashistory.wordpress.com/2014/12/13/ill-starred-royal-romance/

Townsquare Publications. 2019. "History." Accessed November 2019. Available at: https://townsquarepublications.com/arcadia-history/

University of California Los Angeles. Circa 1928. "Drawing of Women's Cub Clubhouse by architect Robert H. Orr, Azusa. *Los Angeles Times* Photograph Collection. Available at: https://dl.library.ucla.edu/islandora/object/edu.ucla.library.specialCollections.latimes:6816

ATTACHMENT A
RESUMES OF KEY PERSONNEL

Sapphos environmental inc.

Carrie E. Chasteen, MS

Historic Resources Manager

Master of Science, (Historic Preservation), School of the Art Institute of Chicago, Chicago, Illinois

Bachelor of Arts (History and Political Science), University of South Florida, Tampa, Florida

- *Cultural resource management and legal compliance*
- *History of California*
- *Architectural History*
- *Cultural History*
- *Identification and evaluation of the built environment*
- *Archival documentation*
- *Historic preservation consultation*
- *Certified Oregon Transportation Investment Act (OTIA) III CS3 Technical Lead*
- *Historic Preservation Commissioner, City of Pasadena*
- *Phi Alpha Theta National Honor Society*

Years of Experience: 18+

Relevant Experience:

- *Historic Evaluation for 54 Parks, Golf Course, and Aboreta Project*
- *Historic Evaluation and Design Review for Fries Avenue Elementary School*
- *Los Angeles Union Station Forecourt and Esplanade Project*
- *Los Angeles Music Center*

Ms. Carrie Chasteen has more than 16 years of experience in the field of cultural resources management and the built environment, including project management, agency coordination, archival research, managing large surveys, preparation of Environmental Impact Statement/ Environmental Impact Report (EIS/EIR) sections, Mitigated Negative Declaration (MND) and Initial Study (IS) sections, peer review, and regulatory compliance. She has served as Principal Investigator / Principal Architectural Historian on projects throughout Los Angeles County. Ms. Chasteen meets and exceeds the Secretary of the Interior's *Professional Qualification Standards* in the fields of History and Architectural History. She has extensive experience with the City of Los Angeles Office of Historic Resources (OHR), California Office of Historic Preservation, California Department of Transportation (Caltrans), County of Los Angeles Department of Parks and Recreation, and various other state, county, and local government agencies.

On behalf of the County of Los Angeles (County) Department of Parks and Recreation, Ms. Chasteen is managing the documentation and evaluation of 54 parks, golf courses, and arboreta. The historic evaluations assess County facilities that were identified as priorities due to the age of the facility, architect of record, or affiliation with event of importance to the history of development of Los Angeles County. The historic evaluations consider eligibility for listing on the National Register of Historic Places, the California Register of Historical Resources, the standards provided in CEQA, and the County Register of Landmarks and Historic Districts. The results documented in the historic evaluations were used by the County to address future projects in the facilities, alter plans as needed, and to inform a Cultural Resources Treatment Plan (CRTP) and Worker Environmental Awareness Program (WEAP) training.

On behalf of the Los Angeles Unified School District (LAUSD), Ms. Chasteen prepared a historical evaluation of the Fries Avenue Elementary School. The evaluation tiered off the historic context and registration criteria developed for the award-winning LAUSD Historic Context Statement, 1870 to 1969. The property was determined to be a historical resource pursuant to CEQA. As a result, Ms. Chasteen also reviewed the design of the proposed campus revisions to determine if the proposed project complied with the Secretary of the Interior's *Standards for the Treatment of Historic Properties*.

On behalf of the County of Los Angeles, Ms. Chasteen reviewed plans for the proposed renovation of the plaza at the Los Angeles Music Center. Design refinements were suggested and implemented in order to reduce impacts to the plaza and it's character-defining features.

Ms. Chasteen is a member of the Society of Architectural Historians, National Trust, California Preservation Foundation, Los Angeles Conservancy, Pasadena Heritage, and currently serves as a City of Pasadena Historic Preservation Commissioner.

Sapphos environmental inc

Kasey M. Conley, MHC

Architectural Historian

Master of Heritage Conservation, USC, Los Angeles, CA

- *Identification and evaluation of built environment*
- *Cultural history*
- *History of California*
- *Archival documentation*
- *Historic preservation*

Years of Experience: 3

Relevant Experience:

- *CEQA documentation for Exposition Park and Descanso Master Plans*
- *Descanso Garden Historic District National Register Nomination*
- *Jane's Village Historic District Survey and Evaluation*
- *Manhattan Beach Context Statement*

Ms. Kasey Conley has three years of experience in the field of cultural resources management and the built environment, including archival research, district and resource surveys, preparation of National Register of Historic Places nominations, and regulatory compliance. She meets and exceeds the Secretary of the Interior's *Professional Qualifications Standards* in the fields of History and Architectural History.

Ms. Conley has served on projects in Los Angeles County and has experience with the California Office of Historic Preservation; the County of Los Angeles Department of Parks and Recreation; the City of Los Angeles; and various other state, county, and local government agencies.

Ms. Conley has prepared National Register nomination forms for historic districts such as Leimert Park in South Los Angeles and the Descanso Gardens Historic District in Pasadena and individual resources such as Engine Co. 54 in Hyde Park. Ms. Conley has supported the preparation of CEQA documents for the Exposition Park Master Plan and the Descanso Gardens Master Plan. Ms. Conley has worked on several historic resource assessment reports within the cities of Los Angeles, Glendale, San Marino, and Rancho Cucamonga. Ms. Conley has also worked with the County of Los Angeles in the survey and evaluation of the Jane's Village Historic District.

Appendix E-1

Wet Utilities Will Serve Letter

City of Arcadia

Public Works Services Department

Tom Tait
Public Works Services Director

June 24, 2021

Kristin L. Starbird
Dudek
38 N. Marengo Avenue
Pasadena, CA 91101

RE: Will Serve Notice for the 2607 S. Santa Anita Avenue Project

Dear Kristin L. Starbird:

The City of Arcadia has potable water and sanitary sewer facilities to serve the proposed project at 2607 S. Santa Anita Avenue, Arcadia.

An 12" cast iron water main with 62 psi static pressure is available on Santa Anita Avenue for domestic water and/or fire services.

An 8" VCP sewer main is available on Santa Anita Avenue.

If you have any questions or concerns regarding this matter, please feel free to contact me at (626) 254-2713.

Sincerely,

Eddie Chan, P.E.
Principal Civil Engineer

11800 Goldring Road
Post Office Box 60021
Arcadia, CA 91066-6021
(626) 254-2720
(626) 359-7028 Fax
www.ArcadiaCA.gov

Appendix E-2

Dry Utilities Will Serve Letter

Monday, June 7, 2021 at 12:54:36 Pacific Daylight Time

Subject: RC Homes - Arcadia 33 - 2607 S Santa Anita Ave - Quitclaim Request
Date: Thursday, May 20, 2021 at 12:31:53 PM Pacific Daylight Time
From: Reed A. Reznicek
To: Timothy Sales
CC: John Fitzpatrick
Category: RC-Arcadia

Good Afternoon –

Below is the email from the SCE planner stating that he intends to approve the quitclaim once the existing overhead facilities are relocated.

Please let me know if you have any questions or need additional information. Thank you!

Best Regards,

Reed A. Reznicek
BJ Palmer & Associates, Inc.
760-390-7584
rreznicek@bj-palmer.com

From: Juaune Armon <Juaune.Armon@sce.com>
Sent: Thursday, May 20, 2021 12:17 PM
To: Reed A. Reznicek <rreznicek@bj-palmer.com>
Cc: Kenneth Bellerose <Kenneth.Bellerose@sce.com>; Michael Marshall <Michael.Marshall@sce.com>
Subject: RE: (External):RE: (External):RC Homes - Arcadia 33 - 2607 S Santa Anita Ave - Quitclaim Request

Hi Reed,

Yes, once the feed point for our existing overhead facilities crossing this lot are relocated in the field through the new path we discussed a few months ago, it is my intent to approve a quitclaim request for said facilities at that time.

Hopefully this email statement is sufficient. If the city needs something more official, I will likely need to consult with internal partners who have greater knowledge of what, if anything, we can provide above and beyond an email statement.

Thanks,

Juaune Armon
Planning, Senior Specialist
Southern California Edison
New Development Planning / PIV 3
Cell: (626) 590-3184

ARCADIA PLANNING COMMISSION
REGULAR MEETING MINUTES
TUESDAY, OCTOBER 12, 2021

CALL TO ORDER Chair Wilander called the meeting to order at 7:02 p.m. in the Council Chamber.

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Chair Wilander, Commissioners Chan, Thompson, and Tsoi
ABSENT: Vice Chair Lin

It was moved by Commissioner Chan, seconded by Commissioner Thompson to excuse Vice Chair Lin from the meeting. Without objection, the motion was approved.

SUPPLEMENTAL INFORMATION FROM STAFF REGARDING AGENDA ITEMS

There was no supplemental information.

PUBLIC COMMENTS (5 minute time limit per person)

There were none.

PUBLIC HEARING

1. **Resolution No. 2083** – Approving Conditional Use Permit No. CUP 21-03 with a Categorical Exemption under the California Environmental Quality Act (CEQA) for a new speakeasy-style bar and lounge and a nail salon at the front portion of the unit at 144 E. Huntington Drive

   Recommendation: Adopt Resolution No. 2083

   Applicant: Scott Chen of Urban Cowboys, LLC.

   Chair Wilander introduced the item and Assistant Planner Edwin Arreola presented the staff report.

   Chair Wilander asked if the Applicant would like to speak on the item.

   Business owner and Applicant Scott Chen responded, and answered several questions of the Commissioners related to the business and operation.

   Chair Wilander opened the public hearing and asked if there were any speakers in support or opposition to the item.

   There were no speakers for the item.

MOTION- PUBLIC HEARING

It was moved by Commissioner Chan, seconded by Commissioner Thompson, to close the public hearing. Without objection, the motion was approved.

DISCUSSION

Commissioner Thompson stated that the proposed business hours are consistent with other bars nearby. Parking may be an issue, especially while the public lot across the street is under construction for the Huntington Plaza mixed-use project. Aside from that, street parking should be adequate. The Police and Fire Department had no issues with the proposal, and the Alhambra Police Department wrote a letter of support of the Applicant and his existing business in Alhambra. He was able to make the required findings and was in favor of approval.

Commissioner Chan was in support of the proposal. He was impressed with the letter of recommendation from the Alhambra Police Department, and the success of the Applicant's current business in Downtown Alhambra which has been in operation since 2012. He mentioned, potentially for a future discussion, that Arcadia security staff should go through a background check through the City's Police Department; however, that may not be an issue since the Applicant's current business since he has not had any issues.

Commissioner Tsoi echoed the supportive comments of the other Commissioners and noted the well-thought-out business concept.

Chair Wilander was also in support of the project and the letter of support. She is glad that the door at the rear of the business is for emergency-only, to avoid protentional disruption to the neighbors. She wished the Applicant well.

MOTION

It was moved by Commissioner Chan, seconded by Commissioner Tsoi to adopt Resolution No. 2083, approving Conditional Use Permit No. CUP 21-03 with a Categorical Exemption under the California Environmental Quality Act (CEQA) for a new speakeasy-style bar and lounge and a nail salon at the front portion of the unit at 144 E. Huntington Drive and find that the project satisfies the requisite findings

ROLL CALL

AYES: Chair Wilander, Commissioners Chan, Thompson, and Tsoi
NOES: None
ABSENT: Vice Chair Lin

There is a ten day appeal period after the adoption of the Resolution. If adopted, appeals are to be filed by 5:30 p.m. on Monday, October 25, 2021.

2. **Resolution No. 2082** – Approving Multiple Family Architectural Design Review No. MFADR 20-03 and Tentative Parcel Map No. TPM 20-04 (83206) with a Categorical Exemption under the California Environmental Quality Act (CEQA) for a four-unit multi-family residential condominium development at 43 Genoa Street

Recommendation: Adopt Resolution No. 2082

Applicant: Thomas Li of Prestige Design, Planning and Development, Inc.

Chair Wilander introduced the item and Associate Planner Vanessa Quiroz presented the staff report.

Commissioner Thompson noted a discrepancy on the site plan, which shows “Bedroom 2” twice. Ms. Quiroz noted the correction.

Chair Wilander asked if the Applicant would like to speak on the item.

Applicant Thomas Li responded.

Chair Wilander opened the public hearing and asked if there were any speakers in support or opposition to the item.

There were no speakers for this item.

MOTION- PUBLIC HEARING

It was moved by Commissioner Thompson, seconded by Commissioner Tsoi, to close the public hearing. Without objection, the motion was approved.

DISCUSSION

Commissioner Thompson was in favor of approval of the project. The design is well-thought out, and the proposal is consistent with the General Plan, R-3 zoning, and the site is physically suitable for the type and density of the development.

Commissioner Chan concurred, and noted the Applicant’s history of work in the City. The new development would be a welcome addition to the neighborhood.

Commissioner Tsoi was in support of the project, and complemented Mr. Li on the design.

Chair Wilander also appreciated the design and stated that the project satisfies the required findings.

MOTION

It was moved by Commissioner Thompson, seconded by Commissioner Tsoi to adopt Resolution No. 2082, approving Multiple Family Architectural Design Review No. MFADR 20-03 and Tentative Parcel Map No. TPM 20-04 (83206) with a Categorical Exemption under the California Environmental Quality Act (CEQA) for a four-unit multi-family residential condominium development at 43 Genoa Street

ROLL CALL

AYES: Chair Wilander, Commissioners Chan, Thompson, and Tsoi
NOES: None
ABSENT: Vice Chair Lin

There is a ten day appeal period after the adoption of the Resolution. If adopted, appeals are to be filed by 5:30 p.m. on Monday, October 25, 2021.

CONSENT CALENDAR

3. Minutes of the September 14, 2021 Regular Meeting of the Planning Commission

Recommendation: Approve

It was moved by Commissioner Chan, seconded by Commissioner Tsoi to approve the minutes of the September 14, 2021 Planning Commission Regular Meeting.

ROLL CALL

AYES: Chair Wilander, Commissioners Chan, Thompson, and Tsoi
NOES: None
ABSENT: Vice Chair Lin

MATTERS FROM CITY COUNCIL LIAISON

Council Member Beck informed the Commissioners that he recently returned from a vacation from Europe; the Metro Gold Line bridge over Santa Anita Avenue can be changed colors for various significant events; Lastly, there will an unveiling ceremony of the Anita Baldwin statue on October 25, 2021 at 11:00 a.m. at the Le Meridien Hotel, and he invited the Commissioners to attend.

MATTERS FROM THE PLANNING COMMISSONERS

Commissioner Chan inquired about whether elevators are required in three-story commercial buildings. And he also asked if artificial turf was allowed in the City, because in some cases, it can look better than drought-tolerant landscaping.

Ms. Flores said that she would look into Commissioner Chan's inquiry regarding elevators in commercial buildings. Regarding artificial turf, it is allowed up to a certain percentage on private property and is not allowed in the City right-of-way.

Commissioner Thompson inquired as to whether SB 9 applies to high fire hazard areas.

Assistant City Attorney Maurer stated that exemptions under SB 9 are currently being examined. Within the next month or so, his firm will provide an update.

Commissioner Thompson also commented on the new requirements under SB 1383 related to organic waste recycling.

Chair Wilander inquired about the traffic issues on Baldwin Avenue as a result of Boba Express.

Ms. Flores stated that some improvements have been made to address traffic concerns. She added that the property owner is attempting to rent the adjacent building on the lot, and they are trying to resolve the on-site circulation as well as the back-out issue from Boba Express. They have been working with our City Engineer on this matter.

MATTERS FROM ASSISTANT CITY ATTORNEY

Assistant City Attorney Maurer had nothing to report.

MATTERS FROM STAFF INCLUDING UPCOMING AGENDA ITEMS

Ms. Flores announced that the Business License Revocation that was heard at the September 28, 2021 Business Permit and License Review Board Special Meeting has been appealed. It will be scheduled for City Council consideration in November.

On November 9, 2021, there is one item before the Planning Commission – a 33-unit residential development at 2607 S. Santa Anita Avenue.

ADJOURNMENT

The Planning Commission adjourned the meeting at adjourned at 8:06 p.m., to Tuesday, October 26, 2021 at 7:00 p.m. in the City Council Chamber.

Marilynne Wilander
Chair, Planning Commission

ATTEST: _____
Lisa Flores
Secretary, Planning Commission