RECIRCULATED DRAFT EIR

FOR THE

TRACY COSTCO DEPOT ANNEX PROJECT

(SCH # 2020080531)

DECEMBER 2023

Prepared for:

City of Tracy
Planning Division
333 Civic Center Plaza
Tracy, CA 95376

Prepared by:

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De Novo Planning Group

A Land Use Planning, Design, and Environmental Firm

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1.1 INTRODUCTION

The City of Tracy prepared and publicly circulated a Draft Environmental Impact Report (EIR) for the proposed Tracy Costco Depot Annex Project (proposed Project) on September 16, 2022, inviting comment from the general public, agencies, organizations, and other interested parties. A Notice of Availability (NOA) was filed with the State Clearinghouse (SCH # 2020080531) and the County Clerk, and was published in a local newspaper pursuant to the public noticing requirements of the California Environmental Quality Act (CEQA). The Draft EIR was available for public review and comment from September 16, 2022 through October 31, 2022.

Pursuant to the CEQA Guidelines Section 15088.5 (a), a lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice is given of the availability of the EIR for public review under Section 15087 but before certification of the EIR. New information can include changes in the project or environmental setting as well as additional data or other information. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. As identified in Section 15088 (a) of the CEQA Guidelines, "significant new information" requiring recirculation is defined to include disclosures of any of the following:

1. A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
2. A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
3. A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponents decline to adopt it.
4. The Draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

1.2 SUMMARY OF THE REVISIONS TO THE DRAFT EIR

Upon review of certain comments received on the Draft EIR during the prior (2022) public comment period, the City concluded that the air quality and greenhouse gas quantitative analyses should be revised to employ more conservative assumptions concerning the distance that project trucks may travel. This Recirculated Draft EIR employs models of emissions that have been rerun assuming that the average trip length for all project truck trips is 29 miles. This reflects the average truck trip length within the county transportation model. The county model is actually a three-county model covering San Joaquin, Stanislaus and Merced Counties, all of which are within the San Joaquin Valley Air Pollution Control District boundaries. The Sierra Club, in its comments on the Draft EIR, had suggested that the Draft EIR assume average truck trip lengths of 25 miles, so the assumptions within this document are more conservative than that suggestion. Because the increased truck travel

distances lead to air quality impacts that are substantially more severe than indicated in the Draft EIR, the City has prepared this Recirculated Draft EIR.

In addition, the Project applicant responded to the comments on the Draft EIR by incorporating into the proposed Project numerous new and additional sustainability measures and strategies to reduce emissions and vehicle trips.[1] The Project Description chapter and the other sections herein have been updated to reflect such Project commitments, as well as other Project refinements (such as construction schedule, etc.).

In accordance with CEQA Guidelines Section 15088.5 (c), if the revision is limited to a few chapters or portions of the EIR, the lead agency need only recirculate the chapters or portions that contain significant new information. This Recirculated Draft EIR includes the following chapters:

- Chapter 1.0: Introduction
- Chapter 2.0: Project Description
- Section 3.3: Air Quality
- Section 3.7: Greenhouse Gases, Climate Change and Energy
- Chapter 4.0: Other CEQA-Required Topics

These chapters will substitute for and supersede those contained in the previously-circulated Draft EIR. Those chapters and sections of the previously-circulated Draft EIR that are not listed above remain valid and are operative and effective parts of the overall EIR. Although the Project's air quality impacts are more severe than evaluated in the Draft EIR and the Project is expected to generate a higher quantity of greenhouse gas emissions, the significance determinations for all impacts have not changed compared to those in the Draft EIR. Therefore, the Executive Summary is unaltered; likewise, the Alternative analysis and comparison of impacts between alternatives is unaffected.

1.3 COMMENTING ON THE RECIRCULATED DRAFT EIR

This Recirculated Draft EIR will be circulated for public comment for a period of 45 days. Pursuant to CEQA Guidelines Section 15088.5(f), recirculating an EIR can result in the lead agency receiving more than one set of comments from reviewers. The lead agency may request that reviewers limit their comments to only the revised chapter or portions of the Recirculated EIR. Accordingly, in this case, reviewers should limit their comments to only the new information provided in the Recirculated Draft EIR (i.e., Chapter 1.0, Chapter 2.0, Section 3.3, Section 3.7, and Chapter 4.0). Following the close of the public comment period on this Recirculated Draft EIR, the City will prepare responses to (a) the comments received during the original Draft EIR public review period on all sections of the Draft EIR not contained within this Recirculated Draft EIR and (b) all comments received on this Recirculated Draft EIR concerning the sections in this recirculated document. By way of example, all comments on the Biological Resources section that were received during the earlier public comment period on the Draft EIR will be responded to, but comments received on the Air Quality section during the earlier public comment period on the Draft EIR will not be responded

[1] See letter from Christine Lasley, Costco, to Victoria Lombardo, City of Tracy.

to. However, responses will be prepared for all comments received on the Air Quality section within this Recirculated Draft EIR.

Written public comments may be submitted to the City's Planning Division during the specified public review and comment period. Written comments should be delivered in person or by courier service, or be sent by mail or email to:

Attn: Victoria Lombardo, Senior Planner
City of Tracy, Planning Division
333 Civic Center Plaza
Tracy, CA 95376
(209) 831-6428
victoria.lombardo@cityoftracy.org

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2.1 PROJECT LOCATION

The Project site is located at 16000 West Schulte Road in unincorporated San Joaquin County, California (Figures 2.0-1 and 2.0-2). The Project site is within the Tracy Sphere of Influence (SOI) 10-Year Planning Horizon and is immediately adjacent to the Tracy city limits to the north of the site.

The Project site is immediately south of the intersection of Bud Lyons Way and West Schulte Road. The Project site is bounded on the north by West Schulte Road, on the west by an unnamed driveway serving the adjacent rural residence, on the south by the Delta Mendota Canal, and on the east by vacant agricultural land. The Project site is located within Sections 35 of Township 2 South, Range 4 East Mount Diablo Base Meridian (MDBM). Figures 2.0-1 and 2.0-2 show the Project's regional location and vicinity.

2.2 PROJECT SITE DEFINED

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Draft EIR to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 104.46 acres and includes the whole of the Project, including the proposed 103.0-acre Development Area, and 1.46 acres of land along the Delta Mendota Canal (which would not be developed as part of the proposed Project).
- **Development Area** – includes a 103.0-acre parcel (Assessor's Parcel Number [APN] 209-230-02) that is intended for the development of up to 1,736,724 square feet (sf) of industrial uses.

2.3 PROJECT SETTING

EXISTING SITE CONDITIONS

The APN for the Project site is 209-230-02. As noted above, the Project site totals approximately 104.46 acres of undeveloped land previously used for agricultural purposes. The site is regularly disked and mowed for weed abatement. Since the issuance of the Notice of Preparation, the County approved the temporary parking of Costco truck trailers on a portion of the Project site. In order to ensure a conservative analysis, this EIR uses the vacant/undeveloped, on-the-ground conditions that existed at the time the environmental review process commenced with the release of the Notice of Preparation. Figure 2.0-3 shows the aerial view of the Project site.

SITE TOPOGRAPHY

The Project site is relatively flat with natural gentle slope from southwest to northeast. The Project site topography ranges in elevation from approximately 148 to 187 feet above sea level[1].

[1] San Joaquin County GIS; ArcGIS Online USGS Topographic Map Service. Map date: November 1, 2019.

EXISTING SURROUNDING USES

Surrounding land uses include warehouse distribution and other industrial uses to the north (within the Cordes Ranch Specific Plan Area, located in the City of Tracy), vacant agricultural land within unincorporated San Joaquin County to the east, the Delta Mendota Canal and agricultural land within unincorporated San Joaquin County to the south, and a rural residence,[2] CalFire station, and Delta Mendota Canal to the west (within unincorporated San Joaquin County).

2.4 PROJECT GOALS AND OBJECTIVES

Consistent with the California Environmental Quality Act (CEQA) Guidelines Section 15124(b), a clear statement of objectives and the underlying purpose of the proposed Project shall be discussed. The principal objective of the proposed Project is the approval and subsequent construction and operation of the Costco depot annex and Direct Delivery Center (DDC) warehouse facility.

The Tracy Costco Depot Annex Project is intended to achieve the following objectives:

- Construct and operate a new state-of-the-art Costco depot annex and DDC warehouse facility with two separate buildings containing ground-level shipping and receiving truck loading docks along the eastern and western sides that is of sufficient size to efficiently ship, receive, store and distribute regional merchandise and products.
- Annex the property into the City Limits and develop the site with light industrial uses that the City's General Plan already designates the site for.
- Locate an industrial Project in an area with nearby access to a regional roadway network.
- Create approximately 150 to 250 full time jobs along with approximately 400 construction jobs during Project buildout within the City of Tracy, thus improving the local jobs/housing balance.
- Ensure that the industrial area along West Schulte Road continues to be developed in a visually pleasing manner.
- Increase contributions to the City's tax base.
- Reduce energy consumption by incorporating onsite renewable energy generation and storage (solar PV panels and batteries) as well as sustainable design features and systems with enhanced energy efficiencies meeting State and Federal code requirements.
- Locate necessary Costco facilities on a site which can be purchased (rather than leased) in order to protect Costco's substantial investment of time, money and goodwill in the proposed location.
- Locate the facilities in close proximity to Costco's existing distribution operations (i.e., Costco Depot located at 25501 Gateway Blvd, Tracy, CA) and centrally located to service Costco's retail warehouse locations within northern California.
- Provide site ingress access for trucks at one gated access point to manage security of the site. Provide site egress for trucks at two access points to allow for efficient on-site circulation.

[2] The City is currently processing an application to annex this adjacent property at 16286 W. Schulte Road into the City and develop a proposed one-story, approximately 217,466 square foot industrial warehouse and associated truck trailer and employee parking lots thereon. As part of this application, if approved, the single-family residence would be demolished prior to redevelopment of the site.

- Improve services to Costco members, including by making appliances and big/bulky products more readily available.
- Complete the Project on schedule and within budget.

2.5 PROJECT CHARACTERISTICS AND DESCRIPTION

PROJECT CHARACTERISTICS

The Project would include the construction and subsequent operation of two warehouse buildings that would serve as an annex to the existing Costco Depot located approximately 1.5-miles to the west of the Project and as a DDC. The two buildings (approximately 543,526 sf for Building 1 and 1,193,198 sf for Building 2) total approximately 1,736,724 sf on the Project site. The smaller Building 1 is anticipated to serve as the annex by providing additional storage for high-turnover merchandise processed through the nearby Costco Depot, a pallet repair facility, and a return to vendor facility for large items returned to a Costco warehouse. The larger Building 2 is anticipated to serve as a DDC, an ecommerce distribution center primarily for large and bulky items ordered online by Costco members for direct delivery through Market Delivery Operations (MDO) located in various smaller cities in the Northern California region. DDC warehouses distribute ordered goods to the MDOs for delivery (by appointment) to the members. Cold storage would not be provided as part of the proposed Project.[3] The Project also would include the required circulation, parking, and utility improvements.

The site plan is shown in Figure 2.0-4.

Tracy Costco Depot Annex Traffic and Employment

Costco anticipates that approximately 100 trucks and 300 trailers typically would be parked on site, with the typical truck size being approximately 70 feet long for double-axle trailers. Trucks would enter the site from West Schulte Road at the eastern driveway. The proposed eastern driveway would provide two inbound lanes at West Schulte Road that widen to three lanes within the site, each of approximately 2,300 feet, providing on-site storage capacity for up to 90 trucks awaiting processing at the security gate.

It is anticipated that the Project facilities will employ approximately 150 to 250 full-time employees during operation that would work from between 4 a.m. to 11 p.m. daily. The Project is anticipated to generate approximately 400 jobs during the construction phase.

Warehouse Architecture

The proposed warehouse design would be contemporary in style and would use a variety of massing and materials appropriate for the scale of the buildings. Architectural metal with varied textures and horizontal and vertical orientations would be used, while varying parapet cap heights would break up the long elevations both horizontally and vertically. The parapets will also assist in concealing rooftop-mounted mechanical equipment. The proposed architecture places and focuses the design's detailed

[3] That is, there would be no refrigerated warehouse operations or transport refrigeration units (TRUs) as part of the Project. If the Project is approved, the City would include a condition of approval precluding cold uses for the Project.

elements, varied building materials and color changes towards the front of the buildings along West Schulte Road.

Project Sustainability Features

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption and/or promote sustainability. Below are some of the significant practices that Costco would incorporate into its new buildings and overall operations that help reduce emissions and conserve energy and other natural resources:

CONSTRUCTION

- Construction equipment would use Tier IV-compliant engines or better for off-road construction equipment greater than 50 horsepower.
- Through the use of construction worker training and/or signage, Costco would limit heavy duty construction equipment idling to no more than 2 minutes, and in no instance shall such idling exceed 5 minutes.
- Through the use of signage, vehicle speeds on unpaved roads would be limited to < 15 mph.
- Electric hookups would be provided to reduce the need for diesel generators for electric construction equipment and, should diesel generators be needed, all such diesel generators would be equipped with emission control technology verified by EPA and/or CARB to reduce PM emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- A substantial amount of the proposed plant material for new facilities would be native and drought tolerant and would use less water than other common species. Site perimeter and parking lot landscaping would provide vegetated buffers that would include trees, tree canopies and other vegetation.
- Irrigation systems for new facilities include the use of deep root watering bubblers for parking lot trees to minimize water usage and ensure that water goes directly to the intended planting areas.
- Storm water management plans are designed to maintain quality control and storm water discharge rates based on the City's requirements.
- Parking lot lights are designed at 38' in height to provide even light distribution and utilize less energy compared to a greater number of fixtures at lower heights. LED lamps are used to provide a higher level of perceived brightness with less energy than other lamps such as high-pressure sodium.
- Dust, tire wear, brake dust and other parking lot contaminants would be minimized through regular sweeping/cleaning of parking lots.

- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations) to encourage car-pooling, high-occupancy vehicle use and use of non-auto transit.
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the region. Materials such as concrete and concrete masonry units would be purchased local to the Project, minimizing the transport distances and resultant effects to road networks and regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel. These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 MW of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.
- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to ensure that the HVAC systems are performing to the high efficiency standards. HVAC systems would be all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.
- Energy efficient transformers (i.e., Square D Type EE transformers) are used.

- To the extent emergency back-up diesel generators are needed, only Tier IV diesel generator or natural gas-powered engines would be used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%.
- All appliances to be installed would meet or exceed Title 24 requirements.
- All building coatings and paints would be low-VOC coatings.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Construction waste would be recycled whenever possible.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage; thus, no TRUs would be used at the facility.
- Costco delivery trucks would be model year 2010 or newer and use ultra-low sulfur diesel fuel (ULSD) or biodiesel blend with sulfur content of 15 ppm or less so long as such fuel is commercially available.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training would be provided and signage would be installed to ensure that all truck idling is limited to a maximum of two minutes.
- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and limit idling.
- Costco would include signage at docks, delivery areas, and truck routes to facilitate traffic and limit idling.
- This Project's additional warehouse space would provide the existing nearby Tracy Depot distribution facilities with increased capacity and storage of products and Costco would relocate key DDC depot operations from its existing Stockton location to this facility to maximize efficiency and minimize miles traveled for delivery.
- Costco has been an active user of recycled content in packaging for many years and continues to increase its use of recycled content.
- Costco would provide a separate employee parking area accessible by its own curb cut entry and would provide a clearly-delineated, separate pedestrian pathway for employees connecting project buildings to the employee parking area and such pathway would include a lit crosswalk with flashing indicator lights where the path crosses vehicle routes.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each building.
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.

- Costco would provide on-site meal options for employees (e.g., micro market vending machines that offer drink and food for sale to employees, or food trucks [as regulated by Section 10.08.3193 – Mobile Food Vendors of the City's Municipal Code]) to minimize off-site employee trips during shifts.
- Building organic waste (i.e., green waste, wood waste, food waste and fibers such as paper and cardboard) would be recycled to the maximum extent possible and in full compliance with Senate Bill 1383.

Landscape and Stormwater Plan

The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter. The landscape design and plant palette would complement the existing street and building/development landscape character established by Prologis and the International Park of Commerce. The general pattern of landscape islands to be located throughout the employee parking lot would provide the required shading of the vehicle parking area. Four bioretention basins/planters are shown on the site plan located on the northeast and northwest portions of the site to provide for detention and water quality treatment of the storm water runoff generated by the Project. The treatment basin/planters would be landscaped with a variety of grasses and oak trees per the preliminary landscape plan.

In addition to the proposed landscaping on the 103-acre Development Area, the 1.46-acre area outside the Development Area but within the Project site may be improved for landscape and stormwater purposes. The 1.46-acre area, located adjacent to the Delta-Mendota Canal, would be improved with both large rocks and small rock mulch and would continue to be used as an overflow area for the Canal. Additionally, riprap and rock mulch will be incorporated for stormwater and drainage purposes; hardscape or utilities are not proposed for this area.

Project Construction

To ensure the most conservative analysis, this EIR assumes that Project construction will be completed in one phase with a portion of the Project site developed and made operational prior to the remaining portion. Construction is anticipated to be completed within two years after building permits are received and will include construction of the warehouse buildings, as well as all related on-site improvements including the associated parking areas and stormwater features along West Schulte Road.

A construction staging area will be provided on-site, and the entire Project site would be graded as part of the proposed Project construction. The project is designed to have balanced earthwork with no off-haul of excess or import of additional soil needed. The anticipated earthwork quantity will be approximately 424,280 cubic yards of both cut and fill for the construction of both phases, Buildings 1 and 2, and all of that soil will be maintained/utilized on the project site.

CIRCULATION, TRANSPORTATION, AND PARKING

The design of the site locates the office and ancillary/accessory administrative uses at the far northern portion of each of the two buildings, along West Schulte Road, with the warehousing and truck dock

doors located at the center and southern portion of the buildings. Entries to the office and administrative uses are located at the northern end of each building and adjacent to the employee parking areas. An ADA-compliant pedestrian pathway would extend from each building to the northern property boundary, where it would connect to West Schulte Road.

The employee parking lot located on the north side of the site and adjacent to West Schulte Road includes a 30-foot landscape buffer area. Landscape buffers would be provided on all sides of the Project site to provide screening of the buildings and dock doors with various shade trees and drought tolerant shrubs and other vegetation. The preliminary landscape plan is shown in Figure 2.0-5.

Vehicle ingress/egress to/from the Project site will occur from three points along West Schulte Road. The main entry and exit point for employee vehicles would be located at the center of the site, at the existing signalized Bud Lyons Way intersection. The Bud Lyons Way driveway would also serve as a secondary exit with security gates for warehouse trucks, and no truck entry would be permitted. The main Bud Lyon Way driveway access would provide a deceleration lane for eastbound traffic and would have full turning movements to enter and exit the site. The deceleration lane at the Bud Lyons intersection will allow for the safe entry of employee vehicles to the site and access the parking adjacent to and in front of each building.

The second access driveway located at the Project site's northeast boundary includes a new signalized intersection and a deceleration lane for trucks traveling eastbound on West Schulte Road. This driveway would be the entrance for all truck traffic. A shared accessway to the adjacent parcel to the east is also provided with a left turn pocket to provide access to the parcel. The deceleration lane at the eastern intersection will allow for the safe entry of warehouse trucks to access the loading docks and trailer parking surrounding the buildings. The new intersection provides the only truck ingress to the site and also provides a second exit for trucks. This truck entrance/exit provides two inbound lanes at West Schulte Road. Within the site, and past the access to the parcel to the east, the two lanes widen into three lanes, each of approximately 2,300-feet in length. A security building and security gates would be located at the southern end of the site to manage the arrival of trucks. The three inbound lanes together would provide queue storage for up to 90 trucks without queues extending past the access to the adjacent parcel or reaching West Schulte Road. This third access driveway provides one lane for trucks exiting the facility. .

A total of 576 employee parking stalls will be provided on the north side of the buildings. Of these, 15 will be ADA-compliant stalls, with 4 of those being sized for vans. Electric vehicle-designated stalls in an amount required by the applicable building code will include all the electrical infrastructure necessary to support the future installation of charging stations, and the project will immediately activate such EV charging stations as required by the building code. The 576 parking stalls provide no more than the minimum amount of stalls required by the City for an industrial development of this square footage, consistent with the project's energy efficiency commitments noted above. The Project would provide standard parking stalls of 9-foot by 18.5-foot, consistent with the City of Tracy's standards. The site would also include 600 truck and trailer parking stalls around the east, south, and west sides of the buildings.

The employee parking lot and truck and trailer parking areas would be illuminated with standard downward pointing lights, each containing two LED fixtures affixed to a 38-foot foot light pole. The lighting fixtures would be of a "shoe-box" style. Parking lot light standards would be designed to provide even light distribution for vehicle and pedestrian safety as well as site and building security without causing light to spill onto adjacent properties. Lighting fixtures also would be located approximately every 40 feet around the exterior of the warehouse buildings to provide additional lighting for safety and security.

It is noted that the 1.46 acres of land along the Delta Mendota Canal (which would not be developed as part of the proposed Project) would be maintained for drainage and as an access point for Canal-related maintenance.

UTILITIES

The proposed Project would connect to existing City infrastructure to provide water, sewer, and storm drainage utilities. Existing storm drain, sewer, water, and gas lines/pipes are currently located along West Schulte Road.

The Project would be served by the following existing service providers:

1. City of Tracy for water;
2. City of Tracy for wastewater collection and treatment;
3. City of Tracy for stormwater collection;
4. Pacific Gas and Electric Company for gas and electricity.

Utility extensions would be installed to provide services to the Project. Utility lines within the Project site and adjacent roadways would be extended throughout the Project site. Wastewater, water, and storm drainage lines would be connected via existing lines along West Schulte Road. Eight-inch sanitary sewer lines are currently located along West Schulte Road. Additionally, 2-inch water lines are currently located along West Schulte Road. Further, storm drainage lines ranging in size from 12 to 24 inches and a six-inch gas line are currently located along West Schulte Road. The Project intends to supply 100 percent of its electricity demand from renewable sources associated with a combination of onsite generation and direct source renewable purchased energy. Costco has entered into direct source renewable purchase contracts sufficient to supply these needs.

Stormwater treatment/detention basins and stormwater bioretention treatment planters would be located throughout the Project site, mainly in the proposed landscaped areas and along West Schulte Road. The Project site includes seven drainage areas: Area 1 (38.1 acres located along the eastern boundary of the site) Area 2 (36.7 acres located in the center of the site), Area 3 (11.2 acres located along the western boundary of the site), Area 4 (2.8 acres located along the northwestern boundary of the site) Area 5 (1.9 acres located in the eastern portion of the site), Area 6 (0.2 acres located along the northern boundary of the site), and Area 7 (3.6 acres located along the northeastern boundary of the site). Stormwater runoff from each of the seven drainage areas would be routed to a series of on-site stormwater bioretention treatment planters and treatment/detention basins. Figure 2.0-6 shows the stormwater quality control plan and each drainage management area.

Best management practices (BMPs) will be applied to the proposed development to limit the concentrations of constituents in any site runoff to acceptable levels. Stormwater flows from the Project site would be directed to the proposed stormwater treatment basins, treatment planters, and bioretention areas by a new stormwater conveyance system on the Project site. Stormwater runoff would not be allowed to discharge directly to the existing storm drains in West Schulte Road without first discharging to the bioretention areas. The landscaping plan includes stormwater treatment plantings in the treatment/detention basins. Additionally, erosion and sediment control measures would be implemented during construction.

GENERAL PLAN LAND USE AND ZONING

The City and County General Plan land use designations for the Project site and surrounding area are shown on Figure 2.0-7. The zoning is shown on Figure 2.0-8.

General Plan

The Project site is designated as Agriculture by the County's General Plan Land Use Map and is zoned as AG-40 Agriculture by the County. The site is within the City's Sphere of Influence 10-Year Planning Horizon and currently has a City General Plan land use designation of Industrial (I).

Figure 2.0-7 illustrates Tracy General Plan land use within the Project site.

Pre-zoning

The Project site is currently within the jurisdiction of San Joaquin County. Current county zoning for the Project site is AG-40.

The San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Tracy in conjunction with the proposed annexation. The City's pre-zoning will include the Light Industrial (M-1) zoning designation for the Project site. The pre-zoning would go into effect upon annexation into the City of Tracy. The proposed pre-zoning for the Project site is shown on Figure 2.0-8.

ANNEXATION

The Project site is currently within San Joaquin County, and within the City of Tracy's SOI 10-Year Planning Horizon. The proposed Project would result in the annexation of the Annexation Area into the City of Tracy. The EIR analyzes the potential annexation of the parcels into the City of Tracy. Annexation of the Project site is consistent with the growth plans for the City of Tracy. The annexation area would include the entire 104.46-acre Project site.

2.6 USES OF THE EIR AND REQUIRED AGENCY APPROVALS

This EIR may be used for the following direct and indirect approvals and permits associated with adoption and implementation of the proposed Project.

CITY OF TRACY

The City of Tracy is the Lead Agency for the proposed Project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050. If the City Council certifies the EIR in accordance with CEQA requirements, the City may use the EIR to support the following actions:

- Pre-zone of the property to the City's M-1 zoning district;
- Annexation of the Project site into the City (which requires approval by the San Joaquin County LAFCO);
- Development review permit for building design, landscaping, and other site features;
- Building, grading, and other permits as necessary for Project construction;
- Adopting a Mitigation Monitoring and Reporting Program (MMRP).

OTHER GOVERNMENTAL AGENCY APPROVALS

The following agencies may rely on the certified EIR to issue permits or approve certain aspects of the proposed Project:

- Regional Water Quality Control Board (RWQCB) – Construction activities would be required to be covered under the National Pollution Discharge Elimination System (NPDES) and the Storm Water Pollution Prevention Plan (SWPPP) would be required to be approved prior to construction activities pursuant to the Clean Water Act;
- San Joaquin LAFCO – Annexation of the Project site would be required.
- San Joaquin Valley Air Pollution Control District (SJVAPCD) – Construction activities would be subject to the SJVAPCD codes and requirements.

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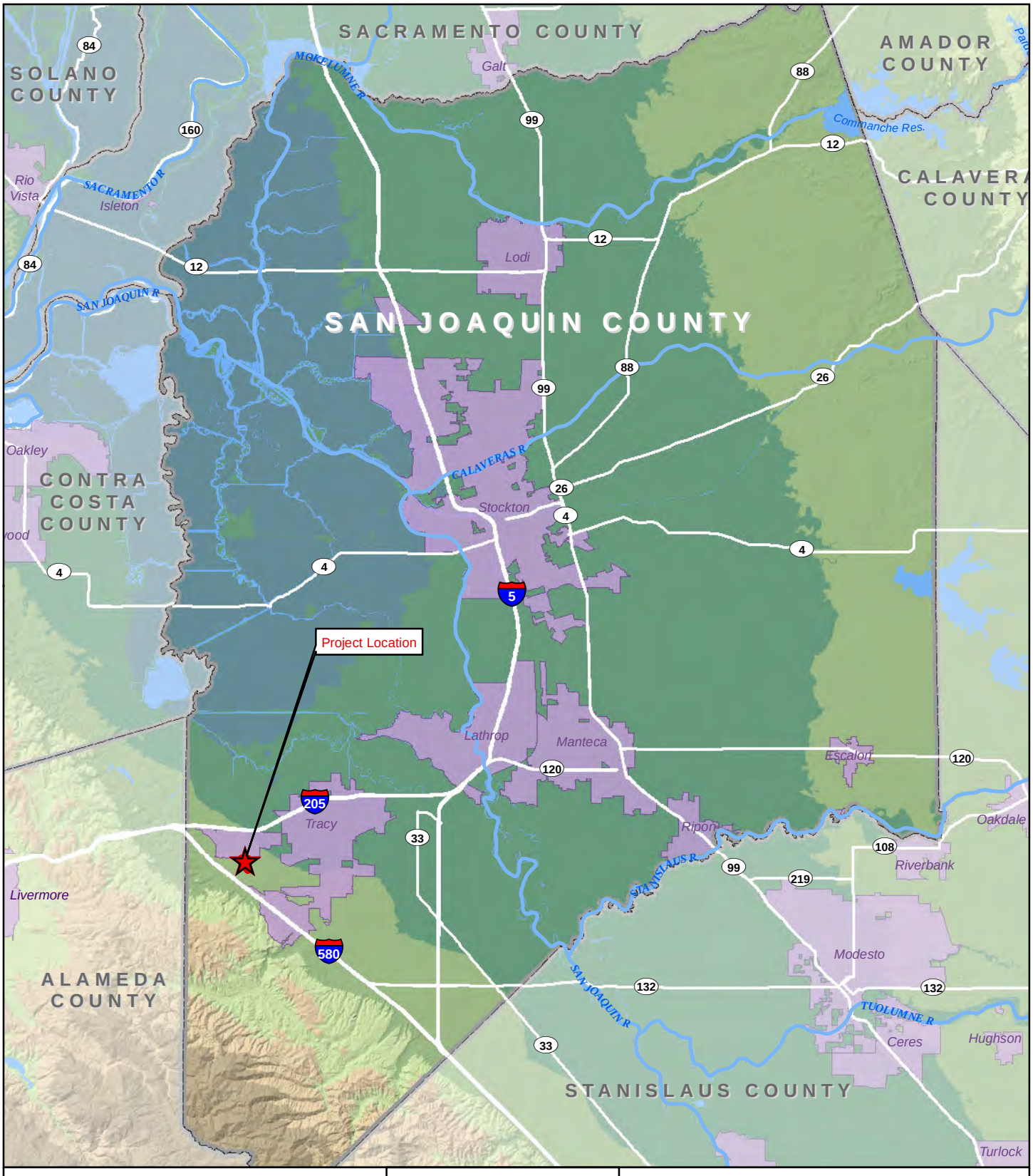

Legend

- Project Location
- County Boundary
- City Area

Sources: CalAtlas; San Joaquin, Stanislaus, Sacramento, Solano, Contra Costa, and Alameda Counties. Map date: October 22, 2019.

N

0 2½ 5

Miles

TRACY COSTCO DEPOT PROJECT

Figure 2.0-1. Regional Location Map

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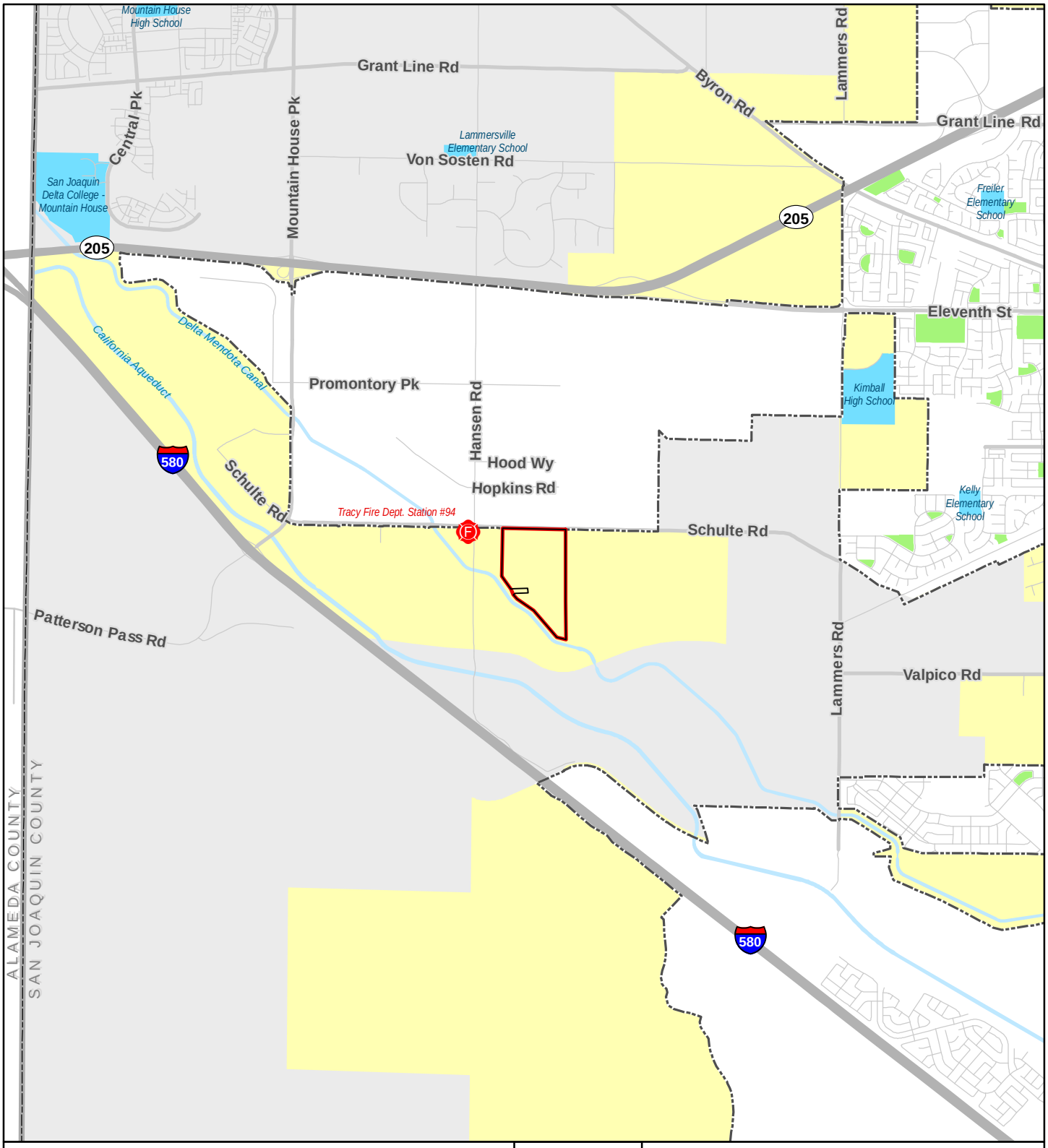

Legend

- Project Site/ Annexation Area
- Development Area
- Tracy City Limits
- Tracy Sphere of Influence
- San Joaquin County
- School
- Park
- Fire Station

N

0 ¼ ½

Miles

Sources: San Joaquin County GIS. Map date: October 25, 2019. Revised: June 28, 2021.

TRACY COSTCO DEPOT PROJECT

Figure 2.0-2. Project Vicinity

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Legend

- Project Site/ Annexation Area
- Development Area
- Tracy City Limits

N

0 500 1,000

Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service.
Map date: October 25, 2019. Revised: June 28, 2021.

TRACY COSTCO DEPOT PROJECT

Figure 2.0-3. Aerial View of Project Site

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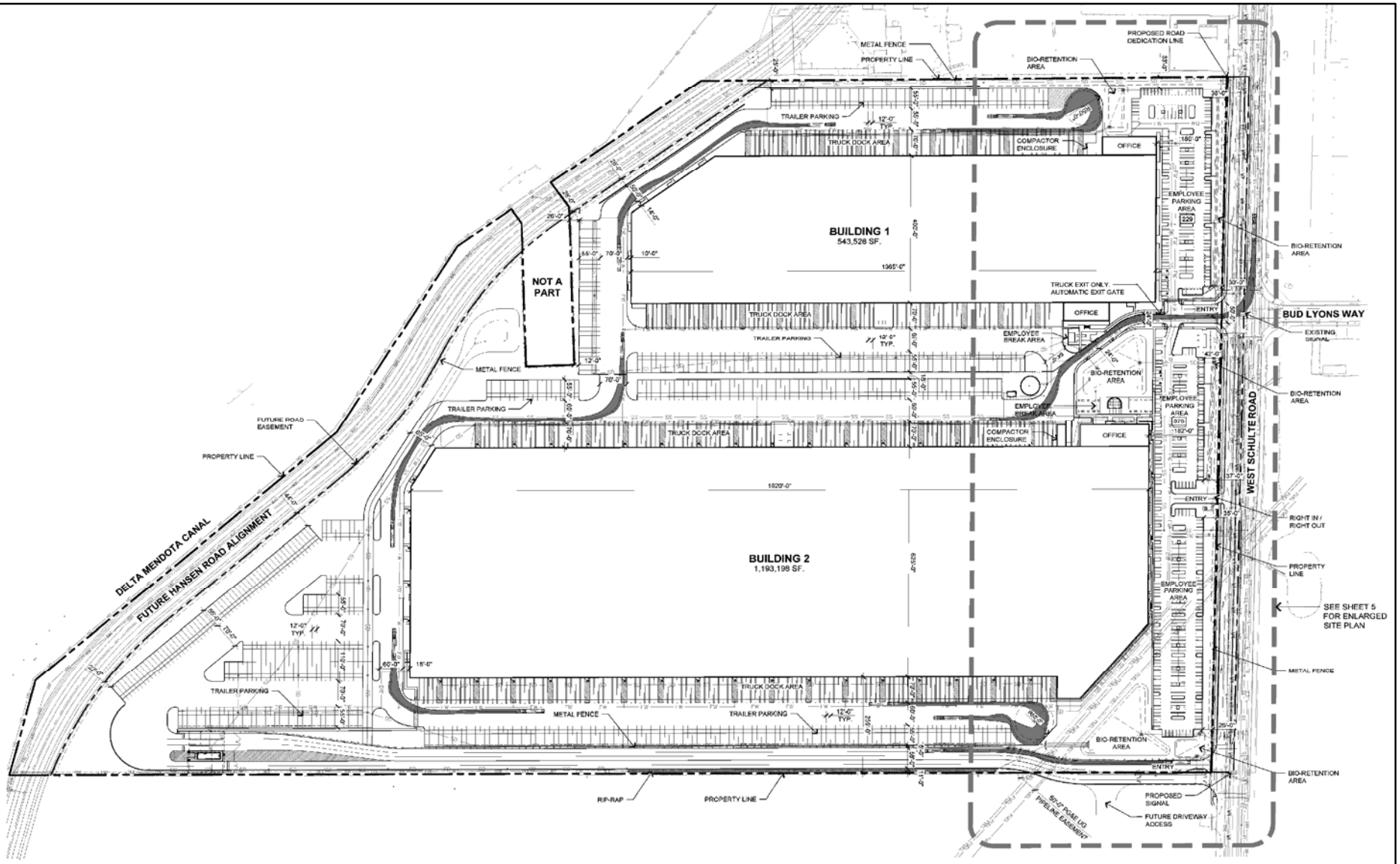

N

0 150 300

Feet

TRACY COSTCO DEPOT PROJECT

Figure 2.0-4.Site Plan

Source: David Babcock + Associates, November 30, 2022. Map date: August 4, 2023..

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TRACY COSTCO DEPOT PROJECT

Figure 2.0-5. Preliminary Landscape Plan

Source: David Babcock + Associates, November 30, 2022. Map date: August 4, 2023..

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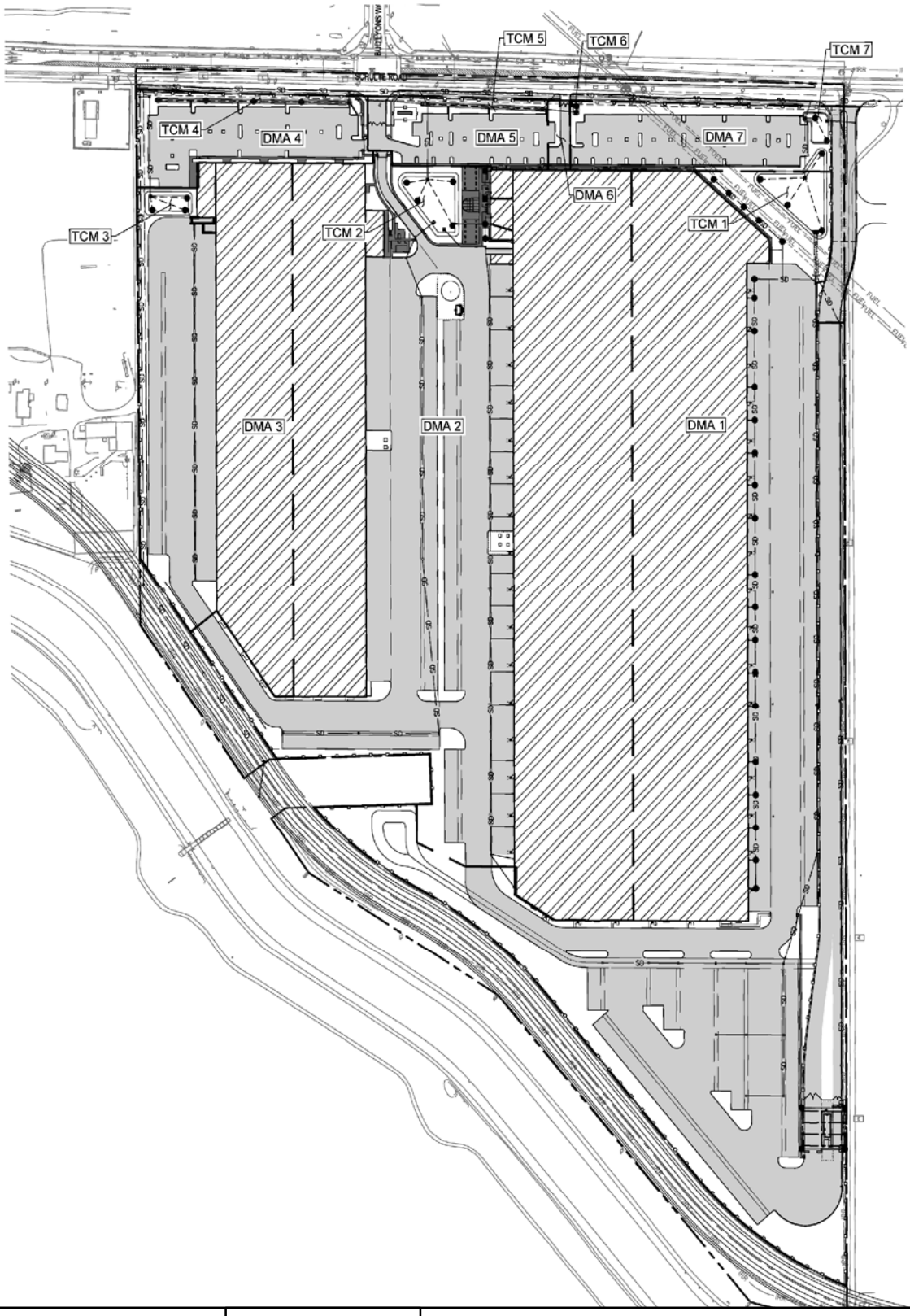

N

0 150 300

Feet

TRACY COSTCO DEPOT PROJECT

Figure 2.0-6. Stormwater Quality Control Plan

Source: Ware Malcomb, 12/2/2022.
Map date: August 4, 2023.

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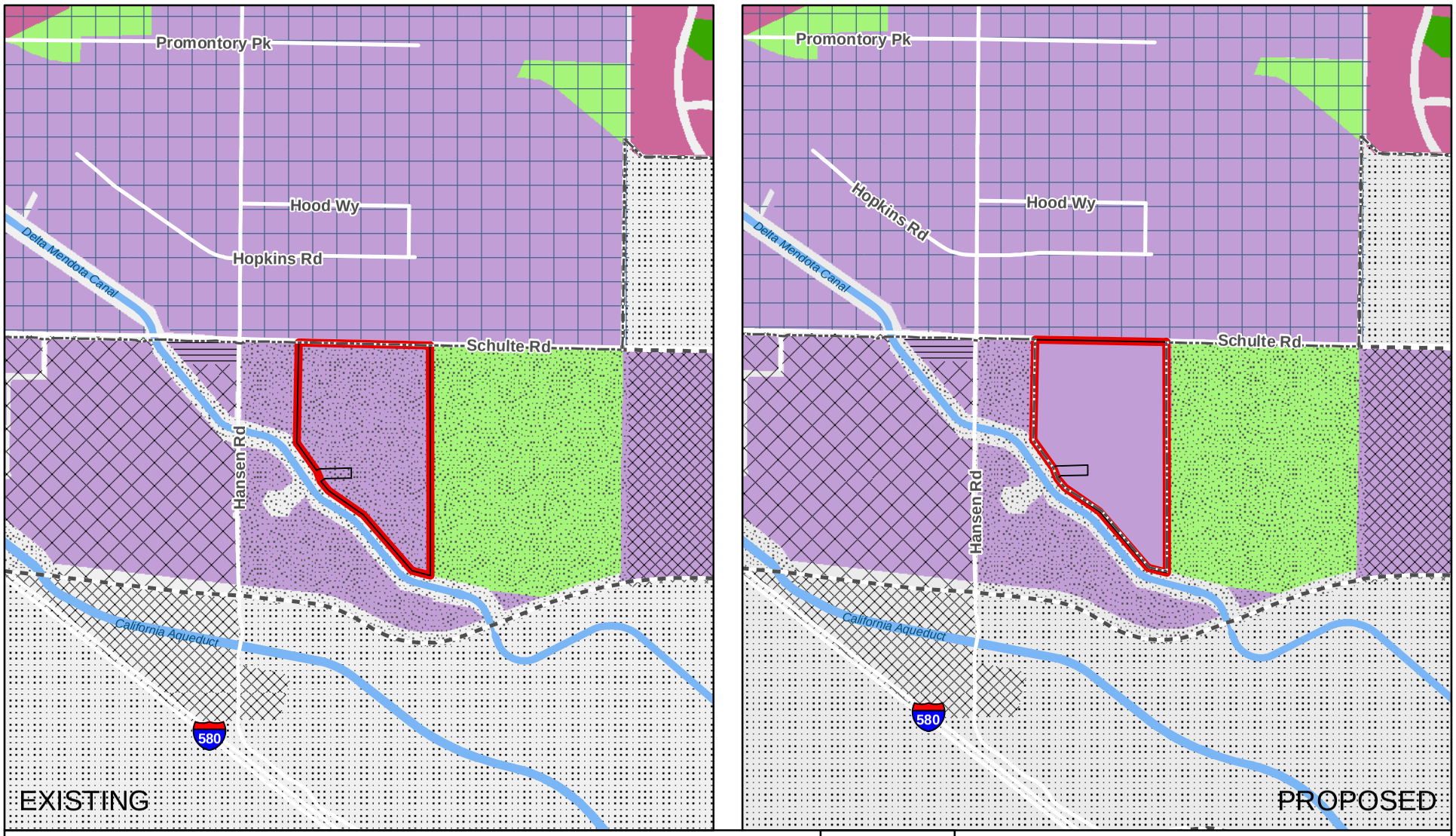

Legend

- Project Site/ Annexation Area
- Development Area
- Tracy City Limits

San Joaquin County Land Use

- Agriculture/General
- Agriculture/Urban Reserve
- Industrial/General
- Industrial/Limited
- Public

City of Tracy Land Use

- Industrial
- Office
- Open Space
- Park
- Urban Reserve 6

N

0 500 1,000

Feet

Sources: San Joaquin County GIS; City of Tracy GIS. Map date: November 26, 2019. Revised: June 28, 2021.

TRACY COSTCO DEPOT PROJECT

Figure 2.0-7. Existing and Proposed Land Use Designations

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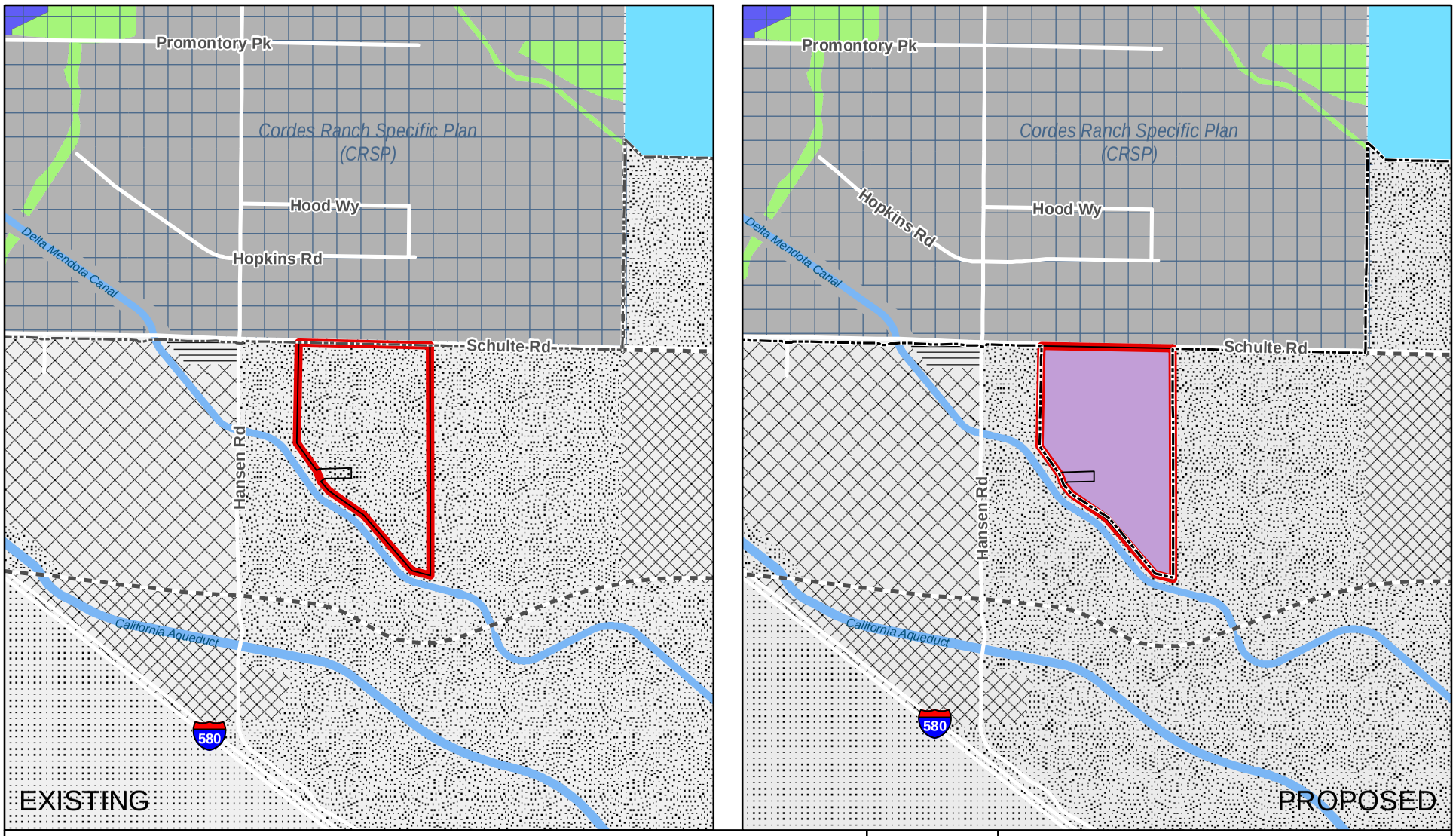

Legend

Project Site/Annexation Area | Development Area | Tracy City Limits | Sphere Of Influence

City of Tracy Zoning
- CRSP - Cordes Ranch Specific Plan
- PUD - Planned Urban Development
- M-1 - Light Manufacturing

Cordes Ranch Specific Plan
- Business Park Industrial
- General Office
- Park

San Joaquin County Zoning
- AG-160
- AG-40
- I-G
- I-L
- P-F

N

0 500 1,000
Feet

Sources: San Joaquin County GIS; City of Tracy GIS. Map date: October 25, 2019. Revised: June 28, 2021.

TRACY COSTCO DEPOT PROJECT

Figure 2.0-8. Existing and Proposed Zoning Designations

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This section describes the regional air quality, current attainment status of the air basin, local sensitive receptors, emission sources, and impacts that are likely to result from Project implementation. The analysis contained in this section is intended to be at a project level, and covers impacts associated with the conversion of the entire site to urban uses. Following this discussion is an assessment of consistency of the proposed Project with applicable policies and local plans. The Greenhouse Gases, Climate Change, and Energy analysis is located in a separate section of this document (*see* Chapter 3.7 – Greenhouse Gases, Climate Change and Energy). This air quality section is based in part on the following guidance documents: *Air Quality and Land Use Handbook: A Community Health Perspective* (California Air Resources Board [CARB], 2007), *Guide for Assessing and Mitigation Air Quality Impacts* (San Joaquin Valley Air Pollution Control District [SJAVPCD], 2002), *Guidance for Assessing and Mitigating Air Quality Impacts - 2015* (SJAVPCD, 2015), and CalEEMod *(*v.2022.1*)*.

One comment was received from SJVAPCD during the public review period or scoping meeting for the Notice of Preparation (October 29, 2021). The commenter pointed out that the SJVAPCD prepared the *Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI)* (March 19, 2015) as a technical guidance for the review of air quality impacts from proposed projects within the boundaries of the District. This comment is addressed within this section. The full comment is included in Appendix A of the originally circulated Draft EIR.

3.3.1 ENVIRONMENTAL SETTING

SAN JOAQUIN VALLEY AIR BASIN

The City of Tracy (City) is in the northern portion of the San Joaquin Valley Air Basin (SJVAB). The SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. Air pollution from significant activities in the SJVAB includes a variety of industrial-based sources as well as on- and off-road mobile sources. These sources, coupled with geographical and meteorological conditions unique to the area, stimulate the formation of unhealthy air.

The SJVAB is approximately 250 miles long and an average of 35 miles wide. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. There is a slight downward elevation gradient from Bakersfield in the southeast end (408 feet elevation) to sea level at the northwest end where the valley opens to the San Francisco Bay at the Carquinez Straits. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The bowl-shaped topography inhibits movement of pollutants out of the valley (SJVAPCD, 2015).

Climate

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface. Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500 to 3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet (SJVAPCD, 2015).

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Wind at the surface and aloft can disperse pollution by mixing and transporting it to other locations.

Especially in summer, winds in the San Joaquin Valley most frequently blow from the northwest. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the valley. Marine air can flow into the basin from the San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow along the axis of the valley, over the Tehachapi pass, into the Southeast Desert Air Basin. This wind pattern contributes to transporting pollutants from the Sacramento Valley and the Bay Area into the SJVAB. Approximately 27 percent of the total emissions in the northern portion, 11 percent of total emissions in the central region, and 7 percent of total emission in the south valley of the SJVAB are attributed to air pollution transported from these two areas.[1] The Coastal Range is a barrier to air movement to the west and the high Sierra Nevada range is a significant barrier to the east (the highest peaks in the southern Sierra Nevada reach almost halfway through the Earth's atmosphere). Many days in the winter are marked by stagnation events where winds are very weak. Transport of pollutants during winter can be very limited. A secondary but significant summer wind pattern is from the southeast and can be associated with nighttime drainage winds, prefrontal conditions, and summer monsoons.

Two significant diurnal wind cycles that occur frequently in the valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are especially pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can recirculate a polluted air mass for an extended period.

[1] SJVAPCD. Frequently Asked Questions, http://www.valleyair.org/general_info/frequently_asked_questions.htm#What%20is%20being%20done%20to%20improve%20ai r%20quality%20in%20the%20San%20Joaquin%20Valley, accessed September 11, 2023.

Temperature

Solar radiation and temperature are particularly important in the chemistry of ozone formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily ozone) is produced by the atmospheric reaction of organic substances (such as volatile organic compounds) and nitrogen dioxide under the influence of sunlight. Ozone concentrations are very dependent on the amount of solar radiation, especially during late spring, summer, and early fall. Ozone levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and ozone begins to dominate. This reaction tends to scavenge and remove the ozone in the metropolitan areas through the early morning hours, resulting in the lowest ozone levels, possibly reaching zero at sunrise in areas with high nitrogen oxides emissions. At sunrise, nitrogen oxides tend to peak, partly due to low levels of ozone at this time and also due to the morning commuter vehicle emissions of nitrogen oxides.

Generally, the higher the temperature, the more ozone is formed, since reaction rates increase with temperature. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer does not lift to allow the buildup of contaminants to be dispersed, the ozone levels will peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, the ozone will peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB.

Ozone levels are low during winter periods when there is much less sunlight to drive the photochemical reaction (SJVAPCD, 2015).

Precipitation, Humidity, and Fog

Precipitation and fog may reduce or limit some pollutant concentrations. Ozone needs sunlight for its formation, and clouds and fog can block the required solar radiation. Wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Atmospheric moisture can also increase pollution levels. In fogs with less water content, the moisture acts to form secondary ammonium nitrate particulate matter. The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations and excellent visibility. Between winter storms, high pressure and light winds allow cold moist air to pool on the SJVAB floor. This creates strong low-level temperature inversions and very stable air conditions, which can lead to tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter (PM), including PM that have a diameter of less than 2.5 micrometers ($PM_{2.5}$) and 10 micrometers PM_{10} (SJVAPCD, 2015).

Inversions

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by persistent temperature inversions. Air temperature in the lowest layer of the atmosphere typically decreases with altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. The height of the base of the inversion is known as the "mixing height." This is the level to which pollutants can mix vertically. Mixing of air is minimized above and below the

inversion base. The inversion base represents an abrupt density change where little air movement occurs.

Inversion layers are significant in determining pollutant concentrations. Concentration levels can be related to the amount of mixing space below the inversion. Temperature inversions that occur on the summer days are usually 2,000 to 2,500 feet above the valley floor. In winter months, overnight inversions occur 500 to 1,500 feet above the valley floor (SJVAPCD, 2015).

CRITERIA POLLUTANTS

All criteria pollutants can have human health and environmental effects at certain concentrations. The United States Environmental Protection Agency (U.S. EPA) uses six "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). In addition, California establishes ambient air quality standards, called California Ambient Air Quality Standards (CAAQS). California law does not require that the CAAQS be met by a specified date as is the case with NAAQS.

The ambient air quality standards for the six criteria pollutants (as shown in Table 3.3-1) are set to protect public health and the environment within an adequate margin of safety (as provided under Section 109 of the Federal Clean Air Act [FCAA]). Epidemiological, controlled human exposure, and toxicology studies evaluate potential health and environmental effects of criteria pollutants, and form the scientific basis for new and revised ambient air quality standards. Principal characteristics and possible health and environmental effects from exposure to the six primary criteria pollutants generated by the Project are discussed below.

Ozone (O_3) is a photochemical oxidant and the major component of smog. While O_3 in the upper atmosphere is beneficial to life by shielding the earth from harmful ultraviolet radiation from the sun, high concentrations of O_3 at ground level are a major health and environmental concern. O_3 is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NO_x) in the presence of sunlight. These reactions are stimulated by sunlight and temperature so that peak O_3 levels occur typically during the warmer times of the year. Both VOCs and NO_x are emitted by transportation and industrial sources. VOCs are emitted from sources as diverse as autos, chemical manufacturing, dry cleaners, paint shops and other sources using solvents.

The reactivity of O_3 causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O_3 not only affect people with impaired respiratory systems, such as asthmatics, but affect healthy adults and children as well. Exposure to O_3 for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to ozone may

increase the risk of respiratory-related deaths (U.S. EPA, 2019a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of ozone and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggests that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 parts per billion (U.S. EPA, 2019b). The average background level of ozone in California and Nevada is approximately 48.3 parts per billion, which represents approximately 77 percent of the total ozone in the western region of the U.S. (NASA, 2015).

In addition to human health effect, ozone has been tied to crop damage, typically in the form of stunted growth, leaf discoloration, cell damage, and premature death. O_3 can also act as a corrosive and oxidant, resulting in property damage such as the degradation of rubber products and other materials.

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Exposure to CO at high concentrations can also cause fatigue, headaches, confusion, dizziness, and chest pain. There are no ecological or environmental effects to ambient CO (CARB, 2019a).

Very high levels of CO are not likely to occur outdoors. However, when CO levels are elevated outdoors, they can be of particular concern for people with some types of heart disease. These people already have a reduced ability for getting oxygenated blood to their hearts in situations where the heart needs more oxygen than usual. They are especially vulnerable to the effects of CO when exercising or under increased stress. In these situations, short-term exposure to elevated CO may result in reduced oxygen to the heart accompanied by chest pain also known as angina (U.S. EPA, 2016). Such acute effects may occur under current ambient conditions for some sensitive individuals, while increases in ambient CO levels increases the risk of such incidences.

Nitrogen Dioxide (NO_2) is a brownish, highly reactive gas that is present in all urban atmospheres. The main effect of increased NO_2 is the increased likelihood of respiratory problems. Under ambient conditions, NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections. Nitrogen oxides are an important precursor both to ozone (O_3) and acid rain and may affect both terrestrial and aquatic ecosystems. Longer exposures to elevated concentrations of NO_2 may contribute to the development of asthma and potentially increase susceptibility to respiratory infections. People with asthma, as well as children and the elderly, are generally at greater risk for the health effects of NO_2.

Sulfur dioxide (SO_2) is one of the multiple gaseous oxidized sulfur species and is formed during the combustion of fuels containing sulfur, primarily coal and oil. The largest anthropogenic source of SO_2 emissions in the U.S. is fossil fuel combustion at electric utilities and other industrial facilities. SO_2 is also emitted from certain manufacturing processes and mobile sources, including locomotives, large ships, and construction equipment.

SO_2 affects breathing and may aggravate existing respiratory and cardiovascular disease in high doses. Sensitive populations include asthmatics, individuals with bronchitis or emphysema, children and the elderly. SO_2 is also a primary contributor to acid deposition, or acid rain, which causes acidification of lakes and streams and can damage trees, crops, historic buildings and statues. In addition, sulfur compounds in the air contribute to visibility impairment in large parts of the country. This is especially noticeable in national parks. Ambient SO_2 results largely from stationary sources such as coal and oil combustion, steel mills, refineries, pulp and paper mills and from nonferrous smelters.

Short-term exposure to ambient SO_2 has been associated with various adverse health effects. Multiple human clinical studies, epidemiological studies, and toxicological studies support a causal relationship between short-term exposure to ambient SO_2 and respiratory morbidity. The observed health effects include decreased lung function, respiratory symptoms, and increased emergency department visits and hospitalizations for all respiratory causes. These studies further suggest that people with asthma are potentially susceptible or vulnerable to these health effects. In addition, SO_2 reacts with other air pollutants to form sulfate particles, which are constituents of fine particulate matter ($PM_{2.5}$). Inhalation exposure to $PM_{2.5}$ has been associated with various cardiovascular and respiratory health effects (U.S. EPA, 2017). Increased ambient SO_2 levels would lead to increased risk of such effects.

SO_2 emissions that lead to high concentrations of SO_2 in the air generally also lead to the formation of other sulfur oxides (SOx). SOx can react with other compounds in the atmosphere to form small particles. These particles contribute to particulate matter (PM) pollution. Small particles may penetrate deeply into the lungs and in sufficient quantity can contribute to health problems.

Particulate matter (PM) includes dust, dirt, soot, smoke and liquid droplets directly emitted into the air by sources such as factories, power plants, cars, construction activity, fires and natural windblown dust. Particles formed in the atmosphere by condensation or the transformation of emitted gases such as SO_2 and VOCs are also considered particulate matter. PM is generally categorized based on the diameter of the particulate matter: PM_{10} is particulate matter 10 micrometers or less in diameter (known as respirable particulate matter), and $PM_{2.5}$ is particulate matter 2.5 micrometers or less in diameter (known as fine particulate matter).

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO_2) and laboratory studies of animals and humans, there are major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis and premature death.

Small particulate pollution causes health impacts even at very low concentrations – indeed, no threshold has been identified below which no damage to health is observed.

Respirable particulate matter (PM_{10}) consists of small particles, less than 10 microns in diameter, of dust, smoke, or droplets of liquid which penetrate the human respiratory system and cause irritation by themselves, or in combination with other gases. PM_{10} is caused primarily by dust from grading and excavation activities, from agricultural activities (as created by soil preparation activities, fertilizer and pesticide spraying, weed burning and animal husbandry), and from motor vehicles, particularly diesel-powered vehicles. PM_{10} causes a greater health risk than larger particles, since these fine particles can more easily penetrate the defenses of the human respiratory system.

$PM_{2.5}$ consists of fine particles that are less than 2.5 microns in size. Similar to PM_{10}, these particles are primarily the result of combustion in motor vehicles, particularly diesel engines, as well as from industrial sources and residential/agricultural activities such as burning. It is also formed through the reaction of other pollutants. As with PM_{10}, these particulates can increase the chance of respiratory disease, and cause lung damage and cancer. In 1997, the U.S. EPA created new Federal air quality standards for $PM_{2.5}$.

The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or influenza, asthmatics, the elderly and children. PM_{10} and $PM_{2.5}$ also impacts soils and damages materials and is a major cause of visibility impairment.

Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms. Studies show that every 1 microgram per cubic meter reduction in $PM_{2.5}$ results in a one percent reduction in mortality rate for individuals over 30 years old (Bay Area Air Quality Management District, 2017). Long-term exposures, such as those experienced by people living for many years in areas with high PM levels, have been associated with problems such as reduced lung function and the development of chronic bronchitis – and even premature death. Additionally, depending on its composition, both PM_{10} and $PM_{2.5}$ can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (U.S. EPA, 2019c).

Lead (Pb) exposure can occur through multiple pathways, including inhalation of air and ingestion of Pb in food, water, soil or dust. Once taken into the body, lead distributes throughout the body in the blood and is accumulated in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system. Lead exposure also affects the oxygen carrying capacity of the blood. Excessive Pb exposure can cause seizures, mental retardation and/or behavioral disorders. Low doses of Pb can lead to central nervous system damage. Studies have also shown that Pb may be a factor in high blood pressure and subsequent heart disease (Tsoi, M.F., 2021).

Lead is persistent in the environment and can be added to soils and sediments through deposition from sources of lead air pollution. Other sources of lead to ecosystems include direct discharge of

waste streams to water bodies and mining. Elevated lead in the environment can result in decreased growth and reproductive rates in plants and animals, and neurological effects in vertebrates.

Lead exposure is typically associated with industrial sources; major sources of lead in the air are ore and metals processing and piston-engine aircraft operating on leaded aviation fuel. Other sources are waste incinerators, utilities, and lead-acid battery manufacturers. The highest air concentrations of lead are usually found near lead smelters. As a result of the U.S. EPA's regulatory efforts, including the removal of lead from motor vehicle gasoline, levels of lead in the air decreased by 98 percent between 1980 and 2014 (U.S. EPA, 2019d). Based on this reduction of lead in the air over this period, and since most new developments do not generate an increase in lead exposure, the health impacts of ambient lead levels are not typically monitored by the California Air Resources Board (CARB).

AMBIENT AIR QUALITY STANDARDS

Both the U.S. EPA and the CARB have established ambient air quality standards for common pollutants. These ambient air quality standards represent safe levels of contaminants that avoid specific adverse health effects associated with each pollutant.

The federal and State ambient air quality standards are summarized in Table 3.3-1 for important pollutants. The federal and State ambient standards were developed independently, although both processes were aimed at avoiding health-related effects. As a result, the federal and State standards differ in some cases. In general, the California standards are more stringent. This is particularly true for ozone, $PM_{2.5}$, and PM_{10}. The U.S. EPA signed a final rule for the federal ozone eight-hour standard of 0.070 parts per million (ppm) on October 1, 2015, which was effective as of December 28, 2015 (equivalent to the California state ambient air quality eight-hour standard for ozone).

In 1997, new national standards for fine particulate matter diameter 2.5 microns or less ($PM_{2.5}$) were adopted for 24-hour and annual averaging periods. The existing PM_{10} standards were retained, but the method and form for determining compliance with the standards were revised.

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated on the basis of risk rather than specification of safe levels of contamination.

TABLE 3.3-1: FEDERAL AND STATE AMBIENT AIR QUALITY STANDARDS

POLLUTANT	*AVERAGING TIME*	*FEDERAL PRIMARY STANDARD*	*STATE STANDARD*
Ozone	1-Hour	--	0.09 ppm
	8-Hour	0.070 ppm	0.070 ppm
Carbon Monoxide	8-Hour	9.0 ppm	9.0 ppm
	1-Hour	35.0 ppm	20.0 ppm
Nitrogen Dioxide	Annual	0.053 ppm	0.03 ppm
	1-Hour	0.100 ppm	0.18 ppm
Sulfur Dioxide	Annual	0.03 ppm	--
	24-Hour	0.14 ppm	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM_{10}	Annual	--	20 ug/m^3
	24-Hour	150 ug/m^3	50 ug/m^3
$PM_{2.5}$	Annual	12 ug/m^3	12 ug/m^3
	24-Hour	35 ug/m^3	--
Lead	30-Day Avg.	--	1.5 ug/m^3
	3-Month Avg.	0.15 ug/m^3	--

NOTES: PPM = PARTS PER MILLION, UG/M3 = MICROGRAMS PER CUBIC METER

SOURCE: CALIFORNIA AIR RESOURCES BOARD, 2019A.

Existing air quality concerns within San Joaquin County and the entire air basin are related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles, which account for 70 percent of the ozone in the region. Particulate matter is caused by dust, primarily dust generated from construction and grading activities, and smoke emitted from fireplaces, wood-burning stoves, and agricultural burning.

Attainment Status

In accordance with the California Clean Air Act (CCAA), the CARB is required to designate areas of the State as attainment, nonattainment, or unclassified with respect to applicable standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A "nonattainment" designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria.

Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An "unclassified" designation signifies that the data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The U.S. EPA designates areas for ozone, carbon monoxide, and nitrogen dioxide as "does not meet the primary standards," "cannot be classified," or "better than national standards." For sulfur dioxide, areas are designated as "does not meet the primary standards," "does not meet the

secondary standards," "cannot be classified," or "better than national standards." However, the CARB terminology of attainment, nonattainment, and unclassified is more frequently used.

San Joaquin County has a State designation Attainment or Unclassified for all criteria pollutants except for ozone, PM_{10}, and $PM_{2.5}$. San Joaquin County has a national designation of either Unclassified or Attainment for all criteria pollutants except for ozone and $PM_{2.5}$. Table 3.3-2 presents the state and national attainment status for San Joaquin County.

TABLE 3.3-2: STATE AND NATIONAL ATTAINMENT STATUS IN SAN JOAQUIN COUNTY

CRITERIA POLLUTANTS	*STATE DESIGNATIONS*	*NATIONAL DESIGNATIONS*
Ozone (O_3)	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
Carbon Monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2)	Attainment	Unclassified/Attainment
Sulfates	Attainment	
Lead	Attainment	Unclassified/Attainment
Hydrogen Sulfide	Unclassified	
Visibility Reducing Particles	Unclassified	

SOURCE: CALIFORNIA AIR RESOURCES BOARD, 2023.

San Joaquin County Air Quality Monitoring

The SJVAPCD and the CARB maintain air quality monitoring sites throughout San Joaquin County that collect data for ozone and $PM_{2.5}$. In addition, air quality monitoring sites for PM_{10} are located throughout the San Joaquin Valley (though not in San Joaquin County). The closest air quality monitoring station to the Project site is the Tracy-Airport location. It is important to note that while the State retains the one-hour ozone standard, the federal ozone 1-hour standard was revoked by the U.S. EPA and is no longer applicable for federal standards. Best available data obtained from the monitoring sites between 2017 and 2020 (latest year of data available) is shown in Table 3.3-3, Table 3.3-4, and Table 3.3-5.

TABLE 3.3-3 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (TRACY-AIRPORT)* - OZONE

YEAR	*DAYS > STANDARD*				*1-HOUR OBSERVATIONS*			*8-HOUR AVERAGES*				*YEAR COVERAGE*	
	STATE		*NATIONAL*			*STATE*	*NAT'L*	*STATE*		*NATIONAL*			
	1-HR	*8-HR*	*1-HR*	*8-HR*	*MAX.*	*D.V.[1]*	*D.V.[2]*	*MAX.*	*D.V.[1]*	*MAX.*	*D.V.[2]*	*MIN*	*MAX*
2022	0	1	0	1	0.082	0.08	0.084	0.074	0.075	0.074	0.066	95	97
2021	0	3	0	3	0.089	0.09	0.087	0.078	0.077	0.077	0.068	96	98
2020	0	3	0	3	0.086	0.09	0.092	0.078	0.082	0.078	0.070	95	96
2019	1	3	0	3	0.095	0.09	0.092	0.080	0.082	0.079	0.073	97	99
2018	1	8	0	8	0.099	0.10	0.099	0.082	0.085	0.081	0.076	98	99
2017	0	7	0	5	0.093	0.10	0.105	0.082	0.086	0.082	0.077	93	95

*NOTES: ALL CONCENTRATIONS EXPRESSED IN PARTS PER MILLION. THE NATIONAL 1-HOUR OZONE STANDARD WAS REVOKED IN JUNE 2005 AND IS NO LONGER IN EFFECT. STATISTICS RELATED TO THE REVOKED STANDARD ARE SHOWN IN ITALICS. D.V. [1]= STATE DESIGNATION VALUE. D.V. [2]= NATIONAL DESIGN VALUE. *TRACY-AIRPORT REPRESENTS THE CLOSEST MONITORING STATION TO THE PROJECT SITE.*

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

TABLE 3.3-4: AMBIENT AIR QUALITY MONITORING DATA SUMMARY (SAN JOAQUIN VALLEY)* – PM_{10}

YEAR	EST. DAYS > STD.		ANNUAL AVERAGE		HIGH 24-HR AVERAGE		YEAR COVERAGE
	NAT'L	STATE	NAT'L	STATE	NAT'L	STATE	
2022	3.8	171.2	56.7	54.9	250.8	251.6	0 – 10
2021	16.3	151.7	54.9	52.8	437.5	439.3	0 - 97
2020	38.7	157.0	64.5	60.5	517.2	359.0	0 - 100
2019	16.2	129.7	55.6	55.6	652.2	664.2	0 – 100
2018	9.6	164.4	54.5	53.0	250.2	250.4	0 – 100
2017	7.7	145.5	55.3	48.4	298.4	210.0	0 – 100

*NOTES: THE NATIONAL ANNUAL AVERAGE PM_{10} STANDARD WAS REVOKED IN DECEMBER 2006 AND IS NO LONGER IN EFFECT. AN EXCEEDANCE IS NOT NECESSARILY A VIOLATION. STATISTICS MAY INCLUDE DATA THAT ARE RELATED TO AN EXCEPTIONAL EVENT. STATE AND NATIONAL STATISTICS MAY DIFFER FOR THE FOLLOWING REASONS: STATE STATISTICS ARE BASED ON CALIFORNIA APPROVED SAMPLERS, WHEREAS NATIONAL STATISTICS ARE BASED ON SAMPLERS USING FEDERAL REFERENCE OR EQUIVALENT METHODS. STATE AND NATIONAL STATISTICS MAY THEREFORE BE BASED ON DIFFERENT SAMPLERS. NATIONAL STATISTICS ARE BASED ON STANDARD CONDITIONS. STATE CRITERIA FOR ENSURING THAT DATA ARE SUFFICIENTLY COMPLETE FOR CALCULATING VALID ANNUAL AVERAGES ARE MORE STRINGENT THAN THE NATIONAL CRITERIA. *THIS DATA REPRESENTS THE HIGHEST VALUES IDENTIFIED WITHIN SAN JOAQUIN VALLEY AS A WHOLE. DATA FOR THE NEAREST MONITORING SITE (TRACY-AIRPORT), AS WELL AS FOR SAN JOAQUIN COUNTY, HAD INSUFFICIENT DATA.*

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

TABLE 3.3-5 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (SAN JOAQUIN COUNTY)* - $PM_{2.5}$

YEAR	EST. DAYS > NAT'L '06 STD.	ANNUAL AVERAGE		NAT'L ANN. STD. D.V.[1]	STATE ANNUAL D.V.[2]	NAT'L '06 STD. 98TH PERCENTILE	NAT'L '06 24-HR STD. D.V.[1]	HIGH 24-HOUR AVERAGE		YEAR COVERAGE	
		NAT'L	STATE					NAT'L	STATE	MIN	MAX
2022	6.2	10.2	10.2	*	15	35.2	54	51.9	51.9	72	96
2021	11.3	11.7	*	*	15	39.9	52	58.7	58.7	14	100
2020	24.0	14.8	14.8	13.8	17	91.6	72	140.0	140.0	98	99
2019	6.4	9.3	6.2	13.0	17	32.9	56	50.1	50.1	77	95
2018	25.0	17.6	17.4	13.8	17	96.9	56	188.0	257.5	96	100
2017	16.9	12.1	11.0	12.2	13	44.2	39	53.7	53.7	94	99

*NOTES: ALL CONCENTRATIONS EXPRESSED IN PARTS PER MILLION. STATE AND NATIONAL STATISTICS MAY DIFFER FOR THE FOLLOWING REASONS: STATE STATISTICS ARE BASED ON CALIFORNIA APPROVED SAMPLERS, WHEREAS NATIONAL STATISTICS ARE BASED ON SAMPLERS USING FEDERAL REFERENCE OR EQUIVALENT METHODS. STATE AND NATIONAL STATISTICS MAY THEREFORE BE BASED ON DIFFERENT SAMPLERS. STATE CRITERIA FOR ENSURING THAT DATA ARE SUFFICIENTLY COMPLETE FOR CALCULATING VALID ANNUAL AVERAGES ARE MORE STRINGENT THAN THE NATIONAL CRITERIA. D.V. [1] = STATE DESIGNATION VALUE. D.V. [2]= NATIONAL DESIGN VALUE. *THIS DATA REPRESENTS THE HIGHEST VALUES IDENTIFIED WITHIN SAN JOAQUIN COUNTY AS A WHOLE. DATA FOR THE NEAREST MONITORING SITE (TRACY-AIRPORT) HAS INSUFFICIENT DATA.*

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

ODORS

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability

to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another.

It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

SENSITIVE RECEPTORS

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiorespiratory diseases. A sensitive receptor is a location where human populations, especially children, seniors, and sick persons, are present and where there is a reasonable expectation of continuous human exposure to pollutants. Examples of sensitive receptors include residences, hospitals, and schools. The closest sensitive receptors to the Project are located as follows:

- A cluster of farmhouses/residences is located along the western portion of the Project site, adjacent to the Project site[2];
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and

[2] It should be noted that the City is currently processing an application to annex this adjacent property at 16286 W. Schulte Road into the City and develop a proposed one-story, approximately 217,466 square foot industrial warehouse and associated truck trailer and employee parking lots thereon.

- An additional residence is located approximately 2,650 feet to the southeast of the Project site.

3.3.2 REGULATORY SETTING

LOCAL

City of Tracy General Plan

The City of Tracy General Plan includes several goals, objectives, and policies that are relevant to air quality. General Plan policies applicable to the Project are identified below:

POLICIES: AIR QUALITY ELEMENT

- AQ-1.1-P1. The City shall promote land use patterns that reduce the number and length of motor vehicle trips.
- AQ-1.1-P2. To the extent feasible, the City shall maintain a balance and match between jobs and housing.
- AQ-1.1-P4. Employment areas should include a mix of support services to minimize the number of trips.
- AQ-1.2-P1. The City shall assess air quality impacts using the latest version of the CEQA Guidelines and guidelines prepared by the San Joaquin Valley Air Pollution Control District.
- AQ-1.2-P2. The City shall assess through the CEQA process any air quality impacts of development projects that may be insignificant by themselves, but cumulatively significant.
- AQ-1.2-P3. Developers shall implement best management practices to reduce air pollutant emissions associated with the construction and operation of development projects.
- AQ-1.2-P4. New development projects should incorporate energy efficient design features for HVAC, lighting systems and insulation that exceed Title 24.
- AQ-1.2-P5. Use of solar water and pool heaters is encouraged.
- AQ-1.2-P6. Installation of solar voltaic panels on new homes and businesses shall be encouraged.
- AQ-1.2-P7. Trees should be planted on the south- and west-facing sides of new buildings or buildings undergoing substantial renovation in order to reduce energy usage.
- AQ-1.2-P9. New developments shall follow the current requirements of the SJVAPCD with respect to wood burning fireplaces and heaters.
- AQ-1.2-P10. Stationary air pollutant emission sources (e.g. factories) shall be located an appropriate distance away and down-wind from residential areas and other sensitive receptors.
- AQ-1.2-P12. New sources of toxic air pollutants shall prepare a Health Risk Assessment as required under the Air Toxics “Hot Spots” Act and, based on the results of the Assessment, establish appropriate land use buffer zones around those areas posing substantial health risks.

- AQ-1.2-P13. Dust control measures consistent with San Joaquin Valley Air Pollution Control District rules shall be required as a condition of approval for subdivision maps, site plans, and all grading permits.
- AQ-1.2-P14. Developments that significantly impact air quality shall only be approved if all feasible mitigation measures to avoid, minimize or offset the impact are implemented.
- AQ-1.2-P15. Encourage businesses to electrify loading docks or implement idling-reduction systems so that trucks transporting refrigerated goods can continue to power cab cooling elements during loading, layovers, and rest periods.
- AQ-1.2-P16. Encourage the use of Best Management Practices in agriculture and animal operations.
- AQ-1.3-P1. The City shall continue to work with the San Joaquin Council of Governments on regional transportation solutions.
- AQ-1.3-P3. The City shall encourage employers to establish Transportation Demand Management programs.
- AQ-1.3-P5. The City shall require direct pedestrian and bicycle linkages from residential areas to parks, schools, retail areas, high-frequency transit facilities and major employment areas.

POLICIES: CIRCULATION ELEMENT

- CIR-1.1-P3: The City shall continue to apply traffic mitigation fee programs to fund transportation infrastructure, based on a fair share of facility use.
- CIR-1.1-P6: The Roadway Master Plan update shall identify necessary improvements to various intersections on I-205 and I-580 based on land use designations and with particular attention to Terminal Access Routes in accordance with Surface Transportation Assistance Act of 1982 (STAA).
- CIR-1.2-P3: New development shall be designed to provide vehicular, bicycle and pedestrian connections with adjacent developments.
- CIR-1.2-P5: New development shall be designed with a grid or modified grid pattern to facilitate traffic flows and to provide multiple connections to arterial streets.
- CIR-3.1-P6: New development shall include pedestrian and bicycle facilities internal to the development and that connect to citywide facilities, such as parks, schools and recreational corridors, as well as adjacent development and other services.
- CIR-3.1-P7: New development sites for commercial, employment, educational, recreational and park-and-ride land uses shall provide bicycle parking and/or storage facilities.

POLICIES: ECONOMIC DEVELOPMENT ELEMENT

- ED-1.2-P1: The City shall encourage businesses that use green practices.
- ED-1.2-P2: The City shall conduct public education and outreach to support employment opportunities that minimize the need for automobile trips, such as live/work, telecommuting, satellite work centers, and home occupations, in addition to mixed-use development strategies.

San Joaquin Valley Air Pollution Control District

The primary role of SJVAPCD is to develop plans and implement control measures in the SJVAB to control air pollution. These controls primarily affect stationary sources such as industry and power plants. Rules and regulations have been developed by SJVAPCD to control air pollution from a wide range of air pollution sources. SJVAPCD also provides uniform procedures for assessing potential air quality impacts of proposed projects and for preparing the air quality section of environmental documents.

AIR QUALITY PLANNING

The U.S. EPA requires states that have areas that do not meet the National AAQS to prepare and submit air quality plans showing how the National AAQS will be met. If the states cannot show how the National AAQS will be met, then the states must show progress toward meeting the National AAQS. These plans are referred to as the SIP. In October 2018, the CARB adopted the 2018 Updates to the California State Implementation Plan.

In addition, the CARB requires regions that do not meet California AAQS for ozone to submit clean air plans (CAPs) that describe measures to attain the standard or show progress toward attainment. To ensure federal CAA compliance, SJVAPCD is currently developing plans for meeting new National AAQS for ozone and $PM_{2.5}$ and the California AAQS for PM_{10} in the SJVAB (for California CAA compliance). The following describes the air plans prepared by the SJVAPCD.

8-HOUR OZONE PLAN

The SJVAPCD's Governing Board adopted the 2007 Ozone Plan on April 30, 2007. This far-reaching plan, with innovative measures and a "dual path" strategy, assures expeditious attainment of the federal 8-hour ozone standard as set by U.S. EPA in 1997. The CARB approved the plan on June 14, 2007. The U.S. EPA approved the 2007 Ozone Plan effective April 30, 2012. SJVAPCD adopted the 2016 Ozone Plan to address the federal 2008 8-hour ozone standard, which must be attained by end of 2031.[3,4] More recently, a new ozone attainment plan is under development. Specifically, the 2022 Ozone Plan for the Attainment of the 2015 Federal 8-hour Ozone Standard was adopted on December 15, 2022.

PM_{10} PLAN

Based on PM_{10} measurements from 2003 to 2006, the U.S. EPA found that the SJVAB has reached federal PM_{10} standards. On September 21, 2007, the SJVAPCD's Governing Board adopted the 2007 PM_{10} Maintenance Plan and Request for Redesignation. This plan demonstrated that the valley would continue to meet the PM_{10} standard. U.S. EPA approved the document and on September 25, 2008, the SJVAB was redesignated to attainment/maintenance (SJVAPCD, 2015).

[3] SJVAPCD. Ozone Plans. http://www.valleyair.org/ Air_Quality_Plans/Ozone_Plans.htm, accessed March 3, 2020.

[4] SJVAPCD. 2016 Plan for the 2008 8-Hour Ozone Standard, http://www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm, accessed March 3, 2020.

PM2.5 PLAN

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards on November 15, 2018.[5] This plan addresses the U.S. EPA federal 1997 annual $PM_{2.5}$ standard of 15 µg/m³ and 24-hour $PM_{2.5}$ standard of 65 µg/m³; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m³; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m³. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable (SJVAPCD, 2020).

All of the above-referenced plans include measures (i.e., federal, state, and local) that would be implemented through rule making or program funding to reduce air pollutant emissions in the SJVAB. Transportation control measures are part of these plans.

SJVAPCD RULES AND REGULATIONS

SJVAPCD Indirect Source Review

On December 15, 2005, SJVAPCD adopted the Indirect Source Review Rule (ISR or Rule 9510) to reduce ozone precursors (i.e., ROG and NOx) and PM_{10} emissions from new land use development projects. Specifically, Rule 9510 targets the indirect emissions from vehicles and construction equipment associated with these projects and applies to both construction and operational-related impacts. The rule applies to the proposed Project since it proposes more than 25,000 square feet of light industrial uses.

This rule requires the applicants of certain development projects which equal or exceed established applicability thresholds to apply to the SJVAPCD when applying for the development's last discretionary approval. Projects subject to the rule are required to quantify indirect emissions (mobile source emissions), area source emissions and construction exhaust emissions and to mitigate a portion of these emissions. The Indirect Source Rule was adopted December 2005 and last amended December 2017. Rule 9510 was adopted to reduce the impacts of growth in emissions from all new development in the San Joaquin Valley. Developers of projects subject to Rule 9510 must reduce emissions occurring during construction and operational phases through on-site measures or pay off-site mitigation fees. One hundred percent of all off-site mitigation fees are used by the SJVAPCD to fund emission reduction projects through its Incentive Programs, achieving emission reductions on behalf of the project. The emission reduction expected from the rule allow the SJVAPCD to achieve attainment of the federal air quality standards for ozone by 2031.

The rule requires all subject, nonexempt projects to mitigate both construction and operational period emissions by (1) applying feasible SJVAPCD-approved mitigation measures, or (2) paying any applicable fees to support programs that reduce emissions. Off-site emissions reduction fees (off-site fees) are required for projects that do not achieve the required emissions reductions through on-site emission reduction measures. Phased projects can defer payment of fees in accordance with an Off-site Emissions Reduction Fee Deferral Schedule (FDS) approved by the SJVAPCD.

[5] SJVAPCD. Particulate Matter Plans. http://valleyair.org/Air_Quality_Plans/PM_Plans.htm, accessed March 9, 2020.

To determine how an individual project would satisfy Rule 9510, each project would submit an air quality impact assessment (AIA) to the SJVAPCD as early as possible, but no later than prior to the project's final discretionary approval, to identify the project's baseline unmitigated emissions inventory for indirect sources: on-site exhaust emissions from construction activities and operational activities from mobile and area sources of emissions (excludes fugitive dust and permitted sources). Rule 9510 requires the following reductions, which are levels that the SJVAPCD has identified as necessary, based on its air quality management plans, to reach attainment for ozone and particulate matter:

Construction Equipment Emissions

The exhaust emissions for construction equipment greater than 50 horsepower (hp) used or associated with the development project shall be reduced by the following amounts from the statewide average as estimated by CARB:

- 20 percent of the total NOx emissions
- 45 percent of the total PM_{10} exhaust emissions

AIA mitigation strategies may include those that reduce construction emissions on-site by using less polluting construction equipment, which can be achieved by utilizing add-on controls, cleaner fuels, or newer, lower emitting equipment.

Operational Emissions

- NOx Emissions. Applicants shall reduce 33.3 percent of the project's operational baseline NOx emissions over a period of 10 years as quantified in the approved AIA.
- PM_{10} Emissions. Applicants shall reduce 50 percent of the project's operational baseline PM_{10} emissions over a period of 10 years as quantified in the approved AIA.

These requirements listed above can be met through any combination of on-site emissions reduction measures. In the event that a project cannot achieve the above standards through imposition of mitigation measures, then the project would be required to pay the applicable off-site fees. These fees are used to fund various incentive programs that cover the purchase of new equipment, engine retrofit, and education and outreach.

Fugitive PM_{10} Prohibitions

SJVAPCD controls fugitive PM_{10} through Regulation VIII, Fugitive PM_{10} Prohibitions. The purpose of this regulation is to reduce ambient concentrations of PM_{10} and $PM_{2.5}$ by requiring actions to prevent, reduce, or mitigate anthropogenic (human caused) fugitive dust emissions.

- Regulation VIII, Rule 8021 applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on-site, and travel on access roads to and from the site.
- Regulation VIII, Rule 8031 applies to the outdoor handling, storage, and transport of any bulk material.
- Regulation VIII, Rule 8041 applies to sites where carryout or trackout has occurred or may occur on paved roads or the paved shoulders of public roads.

- Regulation VIII, Rule 8051 applies to any open area having 0.5 acre or more within urban areas or 3.0 acres or more within rural areas, and contains at least 1,000 square feet of disturbed surface area.
- Regulation VIII, Rule 8061 applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.
- Regulation VIII, Rule 8071 applies to any unpaved vehicle/equipment traffic area.
- Regulation VIII, Rule 8081 applies to off-field agricultural sources.

Sources regulated are required to provide Dust Control Plans that meet the regulation requirements. Under Rule 8021, a Dust Control Plan is required for any residential project that will include 10 or more acres of disturbed surface area, a nonresidential project with 5 or more acres of disturbed surface area, or a project that relocates 2,500 cubic yards per day of bulk materials for at least three days. The Dust Control Plan is required to be submitted to SJVAPCD prior to the start of any construction activity. The Dust Control Plan must also describe fugitive dust control measures to be implemented before, during, and after any dust-generating activity.

Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations

If asphalt paving will be used, then paving operations of the proposed Project will be subject to Rule 4641. This rule applies to the manufacture and use of cutback asphalt, slow cure asphalt and emulsified asphalt for paving and maintenance operations.

Nuisance Odors

SJVAPCD controls nuisance odors through implementation of Rule 4102, Nuisance. Pursuant to this rule, "a person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property."

Employer Based Trip Reduction Program

SJVAPCD has implemented Rule 9410, Employer Based Trip Reduction. The purpose of this rule is to reduce VMT from private vehicles used by employees to commute to and from their worksites to reduce emissions of NOx, ROG, and particulate matter (PM_{10} and $PM_{2.5}$). The rule applies to employers with at least 100 employees. Employers are required to implement an Employer Trip Reduction Implementation Plan (ETRIP) for each worksite with 100 or more eligible employees to meet applicable targets specified in the rule. Employers are required to facilitate the participation of the development of ETRIPs by providing information to their employees explaining the requirements and applicability of this rule. Employers are required to prepare and submit an ETRIP for each worksite to the District. The ETRIP must be updated annually. Under this rule, employers shall collect information on the modes of transportation used for each eligible employee's commutes both to and from work for every day of the commute verification period, as defined in using either the mandatory commute verification method or a representative survey method. Annual reporting includes the results of the commute verification for the previous calendar year along with the measures implemented as outlined in the ETRIP and, if necessary, any updates to the ETRIP.

Visible Emissions

SJVAPCD controls visible emissions through Rule 4101, Visible Emissions. The purpose of this regulation is to prohibit visible air contaminants in the atmosphere. This rule requires that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:

- As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.
- Of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of this rule.

Architectural Coatings

The purpose of SJVAPCD Rule 4601 is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.

FEDERAL

Clean Air Act

The FCAA was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The U.S. EPA is responsible for administering the FCAA. The FCAA requires the U.S. EPA to set NAAQS for several air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health (with an adequate margin of safety, including for sensitive populations such as children, the elderly, and individuals suffering from respiratory diseases), and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

NAAQS standards define clean air and represent the maximum amount of pollution that can be present in outdoor air without any harmful effects on people and the environment. Existing violations of the ozone and $PM_{2.5}$ ambient air quality standards indicate that certain individuals exposed to these pollutants may experience certain health effects, including increased incidence of cardiovascular and respiratory ailments.

Although there is some variability among the health effects of the NAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations

and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing.

Federal Hazards Air Pollutants Program

The 1977 CAA Amendments required the USEPA to identify National Emissions Standards for Hazardous Air Pollutants (NESHAPs) to protect the public health and welfare. Hazardous air pollutants include certain VOCs, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for hazardous air pollutants, 189 substances and chemical families were identified as hazardous air pollutants.

Federal Heavy-duty Engines and Vehicles Fuel Efficiency Standards

In 2010, President Obama issued a memorandum directing federal agencies to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and National Highway Traffic Safety Administration (NHTSA) proposed stringent, coordinated federal GHG and fuel economy standards for model year 2017–2025 light-duty vehicles.

STATE

California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the federal CAA at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The CARB administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six pollutants subject to federal standards listed above as well as visibility reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The U.S. EPA authorized California to adopt its own regulations for motor vehicles and other sources that are more stringent than similar federal regulations implementing the CAA. Generally, the planning requirements of the federal CAA are less stringent than the CCAA; therefore, consistency with the CCAA will also demonstrate consistency with the federal CAA.

CARB Mobile-Source Regulation

The State of California is responsible for controlling emissions from the operation of motor vehicles in the State. Rather than mandating the use of specific technology or the reliance on a specific fuel, the CARB motor vehicle standards specify the allowable grams of pollution per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved. Towards this end, the CARB has adopted regulations that require auto manufacturers to phase in less-polluting vehicles.

California Air Quality Standards

Although NAAQS are determined by the U.S. EPA, states have the ability to set standards that are more stringent than the federal standards. As such, California established more stringent ambient air quality standards (i.e. CAAQS), which include the NAAQS as well as visibility reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. However, both federal and state ambient air quality standards have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulates and lead. In addition, California has created standards for pollutants that are not covered by federal standards. Although there is some variability among the health effects of the CAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing. The existing state and federal primary standards for major pollutants are shown in Table 3.3-1.

Tanner Air Toxics Act (TACs)

California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted U.S. EPA's list of Hazardous Air Pollutants (HAPs) as TACs. Most recently, diesel PM was added to the CARB list of TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technologies (BACT) to minimize emissions.

Toxic Air Contaminants Health Effects

A toxic air contaminant (TAC) is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. The California Almanac of Emissions and Air Quality presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in California based on available data. The 10 TACs are acetaldehyde, benzene, 1.3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions,

emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the CARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of DPM.

Transportation Control Measures

The State Implementation Plan (SIP) describes the infrastructure (authorities, resources, and programs) California has in place to implement, maintain, and enforce the NAAQS. One particular aspect of the development process is the consideration of potential control measures as a part of making progress towards clean air goals. While most SIP control measures are aimed at reducing emissions from stationary sources, some are typically also created to address mobile or transportation sources. These are known as transportation control measures (TCMs). TCM strategies are designed to reduce vehicle miles traveled and trips, or vehicle idling and associated air pollution. These goals are achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

Omnibus Low-NOx Rule

CARB approved the Omnibus Low-NOx Rule on August 28, 2020, which will require engine NOx emissions to be cut to approximately 75% below current standards beginning in 2024, and 90% below current standards in 2027. The rule also places nine additional regulatory requirements on new heavy-duty trucks and engines. Those additional requirements include a 50% reduction in particulate matter emissions, stringent new low-load and idle standards, a new in-use testing protocol, extended deterioration requirements, a new California-only credit program, and extended mandatory warranty requirements. The regulatory requirements in the Omnibus Low-NOx Rule will first become effective in 2024, at the same time as the Advanced Clean Trucks regulations that CARB approved that require manufacturers to convert increasing percentages of their heavy-duty trucks sold in California to zero-emission vehicles.

Low Emission Vehicle Program

The CARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 State

Implementation Plan (SIP). In 2012, the CARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Car Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and greenhouse gas (GHG) emissions for new passenger vehicles.

On September 23, 2020, Governor Gavin Newsom issued Executive Order N-79-20 establishing a goal that 100 percent of new passenger cars and trucks sold in California shall be zero-emission by 2035. The Executive Order also sets a goal that, where feasible, all operations include zero-emission medium- and heavy-duty trucks by 2045, and drayage trucks by 2035. Off-road vehicles have a goal to transition to 100 percent zero-emission vehicles by 2035, where feasible.

On-Road Heavy-Duty Vehicle Program

The CARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The CARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others. Further, the CARB has also adopted the Advanced Clean Trucks Regulation and the Advanced Clean Fleets Regulation. The Advanced Clean Trucks Regulation is a manufacturers ZEV sales requirement and a one-time reporting requirement for large entities and fleets. Similarly, the Advanced Clean Fleets Regulation will help advance the introduction of zero-emission technologies into California's truck and bus fleets, requiring fleets that are well suited for electrification to transition to zero-emission vehicles (ZEV) through requirements to phase in the use of ZEVs for targeted fleets and requirements that manufacturers only manufacture ZEV trucks starting in the 2036 model year.

California Air Resources Board Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the CARB adopted a regulation to reduce DPM and NOx emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The CARB is enforcing that part of the rule with fines up to $10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NOx emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The California Air Resources Board (CARB) approved amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulation (Off-Road Regulation) on November 17, 2022, aimed at further reducing emissions from the off-road sector.

The regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating

low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.[6]

Diesel Risk Reduction Plan

The CARB's Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.[7]

3.3.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with air quality if it will:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; and/or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

APPROACH TO ANALYSIS

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, the SJVAPCD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the project would exceed these air pollution thresholds, the project should be considered to have significant air quality impacts. The applicable SJVAPCD thresholds and methodologies are contained under each impact statement below, as the City, in its discretion, has determined to utilize these thresholds and methodologies, which are based on scientific and factual data.

[6] California Air Resources Board (CARB). 2021. Truck and Bus Regulation. Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed February 16, 2021.

[7] California Air Resources Board (CARB). 2021. Diesel Risk Reduction Plan. Website: https://ww2.arb.ca.gov/our-work/programs/diesel-risk-reduction-plan. Accessed February 16, 2021.

This analysis was performed consistent with the guidance and methodologies provided by the SJVAPCD's GAMAQI.[8] Based on the SJVAPCD New Source Review (NSR) offset requirements for stationary sources, the SJVAPCD has established thresholds of significance for criteria pollutant emissions, shown in Table 3.3-6. These thresholds apply to the project because these air pollutants would be generated during project construction and operation and constitute criteria pollutants or precursor emissions for criteria pollutants, which are regulated by the federal and State Clean Air Acts.

TABLE 3.3-6: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT SIGNIFICANCE THRESHOLDS

POLLUTANT	*CONSTRUCTION THRESHOLDS (TPY)*	*OPERATIONAL THRESHOLDS (TPY)*
ROG	10	10
NOX	10	10
CO	100	100
SOX	27	27
PM_{10}	15	15
$PM_{2.5}$	15	15

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE: HTTPS://WWW.VALLEYAIR.ORG/TRANSPORTATION/CEQA%20RULES/GAMAQI%20JAN%202002%20REV.PDF ACCESSED JUNE 8, 2022.

The SJVAPCD has also established significance thresholds to assess the impacts of project-related construction and operational emissions on regional and local ambient air quality. Table 3.3-7 shows the daily mass emissions screening criteria for construction and operation as adopted by the SJVAPCD for CAP and TAC emissions. The analysis summarized in this report estimates project-related construction and operational mass emissions and compares the emissions to these significance thresholds.

TABLE 3.3-7: SJVAPCD DAILY MASS EMISSIONS SCREENING CRITERIA

POLLUTANT	*CONSTRUCTION THRESHOLDS (POUNDS PER DAY)*	*OPERATIONAL THRESHOLDS (POUNDS PER DAY)*
ROG	100	100
NOX	100	100
CO	100	100
SOX	100	100
PM_{10}	100	100
$PM_{2.5}$	100	100

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE: HTTPS://WWW.VALLEYAIR.ORG/TRANSPORTATION/CEQA%20RULES/GAMAQI%20JAN%202002%20REV.PDF

[8] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impact. Website: https://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf Accessed June 8, 2022.

ACCESSED JUNE 8, 2022.

The daily mass emissions screening criteria provided in Table 3.3-7 represent screening-level thresholds that can be used to evaluate whether project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed those thresholds, modeling would be required to demonstrate that the project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels.

CRITERIA POLLUTANT EMISSIONS MODELING

California Emission Estimator Model (CalEEMod)™ (v.2022.1), developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with California air districts, was used to estimate emissions for the proposed Project. Project construction was assumed to be completed in 2026. However, the exact timing of Project construction would depend on Project needs, availability of materials and more . The modeled construction schedule is conservative, in that it assumes buildout of the Project much earlier than when it may occur; this represents a conservative approach to modeling, since the emissions efficiency of on- and off-road construction vehicles would increase over time.

It should also be noted that that, since CalEEMod does not allow for an individual model run to include multiple paving phases, the two 'Phase 1 Paving' and 'Phase 2 Paving' construction phases were modeled in separate CalEEMod model runs.

The land use assumptions for the modeling are: Unrefrigerated Warehouse – No Rail (543,330 square feet); Unrefrigerated Warehouse – No Rail (1,201,730 square feet); Other Asphalt Surfaces (60.19 acres). Vehicle trips, vehicle miles traveled (VMT), and fleet mix estimated in the modeling are consistent with those provided by Kimley Horn in its traffic analysis (see Appendix F of the Draft EIR for further detail).

The construction phase details are provided in Table 3.3-8, below. Project construction activities were assumed to occur six days per week, per the Project Applicant. See Appendix A.1 of this Recirculated Draft EIR for further detail.

TABLE 3.3-8: ANTICIPATED CONSTRUCTION SCHEDULE

CALEEMOD PHASE	*CALEEMOD PHASE START DATE*	*CALEEMOD PHASE END DATE*
Site Preparation	Monday, 7/8/2024	Friday, 7/26/2024
Grading	Monday, 7/29/2024	Friday, 12/20/2024
Off-Site Grading	Tuesday, 12/24/2024	Monday, 12/15/2025
Off-Site Improvements	Monday, 4/14/2025	Monday, 10/20/2025
Off-Site Paving	Tuesday, 10/21/2025	Monday, 12/15/2025
Phase 1 Building Construction	Monday, 12/23/2024	Monday, 12/29/2025
Phase 1 Site Finishing	Monday, 9/29/2025	Sunday, 11/16/2025
Phase 1 Paving	Monday, 11/17/2025	Friday, 12/19/2025
Phase 2 Building Construction	Monday, 12/29/2025	Friday, 8/21/2026
Phase 2 Site Finishing	Monday, 5/18/2026	Monday, 7/20/2026

Phase 2 Paving	Tuesday, 7/21/2026	Friday, 8/7/2026

SOURCE: PROJECT APPLICANT (AUGUST 22, 2023).

The following additional non-default CalEEMod model assumptions were utilized, based on information provided by the Project applicant:

- Soil import of 70,000 cubic yards during the Project's Grading phase;
- Off-road construction equipment to utilize "Tier IV" diesel engines, for equipment with a horsepower greater than 50 horsepower;
- Daily on-road construction haul trucks trips as follows:
  - Grading phase: 61 haul trips
  - Phase 1 Site Finishing: 48 haul trips
  - Phase 2 Site Finishing: 73 haul trips
  - Off-site Paving: 12 haul trips
  - Off-site Improvements: 11 haul trips
  - Phase 1 Paving: 41 haul trips
  - Phase 2 Paving: 146 haul trips
- Heavy-duty operational truck trips were assumed to travel 29 miles per one-way trip, on average, consistent with San Joaquin County's travel demand model;
- The 'General Category' consumer products emissions factor was revised to reflect the CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor (the adjustment made to reflect the average adjustment factor).[9]

The following quantified Project sustainability features relevant to air quality emissions were quantitatively accounted for:

- Construction: Water Exposed Surfaces Twice Daily;
- Energy: Require Energy Efficient Appliances (commercial refrigerator).

PROJECT SUSTAINABILITY FEATURES

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption, and/or promote sustainability. It should be noted that it is not possible to quantify the emissions reduction potential of each of the emissions-reducing Project features. Therefore, only the emissions reductions associated with select Project emissions-reducing features were quantified (see the list of non-default CalEEMod model assumptions provided above).

Below are some of the significant practices that Costco would incorporate into its new buildings and overall operations that help reduce emissions, and conserve energy and other natural resources:

[9] See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inventory-and-temporal 0.0000107

CONSTRUCTION

- Construction equipment would use Tier IV-compliant engines or better for off-road construction equipment greater than 50 horsepower.
- Through the use of construction worker training and/or signage, Costco would limit heavy duty construction equipment idling to no more than 2 minutes, and in no instance shall such idling exceed 5 minutes.
- Through the use of signage, vehicle speeds on unpaved roads would be limited to < 15 mph.
- Electric hookups would be provided to reduce the need for diesel generators for electric construction equipment and, should diesel generators be needed, all such diesel generators would be equipped with emission control technology verified by EPA and/or CARB to reduce PM emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- Parking lot lights are designed at 38' in height to provide even light distribution and utilize less energy compared to a greater number of fixtures at lower heights. LED lamps are used to provide a higher level of perceived brightness with less energy than other lamps such as high-pressure sodium.
- Dust, tire wear, brake dust and other parking lot contaminants would be minimized through regular sweeping/cleaning of parking lots.
- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations).
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the region. Materials such as concrete and concrete masonry units would be purchased local to the Project, minimizing the transport distances and resultant effects to road networks and regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel. These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 MW of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance

Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.

- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to ensure that the HVAC systems are performing to the high efficiency standards. HVAC systems would be all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.
- Energy efficient transformers (i.e., Square D Type EE transformers) are used.
- To the extent emergency back-up diesel generators are needed only Tier IV diesel generator engines or natural gas-powered would be used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%
- All appliances to be installed would meet or exceed Title 24 requirements.
- All building coatings and paints would be low-VOC coatings.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage.
- Costco delivery trucks would be model year 2010 or newer and use ultra-low sulfur diesel fuel (ULSD) or biodiesel blend with sulfur content of 15 ppm or less so long as such fuel is commercially available.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training would be provided and signage would be installed to ensure that all truck idling is limited to a maximum of two minutes.

- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and idling.
- Costco would include signage at docks, delivery areas and along truck routes to facilitate traffic and limit idling.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each building.
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.
- Costco would provide on-site meal options for employees (e.g., micro market vending machines that offer drink and food for sale to employees or food trucks [as regulated by Section 10.08.3193 – Mobile Food Vendors of the City's Municipal Code]) to minimize off-site employee trips during shifts.

IMPACTS AND MITIGATION MEASURES

Impact 3.3-1: Project operation would conflict with or obstruct implementation of the District's air quality plan. (Significant and Unavoidable)

The CEQA Guidelines indicate that a significant impact would occur if the proposed Project would conflict with or obstruct implementation of the applicable Air Quality Attainment Plan (AQAP). The CARB has developed a three-step approach to determine project conformity with the applicable AQAP:

- *Determination that an AQAP is being implemented in the area where the project is being proposed.*
- *The proposed project must be consistent with the growth assumptions of the applicable AQAP.*
- *The project must contain in its design all reasonably available and feasible air quality control measures.*

The proposed Project is in conformance with the AQAP, based on these criteria, as follows:

- *Determination that an AQAP is being implemented in the area where the project is being proposed.*

The SJVAPCD has implemented the current, modified 2016 8-hour AQAP as approved by CARB and approved by USEPA for the 2008 8-hour O_3 standard.

- *The proposed project must be consistent with the growth assumptions of the applicable AQAP.*

The San Joaquin Council of Governments (SJCOG) Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) growth projections provide for future employment/population factors. The development of the SJVAPCD AQAP is based in part on the land use general plan projections of the various cities and counties that constitute the Air Basin. The City of Tracy General Plan Land Use Element designates the Project site as Industrial, which is intended to accommodate flex/office space, manufacturing, warehousing and distribution, and ancillary uses for workers' needs. Therefore, the proposed Project, which involves the development of light industrial, warehouse and distribution and related uses, is considered consistent with the site's General Plan land use designation and its traffic would be included in volumes projected for analysis of the General Plan. The SJVAPCD AQAP is based on the growth assumptions of the City of Tracy General Plan and SJCOG RTP/SCS. Since the Project is consistent with the SJCOG RTP/SCS, and SJCOG RTP/SCS projections are incorporated into the SIP, the Project is also consistent with the SIP.

- *The project must contain in its design all reasonably available and feasible air quality control measures.*

The Project incorporates various policy and rule-required implementation measures that would reduce related emissions, including all of the current Air District rules and regulations.[10] For example, the proposed Project would be required to implement Air District Rule 9510, which ensures that the Project would fulfill the Air District's emissions reduction commitments in the relevant PM_{10} and Ozone Attainment plans.[11] In addition, the Project would comply with all applicable stationary source permitting rules implemented by SJVAPCD, which further confirms the Project would not cause or contribute to any ambient air quality standard exceedances.

Nevertheless, for the sake of a conservative assessment, the proposed Project's potential impact to this environmental topic is considered ***significant and unavoidable.*** Therefore, the proposed Project would be required to implement Mitigation Measure 3.3-1, as provided below.

MITIGATION MEASURE(S)

Mitigation Measure 3.3-1: *During Project operation, operators of heavy-duty trucks that travel to and from the Project site are required to use trucks that have 2010 model year or newer engines that meet the CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions, or newer, cleaner trucks and equipment.*

Impact 3.3-2: The proposed Project would result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard. (Significant and Unavoidable)

If an area is in nonattainment for a criteria pollutant, then the background concentration of that pollutant has historically exceeded the ambient air quality standard. It follows that if a Project

[10] See here for further detail: https://www.valleyair.org/rules/1ruleslist.htm

[11] Compliance with Air District Rule 9510 is assumed under CEQA.

exceeds the regional threshold for that nonattainment pollutant, then it would result in a cumulatively considerable net increase of that pollutant and result in a significant cumulative impact.

The Air Basin is in nonattainment for PM_{10}, $PM_{2.5}$, and ozone. Therefore, if the proposed Project exceeds the regional thresholds for PM_{10}, or $PM_{2.5}$, then it would contribute to a cumulatively considerable impact for those pollutants. If the proposed Project exceeds the regional threshold for NOx or VOC (which are precursors to ozone), then it follows that the proposed Project would result in a cumulatively considerable contribution and thus result in a significant cumulative impact for ozone.

Regional emissions include those generated from all on-site and off-site activities. Regional significance thresholds have been established by the SJVAPCD because emissions from projects in the Air Basin can potentially contribute to the existing emission burden and possibly affect the attainment and maintenance of ambient air quality standards. Projects within the Air Basin with regional emissions that exceed any of the thresholds presented previously are considered to have a significant regional air quality impact.

CONSTRUCTION EMISSIONS

Emissions from construction activities represent temporary impacts that are typically short in duration, depending on the size, phasing, and type of project. Construction-related activities would result in Project-generated emissions from site preparation, grading, paving, building construction, and architectural coatings. CalEEMod™ (v.2022.1) was used to estimate construction emissions for the proposed Project. Table 3.3-9, below, provides the construction criteria pollutant emissions and thresholds associated with implementation of the proposed Project. It should be noted that the SJVAPCD recommends the same criteria pollutant thresholds for both construction and operational emissions, as provided within the *SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts* (2015).

TABLE 3.3-9: CONSTRUCTION PROJECT GENERATED EMISSIONS (TONS PER YEAR)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	**100**	**10**	**10**	**27**	**15**	**15**
YEAR 2024	6.84	1.17	0.16	0.01	0.56	0.20
YEAR 2025	17.88	5.40	0.96	0.04	1.99	0.66
YEAR 2026	5.76	2.55	0.40	0.02	0.92	0.26
MAXIMUM EMISSIONS	**17.88**	**5.40**	**0.96**	**0.04**	**1.99**	**0.66**
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

Additionally, the SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The

screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-10) provides the proposed Project's construction emissions in pounds per day in comparison to these screening thresholds.

TABLE 3.3-10: CONSTRUCTION PROJECT GENERATED EMISSIONS (POUNDS PER DAY)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD (POUNDS/DAY)	**100**	**100**	**100**	**100**	**100**	**100**
YEAR 2024	94.8	11.6	1.03	0.07	0.27	0.25
YEAR 2025	90.2	23.68	2.93	0.14	0.68	0.65
YEAR 2026	33.3	12.43	1.27	0.05	0.28	0.26
MAXIMUM EMISSIONS	**94.8**	**23.68**	**2.93**	**0.14**	**0.68**	**0.65**
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE.

If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for construction-generated emissions, the proposed Project would have a significant impact on air quality. As shown in Table 3.3-9, the proposed Project would not exceed the SJVAPCD thresholds of significance for construction criteria pollutants. As shown in Table 3.3-10, the proposed Project would also not exceed the daily mass screening criteria thresholds during Project construction. Therefore, the Project's construction-related criteria pollutant emissions would be considered to have a ***less than significant*** impact.

OPERATIONAL EMISSIONS

The SJVAPCD is tasked with implementing programs and regulations required by the FCAA and the CCAA. In that capacity, the SJVAPCD has prepared plans to attain Federal and State ambient air quality standards. To achieve attainment with the standards, the SJVAPCD has established thresholds of significance for criteria pollutant emissions in its *Guidance for Assessing and Mitigating Air Quality Impacts* (2015). Projects with emissions below the thresholds of significance for criteria pollutants would be determined to "Not conflict or obstruct implementation of the District's air quality plan," and also to not have a cumulatively considerable net increase of a criteria pollutant for which the project region is in non-attainment. If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for operational-generated emissions, the proposed Project will have a significant impact on air quality and all feasible mitigation measures must be implemented to reduce emissions.

Mobile source emissions will be generated by the Project due to the vehicle travel expected to occur to and from the Project site. According to the Traffic Analysis (Kimley Horn) (as provided in Appendix F of the Draft EIR), the proposed Project is anticipated to generate approximately 2,576 passenger vehicle trips and 1,224 heavy-duty truck trips per day. It should also be noted that, as described previously, this Recirculated Draft EIR employs models of emissions that have been rerun assuming that the average trip length for all project truck trips is 29 miles. This reflects the average truck trip length within the San Joaquin County transportation model. The County model is a three-county

model covering San Joaquin, Stanislaus and Merced Counties, all of which are within the San Joaquin Valley Air Pollution Control District boundaries.

CalEEMod™ (v.2022.1) was used to model operational emissions of the proposed Project. Table 3.3-11 and Table 3.3-12 show proposed Project emissions as provided by CalEEMod ('without Project sustainability features'), in tons per year and pounds per day, respectively. Table 3.3-11 includes the individual Project buildings' emissions separately, in addition to the total Project emissions, for the sake of additional disclosure. As shown in Table 3.3-11 below, total Project operational emissions would exceed the SJVACPD thresholds of significance for NOx, under the 'without Project sustainability features' scenario, in terms of tons per day (primarily due to operation of Building 2).

TABLE 3.3-11: OPERATIONAL PROJECT GENERATED EMISSIONS (TONS PER YEAR) – WITHOUT PROJECT SUSTAINABILITY FEATURES

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	100	10	10	27	15	15
EMISSIONS – BUILDING 1 ONLY	12.4	7.30	2.45	0.07	3.67	1.04
EMISSIONS – BUILDING 2 ONLY	27.5	16.1	5.32	0.2	8.13	2.30
EMISSIONS – TOTAL PROJECT[1]	39.9	23.4	7.69	0.23	11.8	3.33
EXCEEDS THRESHOLD?	**N**	**Y**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: [1]THE SUM OF INDIVIDUAL BUILDINGS' EMISSIONS MAY NOT EXACTLY EQUAL THE TOTAL PROJECT EMISSIONS DUE TO ROUNDING, AS WELL AS DUE TO A CONSERVATIVE OVERCOUNTING OF THE TOTAL PROJECT ASPHALT AREAS FOR EACH INDIVIDUAL PROJECT BUILDING WITHIN THE 'INDIVIDUAL BUILDING' SCENARIOS.

The SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-12) provides the proposed Project's 'without Project sustainability features' operational emissions in pounds per day in comparison to these screening thresholds. As shown in Table 3.3-12, under the 'without Project sustainability features' scenario, the proposed Project's operational emissions would not exceed any of the daily mass screening criteria thresholds.

TABLE 3.3-12: OPERATIONAL PROJECT GENERATED EMISSIONS (POUNDS PER DAY) - WITHOUT PROJECT SUSTAINABILITY FEATURES

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD (POUNDS/DAY)	100	100	100	100	100	100
EMISSIONS – TOTAL PROJECT	88.9	10.2	34.7	0.1	3.8	1.2
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: THE SUM OF INDIVIDUAL BUILDINGS' EMISSIONS MAY NOT EXACTLY EQUAL THE TOTAL PROJECT EMISSIONS DUE TO ROUNDING, AS WELL AS DUE TO A CONSERVATIVE OVERCOUNTING OF THE TOTAL PROJECT ASPHALT AREAS FOR EACH INDIVIDUAL PROJECT BUILDING WITHIN THE 'INDIVIDUAL BUILDING' SCENARIOS.

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE. THIS EXCLUDES "MOBILE" EMISSIONS, EXCEPT FOR APPROXIMATELY 5.2% OF MOBILE EMISSIONS THAT ARE ESTIMATED TO BE ON-SITE, USING A CONSERVATIVE ESTIMATE OF THE ON-SITE MOBILE TRAVEL (1.110701 MILES) DIVIDED BY THE AVERAGE VEHICLE TRIP LENGTH MODELED FOR THE PROJECT OF 21.37224776 MILES.

Proposed Project operational emissions 'inclusive of quantified Project Sustainability features' are shown in Table 3.3-13 and Table 3.3-14, based on implementation of SJVAPCD Rule 9510. While compliance with SJVAPCD Rule 9510 is regulatorily required, the rule itself is an indirect source rule designed to achieve emission reductions from development projects. Thus, it is included here to represent the SJVAPCD regulatory requirement to mitigate the operational emissions.[12] The proposed Project would also be required to implement Mitigation Measure 3.3-1, as provided under Impact 3.3-1. However, due to the difficulty in modeling the emissions (i.e., NOx emissions) reductions that would occur due to implementation of Mitigation Measure 3.3-1, the emissions reductions associated with Mitigation Measure 3.3-1 were not modeled. Thus, Table 3.3-13 and Table 3.3-14 provide a conservative estimate of the operational emissions results for the proposed Project, with the quantified Project sustainability features accounted for.

TABLE 3.3-13: OPERATIONAL PROJECT GENERATED EMISSIONS (TONS PER YEAR) – INCLUSIVE OF QUANTIFIED PROJECT SUSTAINABILITY FEATURES

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	100	10	10	27	15	15
EMISSIONS	39.9	15.6	7.69	0.23	11.8	3.33
EXCEEDS THRESHOLD?	**N**	**Y**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

[12] The NOx emissions were adjusted to reflect the 33.3% reduction required, per compliance with Air District Rule 9510.

TABLE 3.3-14: OPERATIONAL PROJECT GENERATED EMISSIONS (POUNDS PER DAY) – INCLUSIVE OF QUANTIFIED PROJECT SUSTAINABILITY FEATURES

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	100	100	100	100	100	100
EMISSIONS	88.9	6.8	34.7	0.1	3.8	1.2
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: THE SUM OF INDIVIDUAL BUILDINGS' EMISSIONS MAY NOT EXACTLY EQUAL THE TOTAL PROJECT EMISSIONS DUE TO ROUNDING, AS WELL AS DUE TO A CONSERVATIVE OVERCOUNTING OF THE TOTAL PROJECT ASPHALT AREAS FOR EACH INDIVIDUAL PROJECT BUILDING WITHIN THE 'INDIVIDUAL BUILDING' SCENARIOS.

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE. THIS EXCLUDES "MOBILE" EMISSIONS, EXCEPT FOR APPROXIMATELY 5.2% OF MOBILE EMISSIONS THAT ARE ESTIMATED TO BE ON-SITE, USING A CONSERVATIVE ESTIMATE OF THE ON-SITE MOBILE TRAVEL (1.110701 MILES) DIVIDED BY THE AVERAGE VEHICLE LENGTH FOR THE PROJECT OF 21.37224776 MILES.

The emission estimates provided in Table 3.3-13 and Table 3.3-14 demonstrate a reasonable worst-case scenario for Project operation. Because the operational emissions shown therein would exceed the SJVAPCD's significance thresholds for NOx, this impact would remain ***significant and unavoidable***.

REGULATORY COMPLIANCE

In accordance with SJVAPCD Rule 9510, an Air Impact Assessment (AIA) shall be prepared based on the applicability and exemption criteria of Rule 9510.[13] The rule includes general mitigation requirements for construction and/or operational emissions. Per the general mitigation requirements of Rule 9510, the Project shall reduce the project's operational baseline NOx emissions by 33.3% over a period of ten years as quantified in the approved AIA. The project shall pay any off-site fees in full by the invoice due date or prior to generating the emissions associated with the Project or any phase thereof, whichever occurs first.

Separately, prior to the issuance of a Grading Permit for each phase of the Project, the Project Proponent shall prepare and submit a Dust Control Plan that meets all of the applicable requirements of APCD Rule 8021, Section 6.3. Additionally, the Project would be required to implement dust control measures that include application of water or chemical dust suppressants to unpaved roads and graded areas, covering or stabilization of transported bulk materials, prevention of carryout or trackout of soil materials to public roads, limiting the area subject to soil disturbance, construction of wind barriers, access restrictions to inactive sites, as required by the applicable rules. The Project would also be required to, during all construction activities, implement the dust control practices identified in Tables 6-2 and 6-3 of the GAMAQI (2002).

[13] Available at: https://www.valleyair.org/rules/currntrules/r9510-a.pdf. Accessed: September 2023.

CONCLUSION

Criteria pollutant emissions generated by the proposed Project during operation would exceed applicable thresholds after compliance with all rules and regulations, even after implementation of Mitigation Measure 3.3-1. No other feasible mitigation measure exists to reduce the applicable operational criteria pollutant impacts to below the applicable SJVAPCD thresholds. Therefore, this impact would be ***significant and unavoidable***.

MITIGATION MEASURE(S)

Implement Mitigation Measure 3.3-1.

Impact 3.3-3: The proposed Project would not expose sensitive receptors to substantial pollutant concentrations. (Less than Significant)

TOXIC AIR CONTAMINANTS

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. There are no traditional sensitive receptors such as residences, convalescent facilities, or schools that are proposed as part of the proposed Project. The closest residential receptors to the Project are located as follows:

- A cluster of farmhouses/residences is located along the western portion of the Project site, adjacent to the Project site[14];
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and
- An additional residence is located approximately 2,650 feet to the southeast of the Project site.

Additionally, workplace receptors are considered to be located throughout the entirety of the Project site, as required to be analyzed by the SJVAPCD.

Heavy-duty trucks are a common source of Diesel Particulate Matter (DPM), in contrast to passenger vehicles (such as light-duty cars and trucks). The inhalation of DPM generates cancer and non-cancer

[14] This receptor represents the maximally exposed residential receptor, at 25730 Hansen Road. See Appendix A.3 of this Recirculated Draft EIR for further detail.

health risks, especially where concentrations are elevated for long periods of time and for younger sensitive receptors. The SJVAPCD's GAMAQI (SJVAPCD, 2015) includes procedures for evaluating hazardous air pollutants. Based on the guidance provided in the GAMAQI, an air toxics health impact analysis has been prepared for the proposed Project to analyze the Project's anticipated impacts from diesel exhaust emitted by heavy-duty trucks operated as part of the Project.

An air toxics health risk assessment was conducted utilizing Lakes Environmental Software AERMOD and the CARB's Hotspots Analysis Reporting Program Version 2 (HARP 2) Air Dispersion, Modelling, and Risk Tool (ADMRT) for the DPM associated with the heavy-duty trucks. Emissions associated with truck idling and truck on-site travel were calculated. The maximum residential (70-year exposure) cancer, workplace (40-year exposure) cancer, chronic (non-cancer), and acute (non-cancer) risks were assessed and compared to SVJAPCD thresholds. See Appendix A.3 of this Recirculated Draft EIR for full model inputs. Table 3.3-15 summarizes the results of the analysis.

Separately, Project construction would generate DPM emissions from the use of off-road diesel equipment required. The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards).

The use of diesel-powered construction equipment would be temporary and episodic. The duration of exposure would be short and exhaust from construction equipment would dissipate rapidly. Current models and methodologies for conducting health risk assessments are associated with longer-term exposure periods of 9, 30, and 70 years, which do not correlate well with the temporary and highly variable nature of construction activities. Given that construction is anticipated to occur over the course of approximately two years, construction health risks associated with construction of this timeframe were evaluated. See Appendix A.3 for further detail.

The California Office of Environmental Health Hazard Assessment has not identified short-term health effects from DPM. Construction activities would be subject to and would comply with California regulations limiting the idling of heavy-duty construction equipment to no more than five minutes to further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions.

The maximum residential cancer risk would occur at a residence located on Hansen Road, to the west of the Project site (at 25730 Hansen Road), at a total of approximately 1.66 per million. The maximum workplace cancer risk would occur at the northern entrance to the Project site, along Schulte Road, with a maximum risk of up to 0.81 per million (at the location of maximum workplace cancer risk). These risks are well below the applicable SJVAPCD thresholds. As shown in Table 3.3-15, which identifies the combined health risks associated with both construction and operational, the proposed Project, in and of itself, would not result in a significant increased exposure of receptors to localized concentrations of TACs. Risk of residential cancer risk, workplace cancer risk, and chronic and acute non-cancer risks are below the applicable SJVAPCD TAC thresholds. Further detail is provided in the Health Risk Assessment provided in Appendix A.3. Therefore, implementation of the proposed Project would cause a ***less than significant*** impact relative to this topic since it is under the threshold established by the SJVAPCD.

TABLE 3.3-15: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	*MAXIMUM RISK*	*SIGNIFICANCE THRESHOLD*	*IS THRESHOLD EXCEEDED?*
OPERATIONAL			
Residential Cancer Risk (70-year exposure)	0.72 per million	20 per million	No
Workplace Cancer Risk (40-year exposure)	0.74 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No
CONSTRUCTION			
Residential Cancer Risk (2-year exposure)	0.94 per million	20 per million	No
Workplace Cancer Risk (2-year exposure)	0.07 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No
TOTAL			
Residential Cancer Risk (Aggregrate)	1.66 per million	20 per million	No
Workplace Cancer Risk (Aggregrate)	0.81 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No

SOURCES: AERMOD 11.2.0 (LAKES ENVIRONMENTAL SOFTWARE, 2023); AND HARP-2 AIR DISPERSION AND RISK TOOL (VERSION 22118).

VALLEY FEVER

Valley Fever, or coccidioidomycosis, is an infection caused by inhalation of the spores of the fungus, Coccidioides immitis (C. immitis). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities.

The San Joaquin Valley is considered an endemic area for Valley Fever. By geographic region, hospitalizations for Valley Fever in the San Joaquin Valley increased from 230 (6.9 per 100,000 population) in 2000 to 701 (17.7 per 100,000 population) in 2007. Within the region, Kern County reported the highest hospitalization rates, increasing from 121 (18.2 per 100,000 population) in 2000 to 285 (34.9 per 100,000 population) in 2007, and peaking in 2005 at 353 hospitalizations (45.8 per 100,000 population). The Centers for Disease Control and Prevention indicates that 752 of the

8,657 persons (8.7 percent) hospitalized in California between 2000 and 2007 for Valley Fever died.[15]

The distribution of C. immitis within endemic areas is not uniform and C. immitis growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for C. immitis growth. Avoidance, when feasible, of sites favorable for the occurrence of C. immitis is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of C. immitis:[16]

1. Rodent burrows (often a favorable site for C. immitis, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
2. Prehistoric Indian campsites near fire pits.
3. Areas with sparse vegetation and alkaline soils.
4. Areas with high salinity soils.
5. Areas adjacent to arroyos (where residual moisture may be available).
6. Packrat middens.
7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
8. Sandy well aerated soil with relatively high-water holding capacities.

Sites within endemic areas less favorable for the occurrence of C. immitis include:

1. Cultivated fields
2. Heavily vegetated areas (e.g., grassy lawns)
3. Higher elevations (above 7,000 feet)
4. Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied
5. Areas that are continually wet
6. Paved (asphalt or concrete) or oiled areas
7. Soils containing abundant microorganisms
8. Heavily urbanized areas where there is little undisturbed virgin soil

The Project site is relatively undeveloped and is surrounded by undeveloped, agricultural, industrial, and residential land uses that are semi-rural to urban in character. Because the majority of the Project site and the immediately surrounding vicinity consists of urbanized development or cultivated fields, the Project site is an area that would lead to a low probability of having C. immitis growth sites and exposure from disturbed soil.

Construction activities would generate fugitive dust that could contain C. immitis spores. The

[15] The Centers for Disease Control and Prevent (CDC). 2009. Increase in Coccidioidomycosis – California, 2000-2007. February 13. Website: https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5805a1.htm. Accessed June 8, 2022.

[16] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever). Website: http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.486.1526&rep=rep1&type=pdf. Accessed June 8, 2022.

proposed Project would be required to minimize the generation of fugitive dust during construction activities by complying with the SJVAPCD's District Rule 8021. District Rule 8021 requires limitation of fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities, by implementing control measures such as pre-watering the Project site, phasing construction work to reduce the amount of disturbed surface at any one time, and applying water or other suppressants to unpaved haul/access roads and unpaved vehicle/equipment traffic areas. Therefore, this regulation would ensure that Valley Fever impacts during construction are less than significant.

During operations, dust emissions are anticipated to be negligible, because the Project site would be occupied by buildings, pavement, and landscaped areas after construction is complete. Therefore, Project operations would not occur on undeveloped sites and dust emissions typically associated with activity on unpaved surfaces would be negligible. This condition would preclude the possibility of the proposed Project from generating significant fugitive dust that may contribute to Valley Fever exposure. Impacts would be ***less than significant***.

ASBESTOS AND LEAD-BASED PAINT EXPOSURE

According to a map of areas where naturally occurring asbestos in California is likely to occur, there are no such areas in the vicinity of the Project site.[17] Therefore, development of the proposed Project is not anticipated to expose receptors to naturally occurring asbestos. This impact would be ***less than significant***.

Impact 3.3-4: The proposed Project would not cause exposure to other emissions (such as those leading to odors) adversely affecting a substantial number of people. (Less than Significant)

The following text addresses odors. Other emissions (including criteria pollutants and TACs) are addressed in Impacts 3.3-1 through 3.3-4.

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the SJVAPCD. The general nuisance rule (Health and Safety Code §41700) is the basis for the threshold.

Examples of facilities that are known producers of odors include: Wastewater Treatment Facilities, Chemical Manufacturing, Sanitary Landfill, Fiberglass Manufacturing, Transfer Station, Painting/Coating Operations (e.g. auto body shops), Composting Facility, Food Processing Facility, Petroleum Refinery, Feed Lot/Dairy, Asphalt Batch Plant, and Rendering Plant.

[17] United States Geological Survey (USGS). 2011. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Website: https://pubs.usgs.gov/of/2011/1188/. Accessed June 8, 2022.

If a project proposes to locate receptors and known odor sources in proximity to each other, further analysis may be warranted. However, if a project would not locate receptors and known odor sources in proximity to each other, then further analysis is not warranted. The proposed Project does not include new industrial uses that are not already present in the vicinity of the Project site. There is a residence located near to the Project site to the west; however, it is proposed to be removed. Moreover, since the proposed Project would not be a source of offensive odors, sensitive receptors located near the Project site would not be exposed by the Project to significant odors that would affect a substantial number of people. Air district Rule 402 prohibits any mobile or stationary source generating an objectionable odor, with the exception of odors emanating from certain agricultural operations. The California Health and Safety Code §41700 and Air District Rule 402 prohibit emissions of air contaminants from any source that cause nuisance or annoyance to a considerable number of people or that present a threat to public health or cause property damage. Compliance with these rules would preclude land uses proposed under the proposed Project from emitting objectionable odors.

CONCLUSION

The proposed Project does not propose uses that would create new odors that would adversely affect a substantial number of people. The proposed Project also does not introduce any new sensitive receptors. Therefore, operation of the proposed Project would not result in significant objectionable odors. Impacts associated with exposure to odors would be ***less than significant.***

This section discusses regional greenhouse gas (GHG) emissions, climate change, and energy impacts that could result from Project implementation. The analysis contained in this section is intended to be at a Project level, and covers impacts associated with the conversion of the entire site to urban uses. This section provides a background discussion of greenhouse gases and climate change linkages and effects of global climate change. This section is organized with an existing setting, regulatory setting, approach/methodology, and impact analysis. The analysis and discussion of the GHG, climate change, and energy conservation impacts in this section focuses on the proposed Project's consistency with local, regional, and statewide climate change planning efforts and discusses the context of these planning efforts as they relate to the proposed Project. Disclosure and discussion of the Project's estimated energy usage and greenhouse gas emissions are provided.

One comment from the San Joaquin Valley Air Pollution Control District (SJVAPCD) was received during the public review period or scoping meeting for the Notice of Preparation regarding this topic (October 29, 2021). This comment is addressed within this section. The full comment is included in Appendix A of the originally circulated Draft EIR.

3.7.1 ENVIRONMENTAL SETTING

GREENHOUSE GASES AND CLIMATE CHANGE LINKAGES

Various gases in the Earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the Earth's surface temperature. Solar radiation enters Earth's atmosphere from space, and a portion of the radiation is absorbed by the Earth's surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation.

Naturally occurring GHGs include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and ozone (O_3). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also GHGs, but they are, for the most part, solely a product of industrial activities. Although the direct GHGs CO_2, CH_4, and N_2O occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2019, concentrations of these three GHGs have increased globally by 47, 156, and 23 percent, respectively (IPCC, 2023).

GHGs, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs).

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and

agricultural sectors. In California, the transportation sector is the largest emitter of GHGs, followed by the industrial and electricity generation sectors (California Energy Commission, 2023).

As the name implies, global climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern, respectively. California produced 369 million gross metric tons of carbon dioxide equivalents ($MMTCO_2e$) in 2022 (California Air Resources Board, 2023).

Carbon dioxide equivalents are a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. This potential, known as the global warming potential of a GHG, is also dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted.

Consumption of fossil fuels in the transportation sector was the single largest source of California's GHG emissions in 2022, accounting for 38% of total GHG emissions in the State. This category was followed by the industrial sector (23%), the electricity generation sector (including both in-state and out of-state sources) (16%), the agriculture and forestry sector (9%), the residential energy consumption sector (8%), and the commercial energy consumption sector (6%) (California Air Resources Board, 2023).

EFFECTS OF GLOBAL CLIMATE CHANGE

The effects of increasing global temperature are far-reaching and extremely difficult to quantify. The scientific community continues to study the effects of global climate change. In general, increases in the ambient global temperature as a result of increased GHGs are anticipated to result in rising sea levels, which could threaten coastal areas through accelerated coastal erosion, threats to levees and inland water systems and disruption to coastal wetlands and habitat.

If the temperature of the ocean warms, it is anticipated that the winter snow season would be shortened. Snowpack in the Sierra Nevada provides both water supply (runoff) and storage (within the snowpack before melting), which is a major source of supply for the State. The snowpack portion of the supply could potentially decline by 50% to 75% by the end of the 21st century (National Resources Defense Council, 2014). This phenomenon could lead to significant challenges securing an adequate water supply for a growing state population. Further, the increased ocean temperature could result in increased moisture flux into the State; however, since this would likely increasingly come in the form of rain rather than snow in the high elevations, increased precipitation could lead to increased potential and severity of flood events, placing more pressure on California's levee/flood control system.

Sea level has risen approximately seven inches during the last century and it is predicted to rise an additional 22 to 35 inches by 2100, depending on the future GHG emissions levels (California Environmental Protection Agency, 2010). If this occurs, resultant effects could include increased coastal flooding, saltwater intrusion and disruption of wetlands. As the existing climate throughout

California changes over time, mass migration of species, or failure of species to migrate in time to adapt to the perturbations in climate, could also result. According to the Indicators of Climate Change in California report (OEHHA, 2022), the impacts of global warming in California are anticipated to include, but are not limited to, those discussed below.

Public Health

Higher temperatures are expected to increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation are projected to increase from 25% to 35% under the lower warming range and to 75% to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures will increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts capture and transport water throughout the State from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snow pack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snow pack, increasing the risk of summer water shortages.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater would degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta, a major State fresh water supply. Global warming is also projected to seriously affect agricultural areas, with California farmers projected to lose as much as 25% of the water supply they need; decrease the potential for hydropower production within the State (although the effects on hydropower are uncertain); and seriously harm winter tourism. Under the lower warming range, the snow dependent winter recreational season at lower elevations could be reduced by as much as one month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing, snowboarding, and other snow dependent recreational activities.

If GHG emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snow pack by as much as 70% to 90%. Under the lower warming scenario, snow pack losses are expected to be only half as large

as those expected if temperatures were to rise to the higher warming range. How much snow pack will be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snow pack would pose challenges to water managers, hamper hydropower generation, and nearly eliminate all skiing and other snow-related recreational activities.

Agriculture

Increased GHG emissions are expected to cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. Although higher carbon dioxide levels can stimulate plant production and increase plant water-use efficiency, California's farmers will face greater water demand for crops and a less reliable water supply as temperatures rise.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures are likely to worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts, and milk.

Crop growth and development will be affected, as will the intensity and frequency of pest and disease outbreaks. Rising temperatures will likely aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

In addition, continued global warming will likely shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion is expected in many species while range contractions are less likely in rapidly evolving species with significant populations already established. Should range contractions occur, it is likely that new or different weed species will fill the emerging gaps. Continued global warming is also likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

Global warming is expected to alter the distribution and character of natural vegetation thereby resulting in a possible increased risk of large wildfires. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the State. For example, if precipitation increases as temperatures rise, wildfires in southern California are expected to increase by approximately 30% toward the end of the century. In contrast, precipitation decreases could increase wildfires in northern California by up to 90%.

Moreover, continued global warming will alter natural ecosystems and biological diversity within the State. For example, alpine and sub-alpine ecosystems are expected to decline by as much as 60%

to 80% by the end of the century as a result of increasing temperatures. The productivity of the State's forests is also expected to decrease as a result of global warming.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures will increasingly threaten the State's coastal regions. Under the higher warming scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

ENERGY CONSUMPTION

Energy in California is consumed from a wide variety of sources. Fossil fuels (including gasoline and diesel fuel, natural gas, and energy used to generate electricity) are the most widely used form of energy in the State. However, renewable sources of energy (such as solar and wind) are growing in proportion to California's overall energy mix. A large driver of renewable sources of energy in California is the State's current Renewable Portfolio Standard (RPS), which requires the State to derive at least 60 percent of electricity generated by 2030, and to achieve zero-carbon emissions by 2045 (as passed in September 2018, under Senate Bill 100). The 2021 SB 100 Joint Agency Report was published in 2021, which found that the long-term goals contained in SB 100 are technically achievable through multiple pathways, although achieving 100 clean electricity would increase the total annual electricity system cost by 6% relative to the cost under the state's Renewables Portfolio Standard requirement of having at least 60 percent clean electricity by the end of 2030. These estimates will change over time as markets change, new technologies are commercialized, and additional factors such as grid reliability are included in future analyses.

Overall, in 2019, California's per capita energy usage was ranked second-lowest in the nation (U.S. EIA, 2020b). California's per capita rate of energy usage has remained relatively constant since the 1970's. Many State regulations since the 1970s, including new building energy efficiency standards, vehicle fleet efficiency measures, as well as growing public awareness, have helped to keep per capita energy usage in the State in check.

The consumption of non-renewable energy (i.e., fossil fuels) associated with the operation of passenger, public transit, and commercial vehicles results in GHG emissions that contribute to global climate change. Alternative fuels such as natural gas, ethanol, and electricity (unless derived from solar, wind, nuclear, or other energy sources that do not produce carbon emissions) also result in GHG emissions and contribute to global climate change.

Electricity Consumption

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and a very small amount of nuclear generation resources. In 2020, nearly one-half of the electricity supply came from facilities outside of the State. Much of the power delivered to California from states in the Pacific Northwest was generated by wind. States in the Southwest delivered power generated at coal-fired power plants, at natural gas-fired power plants, and from

nuclear generating stations (U.S. EIA, 2022). In 2020, approximately 41 percent of California's utility-scale net electricity generation was fueled by natural gas. In addition, about 48 percent of the State's utility-scale net electricity generation came from renewable sources, such as solar, wind, geothermal, hydropower, and biomass. Nuclear energy powered an additional 11 percent. The amount of electricity generated from coal was effectively zero (U.S. EIA, 2022). The percentage of renewable resources as a proportion of California's overall energy portfolio is increasing over time, as directed the State's Renewable Portfolio Standard (RPS).

According to the California Energy Commission (CEC), total statewide electricity consumption increased from 166,979 gigawatt-hours (GWh) in 1980 to 228,038 GWh in 1990, which is an estimated annual growth rate of 3.66 percent. The statewide electricity consumption in 1997 was 246,225 GWh, reflecting an annual growth rate of 1.14 percent between 1990 and 1997 (U.S. EIA, 2023b). Statewide consumption was 274,985 GWh in 2010, an annual growth rate of 0.9 percent between 1997 and 2010. In 2021, electricity consumption in San Joaquin County was 5,608 GWh (California Energy Commission, 2023).

PG&E is a publicly traded utility company that, under contract with the California Public Utilities Commission (CPUC), generates, purchases, and distributes energy. PG&E's service area covers 70,000 square miles, roughly extending north to south from Eureka to Bakersfield and east to west from the Sierra Nevada to the Pacific Ocean. PG&E's electricity distribution system consists of 106,681 circuit miles of electric distribution lines and 18,466 circuit miles of interconnected transmission lines.

PG&E's electricity is generated from a combination of traditional sources, such as coal-fired plants, nuclear power plants, and hydroelectric dams, as well as newer sources of energy, such as wind turbines and photovoltaic plants, or "solar farms." "The grid," or bulk electric grid, is a network of high-voltage transmission lines that link power plants to the PG&E system. The distribution system, comprising lower-voltage secondary lines, is at the street and neighborhood level. It consists of overhead or underground distribution lines, transformers, and individual service "drops" that connect to individual customers.

In addition to its base plan, PG&E has three plan options, known as Solar Choice options and Green Saver, which give customers the option of purchasing energy from solar resources. The first Solar Choice option provides up to 50 percent of a customer's energy from solar resources, while the other option provides up to 100 percent of a customer's energy from solar resources, and the Green Saver option provides up to 90 percent of a customer's energy from solar resources.

Table 3.7-1 outlines PG&E's power mix in 2021, compared to the power mix for the state. The table identifies the renewable and non-renewable energy sources for PG&E. It should be noted that some GHG free sources are not considered renewable (e.g., nuclear is GHG free but not renewable).

TABLE 3.7-1. PG&E AND THE STATE OF CALIFORNIA POWER MIX IN 2021

ENERGY RESOURCES	*PG&E OPTION: BASE*	*PG&E OPTION: 50% SOLAR CHOICE*	*PG&E OPTION: 100% SOLAR*	*PG&E OPTION: GREEN SAVER*	*CALIFORNIA POWER MIX 2021*
Eligible Renewable	47.7%	70.9%	93.9%	89.9%	33.6%
Biomass and waste	4.2%	2.1%	0.0%	0.0%	2.3%
Geothermal	5.2%	2.6%	0.0%	0.0%	4.8%
Small hydroelectric	1.8%	0.9%	0.0%	0.0%	1.0%
Solar	25.7%	59.8%	93.9%	89.9%	14.2%
Wind	10.9%	5.5%	0.0%	0.0%	11.4%
Coal	0.0%	0.0%	0.0%	0.0%	3.0%
Large Hydroelectric	4.0%	2.0%	0.0%	0.0%	9.2%
Natural Gas	8.9%	7.4%	0.0%	0.0%	37.9%
Nuclear	39.3%	19.7%	0.0%	0.0%	9.3%
Other	0.0%	0.0%	0.0%	0.0%	0.2%
Unspecified	0.0%	0.0%	6.1%	10.1%	6.8%

SOURCE: PG&E. 2021. 2021 POWER CONTENT LABEL. AVAILABLE: HTTPS://WWW.ENERGY.CA.GOV/FILEBROWSER/DOWNLOAD/4653. ACCESSED: NOVEMBER 10, 2023.

[A.] ELECTRICITY FROM TRANSACTIONS THAT ARE NOT TRACEABLE TO SPECIFIC GENERATION SOURCES ARE CLASSIFIED AS UNSPECIFIED SOURCES OF POWER.

In 2021, the latest year for which data is available, statewide consumption was 277,205 GWh (California Energy Commission, 2022). In 2020, electricity consumption in San Joaquin County was 5,737 GWh (California Energy Commission, 2021).

Oil

The primary energy source for the United States is oil, which is refined to produce fuels like gasoline, diesel, and jet fuel. Oil is a finite, nonrenewable energy source. World consumption of petroleum products has grown steadily in the last several decades. As of 2019, world consumption of oil had reached approximately 98 million barrels per day. The United States, with approximately five percent of the world's population, accounts for approximately 19 percent of world oil consumption, or approximately 18.6 million barrels per day (U.S. EIA, 2020c). The transportation sector relies heavily on oil. In California, petroleum-based fuels currently provide approximately 95 percent of the State's transportation energy needs.

Natural Gas/Propane

The State produces approximately 12 percent of its natural gas, while obtaining 22 percent from Canada and 65 percent from the Rockies and the Southwest (California Energy Commission, 2012).

PG&E is the largest publicly-traded utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. PG&E's natural gas (i.e., methane) delivery system includes 42,000 miles of natural gas distribution pipelines and 6,700 miles of transmission pipelines. PG&E's gas transmission system serves approximately 15 million energy customers in California. The system is operated under an inspection and monitoring program in real time on a 24-hour basis, with leak inspections, surveys, and patrols continuously taking place along the pipelines. Gas delivered by PG&E originates in gas fields in California, the Southwest, the Rocky Mountains, and Canada. Transmission pipelines send natural gas from the fields and storage facilities. The smaller distribution pipelines deliver gas to individual businesses or residences.

In As of March 2022, California produced 11.4 billion cubic feet of natural gas per month (U.S. EIA, 2022). PG&E is the largest publicly-owned utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. In 2018, natural gas consumption in San Joaquin County was 259 million therms (California Energy Commission, 2020).

3.7.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: National Ambient Air Quality Standards (NAAQS) for criteria air pollutants, hazardous air pollutant standards, State attainment plans, NAAQS motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The EPA is responsible for administering the FCAA. The FCAA requires the EPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

In 2007, in the court case of *Massachusetts et al. vs. the USEPA et al*. (549 U.S. 497), the U.S. Supreme Court found that GHGs are air pollutants covered by the federal Clean Air Act (42 USC Sections 7401-7671q). The Supreme Court held that the Administrator of the United States Environmental Protection Agency must determine whether or not emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the Administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the Administrator signed two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs (carbon dioxide, methane, nitrous oxide,

hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride) in the atmosphere threaten the public health and welfare of current and future generations.

- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not themselves impose any requirements on industry or other entities. However, this action was a prerequisite for implementing GHG emission standards for vehicles. In collaboration with the National Highway Traffic Safety Administration (NHTSA) and CARB, the USEPA developed emission standards for light-duty vehicles (2012-2025 model years), and heavy-duty vehicles (2014-2027 model years).

Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 sought to ensure that all vehicles sold in the U.S. would meet certain fuel economy goals. Through this Act, Congress established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the National Highway Traffic and Safety Administration, which is part of the U.S. Department of Transportation (USDOT), is responsible for establishing additional vehicle standards and for revising existing standards.

Since 1990, the fuel economy standard for new passenger cars has been 27.5 mpg. Since 1996, the fuel economy standard for new light trucks (gross vehicle weight of 8,500 pounds or less) has been 20.7 mpg. Heavy-duty vehicles (i.e., vehicles and trucks over 8,500 pounds gross vehicle weight) are not currently subject to fuel economy standards. Compliance with federal fuel economy standards is determined on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the U.S. The Corporate Average Fuel Economy (CAFE) program, which is administered by the EPA, was created to determine vehicle manufacturers' compliance with the fuel economy standards. The EPA calculates a CAFE value for each manufacturer based on city and highway fuel economy test results and vehicle sales. Based on the information generated under the CAFE program, the USDOT is authorized to assess penalties for noncompliance.

Federal Climate Change Policy

According to the U.S. EPA, "the United States government has established a comprehensive policy to address climate change" that includes slowing the growth of emissions; strengthening science, technology, and institutions; and enhancing international cooperation. To implement this policy, "the Federal government is using voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science." The U.S. EPA administers multiple programs that encourage voluntary GHG reductions, including "ENERGY STAR", "Climate Leaders", and Methane Voluntary Programs.

The following are actions taken at the federal level relating to GHG emissions.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On

May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the U.S. EPA and the Department of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program applies to passenger cars, light duty trucks, and medium duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. The U.S. EPA and the National Highway Safety Administration issued final rules on a second phase joint rulemaking, establishing national standards for light duty vehicles for model years 2017 through 2025 in August 2012.[1] The standards for model years 2017 through 2025 apply to passenger cars, light duty trucks, and medium duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO2 in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The U.S. EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies adopted engine and vehicle standards that began in the 2014 model year and achieved up to a 20 percent reduction in CO2 emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies adopted separate gasoline and diesel truck standards, which phased in starting in the 2014 model year.

Mandatory Reporting of Greenhouse Gases. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the U.S. EPA issued the Final Mandatory Reporting of Greenhouse Gases Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the United States and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the U.S. EPA.

Cap and Trade. Cap and trade refers to a policy tool where emissions are limited to a certain amount and can be traded, or provides flexibility on how the emitter can comply. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap and trade.

[1] United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. Website: http://www.epa.gov/otaq/climate/documents/420f12051.pdf. Accessed January 21, 2021.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Quebec. Currently, only California and Quebec are participating in the cap-and-trade program.

STATE

The California Legislature has enacted a series of statutes in recent years addressing the need to reduce GHG emissions across the State. These statutes can be categorized into four broad categories: (i) statutes setting numerical statewide targets for GHG reductions, and authorizing CARB to enact regulations to achieve such targets; (ii) statutes setting separate targets for increasing the use of renewable energy for the generation of electricity throughout the State; (iii) statutes addressing the carbon intensity of vehicle fuels, which prompted the adoption of regulations by CARB; and (iv) statutes intended to facilitate land use planning consistent with statewide climate objectives. The discussion below will address each of these key sets of statutes, as well as Executive Orders and CARB "Scoping Plans" intended to achieve GHG reductions under the first set of statutes and recent building code requirements intended to reduce energy consumption.

Statutes Setting Statewide GHG Reduction Targets

ASSEMBLY BILL 32 (GLOBAL WARMING SOLUTIONS ACT)

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006 (Health & Safety Code Section 38500 et seq.), also known as Assembly Bill (AB) 32 (Stats. 2006, ch. 488). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and a cap on statewide GHG emissions. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. This reduction was accomplished through an enforceable statewide cap on GHG emissions that was phased in starting in 2012. To effectively implement the cap, AB 32 directed the California Air Resources Board (CARB) to develop and implement regulations to reduce statewide GHG emissions from stationary sources.

SENATE BILL 32

SB 32 (Stats. 2016, ch. 249) added Section 38566 to the Health and Safety Code. It provides that "[i]n adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by [Division 25.5 of the Health and Safety Code], [CARB] shall ensure that statewide greenhouse gas emissions are reduced to at least 40 percent below the statewide greenhouse gas emissions limit no later than December 31, 2030." In other words, SB 32 requires California, by 2030, to reduce its statewide GHG emissions so that they are 40 percent below those that occurred in 1990.

EXECUTIVE ORDERS S-3-05, B-30-15, AND B-55-18

The 2020 statewide GHG reduction target in AB 32 was consistent with the second of three statewide emissions reduction targets set forth in former Governor Arnold Schwarzenegger's 2005 Executive Order known as S-3-05, which is expressly mentioned in AB 32. (See Health & Safety Code

Section 38501, subd. (i).) That Executive Branch document included the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; by 2050, reduce GHG emissions to 80 percent below 1990 levels. To meet the targets, the Governor directed several State agencies to cooperate in the development of a climate action plan. The Secretary of Cal-EPA leads the Climate Action Team, whose goal is to implement global warming emission reduction programs identified in the Climate Action Plan and to report on the progress made toward meeting the emission reduction targets established in the executive order.

In 2015, Governor Brown issued Executive Order, B-30-15, which created a "new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050." SB 32 codified this target.

In 2018, the Governor issued Executive Order B-55-18, which established a statewide goal to "achieve carbon neutrality as soon as possible, and no later than 2045, and maintain and achieve negative emissions thereafter." The order directs the CARB to work with other State agencies to identify and recommend measures to achieve those goals. As discussed below, the 2022 Scoping Plan lays out a path towards achieving carbon neutrality by 2045.

SB 350

Senate Bill 350 (SB 350) (Stats. 2015, ch. 547) added to the Public Utilities Code language that puts into statute the 2050 GHG reduction target identified in Executive Order S-3-05, albeit in the limited context of new state policies (i) increasing the overall share of electricity that must be produced through renewable energy sources and (ii) directing certain State agencies to begin planning for the widespread electrification of the California vehicle fleet. Section 740.12(a)(1)(D) of the Public Utilities Code states that "[t]he Legislature finds and declares [that] … [r]educing emissions of [GHGs] to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050 will require widespread transportation electrification." Furthermore, Section 740.12(b) states that the California Public Utilities Commission (CPUC), in consultation with CARB and the California Energy Commission (CEC), must "direct electrical corporations to file applications for programs and investments to accelerate widespread transportation electrification to reduce dependence on petroleum, meet air quality standards, … and reduce emissions of greenhouse gases to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050."

AB 1279

In September 2022, the Legislature enacted AB 1279 (Stats. 2022, ch. 337). The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

Statutes Setting Target for the Use of Renewable Energy for the Generation of Electricity

CALIFORNIA RENEWABLES PORTFOLIO STANDARD

Senate Bill X1-2 (Stats. 2011, 1st Ex. Sess., ch. 1) set aggressive statutory targets for renewable electricity, culminating in the requirement that 33 percent of the State's electricity come from renewables by 2020. This legislation applies to all electricity retailers in the State, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities were required to meet renewable energy goals of 20 percent of retail sales from renewables by the end of 2013, 25 percent by the end of 2016, and 33 percent by the end of 2020. (See Pub. Utility Code, Section 399.11 et seq. [subsequently amended].) SB 350, discussed below, increases the Renewable Portfolio Standard to require 50 percent of electricity generated to be from renewables by 2030. (Pub. Utility Code, Section 399.11, subd (a); see also Section 399.30, subd. (c)(2).) In 2018, Senate Bill 100 (Stats. 2018, ch. 312) revised the above-described deadlines and targets so that the State will have to achieve a 50% renewable resources target by December 31, 2026 (instead of by 2030) and achieve a 60% target by December 31, 2030. The legislation also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all State agencies by December 31, 2045.

Statutes and CARB Regulations Addressing the Carbon Intensity of Petroleum-based Transportation Fuels

ASSEMBLY BILL 1493, PAVLEY CLEAN CARS STANDARDS

In 2002, the Legislature enacted Assembly Bill 1493 ("Pavley Bill") (Stats. 2002, ch. 200), which directed CARB to develop and adopt regulations that achieve the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty trucks beginning with model year 2009. (See Health and Safety Code Section 43018.5.) In September 2004, pursuant to this directive, CARB approved regulations to reduce GHG emissions from new motor vehicles beginning with the 2009 model year. These regulations created what are commonly known as the "Pavley standards." In September 2009, CARB adopted amendments to the Pavley standards to reduce GHG emissions from new motor vehicles through the 2016 model year. These regulations created what are commonly known as the "Pavley II standards." (See California Code of Regulations, Title 13, Sections 1900, 1961, and 1961.1 et seq.)

In 2012, CARB adopted an Advanced Clean Cars (ACC) program aimed at reducing both smog-causing pollutants and GHG emissions for vehicles model years 2017-2025. This historic program, developed in coordination with the USEPA and NHTSA, combined the control of smog-causing (criteria) pollutants and GHG emissions into a single coordinated set of requirements for model years 2015 through 2025. The regulations focus on substantially increasing the number of plug-in hybrid cars and zero-emission vehicles in the vehicle fleet and on making fuels such as electricity and hydrogen readily available for these vehicle technologies. The components of the ACC program are the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and

medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles in the 2018 through 2025 model years. (See California Code of Regulations, Title 13, Sections 1900, 1961, 1961.1, 1961.2, 1961.3, 1965, 1968.2, 1968.5, 1976, 1978, 2037, 2038, 2062, 2112, 2139, 2140, 2145, 2147, 2235, and 2317 et seq.)

It is expected that the Pavley regulations will reduce GHG emissions from California passenger vehicles by about 34 percent below 2016 levels by 2025, all while improving fuel efficiency and reducing motorists' costs.

Statute Intended to Facilitate Land Use Planning Consistent with Statewide Climate Objectives

CALIFORNIA SENATE BILL 375 (SUSTAINABLE COMMUNITIES STRATEGY)

This 2008 legislation built on AB 32 by setting forth a mechanism for coordinating land use and transportation on a regional level for the purpose of reducing GHGs. The focus is to reduce miles traveled by passenger vehicles and light trucks. CARB is required to set GHG reduction targets for each metropolitan region for 2020 and 2035.[2] Each of California's metropolitan planning organizations then prepares a sustainable communities strategy that demonstrates how the region will meet its GHG reduction target through integrated land use, housing, and transportation planning. Once adopted by the metropolitan planning organizations, the sustainable communities strategy is to be incorporated into that region's federally enforceable regional transportation plan. If a metropolitan planning organization is unable to meet the targets through the sustainable communities strategy, then an alternative planning strategy must be developed that demonstrates how targets could be achieved, even if meeting the targets is deemed to be infeasible.

Climate Change Scoping Plans

2022 SCOPING PLAN UPDATE

In accordance with AB 32, the CARB developed the first Scoping Plan in 2008 to outline the State's strategy to achieve 1990 level emissions by year 2020. In May 2014, the CARB released and adopted the *First Update to the Climate Change Scoping Plan* to identify the next steps in reaching AB 32 goals and evaluate the progress that has been made between 2000 and 2012. A newer version of the Scoping Plan was then adopted by the CARB in December 2017 (entitled *California's 2017 Climate Change Scoping Plan*). Lastly, the most recent version of the Scoping Plan was adopted by the CARB in November 2022 (entitled *Final 2022 Scoping Plan for Achieving Carbon Neutrality*) (2022 Scoping Plan), which was designed consistent with the long-term GHG reduction targets embedded in AB 1279. Since adoption of the 2008 Scoping Plan and the subsequent updates in 2014, 2017, and 2022, State agencies have adopted programs identified in the plan, and the Legislature has passed additional legislation to achieve the GHG reduction targets. Statewide strategies to reduce GHG emissions include the Low Carbon Fuel Standard, California Appliance Energy Efficiency regulations,

[2] The San Joaquin COG region was assigned reduction targets of 12% by 2020 and 16% by 2035.

California Building Standards (e.g., CALGreen and the 2022 Building and Energy Efficiency Standards), zero carbon electricity by 2045, and changes in the corporate average fuel economy standards (e.g., Pavley I and California Advanced Clean Cars)).

Statutes Intended to Reduce Emissions of Short-lived Climate Pollutants

SB 605 AND SB 1383

SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy (Reduction Strategy) in March 2017. The Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases.

Statute Intended to Achieve Carbon Neutrality and Foster Climate Adaptation and Resilience

ASSEMBLY BILL 1757

AB 1757 (September 2022) requires the California Natural Resources Agency (CNRA) to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

Building Code Requirements Intended to Reduce GHG Emissions

CALIFORNIA ENERGY CODE

The California Energy Code (CCR Title 24, Part 6), which is incorporated into the Building Energy Efficiency Standards, was first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Although these standards were not originally intended to reduce GHG emissions, increased energy efficiency results in decreased GHG emissions because energy efficient buildings require less electricity and thus less consumption of fossil fuels, which emit GHGs. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods.

The most recent Title 24 standards are the 2022 Title 24 standards. Buildings permitted on or after January 1, 2023, must comply with the 2022 Standards. The California Energy Commission updates the standards every three years. The CEC estimates that the 2022 Title 24 standards will reduce 10 million metric tons of GHG over 30 years. When compared to the 2019 Title 24 standards, the 2022 update focuses on: encouraging electric heat pump technology and use; establishing electric-ready

requirements when natural gas is installed; expanding solar photovoltaic (PV) system and battery storage standards; and strengthening ventilation standards to improve indoor air quality.

CALIFORNIA GREEN BUILDING STANDARDS CODE

The purpose of the California Green Building Standards Code (CalGreen) (CCR Title 24, Part 11) is to improve public health and safety and to promote the general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: 1) planning and design; 2) energy efficiency; 3) water efficiency and conservation; 4) material conservation and resource efficiency; and 5) environmental quality. CalGreen, which became effective on January 1, 2011, instituted mandatory minimum environmental performance standards for all ground-up new construction of commercial, low-rise residential uses, and State-owned buildings, as well as schools and hospitals. The mandatory standards require the following:

- 20 percent mandatory reduction in indoor water use relative to baseline levels;
- 50 percent construction/demolition waste must be diverted from landfills;
- Mandatory inspections of energy systems to ensure optimal working efficiency; and
- Low-pollutant emitting exterior and interior finish materials such as paints, carpets, vinyl flooring, and particle boards.

The voluntary standards require the following:

- Tier I: 15 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 65 percent reduction in construction waste, 10 percent recycled content, 20 percent permeable paving, 20 percent cement reduction, and cool/solar reflective roof.
- Tier II: 30 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 75 percent reduction in construction waste, 15 percent recycled content, 30 percent permeable paving, 30 percent cement reduction, and cool/solar reflective roof.

The latest version of CalGreen is the 2022 CalGreen Code, which became effective on January 1, 2023. Between 2010 and 2022, continuous updates and additions have been made to CALGreen, including water conservation and recycling, electric vehicle infrastructure and charging, and changes intended to eliminate conflicts with the California Energy Code, which is Part 6 of Title 24.

TITLE 20

CCR Title 20 requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low-voltage

dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations, and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

SENATE BILL 1

SB 1 (Murray) (August 2006) established a $3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for homes and businesses within 10 years of adoption and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

SOLID WASTE

AB 939, AB 341, and AB 1826. In 1989, AB 939, known as the Integrated Waste Management Act (PRC Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal (CalRecycle, 2012).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses subject to the law decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

REGIONAL

PG&E adopted the 2020 Integrated Resource Plan (IRP) on September 1, 2020, to provide guidance for serving the electricity and natural gas needs of residents and businesses within its service area while fulfilling regulatory requirements. The IRP contains the following objectives that are relevant to the Project:

- Clean Energy: In 2021, PG&E delivered nearly 50 percent of its electricity from RPS-eligible renewable resources, such as solar, wind, geothermal, biomass, and small hydropower. In addition, PG&E's GHG-free energy production, which encompasses renewable resources, large hydropower, and nuclear, satisfied all of PG&E's bundled retail sales in 2021.

- Reliability: PG&E's IRP analysis includes PG&E's contribution to system and local reliability, in compliance with the CPUC's resource adequacy requirements, especially as California transitions toward higher shares of GHG-free generation resources.

- Affordability: PG&E's IRP analysis selects resources to meet the state's clean energy and reliability goals and provides a system average rate forecast in compliance with the CPUC's requirements for investor-owned utilities.

SAN JOAQUIN AIR POLLUTION CONTROL DISTRICT

Climate Change Action Plan

On August 21, 2008, the Valley Air District Governing Board approved a proposal called the Climate Change Action Plan (CCAP). The CCAP began with a public process bringing together stakeholders, land use agencies, environmental groups, and business groups to conduct public workshops to develop comprehensive policies for CEQA Guidelines, a carbon exchange bank, and voluntary GHG emissions mitigation agreements for the Governing Board's consideration. The CCAP contains the following goals and actions:

- Develop GHG significance thresholds to address CEQA projects with GHG emission increases.

- Develop the San Joaquin Valley Carbon Exchange for banking and trading GHG reductions.

- Authorize use of the SJVAPCD [Valley Air District's] existing inventory reporting system to allow use for GHG reporting required by AB 32 regulations.

- Develop and administer GHG reduction agreements to mitigate proposed emission increases from new projects.

- Support climate protection measures that reduce greenhouse gas emissions as well as toxic and criteria pollutants. Oppose measures that result in a significant increase in toxic or criteria pollutant emissions in already impacted areas.

On December 17, 2009, the Valley Air District Governing Board adopted "Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA." The Valley Air District concluded that the existing science is inadequate to support quantification of the impacts that project-specific GHG emissions have on global climatic change. The Valley Air District found the effects of project-specific emissions to be cumulative.

The Valley Air District advises that the lead agency evaluate projects against performance-based standards and require the adoption of design elements, known as Best Performance Standards (BPS), to reduce GHG emissions. Since the BPS have not yet fully been established, the Valley Air District Guidance recommends that a CEQA lead agency:

> [R]equire quantification of project specific GHG emissions and demonstration that project specific GHG emissions would be reduced or mitigated by at least 29%, compared to Business-as-Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period. Projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG.

BAU represents the emissions that would occur in 2020 if the average baseline emissions during the 2002–2004 period were grown to 2020 levels, without control.

Nevertheless, it should be noted that, in *Center for Biological Diversity v. Department of Fish & Wildlife*, 62 Cal. 4th 204 (2015) (also known as the Newhall Ranch case), the California Supreme Court concluded that in order for a lead agency to employ a BAU target as a threshold of significance to judge project-specific GHG emissions, such BAU threshold must be based upon substantial evidence to demonstrate what the required percentage reduction from BAU would be for an individual project as opposed to using statewide GHG figures. The court expressed skepticism that a percentage reduction goal applicable to the entire State would apply without change to an individual development project, regardless of its size or location. The Valley Air District has not updated its guidance to respond to the Supreme Court decision and to either provide evidence that its 29% BAU suggested threshold should be used or that another percentage reduction compared to BAU is supported by evidence for use to evaluate individual projects within the Air District. Therefore, the BAU analysis as identified by SJVAPCD is not employed for this EIR.

Rule 2301

While the CCAP indicated that the GHG emission reduction program would be called the San Joaquin Valley Carbon Exchange, the Valley Air District incorporated a method to register voluntary GHG emission reductions into its existing Rule 2301-Emission Reduction Credit Banking through amendments of the rule. Amendments to the rule were adopted on January 19, 2012. The purposes of the amendments to the rule include the following:

- Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use.

- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use.

- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable.

LOCAL

City of Tracy General Plan

The City of Tracy General Plan includes several policies that are relevant to GHG emissions. General Plan policies applicable to the Project are identified below:

POLICIES: AIR QUALITY ELEMENT

- AQ-1.1-P1. The City shall promote land use patterns that reduce the number and length of motor vehicle trips.
- AQ-1.1-P2. To the extent feasible, the City shall maintain a balance and match between jobs and housing.
- AQ-1.2-P3. Developers shall implement best management practices to reduce air pollutant emissions associated with the construction and operation of development projects.
- AQ-1.2-P4. New development projects should incorporate energy efficient design features for HVAC, lighting systems and insulation that exceed Title 24.
- AQ-1.2-P5. Use of solar water and pool heaters is encouraged.
- AQ-1.2-P6. Installation of solar voltaic panels on new homes and businesses shall be encouraged.
- AQ-1.2-P7. Trees should be planted on the south- and west-facing sides of new buildings or building undergoing substantial renovation in order to reduce energy usage.
- AQ-1.2-P14. Developments that significantly impact air quality shall only be approved if all feasible mitigation measures to avoid, minimize or offset the impact are implemented.
- AQ-1.2-P15. Encourage businesses to electrify loading docks or implement idling-reduction systems so that trucks transporting refrigerated goods can continue to power cab cooling elements during loading, layovers, and rest periods.
- AQ-1.3-P3. The City shall encourage employers to establish Transportation Demand Management programs.
- AQ-1.4-P1. The City shall continue to consult with other local, regional and State agencies on air quality planning efforts as well as encourage community participation in air quality planning.
- AQ-1.4-P2. The City shall be proactive in educating the public about the linkages between land use, transportation and air quality.
- AQ-1.4-P3. The City shall be proactive in reducing greenhouse gas emissions from City operations as well as new or renovated development.

City of Tracy Sustainability Action Plan

The City of Tracy Sustainability Action Plan was adopted in 2011 to achieve sustainability in numerous sectors including GHG emissions, energy, and transportation and land use. The Sustainability Action Plan includes specific measures to be implemented that the City estimates will reduce GHG emissions by 378,461 to 482,154 metric tons (MT) of CO_2e. These reductions would come in part from reductions in Vehicle Miles Traveled (VMT) and energy consumption. However, it should be noted that the sustainability measures included with the City of Tracy Sustainability Action Plan do not apply to land use projects.

3.7.3 IMPACTS AND MITIGATION MEASURES

GREENHOUSE GAS EMISSIONS THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, climate change-related impacts are considered significant if implementation of the proposed Project would do any of the following:

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

2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The vast majority of individual projects do not generate sufficient GHG emissions to create a project-specific impact through a direct influence to climate change; therefore, the issue of climate change typically involves an analysis of whether a project's contribution towards an impact is cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15355).

For individual proposed projects, the significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds, or consistency with a regional GHG reduction plan (such as a Climate Action Plan). However, the City of Tracy does not currently have a formal GHG emissions reduction plan or recommended emissions thresholds for determining significance associated with GHG emissions from development projects. As noted above, this EIR does not use the Air District's 2008 BAU threshold since it has not been updated in the wake of the *Newhall Ranch* decision.

Since no other local or regional Climate Action Plan is in place, the Project is assessed based on its consistency with CARB's adopted Scoping Plans, including the Project's compliance with relevant Scoping Plan measures, as well as the latest RTP/SCS for the region within which the Project is located within (i.e., the San Joaquin Council of Governments (SJCOG) 2022 RTP/SCS). It should be noted that the Scoping Plan is consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Therefore, consistency with the CARB's most recent Scoping Plan would also demonstrate consistency with the carbon neutrality requirements encapsulated by AB 1279.

Therefore, this analysis provides a qualitative assessment of the Project's compliance with the applicable plans, policies, and regulations for the purposes of reducing greenhouse gas emissions to determine whether the project would have a significant impact on the environment relative to GHGs. Separately, disclosure of the Project's estimated construction and operation-related GHG emissions are provided for the purposes of disclosure.[3]

PROJECT SUSTAINABILITY FEATURES

The Project applicant has committed to a variety of construction- and operation-related Project features with the goal to reduce Project emissions, reduce energy consumption, and promote sustainability, as provided below. It should be noted that it is not possible to quantify the emissions reduction potential of each of the emissions-reducing Project features. Therefore, only the emissions reductions associated with selected Project emissions-reducing features were quantified; these include the electricity reduction associated with the installation of the on-site rooftop solar photovoltaic system; and the usage of energy-efficient appliances.

CONSTRUCTION

- Electric hookups would be provided to reduce the need for diesel generators for electric construction equipment and, should diesel generators be needed, all such diesel generators would be equipped with emission control technology verified by EPA and/or CARB to reduce PM emissions by a minimum of 85%.
- During construction, heavy duty diesel hauling trucks would be model year 2010 or better.
- Costco would provide on-site meal options for construction workers.

SITE

- A substantial amount of the proposed plant material for new facilities would be native and drought tolerant and would use less water than other common species. Site perimeter and parking lot landscaping would provide vegetated buffers that would include trees, tree canopies and other vegetation.
- Irrigation systems for new facilities include the use of deep root watering bubblers for parking lot trees to minimize water usage and ensure that water goes directly to the intended planting areas.
- Storm water management plans are designed to maintain quality control and storm water discharge rates based on the City's requirements.
- Parking lot lights are designed at 38' in height to provide even light distribution and utilize less energy compared to a greater number of fixtures at lower heights. LED lamps are used to provide a higher level of perceived brightness with less energy than other lamps such as high-pressure sodium.

[3] Project GHG emissions were provided using the latest version of CalEEMod (v2022.1), which represents the Air District's recommended modeling tool for estimating emissions for projects under CEQA.

- The project would provide no more parking spaces than the minimum required by the City (or less if authorized by the City and feasible for project operations) to encourage car-pooling, high-occupancy vehicle use and use of non-auto transit.
- Costco would install Electric Vehicle (EV) capable (i.e., pre-wired) parking spaces as well as parking stalls with active EV charging stations per the California Building Code.

BUILDING

- New and renewable building materials are typically extracted and manufactured within the region. Materials such as concrete and concrete masonry units would be purchased local to the Project, minimizing the transport distances and resultant effects to road networks and regional air quality.
- Main building structures are comprised of pre-engineered systems that use 80% recycled steel. These pre-manufactured building components include structural framing and architectural metal wall and roof panels. These materials are shop finished, maximizing spans, and minimizing structure and waste during the construction process, reducing the overall construction duration.
- Solar PV panels would be installed on the roof of the buildings and/or elsewhere on site (e.g., awnings or canopies in parking areas) to generate approximately 3 Megawatts (MW) of renewable electricity for use on site. Batteries would also be installed to store some of that electricity for on-site energy needs.
- To the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Reflective cool roof materials are used to lower heat absorption, subsequently lowering energy requirements during the hot summer months. This roofing material meets the requirements for the EPA's Energy Star energy efficiency program. Building management systems monitor performance and energy usage of HVAC systems.
- HVAC comfort systems are controlled by a computerized building management system to maximize efficiency. Costco's HVAC units are high efficiency direct ducted units. Costco completely phased out the use of HCFCs in its HVAC units, long before the Montreal Protocol timeline.
- Mechanical systems are site specifically commissioned and designed and field tested to ensure that the HVAC systems are performing to the high efficiency standards. HVAC systems would be all-electric and would use High Efficiency MERV filters.
- Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.
- Pre-manufactured insulated architectural metal walls meet or exceed current energy code requirements. Building heat absorption is further reduced by a decrease in the thermal mass of the metal wall when compared to a typical masonry block wall. Insulated architectural metal wall panels contain approximately 76 percent of recycled material.
- High-efficiency restroom fixtures are used, which conserves water by achieving a 40% decrease over U.S. standards.

- Energy efficient transformers (i.e., Square D Type EE transformers) are used.
- The site's building energy efficiency would exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed would meet or exceed Title 24 requirements.
- Variable speed motors would be used on make-up air units and booster pumps.
- Gas water heaters would be direct vent and 94% efficient or greater.
- Construction waste would be recycled whenever possible.
- Lighting systems are designed with employee controllability in mind. Lighting is controlled by timers, but over-ride switches are provided for employee use.

OPERATIONS

- Deliveries are made in full trucks whenever feasible.
- The facility would not be designed for or include refrigerated cold storage; thus, no TRUs would be used at the facility.
- Costco trucks would be equipped with engine idle shut off timers and appropriate training would be provided and signage would be installed to ensure that all truck idling is limited to a maximum of two minutes.
- All exclusively onsite vehicles (i.e., forklifts, yard goats, pallet jacks, etc.) would be electric or zero-emission vehicles.
- Costco would train managers and employees on efficient scheduling and load management to minimize queuing and limit idling.
- Costco would include signage at docks, delivery areas, and truck routes to facilitate traffic and limit idling.
- This Project's additional warehouse space would provide the existing nearby Tracy Depot distribution facilities with increased capacity and storage of products and Costco would relocate key DDC depot operations from its existing Stockton location to this facility to maximize efficiency and minimize miles traveled for delivery.
- Costco has been an active user of recycled content in packaging for many years and continues to increase its use of recycled content.
- Costco would provide a separate employee parking area accessible by its own curb cut entry and would provide a clearly-delineated, separate pedestrian pathway for employees connecting project buildings to the employee parking area and such pathway would include a lit crosswalk with flashing indicator lights where the path crosses vehicle routes.
- Bicycle parking would be provided in the employee parking lot and at the front entry of each building.
- Costco would participate in and offer all employees the opportunity to make use of a ride share program.
- Costco would provide on-site meal options for employees (e.g., micro market vending machines that offer drink and food for sale to employees or food trucks [as regulated by Section 10.08.3193 – Mobile Food Vendors of the City's Municipal Code]) to minimize off-site employee trips during shifts.

- Building organic waste (i.e., green waste, wood waste, food waste and fibers such as paper and cardboard) would be recycled to the maximum extent possible and in full compliance with Senate Bill 1383.

IMPACTS AND MITIGATION MEASURES

Impact 3.7-1: Project implementation would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases (Less than Significant)

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. Implementation of the Project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to Project development would be primarily associated with increases of CO_2 and other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O), from mobile sources and utility usage.

The Project's short-term construction-related and long-term operational GHG emissions were estimated using the California Emission Estimator Model (CalEEMod)™ (v.2022.1). CalEEMod is a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Emissions are expressed in annual metric tons of CO_2 equivalent units of measure (i.e., MT CO_2e), based on the global warming potential of the individual pollutants.

SHORT-TERM CONSTRUCTION GHG EMISSIONS

Estimated maximum GHG emissions associated with construction of the proposed Project are summarized in Table 3.7-2. These emissions include all worker vehicle, vendor vehicle, hauler vehicle, and off-road construction vehicle GHG emissions. For the purposes of this analysis, based on input from the Project applicant, the proposed Project is assumed to commence construction in 2024 and finish in 2026. While the Project could be built in two phases given the two buildings, these estimates conservatively assume that the Project would be constructed within a single, sequenced phase. See Appendix A for further detail.

TABLE 3.7-2: TOTAL CONSTRUCTION GHG EMISSIONS (MT CO_2E/YEAR)

YEAR	BIO- CO_2	NON-BIO- CO_2	TOTAL CO_2	CH_4	N_2O	CO_2E
2024	0	1,467	1,467	0.05	0.05	1,485
2025	0	4,173	4,173	0.135	0.26	4,254
2026	0	1,855	1,855	0.045	0.16	1,907
Total	**0**	**7,495**	**7,495**	**0.23**	**0.47**	**7,646**

SOURCES: CALEEMOD (V.2022.1)

As presented in the table, short-term construction emissions of GHGs are estimated to be a total of approximately 7,646 MT CO_2e.

OPERATIONAL GHG EMISSIONS

The operational GHG emissions estimate for the proposed Project includes on-site area, energy, mobile, waste, and water emissions. Estimated GHG emissions associated with operation of the proposed Project are summarized in Table 3.7-3, below. It should be noted that CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20), which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035; CalEEMod also does not account for the new CARB rules related to truck electrification (e.g. Advanced Clean Trucks Regulation). The new Executive Order and CARB rules are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks over time. The operational emissions results provided in Table 3.7-3 are likely an overestimate for mobile emissions, given the state's ongoing effort to increase electric vehicles and trucks. As shown in the following table, the annual GHG emissions associated with the proposed Project would be approximately 25,134 MT CO_2e.

TABLE 3.7-3: OPERATIONAL GHG EMISSIONS AT BUILDOUT (METRIC TONS/YEAR)

	BIO- CO_2	NON-BIO- CO_2	TOTAL CO_2	CH_4	N_2O	CO_2E
Area	0	25.5	25.5	<0.01	<0.01	25.6
Energy	0	1,536	1,536	0.21	0.02	1,547
Mobile	0	21,569	21,569	0.5	2.58	22,377
Waste	146	0	146	14.6	0	512
Water	128	122	250	13.1	0.31	672
Total	**274**	**23,252**	**23,527**	**28.5**	**2.92**	**25,134**

SOURCES: CALEEMOD (V.2022.1)

CONSISTENCY WITH 2022 SCOPING PLAN

The CARB's 2022 Scoping Plan (the latest version of the Scoping Plan) provides policies that are considered needed to meet the State's mid-term and long-term GHG emissions reduction targets. Specifically, the CARB's 2022 Scoping Plan identifies that it "…lays out the sector-by-sector roadmap for California, the world's fifth largest economy, to achieve carbon neutrality by 2045 or earlier…". The Scoping Plan addresses recent legislation and direction from Governor Newsom, by extending and expanding upon the earlier Scoping Plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045, and adding carbon neutrality as a science-

based guide and touchstone for California's climate work. The Scoping Plan is therefore consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The Project's consistency with the applicable 2022 Scoping Plan policies is discussed in Table 3.7-4, below.

TABLE 3.7-4: PROJECT CONSISTENCY WITH THE 2022 SCOPING PLAN

POLICY	*PROJECT CONSISTENCY*
Transportation Electrification	
Convert local government fleets to ZEVs and provide EV charging at public sites	**No Conflict.** While this goal is not applicable to an individual commercial development project, the Project includes an EV parking requirement and includes two (2) installed EV spaces. Further, the Project would be designed to facilitate conversion of truck docks to serve electric trucks. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks once commercially available.
Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans)	
VMT Reduction	
Reduce or eliminate minimum parking standards	**No Conflict.** Although this goal is not applicable to an individual commercial development project, the Project is implementing neighborhood design improvements such as pedestrian network improvements, traffic calming measures, and would limit parking supply as feasible. The Project would include a separate employee parking area accessible by its own curb cut entry and flashing sidewalk lighting would be used between the employee parking and DDC Office. The Project would construct the minimum number of spaces required by City code, and would work with the City to explore whether an even lower number of spaces is feasible. Additionally, the Project would include bicycle parking at the employee lot and at each depot building, as well as a rideshare program for employees with the goal of reducing employee VMT.
Implement Complete Streets policies and investments, consistent with general plan circulation element requirements	
Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.	
Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking	
Implement parking pricing or transportation demand management pricing strategies	
Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing the allowable density of a neighborhood)	
Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)	
Building Decarbonization	
Adopt all-electric new construction reach codes for residential and commercial uses	**No Conflict.** Although this goal is not applicable to an individual commercial development project, the Project intends to supply 100% of its electricity demand from renewable sources associated with a combination of onsite generation and direct source renewable purchased energy. Costco has entered into direct source renewable purchase contracts sufficient to supply these needs.as The Project plans to install solar PV on the roof of buildings and/or elsewhere on the site
Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with	

more efficient systems (such as Energy Star-rated equipment and equipment controllers)	(e.g., awnings or canopies in the parking areas), which is expected to generate approximately 3 MW of renewable electricity for use onsite. Batteries would also be installed to store some of the electricity for on-site energy needs. In addition, the site's building energy efficiency will exceed Title 24 Building Envelope Energy Efficiency Standards by at least 1%.
Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances	
Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing)	
Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings)	

SOURCE: 2022 SCOPING PLAN, TABLE 1, APPENDIX D

In addition to Project commitments discussed in Table 3.7-4, the proposed Project's operational emissions would be reduced as regulations are implemented by the CARB and other State agencies to comply with the statewide GHG reduction targets. Many of these regulations are already identified in the 2022 Scoping Plan. These statewide actions are anticipated to reduce operational GHG emissions even further below those identified in Table 3.7-2 and Table 3.7-3. For example, the proposed Project's transportation emissions would be expected to decline as vehicle efficiency standards are implemented beyond the Advanced Clean Cars II program and the Low Carbon Fuel Standard is strengthened. Furthermore, CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20) or CARB's subsequent regulations, which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035 and that heavy duty truck emissions be reduced by greater truck electrification. These programs are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks further, over time.

Overall, the proposed Project would not conflict with the 2022 Scoping Plan. The proposed Project incorporates a wide array of construction- and operation-related Project features that reduce Project emissions, as provided previously (see the list of Project features under the *Project Sustainability Features* discussion, above). Therefore, the Project would be considered consistent with the 2022 Scoping Plan. Since the proposed Project would be consistent with the CARB's 2022 Scoping Plan, buildout of the proposed Project would not interfere with the main programs the CARB has identified to support its conclusions that the State is on a trajectory to meet the 2045 GHG target. Overall, the proposed Project would not impede the 2022 Scoping Plan and would help the State to progress towards this target.

CONSISTENCY WITH SJCOG'S 2022 RTP/SCS

The SJCOG's 2022 RTP/SCS includes eight policies with corresponding implementation strategies for conserving energy, maximizing mobility and accessibility, increasing safety and security, preserving

the transportation system, supporting economic development, promoting interagency cooperation and public participation, maximizing cost effectiveness, and improving quality of life for residents. These strategies include similar measures to the 2022 Scoping Plan, such as supporting energy and water efficiency. The Project's consistency with the applicable 2022 RTP/SCS strategies is discussed in Table 3.7-5, below.

TABLE 3.7-5: PROJECT CONSISTENCY WITH THE SJCOG'S 2022 RTP/SCS

POLICY	*PROJECT CONSISTENCY*
Enhance the Environment for Existing and Future Generations and Conserve Energy	No Conflict. The Project would utilize electricity provided by Pacific Gas & Electric (PG&E) which is required to meet the future year renewable portfolio performance standards. In addition, future development associated with Project implementation would be required to meet the applicable requirements of the 2022 (or more current) Title 24 Building Energy Efficiency Standards.
Maximize Mobility and Accessibility	No Conflict. The Project would support the use of zero-emission and low-emission vehicles, by design to facilitate conversion of truck docks to serve electric trucks. Electric charging infrastructure will be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks once commercially available.. In addition, the Project would support EV-ready charging spaces, consistent with the requirements of the latest version of the Title 24 Building Energy Efficiency Standards. In addition, although this Project is not a transportation improvement project, the Project is located in a city where regional transit improvements are planned. Moreover, the proposed Project would include many project features that improve mobility and accessibility, including providing pedestrian network improvements, providing bicycle parking, and providing rideshare employees to employees.
Increase Safety and Security	No Conflict. The Project would be developed using the latest State and local requirements relating to safety and security. Development of the Project site would include other uses to support and complement the proposed residential development include public utility infrastructure, public and private roadways, curb/gutters/sidewalks, other pedestrian facilities, private parking, street lighting, and street signage, which would enhance the safety and security of the site and it surroundings, by connecting to existing development.
Preserve the Efficiency of the Existing Transportation System	Not applicable. This is not a transportation improvement project and is therefore not applicable. The Project would not interfere with the efficiency of any existing transportation system.
Support Economic Vitality	No Conflict. The proposed Project would create local jobs as well as provide new shopping options for local and regional residents, thereby supporting economic vitality.
Promote Interagency Coordination and Public Participation for Transportation Decision-Making and Planning Efforts	Not applicable. This is not a transportation planning or improvement project and is therefore not applicable.
Maximize the Cost Effectiveness	No Conflict. The proposed Project would be developed based on market demand.
Improve the Quality of Life for Residents	No Conflict. The proposed Project would provide additional shopping options for local and regional residents, thereby improving the quality of life for residents.

SOURCE: SJCOG 2022 RTP/SCS

As shown in Table 3.7-5, above, the Project would not conflict with any of the GHG emissions reduction strategies contained in the SJCOG's 2022 RTP/SCS. Therefore, the Project is considered to be consistent with SJCOG's 2022 RTP/SCS.

EXECUTIVE ORDER S-3-05

The Executive Order S-3-05 2050 target has not been codified by legislation. However, studies have shown that, in order to meet the 2050 target, aggressive pursuit of technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. Because of the technological shifts required and the unknown parameters of the regulatory framework in 2050, quantitatively analyzing the project's impacts further relative to the 2050 goal is speculative for purposes of CEQA.[4]

The CARB recognizes that AB 32 establishes an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [greenhouse gas emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, the CARB's First Update to the Scoping Plan "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by the CARB would serve to reduce the proposed project's post-2020 emissions level to the extent applicable by law:

- Energy Sector: Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the State's zero net energy building goals, would serve to reduce the proposed project's emissions level. Additionally, further additions to California's renewable resource portfolio would favorably influence the project's emissions level.

- Transportation Sector: Anticipated deployment of improved vehicle efficiency, zero-emission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level.

- Water Sector: The project's emissions level will be reduced as a result of further utilization of water conservation technologies.

- Waste Management Sector: Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level.

In his January 2015 inaugural address, Governor Brown expressed a commitment to achieve "three ambitious goals" that he wanted to see accomplished by 2030 to reduce the State's GHG emissions:

[4] California Air Resources Board (CARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed September 11, 2023.

- Increasing the State's Renewable Portfolio Standard from 33 percent in 2020 to 50 percent in 2030;
- Cutting the petroleum use in cars and trucks in half; and
- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the State agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change.[5]

Further, studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.[6]

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and the corresponding effect on GHG emissions. For the reasons described above, the proposed project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets.

CONCLUSION

The proposed Project would be consistent with relevant plans, policies, and regulations associated with GHGs, notably the most recent version of the CARB's Scoping Plan, and the SJCOG's 2022 RTP/SCS. This would ensure that the proposed Project would be consistent with, and would not impair, the State's carbon neutrality standard by year 2045 as established under AB 1279. The State is making progress toward reducing GHG emissions in key sectors such as transportation, industry, and electricity. Since the Project would be consistent with State GHG Plans, it would not impede the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, and of achieving carbon neutrality by 2045. The proposed Project would make a reasonable fair share contribution

[5] Brown, Edmund G. Jr. 2015. Press Release: California Establishes Most Ambitious Greenhouse Gas Goal in North America. April 29.
Website: https://www.gov.ca.gov/news.php?id=18938. Accessed February 2, 2021.

[6] Energy and Environmental Economics, 2015. Pathways to Deep Carbonization in the United States.
Website: http://deepdecarbonization.org/wp-content/uploads/2015/11/US_Deep_Decarbonization_Technical_Report_Exec_Summary.pdf. Accessed June 8, 2022.

to the State's GHG reduction goals, by implementing a wide array of Project features that would reduce GHG emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above) and therefore, the proposed Project's GHG emissions would be considered to have a ***less than significant*** impact.

THRESHOLDS OF SIGNIFICANCE (ENERGY CONSERVATION)

Consistent with Appendices F and G of the CEQA Guidelines, energy-related impacts are considered significant if implementation of the proposed Project would do the following:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation;
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency;

In order to determine whether or not the proposed Project would result in a significant impact on energy use, this EIR includes an analysis of proposed Project energy use, as provided under *Impacts and Mitigation Measures* below.

IMPACTS AND MITIGATION MEASURES

Impact 3.7-2: Project implementation would not result in the inefficient, wasteful, or unnecessary use of energy resources, and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency (Less than Significant)

According to the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed Project would be considered "wasteful, inefficient, and unnecessary" if it were to violate State and federal energy standards and/or result in significant adverse impacts related to Project energy requirements, energy inefficiencies, energy intensiveness of materials, effects on local and regional energy supplies or on requirements for additional capacity, compliance with existing energy standards, effects on energy resources, or transportation energy use requirements. In addition, the Project could have a significant energy impact if it would conflict or create an inconsistency with an applicable plan, policy, or regulation for renewable energy or energy efficiency.

The proposed Project includes various characteristics that reduce the inefficient, wasteful, or unnecessary use of energy. Overall, a wide variety of additional Project features would be implemented that would substantially reduce energy emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above). For example, beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements.

The Project is also anticipated to produce approximately 3 MW of solar photovoltaic (PV) for on-site use. Furthermore, to the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Further, HVAC comfort systems would be controlled by a computerized building management system to maximize efficiency.

Moreover, it should be noted that, over time, electrification of the vehicles will increase due to state requirements, and state and national trends. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.

Furthermore, the proposed Project includes a Transportation Demand Management (TDM) strategy for passenger vehicles, as described under Mitigation Measure 3.13-1 (see Section 3.13: Transportation and Circulation of the Draft EIR, for further detail).

The amount of energy used by the proposed Project during operation would include the amount of energy used by Project buildings and outdoor lighting, and the fuel used by vehicle trips generated during Project construction and operation, fuel used by off-road construction vehicles during construction activities, and fuel used by Project maintenance activities during Project operation. The following discussion provides a detailed calculation of energy usage expected for the proposed Project, as provided by applicable modelling software (i.e. CalEEMod v2022.1) and the CARB EMFAC2021). Additional assumptions and calculations are provided within Appendix B.2 of this EIR.

ELECTRICITY AND NATURAL GAS

Electricity and natural gas used by the proposed Project would be used primarily to generate energy for Project buildings, as well as for outdoor parking lot lighting. As shown in further detail in the CalEEMod modeling outputs provided in Appendix B, "Energy" is one of the categories that was modeled for GHG emissions. As also shown in the CalEEMod modeling outputs as provided in Appendix B, the proposed Project is anticipated to consume approximately 11,040,127 kWh of electricity per year and approximately 9,693,520 kBTU per of natural gas per year. Moreover, this is likely a conservative estimate, given that the CalEEMod model does not account for the latest version of Title 24. Furthermore, this also does not account for the vast majority of the Project's energy efficiency commitments, which would likely drive down the energy usage much further than identified herein.

ON-ROAD VEHICLES (OPERATION)

The proposed Project would generate vehicle trips (i.e., passenger vehicles for employees and heavy-duty trucks for hauling) during its operational phase. Compliance with applicable State laws and regulations would limit idling and a part of a comprehensive regulatory framework that is implemented by the CARB. A description of Project operational on-road mobile energy usage is provided below.

According to the Traffic Study prepared for the proposed Project (Kimley Horn, 2022), and as described in more detail in Section 3.13 of this EIR, the proposed Project would increase total vehicle

trips by approximately 3,800 new daily trips. In order to calculate operational on-road vehicle energy usage, De Novo Planning Group used fleet mix data from the CalEEMod (v.2022.1) output for the proposed Project, and Year 2025 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2021, to derive weighted average gasoline and diesel MPG factors for the vehicle fleet as a whole. Based on these calculations, as provided in Appendix B, upon full buildout, the proposed Project would generate operational vehicle trips that would use a total of approximately 1,956 gallons of gasoline and 4,523 gallons of diesel per day, or 713,971 gallons of gasoline and 1,650,744 gallons of diesel per year.

The proposed Project's buildings would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Title 24 Energy Efficiency Standards for Nonresidential Buildings and Green Building Code Standards. Beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting, are widely regarded as the some of the most advanced and stringent building energy efficiency standards in the country. Moreover, as specified in Chapter 5, Part 11 of the Title 24 standards, the proposed project would be required to incorporate electrical conduit to facilitate future installation of EV charging infrastructure. In addition, as specified in Subchapter 6, Part 6 of the Title 24 standards, the proposed Project would be required to design the proposed buildings to structurally accommodate future installation of a rooftop solar PV system. In fact, the on-site solar PV system would greatly exceed the minimum required by law. As such, the design of the proposed project would facilitate the future commitment to renewable energy resources. Therefore, building energy consumption would not be considered wasteful, inefficient, or unnecessary.

Moreover, as discussed in Section 3.13: Transportation and Circulation, the proposed project would be required to implement various Transportation Demand Management (TDM) strategies that would contribute to fuel savings through incentives for project staff to utilize non-motorized transportation modes. Thus, transportation fuel consumption would not be wasteful, inefficient, or unnecessary.

ON-ROAD VEHICLES (CONSTRUCTION)

The proposed Project would also generate on-road vehicle trips during Project construction (from construction workers and vendors travelling to and from the Project site). De Novo Planning Group estimated the vehicle fuel consumed during these trips based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2023 gasoline and diesel MPG factors provided by EMFAC2021 (year 2023 factors were used to represent a conservative analysis, as the energy efficiency of construction activities is anticipated to improve over time). For the sake of simplicity and to be conservative, it was assumed that all construction worker light duty passenger cars and truck trips use gasoline as a fuel source, and all medium and heavy-duty vendor trucks use diesel fuel. Table 3.7-5, below,

describes gasoline and diesel fuel consumed during each construction phase (in aggregate). As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed Project would occur during the building construction phase. See Appendix B.2 of this EIR for a detailed accounting of construction on-road vehicle fuel usage estimates.

TABLE 3.7-5: ON-ROAD MOBILE FUEL USAGE BY PROJECT CONSTRUCTION ACTIVITIES – BY PHASE

CONSTRUCTION PHASE	*TOTAL GALLONS OF GASOLINE FUEL(B)*	*TOTAL GALLONS OF DIESEL FUEL(B)*
Site Preparation	140	-
Grading	2,577	250
Phase 1 - Building Construction	107,119	96,773
Phase 1 - Site Finishing	289	204
Phase 2 - Site Finishing	378	204
Off-site Grading	4,906	-
Phase 2 – Building Construction	68,166	61,583
Off-site Paving	330	-
Off-site Improvements	2,240	-
Phase 1 - Paving	254	-
Phase 2 - Paving	96	-
Total	**186,495**	**159,014**

NOTE: (A) PROVIDED BY CALEEMOD OUTPUT. (B) SEE APPENDIX B.3 OF THIS EIR FOR FURTHER DETAIL

SOURCE: CALEEMOD (V.2022.1); EMFAC2021.

OFF-ROAD EQUIPMENT (CONSTRUCTION)

Off-road construction equipment would use diesel fuel during the construction phase of the proposed Project. A non-exhaustive list of off-road constructive equipment expected to be used during the construction phase of the proposed Project includes: forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO_2 emissions expected to be generated by the proposed Project (as provided by the CalEEMod output), and standard conversion factors (as provided by the U.S. Energy Information Administration), the proposed Project would use a total of approximately 338,318 gallons of diesel fuel for off-road construction equipment. Detailed calculations are provided in Appendix B.2 of this EIR.

State laws and regulations would limit idling from both on-road and off-road diesel-powered equipment and are part of a comprehensive regulatory framework that is implemented by the CARB. Additionally, as a practical matter, it is reasonable to assume that the overall construction schedule and process would be designed to be as efficient as feasible in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for further future efficiency gains during construction are limited. For the foregoing reasons, it is anticipated that the construction phase of the project would not result in wasteful, inefficient, and unnecessary consumption of energy.

COMPLIANCE WITH CITY'S SUSTAINABILITY ACTION PLAN

The City's Sustainability Action Plan and General Plan contain goals, objectives and policies related to energy conservation that are relevant to this analysis, as provided Section 3.7.2. While several of these goals, objectives and policies are voluntary or cannot be implemented by an individual development project, compliance with applicable Title 24 standards would ensure that the proposed Project would not conflict with any of the Sustainability Action Plan energy conservation policies related to the proposed project's building envelope, mechanical systems, and indoor and outdoor lighting.

OTHER

The Project would install a solar photovoltaic (PV) roof system, including on-site PV connection to the local electric grid. The on-site Solar PV roof system is anticipated to provide approximately 3 megawatts (MW) of building demand. In addition, a solar microgrid would be included within the Project with adequate battery storage.

Separately, as previously described, the Project would implement a wide array of Project features that would increase energy efficiency and reduce energy consumption, overall. See the list of Project features listed within the *Project Sustainability Features* discussion, above.

CONCLUSION

The proposed Project would use energy resources for the operation of Project buildings (natural gas and electricity), outdoor lighting (electricity), on-road vehicle trips (e.g. gasoline and diesel fuel) generated by the proposed Project, and off-road and on-road construction activities associated with the proposed Project (e.g. diesel fuel). Each of these activities would require the use of energy resources. The proposed Project would be responsible for conserving energy, including through Project sustainability features, the mitigation measures provided throughout this EIR, as well as through the implementation of statewide and local measures.

The proposed Project would comply with all applicable federal, State, and local regulations regulating energy usage. Moreover, the Project intends to supply 100 percent of its electricity demand from renewable sources associated with a combination of onsite generation and direct source renewable purchased energy. Specifically, the Project applicant has entered into direct source renewable purchase contracts sufficient to supply these needs. Other statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavy-duty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time. Moreover, the proposed Project would comply with the City's Sustainability Action Plan and General Plan goals, objectives and policies related to energy conservation that are relevant to this analysis.

The proposed Project would comply with all existing energy standards and would not be expected to result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a

significant impact on any of the energy-related thresholds as described by the *CEQA Guidelines*. This is a ***less than significant*** impact.

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The California Environmental Quality Act (CEQA) requires an Environmental Impact Report (EIR) to evaluate a project's effects in relationship to broader changes occurring, or that are foreseeable to occur, in the surrounding environment. Accordingly, this chapter presents a discussion of CEQA-mandated analysis for cumulative impacts, significant irreversible effects, significant and unavoidable impacts, and growth-inducing impacts associated with the proposed Project.

4.1 CUMULATIVE CONTEXT IMPACT ANALYSIS

INTRODUCTION

CEQA requires that an EIR contain an assessment of the cumulative impacts that could be associated with the proposed Project. According to CEQA Guidelines Section 15130(a), "an EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable." "Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects (as defined by Section 15130). As defined in CEQA Guidelines Section 15355, a cumulative impact consists of an impact that is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. A cumulative impact occurs from:

> *…the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time.*

In addition, Section 15130(b) identifies that the following three elements are necessary for an adequate cumulative analysis:

1) Either:

(A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency; or,

(B) A summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact. Any such planning document shall be referenced and made available to the public at a location specified by the lead agency.

2) A summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available; and

3) A reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable, feasible options for mitigating or avoiding the project's contribution to any significant cumulative effects.

Where a lead agency is examining a project with an incremental effect that is not "cumulatively considerable," a lead agency need not consider that effect significant, but shall briefly describe its basis for concluding that the incremental effect is not cumulatively considerable.

This cumulative impacts analysis uses a summary of projections listed in the San Joaquin Council of Governments (SJCOG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and Department of Finance statistics, as allowed by Section 15130(b)(1)(B) of the CEQA Guidelines. Table 4.0-1 shows the growth projections.

TABLE 4.0-1: GROWTH PROJECTIONS

CALENDAR YEAR	*ESTIMATED POPULATION (TRACY)*	*ESTIMATED POPULATION (SAN JOAQUIN COUNTY)*	*ESTIMATED POPULATION (CALIFORNIA)*
2020	95,040	775,819	40,619,346
2025	102,236	829,426	42,373,301
2030	109,492	883,484	44,085,600
2035	118,130	947,835	45,747,645
2040	127,933	1,020,862	47,233,240

SOURCES: CALIFORNIA DEPARTMENT OF FINANCE (2020), SJCOG 2018 RTP/SCS (2018).

In addition to those cumulative growth projections listed above, this EIR uses a list of past, present, and probable future projects within the City of Tracy to ensure that the cumulative growth within the City is not underestimated. The approved and/or pending projects are listed in the City's Residential Pipelines Report and Industrial and Commercial Pipeline Report (October 2023)[1]. In this way, the analysis employs a conservative hybrid approach under Section 15130(b)(1) of the CEQA Guidelines.

CUMULATIVE EFFECTS OF THE PROJECT

The cumulative context is identified under each cumulative impact analysis. The geographic context varies among topical impact areas vary because the geographic area that the impact may affect is different. For example, noise impacts generally only impact the local surrounding area because noise travels a relatively short distance while air quality impacts affect the whole air basin as wind currents control air flow and are not generally affected by natural or manmade barriers which would affect noise. Cumulative Project impacts are addressed and summarized below.

Method of Analysis

Although the environmental effects of an individual project may not be significant when that project is considered separately, the combined effects of several projects may be significant when considered collectively. CEQA Guidelines Section 15130 requires a reasonable analysis of a project's

[1] Available at: https://www.cityoftracy.org/our-city/departments/planning

cumulative impacts, which are defined as "two or more individual effects which, when considered together are considerable or which compound or increase other environmental impacts." The cumulative impact that results from several closely related projects is: the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time (CEQA Guidelines 15355[b]). Cumulative impact analysis may be less detailed than the analysis of the project's individual effects (CEQA Guidelines 15130[b]). Where the cumulative effect of this Project plus other future projects represents a significant impact, then this Project's contribution to that overall cumulative impact is considered to evaluate whether this Project's incremental impact is "cumulatively considerable" and thus considered to be a significant effect associated with the Project.

Project Assumptions

The proposed Project's contribution to environmental impacts under cumulative conditions is based on development of the Project site consistent with the development assumptions identified in Chapter 2.0, Project Description. See Chapter 2.0, Project Description, for a complete description of the proposed Project.

Cumulative Impacts

Some cumulative impacts for issue areas are not quantifiable and are therefore discussed in general terms as they pertain to development patterns in the surrounding region. Exceptions to this are utilities, noise, greenhouse gases, and air quality (the latter three of which are associated with traffic volumes and operations associated with the proposed land uses), which may be quantified by estimating future traffic patterns, pollutant emitters, etc. and determining the combined effects that may result. The proposed Project may result in the following cumulative impacts.

AESTHETICS AND VISUAL RESOURCES

The cumulative context for aesthetics is the City of Tracy and surrounding areas of San Joaquin County.

Impact 4.1: Cumulative Damage to Scenic Resources within a State Scenic Highway (Less than Significant)

As described in Section 3.1, Aesthetics and Visual Resources, one highway section in San Joaquin County is listed as a Designated Scenic Highway by the Caltrans Scenic Highway Mapping System; the segment of Interstate 580 (I-580) from Interstate 5 to Interstate 205. This route traverses the edge of the Coast Range to the west and Central Valley to the east. This Designated Scenic Highway is located approximately 0.65 miles southwest of the Project site. The views from I-580 to the Project site are limited because of small hills, commercial buildings along I-580, and high speeds of travel. However, new development proposed by the Project in the viewsheds would have the potential to adversely affect a State-designated route.

Cumulative development in the city would not impact a State Scenic Highway. As such, impacts relative to scenic resources -would be a ***less than significant***.

Impact 4.2: Cumulative Degradation of the Existing Visual Character of the Region (Significant and Unavoidable and Cumulatively Considerable)

Project implementation would introduce industrial uses, as well as supporting infrastructure into an area that is currently undeveloped and is primarily occupied by agricultural uses. The proposed Project would include visual components that would assist in enhancing the appearance of the site following site development. Landscaping improvements, such as new street trees and other vegetation landscaping, would be provided throughout the Project site, including along the site boundary. The landscape design and plant palette would complement the existing street and building/development landscape character established by Prologis and the International Park of Commerce providing visual relief from the proposed improvements. Additionally, the proposed Project would also include landscaping buffer zones, pursuant to General Plan Policy OSC-2.2-P1, at the interface of urban development and farmland in order to minimize conflicts between the uses and provide a visual shield. Nevertheless, impacts related to degradation of the visual character of the site would be significant and unavoidable.

There would be two significant unavoidable visual quality impacts under the proposed General Plan for the Tracy Planning Area and under cumulative conditions in the region as a whole. Despite policies in the proposed General Plan policies to preserve open space and agricultural lands and community character, policies in the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) and the City's Agricultural Mitigation Fee Ordinance, development occurring within the City and its Sphere of Influence would result in a change in visual character from an agricultural appearance to a more urban appearance.

Under cumulative conditions, buildout of the General Plans for Tracy and the surrounding jurisdictions could result in changes to the visual character and quality of the City of Tracy through development of undeveloped areas and/or changes to the character of existing communities. Development of the proposed Project, in addition to other future projects in the area, would change the existing visual and scenic qualities of the City. It is noted that although the Project site is undeveloped and was previously used for agricultural uses, the General Plan designates the site for Industrial uses. Additionally, the surrounding areas to the north, east, south, and west are designated for urban uses (including mainly Industrial uses) by the General Plan. As such, the General Plan and associated EIR anticipated development of the Project area for similar uses as proposed by the Project.

Development within the City would be required to be consistent with the General Plan policies and City Municipal Code, both of which cover aesthetics and visual characteristics. Further, the Municipal Code contains development standards that address the visual character of a development project, such as building height, massing, setbacks, lighting, and landscaping. Although implementation of these requirements would reduce the impacts associated with development, the impacts would remain significant and unavoidable. As such, this is a ***significant and unavoidable*** impact, and the Project's contribution to this impact would be ***cumulatively considerable***.

Impact 4.3: Cumulative Impact on Light and Glare (Less than Significant)

Implementation of the proposed Project would introduce new sources of light and glare into the vacant Project site. Compliance with the lighting plan required by Mitigation Measure 3.1-1 would ensure that the Project's proposed lighting is reviewed by the Tracy Public Works Department for compliance with street light and light illumination standards to ensure the Project is properly shielding and protecting against light spillover onto adjacent properties. Adherence to City of Tracy Standard Plan #140 and Section 7.28.070 ~~10.08.400~~ of the Municipal Code of the City Municipal Code would ensure that excessively reflective building materials are not used, and that the proposed Project would not result in significant impacts related to daytime glare.

Future projects within Tracy, Lathrop, and San Joaquin County would be subject to the light and glare standards established by the individual jurisdictions. These regulations are designed to minimize potential light and glare impacts of new development. Implementation of these regulations would ensure that future projects minimize their potential light and glare impacts resulting in a ***less than significant*** cumulative impact relative to this environmental topic.

AGRICULTURAL RESOURCES

The cumulative context for agriculture and forest resources is all of San Joaquin County. According to the Department of Conservation, the County had 784,800 acres of crop land in 2018, the majority of which is identified as Prime Farmland. The remaining agricultural land is comprised of Farmland of Statewide Importance (11 percent), Unique Farmland (11 percent), Farmland of Local Importance (9 percent), and Grazing Land (18 percent).

Impact 4.4: Cumulative Impact on Agricultural Resources (Significant and Unavoidable and Cumulatively Considerable)

As described in Section 3.2, Agricultural Resources, development of the proposed Project would result in a permanent conversion of 101.78 acres of Prime Farmland to non-agricultural use. The loss of Important Farmland as classified under the California Department of Conservation Farmland Mapping and Monitoring Program (FMMP) is considered a potentially significant environmental impact.

Tracy Municipal Code Chapter 13.28 establishes the City's Agricultural Mitigation Fee Program, which authorizes the collection of development impact fees to offset costs associated with the loss of productive agricultural lands converted for private urban uses. In addition to the City's agricultural mitigation fee program, the SJMSCP requires development to pay fees on a per-acre basis for impacts to agricultural lands that function as habitat for biological resources. SJCOG will then use these funds to purchase the conservation easements on agricultural and habitat lands in the Project vicinity. The compensation results in the purchase of conservation easements that are placed over agricultural land. As such, the Project fees paid to SJCOG as administrator of the SJMSCP will result in the preservation of agricultural lands in perpetuity.

The purchase of conservation easements and/or deed restrictions through the City's agricultural mitigation fee program and the SJMSCP allows the landowners to retain ownership of the land and

continue agricultural operations, and preserves such lands in perpetuity. Future projects would be subject to the City's agricultural mitigation fee program and the SJMSCP.

While the proposed Project, as well as future projects in the City and County, will contribute fees toward the purchase of conservation easements on agricultural lands, as required by Mitigation Measure 3.2-1, those fees and conservation easements would not result in the creation of new farmland to offset the loss that would occur with Project implementation. As such, the loss of Important Farmland would be a ***significant and unavoidable*** impact. The Project's contribution to this significant impact would be ***cumulatively considerable***.

AIR QUALITY

The cumulative context for air quality impacts is the San Joaquin Valley Air Basin (SJVAB), which consists of eight counties, stretching from Kern County in the south to San Joaquin County in the north. The SJVAB is bounded by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south.

Impact 4.5: Cumulative Impact on the Region's Air Quality (Significant and Unavoidable and Cumulatively Considerable)

Under buildout conditions in the San Joaquin County, the SJVAB would continue to experience increases in criteria pollutants and efforts to improve air quality throughout the basin would be hindered. As described in Section 3.3, San Joaquin County has a state designation of Nonattainment for ozone, PM_{10} and $PM_{2.5}$. Table 3.3-2 in Section 3.3 presents the State and Federal attainment status for San Joaquin County.

As discussed under Impact 3.3-1 in Section 3.3, operational emissions would exceed the SJVACPD thresholds of significance for NOx and CO. It should be noted that there are not separate cumulative criteria pollutant emissions thresholds; rather, the project-level criteria pollutant emissions thresholds were designed by SJVAPCD to simultaneously determine impacts associated at both the individual project as well as cumulative level. Therefore, the proposed Project is required to implement feasible mitigation measures aimed to reduce criteria pollutant emissions. Mitigation Measure 3.3-1 was established to reduce emissions to the extent feasible. Mitigation Measure 3.3-1 would require all phases of the proposed project to use a "clean truck fleet" that meets a performance standard of 0.02 gram of NOx per brake horsepower-hour for all heavy-heavy-duty (HHD) trucks during project operation. Mitigation Measure 3.3-1 requires operators of heavy-duty trucks that travel to and from the Project site to use trucks that have 2010 model year or newer engines that meet the CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions, or newer, cleaner trucks and equipment.

However, NOx emissions generated by the proposed Project during operation would exceed applicable threshold for tons per year after compliance with all rules and regulations, and even after implementation of Mitigation Measure 3.3-1. No other feasible mitigation measure exists to reduce the applicable operational criteria pollutant impacts to below the applicable SJVAPCD threshold. There are no further mitigation measures identified and thus Table 3.3-13 and Table 3.3-14 provide a conservative estimate of the operational emissions results for the proposed Project, inclusive of

quantified Project sustainability features. Because the operational emissions shown therein would exceed the SJVAPCD's significance thresholds for CO and NOx, the impact would remain ***significant and unavoidable***.

Additionally, as discussed in Impact 3.3-3 of Section 3.3, a health risk analysis has been prepared for the proposed Project to analyze the potential health risks associated with increased trucks to the Project site and surrounding roadways associated with the development and operation of the proposed industrial and commercial uses. The source of TACs for this type of Project can be attributed to diesel exhaust from the trucks. As shown in Table 3.3-15 in Section 3.3, the proposed Project, in and of itself, would not result in a significant increased exposure of receptors to localized concentrations of TACs. Risk of residential cancer risk, workplace cancer risk, and chronic and acute non-cancer risks are below the applicable SJVAPCD thresholds. Furthermore, as described in the SJVAPCD's *Guidance for Assessing and Mitigating Air Quality Impacts*, impacts from hazardous air pollutants are localized impacts. The SJVAPCD has established thresholds of significance for TACs that are extremely conservative and protective of health impacts on sensitive receptors. Because impacts from TACs are localized and the thresholds of significance for TACs have been established at such a conservative level, risks below the individual thresholds of significance are also considered less than cumulatively significant, and no other cumulative risk thresholds apply.

The increase in industrial and commercial/office square footage anticipated with buildout of the Project is consistent with growth projections assumed in the Tracy General Plan for the same time horizon. While the proposed Project, as well as future projects in the City and County, would be subject to the requirements of the SJVAPCD, even with the application of the mitigation measures included in Section 3.3, emissions levels would remain above the current defined SJVAPCD criteria pollutant thresholds of significance for NOx and CO during Project operation. As such, cumulative impacts on the region's air quality would be a ***significant and unavoidable*** impact. The Project's contribution to this significant impact would be ***cumulatively considerable***.

BIOLOGICAL RESOURCES

The cumulative context for biological resources includes the Project site and the greater San Joaquin County region. Development associated with implementation of the local General Plan(s) would contribute to the ongoing loss of natural and agricultural lands in San Joaquin County, including the Project site. Cumulative development would result in the conversion of existing habitat to urban uses. The local General Plan(s), in addition to regional, State and federal regulations, includes policies and measures that mitigate impacts to biological resources associated with General Plan buildout. Additionally, local land use authorities in San Joaquin County require development to participate in the SJMSCP, which is a habitat conservation plan and natural community conservation plan for San Joaquin County that provides a mechanism for compensatory mitigation for habitat and species loss in accordance with federal and State laws.

Impact 4.6: Cumulative Loss of Biological Resources Including Habitats and Special Status Species (Less than Significant)

Under cumulative conditions, buildout of the General Plan(s) within San Joaquin County will result in impacts to biological resources associated with new development. The General Plan(s) includes

policies that are designed to minimize impacts to the extent feasible and the SJMSCP has been established to provide a mechanism for compensatory mitigation and standardized avoidance and minimization measures as needed.

As described in Section 3.4 Biological Resources, construction in the Project site has the potential to result in impacts to special-status species in the region. The California Natural Diversity Database (CNDDB) currently contains records for California red-legged frog, San Joaquin kit fox, big tarplant, caper-fruited tropidocarpum, burrowing owl, and tricolored blackbird in the vicinity of the Project site. The Project site provides potential habitat for several species, including those discussed in Section 3.4.

Mitigation Measure 3.4-1 requires participation with the SJMSCP, which includes the payment of fees that will be used to purchase conservation lands for a variety of special status species. The SJMSCP was created and adopted and addresses both the Project and cumulative impacts to biological resources, including special status species. The proposed Project will participate in the SJMSCP, including payment of fees and implementation of all Incidental Take Minimization Measures required by the SJCOG through the authorization of SJMSCP coverage.

The ongoing operational phase of the proposed Project requires discharge of stormwater into the City storm drainage system, which ultimately discharges into the Delta. The discharge of stormwater could result in indirect impacts to special status fish and wildlife if stormwater was not appropriately treated through BMPs prior to its discharge to the Delta. The Project is subject to the requirements of Chapter 11.34 of the Tracy Municipal Code – Stormwater Management and Discharge Control. This chapter is intended to assist in the protection and enhancement of the water quality of watercourses, water bodies, and wetlands in a manner pursuant to and consistent with the Federal Water Pollution Control Act (Clean Water Act, 33 USC Section 1251 et seq.), Porter- Cologne Water Quality Control Act (California Water Code Section 13000 et seq.) and National Pollutant Discharge Elimination System ("NPDES") Permit No. CAS000004, as such permit is amended and/or renewed. The management of water quality through BMPs is intended to ensure that water quality does not degrade to levels that would interfere or impede fish or wildlife.

The Project would result in impacts to biological resources including habitats and special status species. The City has evaluated urban development in the Project area through the General Plan process, and subsequently determined that urban development in this location is appropriate. The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts. Implementation of the regulations contained in the SJMPSCP and the various General Plans within San Joaquin County would ensure that future projects minimize their potential biological resources. For these reasons, cumulative impacts on the loss of biological resources are ***less than significant***.

CULTURAL AND TRIBAL RESOURCES

The geography of cultural resources impacts can be defined by region, by political subdivision or by the geography of the cultural resources present in an area, where sufficient inventory data is

available to define it. The cumulative context for cultural resources includes all of the San Joaquin County. There are extensive cultural sites located in the region.

Impact 4.7: Cumulative Impacts on Known and Undiscovered Cultural and Tribal Resources (Less than Significant)

Cumulative development anticipated in the City of Tracy, including growth projected by adopted future projects, may result in the discovery and removal of cultural resources, including archaeological, paleontological, historical, and Native American resources and human remains. As discussed in Section 3.5, Cultural and Tribal Resources, the Project site does not contain buildings or structures. A California Historic Resources Information System (CHRIS) search was requested from the Central California Information Center (CCIC), which included the Project area and a one-half mile radius (CCIC File #11244L). The results of the CCIC records search indicated that the Project site does not contain any recorded buildings or structures listed on the State Office of Historic Preservation Historic Property Directory (which includes listings of the California Register of Historic Resources, California State Historical Landmarks, California State Points of Historical Interest, and the NRHP). The records search also noted that the General Land Office Survey Plat does not reference any historic features in the Project area.

Any previously unknown cultural resources which may be discovered during development of the proposed Project would be required to be preserved, either through preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures. With implementation of the mitigation measures provided in Section 3.5, the proposed Project is not anticipated to considerably contribute to a significant reduction in cultural resources in the region.

All future projects in the regional vicinity would be subject to their respective General Plans (i.e., City of Tracy, City of Lathrop, and San Joaquin County), each of which have policies and measures that are designed to ensure protection of undiscovered cultural resources. In addition, all discretionary projects in these jurisdictions would require environmental review per regulations established in CEQA. As such, impacts related to cultural resources would result in a ***less than significant***.

GEOLOGY AND SOILS

Impacts related to geology and soils are not inherently cumulative. Geology and soils concerns are related to risks, hazards or development constraints that are largely site-specific. However, seismic hazards are regional, and management of seismic hazards is vested with the local planning and building authority. For these reasons, the potential for cumulative geology and soils impacts are considered in the context of the City of Tracy and vicinity.

Impact 4.8: Cumulative Impact on Geologic and Soils Resources (Less than Significant)

As discussed in Section 3.6, Geology and Soils, a Geotechnical Review was prepared to review readily-available geotechnical and geologic information in order to identify potential geotechnical-related risks associated with the Project site. According to the Geotechnical Review, the proposed Project is geotechnically feasible and concerns related to ground rupture, ground shaking,

liquefication, or landslides were not identified; refer to the discussion below regarding expansive soils. However, mitigation measures provided in Section 3.6 ensure impacts related to soil hazards will be less than significant.

Additionally, the nearest earthquake fault zoned as active by the CGS is the Black Butte Fault, located approximately 1.1 miles to the south of the Project site. However, this fault is not considered an active fault that would trigger evaluation under the Alquist-Priolo Earthquake Fault Zoning Act. While the City is not within an area known for its seismic activity, there will always be a potential for groundshaking caused by seismic activity anywhere in California, including the Project site. In order to minimize potential damage to the buildings and site improvements, all construction in California is required to be designed in accordance with the latest seismic design standards of the California Building Code. Additionally, the Project would be required to comply with Mitigation Measure 3.6-1, which requires a final geotechnical evaluation be prepared and design recommendations identified to address any soil conditions within the Project site. Design in accordance with the Building Code and final geotechnical evaluation would reduce any potential impact to a less than significant level.

Geologic and soils impacts tend to be site-specific and Project-specific. With the mitigation measure presented in Section 3.6, implementation of the proposed Project would not result in increased risks or hazards related to geologic conditions in the cumulative area, nor would it result in any off-site or indirect impacts. Overall, impacts related to geologic and soil resources would result in a ***less than significant***.

GREENHOUSE GASES, CLIMATE CHANGE AND ENERGY

As the California Supreme Court has reasoned, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself. The challenge for CEQA purposes is to determine whether the impact of the project's emissions of greenhouse gases is cumulatively considerable, in the sense that 'the incremental effects of [the] individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.'" (*Center for Biological Diversity v. California Department of Fish and Wildlife* (2015) 62 Cal.4th 204, 219.) "'With respect to climate change, an individual project's emissions will most likely not have any appreciable impact on the global problem by themselves, but they will contribute to the significant cumulative impact caused by greenhouse gas emissions from other sources around the globe. The question therefore becomes whether the project's incremental addition of greenhouse gases is "cumulatively considerable" in light of the global problem, and thus significant.'" (*Ibid*.)

The cumulative context for greenhouse gas (GHG) emissions and climate change impacts for this analysis is the State of California, to ensure consistency with the State's climate change goals.

Impact 4.9: Cumulative Impact on Climate Change from Increased Project-Related Greenhouse Gas Emissions (Less than Significant)

GHG emissions from a single Project will not cause global climate change; however, GHG emissions from multiple projects throughout a region or state could result in a cumulative impact with respect

to global climate change. It should be noted that, since greenhouse gas emissions are inherently global in nature, the greenhouse gas emissions analysis provided in Chapter 3.7: Greenhouse Gases, Climate Change, and Energy also represents a cumulative analysis for greenhouse gases.

As presented in Table 3.7-2 in Section 3.7, short-term construction emissions of GHGs are estimated at a maximum of approximately 4,254 metric tons of carbon dioxide equivalents ($MTCO_2e$) per year, during the maximum year. As shown in Table 3.7-3, the annual operational emissions of GHGs associated with the proposed Project would be approximately 25,134 MT CO_2e.

The proposed Project would be consistent with relevant plans, policies, and regulations associated with GHGs, notably the most recent version of the CARB's Scoping Plan, and the SJCOG's 2022 RTP/SCS. This would ensure that the proposed Project would be consistent with the State's carbon neutrality standard by year 2045 as established under AB 1279. Taking into account the proposed Project's emissions, and the progress being made by the State toward reducing emissions in key sectors such as transportation, industry, and electricity, the Project would be consistent with State GHG Plans and would not impede the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, and carbon neutrality by 2045. The proposed Project would make a reasonable fair share contribution to the State's GHG reduction goals. Therefore, a ***less than significant*** cumulative impact relative to GHGs would result.

Furthermore, with regard to Project energy consumption, the proposed Project includes various characteristics that reduce the inefficient, wasteful, or unnecessary use of energy. Overall, a wide variety of additional Project features would be implemented that would substantially reduce energy emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above). For example, beyond simply complying with State requirements such as the energy efficiency requirements of the latest version of the California Title 24 Energy Efficiency Standards, the Project would exceed the Title 24 Building Envelope Energy Efficiency Standards by at least 1% and all appliances to be installed will meet or exceed Title 24 requirements.

The Project is also anticipated to produce approximately 3 MW of solar photovoltaic (PV) for on-site use. Furthermore, to the extent they do not conflict with the proposed rooftop solar PV panels, all building roofs would maintain a reflectance rating of .68, emittance of .25 and Solar Reflectance Index of 63, lessening heat gain. Further, HVAC comfort systems would be controlled by a computerized building management system to maximize efficiency.

Moreover, it should be noted that, over time, electrification of the vehicles will increase due to state requirements, and state and national trends. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.

Furthermore, the proposed Project includes a Transportation Demand Management (TDM) strategy for passenger vehicles, as described under Mitigation Measure 3.13-1 (see Section 3.13: Transportation and Circulation of the Draft EIR, for further detail).

The amount of energy used by the proposed Project during operation would include the amount of energy used by Project buildings and outdoor lighting, and the fuel used by vehicle trips generated during Project construction and operation, fuel used by off-road construction vehicles during construction activities, and fuel used by Project maintenance activities during Project operation. The following discussion provides a detailed calculation of energy usage expected for the proposed Project, as provided by applicable modelling software (i.e. CalEEMod v2022.1) and the CARB EMFAC2021). Additional assumptions and calculations are provided within Appendix B.2 of this EIR. The proposed Project would not be expected to result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the energy-related thresholds as described by the *CEQA Guidelines*. Therefore, a ***less than significant*** cumulative impact relative to energy would result.

Overall, impacts related to greenhouse gases, climate change, and energy would result in a ***less than significant*** cumulative impact.

HAZARDS AND HAZARDOUS MATERIALS

The cumulative context for the analysis of cumulative hazards and human health impacts is San Joaquin County, including all cumulative growth therein, as represented by full implementation of each respective General Plan (i.e., Stockton, Lathrop, and San Joaquin County). As discussed in Section 3.8, Hazards and Hazardous Materials, implementation of the proposed Project would not result in any significant impacts related to this environmental topic with the implementation of the mitigation measures provided in Section 3.8.

Impact 4.10: Cumulative Impact Related to Hazards and Hazardous Materials (Less than Significant)

The Project is not proposing the use of any hazardous materials. In the event that hazardous materials are discovered during construction, a Soils Management Plan (SMP) will need to be submitted and approved by the San Joaquin County Department of Environmental Health, as required by Mitigation Measure 3.8-1. Any operations that involve the use of hazardous materials would be required to have the hazardous material transported, stored, used, and disposed of in compliance with local, state, and federal regulations. To further ensure the safety of employees, and reduce the potential for accidental release of hazardous materials into the environment, the applicant must submit a HMBP to San Joaquin County Department of Environmental Health (CUPA) for review and approval prior to bringing hazardous materials onsite, as required by Mitigation Measure 3.8-2.

As part of the Phase I ESA (see Appendix D), a limited Phase II ESA was conducted to determine if chemicals of potential concern associated with the historical agricultural uses at the Project site are present in shallow soil at concentrations that would pose a threat to human health. Soil samples were collected pursuant to the Department of Toxic Substances Control (DTSC) Interim Guidance for Sampling Agricultural Properties (Third Revision) and were analyzed for organochlorine pesticides (OCPs) using US Environmental Protection Agency (EPA) Method 8081A and arsenic using US EPA Method 6010B. The soil sample analytical results indicated that OCPs were not present above

laboratory detection limits in shallow soils at the site and arsenic concentrations ranged from 2.3 milligrams per kilogram (mg/kg) to 4.3 mg/kg. Arsenic concentrations did not exceed the arsenic California Code of Regulations (CCR) Title 22 Total Threshold Limit Concentration of 500 mg/kg, 10 times the arsenic CCR Title 22 Soluble Threshold Limit Concentration value of 5 milligrams per liter (mg/L) (50 mg/kg), or 20 times the arsenic Federal Toxicity Characteristic Leaching Procedure threshold of 5 mg/L (100 mg/kg). Therefore, arsenic concentrations at the Site do not exceed thresholds that would classify soils as Federal or California hazardous wastes.

Additionally, Crimson Oil operates a crude oil pipeline beneath the Project site and PG&E operates two natural gas pipelines, which both run across the northeastern portion of the Project site. While the *Phase I ESA* notes no incidental/accidental releases in the Project vicinity have been reported along the pipelines to date, the presence of natural gas pipelines and the potential for undocumented leaks to occur from the crude oil pipeline represents a Recognized Environmental Condition (REC). Undocumented leaks that could occur on-site would result in the release of hazardous materials into the environment contaminating the site and potentially exposing employees and the public to hazardous materials. The *Phase I ESA* notes that Crimson Pipeline, L.P. (or the current pipeline operator at the time of the leak) would be responsible for subsurface contamination as a result of leaks from this pipeline; therefore, the site cleanup from the subsurface contamination would be the responsibility of Crimson Pipeline, L.P. (or the current pipeline operator at the time of the leak). Mitigation Measure 3.8-3 would require the Project applicant to notify the San Joaquin County Department of Environmental Health in the event that contaminates are found on the Site, who would facilitate the site cleanup.

The proposed Project, in conjunction with cumulative development in the region, would include areas designated for a variety of urban, agricultural, and open space uses as defined by the City's General Plan. Cumulative development would include continued operation of, or development of, new facilities as allowed under each land use designation. New development would inevitably increase the use of hazardous materials within the region, resulting in potential health and safety effects related to hazardous materials use. For the most part, potential impacts associated with new and future development would be confined to commercial and industrial areas and would not involve the use of hazardous substances in large quantities or that would be particularly hazardous. Incidents, if any, would typically be site specific and would involve accidental spills or inadvertent releases. Associated health and safety risks would generally be limited to those individuals using the materials or to persons in the immediate vicinity of the materials and would not combine with similar effects elsewhere (i.e., construction workers), as hazard-related impacts tend to be site-specific and Project-specific.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would not result in significant increased risks of hazards in the cumulative area, nor would it result in any significant off-site or indirect impacts. Mitigation measures have been included to reduce the risk of on-site hazards associated with the use of on-site hazardous materials. For these reasons, cumulative impacts associated with hazards and hazardous materials would be ***less than significant***.

HYDROLOGY AND WATER QUALITY

Potential cumulative issues associated with surface waters can be addressed on a watershed basis, or in the case of groundwater, in the context of a groundwater basin. Because water resources are highly interconnected, the cumulative context is based on San Joaquin County which is located in the San Joaquin River Hydrological Region. Cumulative development in this region, including the proposed Project, would impact the water quality and hydrological features of the San Joaquin River Hydrologic Region. The City of Tracy and much of the surrounding area is located in the San Joaquin Valley Groundwater Basin. This groundwater subbasin covers approximately 345,000 acres in San Joaquin and Alameda counties, primarily between the eastern extent of the Coast Ranges on the south and the San Joaquin River on the east. Any matter that may affect water quality draining from the Project site will eventually end up in the Delta or within the groundwater basin.

Impact 4.11: Cumulative Increases in Peak Stormwater Runoff from the Project site (Less than Significant)

Implementation of the proposed Project would increase the amount of impervious surfaces in the Project site, which could increase peak stormwater runoff rates and volumes on and downstream of the Project site. However, the proposed Project includes an extensive system of on-site stormwater collection facilities to accommodate the increased stormwater flows that would originate in the Project site.

The Project site includes seven drainage areas: Area 1 (12.07 acres located along the western boundary of the site), Area 2 (36.50 acres located in the center of the site), Area 3 (2.46 acres located along the northwestern boundary of the site), Area 4 (2.00 acres located along the northern boundary of the site) Area 5 (34.26 acres located in the eastern portion of the site), Area 6 (1.64 acres located along the northern boundary of the site), and Area 7 (5.68 acres located along the eastern boundary of the site). Stormwater runoff from each of the seven drainage areas would be routed to a series of stormwater treatment/detention basins and stormwater bioretention treatment planters, located throughout the Project site, mainly in the proposed landscaped areas and along West Schulte Road.

The overall design of the drainage infrastructure, including the proposed detention basins, will be required to comply with the Multi-Agency Post Construction Stormwater Standards Manual, which includes existing and enhanced program control measures for controlling the discharge of pollutants to the municipal storm drain system to the maximum extent practicable (MEP). Additionally, the Multi-Agency Post Construction Stormwater Standards Manual requires new development to employ low impact development (LID) approaches that conserve natural areas and reduce impervious areas. The term LID means a storm water management and land development strategy that emphasizes conservation and the use of on-site natural features integrated with engineered, small-scale hydrologic controls to more closely reflect predevelopment hydrologic functions. The Project would be required to integrate LID measures throughout the Project site to provide stormwater quality treatment. As such, BMPs would be applied to the proposed development to limit the concentrations of constituents in any site runoff to acceptable levels. Stormwater flows from the Project site would be directed to the proposed stormwater treatment basins, treatment planters, and bioretention areas by a new stormwater conveyance system on the Project site.

Stormwater runoff would not be allowed to discharge directly to the existing storm drains in West Schulte Road without first discharging to the bioretention areas. The landscaping plan includes stormwater treatment plantings in the treatment/detention basins. Additionally, erosion and sediment control measures would be implemented during construction.

According to the Multi-Agency Post Construction Stormwater Standards Manual, the Project is considered a Hydromodification Management Project as it would result in the development of one acre or more of impervious surface. Hydromodification Management Projects are required to prepare and submit a Project Stormwater Quality Control Plan that demonstrates the Project incorporates site design measures, landscape features, and engineered treatment facilities (typically bioretention facilities) that will minimize imperviousness, retain or detain stormwater, slow runoff rates, and reduce pollutants in post-development runoff. In particular, the Project Stormwater Quality Control Plan will need to specify BMPs the Project will use and design specifications for selected BMPs. The Project Stormwater Quality Control Plan must be submitted for review and approval by the City of Tracy, as required by Mitigation Measure 3.9-2. Implementation of Mitigation Measure 3.9-2 would require the Project to be consistent with regulatory requirements.

The same is true of other foreseeable development in the City, which would similarly be bound to comply with strict federal, state, and local laws and regulations. For example, present and probable future development projects in the City would be required to comply with the City's stormwater runoff regulations, including but not limited to those found in the Multi-Agency Post Construction Stormwater Standards Manual and Municipal Code.

With the design and construction of flood control improvements, the proposed Project would not increase peak stormwater runoff. Overall, a ***less than significant*** cumulative impact relative to this environmental topic would occur.

Impact 4.12: Cumulative Impacts Related to Degradation of Water Quality (Less than Significant)

The proposed Project, along with several of the related projects within the City of Tracy, would ultimately discharge stormwater runoff to the nearby Delta waterways. This would potentially degrade the water quality of the system.

Construction of the proposed Project would contribute to a cumulative increase in urban pollutant loading, which could adversely affect water quality. Cumulative development in the Tracy area, including the proposed Project, would also result in increased impervious surfaces that could increase the rate and amount of runoff, thereby potentially adversely affecting existing surface water quality through increased erosion and sedimentation. The primary sources of water pollution include: runoff from roadways and parking lots; runoff from landscaping areas; non-stormwater connections to the drainage system; accidental spills; and illegal dumping. Runoff from roadway and parking lots could contain oil, grease, and heavy metals; additionally, runoff from landscaped areas could contain elevated concentrations of nutrients, fertilizers, and pesticides.

The proposed Project will be required to comply with Mitigation Measure 3.9-1 which requires the development and approval of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will

include Best Management Practices (BMPs) to regulate stormwater quality for the Project site which will be designed in accordance with the City of Tracy's NPDES issued by the Regional Water Quality Control Board (RWQCB).

While there are no assurances that other projects in the County would incorporate the same degree or methods of treatment as the proposed Project, several of the projects within the City of Tracy would phase out existing agricultural runoff discharges from their respective sites and, similar to the proposed Project, could provide some level of water quality improvement. Also, each related Project that would discharge stormwater runoff would be required to comply with NPDES discharge permits from the RWQCB, which adjusts requirements on a case-by-case basis to avoid significant degradation of water quality. Therefore, while a greater quantity of urban runoff may be discharged to the Delta system with implementation of the related projects, because of an increase in impervious surfaces, the associated surface water quality impacts would be expected to be less than significant because of improved or similar quality of runoff compared to existing conditions.

Compliance with City and County water quality protection regulations, approval from the RWQCB, and Mitigation Measure 3.9-1 would ensure that the proposed Project minimizes impacts to surface water quality. Overall, a ***less than significant*** cumulative impact relative to this environmental topic would occur.

Impact 4.13: Cumulative Impacts Related to Degradation of Groundwater Supply or Recharge (Less than Significant)

The proposed Project would result in new impervious surfaces and could reduce rainwater infiltration and groundwater recharge. Infiltration rates vary depending on the overlying soil types. In general, sandy soils have higher infiltration rates and can contribute to significant amounts of ground water recharge; clay soils tend to have lower percolation potential; and impervious surfaces such as pavement significantly reduce infiltration capacity and increase surface water runoff.

As previously stated, the Project site is located in the Lower Aquifer of the Tracy Subbasin and the Tracy Subbasin is not designated as a critically overdrafted basin. Much of the groundwater recharge sources within the Lower Aquifer are limited to precipitation and perennial streams. Precipitation in the region is 13.81 inches, most of which falls between November through April. However, only a small portion of this annual rainfall infiltrates the soil and groundwater basin because of the Corcoran Clay underlaying the majority of the Lower Aquifer area. While the proposed Project would reduce the amount of pervious surfaces within the Project site, the Project site is not located within a known recharge area for the Lower Aquifer due to the presence of Corcoran clay under the Project site[2]. Therefore, development of the Project site would not substantially interfere with groundwater recharge.

Six Groundwater Sustainability Agencies (GSAs) have formed in the Tracy Subbasin to collaboratively develop one Groundwater Sustainability Plan (GSP) for the Subbasin, including the Banta-Carbona Irrigation District, Byron-Bethany Irrigation District, San Joaquin County, City of Lathrop, City of

[2] Tracy Subbasin GSAs. June 2020. Draft Tracy Subbasin Groundwater Sustainability Plan: Chapter 4 [Figure 4-33].

Tracy, and Stewart Tract. The Tracy Subbasin GSP is required to be provided to the State by January 31, 2022. A draft Groundwater Sustainability Plan was made available for public review from August 9 to September 9, 2021. The Plan was then revised to address public comments provided during the public comment period. The City of Tracy City Council adopted the Final GSP at a public hearing held on November 16, 2021. All six GSAs must adopt the Final GSP before it can be submitted to the California Department of Water Resources (DWR) for review. The Final GSP must be submitted to DWR no later than January 31, 2022. After the GSP is submitted, the GSAs will submit annual reports to DWR and update the GSP every five years.

Additionally, Mitigation Measure 3.9-1 requires the preparation of a SWPPP, and structural BMPs. The SWPPP would require the application of BMPs to effectively reduce pollutants from stormwater leaving the site, which would ensure that stormwater runoff does not adversely increase pollutant levels, and would reduce the potential for disturbed soils and ground surfaces to result in erosion and sediment discharge into adjacent surface waters during construction and operational phases of the Project. Additionally, as described under Impact 3.9-1, the Project will be required to submit a Project Stormwater Quality Control Plan (see Mitigation Measure 3.9-2) that demonstrates the Project incorporates site design measures, landscape features, and engineered treatment facilities (typically bioretention facilities) that will minimize imperviousness, retain or detain stormwater, slow runoff rates, and reduce pollutants in post-development runoff. The Project will be required to comply with Chapter 11.34 of the Tracy Municipal Code, Stormwater Management and Discharge Control, which outlines the City requirements for stormwater management and discharge control, including controlling non-stormwater discharges to the stormwater conveyance system, eliminating discharges to the stormwater conveyance system from spills, dumping or disposal of materials other than stormwater, and reducing pollutants in urban stormwater discharges to the maximum extent practicable.

For the reasons mentioned above, the proposed Project would not cause the substantial depletion of groundwater supplies or interfere substantially with groundwater recharge. Implementation of the proposed Project, in combination with past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

LAND USE

The cumulative context for land use impacts is the City of Tracy.

Impact 4.14: Cumulative Impact on Communities and Local Land Uses (Less than Significant)

Cumulative land use impacts, such as the potential for conflicts with adjacent land uses and consistency with adopted plans and regulations, are typically site- and Project-specific. The land uses, as proposed, are consistent with the General Plan.

The Project site is currently within the jurisdiction of San Joaquin County. The Project site is designated as Agriculture by the County's General Plan Land Use Map and is zoned as AG-40 Agriculture by the County. The site currently has a City General Plan land use designation of Industrial (I).

Additionally, the San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Tracy in conjunction with the proposed annexation. The City's pre-zoning will include the Light Industrial (M-1) zoning designation for Project site. The pre-zoning would go into effect upon annexation into the City of Tracy. Additionally, the Project is requesting a Conditional Use Permit to allow for food processing and canning in the proposed M-1 zoning district. The proposed pre-zoning for the Project site is shown on Figure 2.0-6 in Chapter 2.0.

This proposed zone change would ensure that zoning would be consistent with the General Plan land use designation within the Project site. The zoning ordinance establishes permitted uses, development densities and intensities, and development standards for each zone to ensure that public health, safety, and general welfare are protected, consistent with the purpose of the Zoning Code. All existing City development standards and zoning requirements for the proposed zoning are applicable to the proposed activities on the Project site. The City reviews all plans (improvement plans, building plans, site plans, etc.) that are submitted for final approval to ensure that they are consistent with the City's Zoning ordinance. Approval of the prezoning by the City would ensure that the proposed Project would be consistent with the Zoning Code.

Further, the proposed Project is consistent with LAFCo policies adopted to address environmental impacts, with the exception of impacts to agricultural lands. Section 3.2, Agricultural Resources, addresses impacts related to conversion of agricultural land.

Lastly, the proposed Project does not conflict with the implementation of the SJMSCP and has appropriate measures to ensure compliance with payment of mitigation fees.

The City will review each component of the proposed Project as plans (improvement plans, building plans, site plans, etc.) are submitted for final approval to ensure that they are consistent with the City's Zoning ordinance. Overall, the proposed Project, in combination with and past, present, and probable future projects, will have a ***less than significant*** impact relative to this topic.

NOISE

The cumulative context for noise impacts consists of the existing and future noise sources that could affect the Project site or surrounding uses.

Impact 4.15: Cumulative Exposure of Existing Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development (Significant and Unavoidable and Cumulatively Considerable)

Noise generated by construction would be temporary, and would not add to the permanent noise environment or be considered as part of the cumulative context. The total noise impact of the proposed Project would be fairly small and would not be a substantial increase to the existing future noise environment. Thus, the proposed Project would result in a less-than-significant cumulative impact.

Cumulative noise impacts would occur primarily as a result of increased traffic on local roadways and on-site activities resulting from operation of the proposed Project. The primary non-transportation noise sources associated with the proposed Project are on-site parking lot circulation

and the loading docks. Table 3.11-9 in Section 3.11, Noise, shows cumulative traffic noise levels with and without the proposed Project. Additionally, operational noise levels at the existing residential receptors to the west of the site resulting from the proposed Project are quantified and shown in Figures 3.11-2 and 3.11-3. Figure 3.11-2 shows the average (L_{eq}) Project noise contours and Figure 3.11-3 shows the maximum (L_{max}) Project noise contours.

As discussed in Section 3.11, based upon Figure 3.11-3, the proposed Project is predicted to generate maximum noise levels of approximately 68 dBA L_{max} at the property line of the residential uses to the west of the Project site. This would comply with the San Joaquin County maximum noise level limits of 70 dBA L_{max} during daytime hours but would exceed the County's 65 dBA L_{max} standard during nighttime hours. In order to reduce project-related noise levels, Saxelby Acoustics used the Sound PLAN noise model to evaluate the use of noise barriers for reducing project-related noise levels at the adjacent residential uses. Figure 3.11-4 shows the exterior noise levels in terms of the peak hour average (L_{eq}) noise level, with a 20-foot-tall acoustically absorbent screen wall located along the western boundary of the Project site. The resulting noise levels of up to 50 dBA L_{eq} would comply with the County's 50 dBA L_{eq} daytime standard but would still exceed the County's 45 dBA L_{eq} nighttime noise standard. As such, a sound wall would not result in noise levels at or below the County's nighttime noise standard. Therefore, the County's exterior noise standards would still be exceeded. Because the County's exterior noise standards would still be exceeded as a result of operational noise at the Project site, the proposed Project would have a ***significant and unavoidable*** cumulative impact relative to operational noise. As such, impacts related to cumulative operational noise would result a ***cumulatively considerable contribution***.

Noise generated by construction would be temporary, and would not add to the permanent noise environment or be considered as part of the cumulative context. Compliance with the City's permissible hours of construction, as well as implementing the best management noise reduction techniques and practices (both outlined in Mitigation Measure 3.11-1), would ensure that construction noise would not result in a substantial temporary increase in ambient noise levels that would result in annoyance or sleep disturbance of nearby sensitive receptors.

The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within the County), would not be expected to cause any significant cumulative construction noise impacts. The proposed Project would not have cumulatively considerable impacts associated with construction noise. Implementation of the proposed project would have a ***less than significant cumulative impact*** and ***less than cumulatively considerable*** incremental contribution to cumulative impacts on construction noise.

The operational noise from the proposed Project is expected to produce noise levels that would exceed County standards. Consequently, the total noise impact of the proposed Project would be a substantial increase to the future noise environment. Consequently, the proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within the County), would be expected to cause ***significant and unavoidable*** cumulative impacts. The proposed project would have ***cumulatively considerable*** impacts associated with noise.

PUBLIC SERVICES

The cumulative context would includes all areas covered by the service areas of the South San Joaquin County Fire Authority (SSJCFA), Tracy Police Department (TPD), the Lammersville Elementary School District, and any other relevant public services.

Impact 4.16: Cumulative Impact on Public Services (Less than Significant)

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would contribute toward an increased demand for public services and facilities within the City of Tracy. It has been determined that the project-level impacts to the police, fire, schools, and other public services would be less-than-significant. The proposed Project would be subject to all fees that are paid toward the enhancement of public services within the region. Payment of the applicable development fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the proposed Project, would assist in maintaining existing fire, police, schools, and other services.

Under cumulative conditions, past, present, and probably future projects would result in increased demand for public services and recreational facilities. The impact fees developed and reviewed by the City will recover future development's proportionate share of City-related capital asset costs. Fees, as applied only to new development, represent future development's proportionate share of public services and facilities capital costs. It is important to note that impact fees may not be used to correct existing deficiencies, but may be used to pay for increased demand for public facilities or increased demand upon existing capital facilities provided that those facilities are needed to serve additional development and have the capacity to do so, given relevant level-of-service standards. The construction of public facilities to serve past, present, and probably future projects may be required, which could cause substantial adverse physical environmental impacts. The construction and operation of future public facilities required to serve cumulative development could potentially cause cumulatively significant impacts, but such physical impacts cannot be fully defined at this time because the exact facilities are not proposed or known. Any future public facility would undergo its own environmental review to determine physical environmental impacts once it is contemplated, and proposed for construction.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** cumulative impact relative to this environmental topic.

TRANSPORTATION AND CIRCULATION

The cumulative context for this analysis including the City of Tracy Sphere of Influence (SOI) and nearby areas of San Joaquin County. The analysis models the overall change in vehicle-miles-traveled (VMT) in Tracy and the nearby areas of San Joaquin County as a result of forecast development, with the addition of the proposed Project. The intent is to understand how the proposed Project will influence travel behavior in light of future conditions, and to identify possible significant cumulative impacts.

Impact 4.17: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) (Significant and Unavoidable and Cumulatively Considerable)

The proposed Project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.2 VMT per employee. The City's VMT Calculator estimates that the Project would generate 24.8 VMT per employee, and the Project exceeds the threshold by 164 percent. This VMT per employee value is also applicable to the cumulative scenario, since it also applies under cumulative conditions. Because the Project exceeds the City threshold by 164 percent, a reduction below the City's VMT threshold is not feasible.

Mitigation Measure 3.13-1, which requires travel demand management (TDM) strategies, would be required. Implementation of Mitigation Measure 3.13-1 is feasible because it is within the applicant's purview to implement and has been found effective in previous academic studies. However, the precise effectiveness of specific TDM strategies can be difficult to accurately measure due to a number of external factors such as types of tenants, employee responses to strategies, and changes to technology.

In order for a specific project to have a less than significant impact related to VMT, the project must demonstrate that per capita VMT would be 15 percent below the regional average. Because future development would likely be equal to the regional average, or above average (or less than average but not fully 15 percent less than average), impacts related to VMT would be ***significant and unavoidable***. Exceptions to this would be infill projects, or small projects which include VMT reducing strategies. Due to the size of the Project and the fact that the Project exceeds the City threshold by 164 percent, the incremental contribution to this cumulative VMT impact would be ***cumulatively considerable***.

Impact 4.18: Under Cumulative conditions, the proposed Project would not adversely affect pedestrian, bicycle, or transit facilities (Less than Significant)

Implementation of the proposed Project would not result in a conflict with an existing or planned pedestrian facility, bicycle facility, or transit service/facility. In addition, the Project would not interfere with the implementation of a planned bicycle facility, pedestrian facility, or transit service/facility. The Project would not cause a degradation in transit service such that service does not meet performance standards established by the transit operator.

The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within Stanislaus County), would not be expected to cause any significant cumulative pedestrian or bicycle facilities impacts. The proposed Project would not have cumulatively considerable impacts associated with pedestrian or bicycle facilities. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

UTILITIES AND SERVICE SYSTEMS

The cumulative context includes all areas covered in the service areas of the City's wastewater system, water system, stormwater system, and the solid waste collection and disposal services. Under General Plan buildout conditions, the City would see an increased demand for water service, sewer service, solid waste disposal services, and stormwater infrastructure needs.

Impact 4.19: Cumulative Impact on Wastewater Utilities (Less than Significant)

The City of Tracy's wastewater collection system consists of gravity sewer lines, pump stations and the Wastewater Treatment Plant (WWTP). The NPDES permit for the Tracy WWTP was adopted in May 2007 with proposed amendments initiated in 2008 and 2010. Treated wastewater from the Tracy WWTP is discharged to Old River under Order No. R5-2007-0036 (NPDES No. CA0079154). Because, in the opinion of the Water Board, there is a potential impact to groundwater at the facility, the Tracy WWTP's industrial pretreatment ponds, industrial holding ponds, sludge drying beds, and biosolids storage areas of the facility are regulated by separate waste discharge requirements as defined in Order No. R5-2007-0038. The NPDES permit CA 0079154 allows for discharge of 10.8 million gallons per day (mgd) and up to 16 mgd if applicable treatment facilities are constructed. The WWTP provides disinfected tertiary level treatment meeting Title 22 requirements of the Code of Regulations from the State Water Resource Control Board. The WWTP includes primary clarifiers, activated sludge, secondary clarifiers, flocculation, tertiary filtration, and disinfection.

The City of Tracy's wastewater treatment system is currently in compliance with the WDR requirements of Order No. R5-2007-0036 NPDES NO. CA0079154. The wastewater treatment system options covered under this Order include: City of Tracy WWTP including the collection system, basin/disposal fields, discharge to the Old River, and recycling conveyance and irrigation system. The development of the proposed Project under this permitted option would not exceed the wastewater discharge requirements in this Order as described under Impact 3.14-1 in Section 3.14.

The overall collection sewer strategy for the City of Tracy, including the proposed Project, consists of a combination trunk sewer gravity collection system with pump or lift stations located along the collection system to convey wastewater to an influent pump station located at the City WWTP.

New wastewater collection and conveyance infrastructure needed for the proposed Project would require trenching/excavation of earth, and placement of pipe within the trenches at specific locations, elevations, and gradients. All onsite wastewater utility improvements would be within existing agricultural lands or land currently developed with roadways (i.e., Schulte Road), the impacts of which are discussed in Section 3.2 Agricultural Resources and throughout this EIR.

According to the City's 2012 Wastewater Master Plan, Industrial uses are estimated to generate 1,500 gallons per gross acre per day. The Project site includes 103 acres of Industrial uses. Using this rate, the proposed Industrial uses would generate approximately 154,500 gallons per day (gpd) of wastewater. The proposed Project would increase the amount of wastewater requiring treatment. The wastewater would be treated at the WWTP, which has an ADWF design capacity of 10.8 mgd. Therefore, the project would allocate approximately 1.4 percent of available wastewater capacity

of the WWTP to serve the project. Occupancy of the proposed Project would be prohibited without sewer allocation

The Project by itself does not exceed the existing capacity of the wastewater treatment plant. The Project and any future cumulative projects would be required to secure adequate wastewater treatment capacity/allocation prior to occupancy of any building which would require wastewater treatment services. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

Impact 4.20: Cumulative Impact on Water Utilities (Less than Significant)

The provision of public services and the construction of onsite infrastructure improvements will be required to accommodate the development of the proposed Project. Water distribution will be by an underground distribution system to be installed as per the City of Tracy standards and specifications. The proposed Project would require extension of offsite water conveyance infrastructure to the Project site for potable water and irrigation water. All offsite water utility improvements will be in or adjacent to existing roadways along the perimeter of the Project site, thereby limiting any potential impact to areas that were not already disturbed.

Projected water demands for buildout of the Proposed Project total approximately 156 acre-feet per year (AFY) of which about approximately 114 AFY is industrial demand, approximately 29 AFY is irrigation demand, and approximately 15 AFY is unaccounted-for water. The Water Supply Assessment completed for the proposed Project demonstrates that the City's existing and available potable water supplies are sufficient to meet the City's existing and projected future potable water demands to the year 2040 under all hydrologic conditions. Implementation of the proposed Project would have a ***less than significant*** and ***less than cumulatively considerable*** impact relative to this topic.

Impact 4.21: Cumulative Impact on Stormwater Facilities (Less than Significant)

Because the proposed project increases impervious surface area from an existing undeveloped and predominately previous site, the Project site could increase runoff significantly, Project impacts to stormwater are considered potentially significant. Onsite storm drainage would be installed to serve the proposed Project. Development of the proposed Project would include construction of a new storm drainage system, including a drainage collection system, and detention basins. All on-site storm drainage runoff will be collected through drain inlets and catch basins along the streets, and conveyed via surface swales and underground trunk lines to detention and water quality basins. The storm water drainage detention basins will be constructed to meet the City of Tracy Standards. Discharge from the basins will be conveyed through controlled flow pumping facilities to existing City of Tracy and main storm drain laterals.

Installation of the Project's storm drainage system will be subject to current City of Tracy Design Specifications and Standards. The proposed storm drainage collection and detention system will be subject to the SWRCB and City of Tracy regulations, including: Tracy Storm Drain Master Plan, 2012; Phase II, NPDES Permit Requirements; NPDES-MS4 Permit Requirements; and LID Guidelines.

The potential environmental effects resulting from construction of the storm drainage system are analyzed throughout this Draft EIR, and in some cases, there are potentially significant impacts associated with construction of this infrastructure. Where impacts are identified for each environmental topic, mitigation measures are developed to avoid, minimize, or compensate for the impact to the extent practicable. All mitigation measures presented throughout this EIR will be implemented to reduce impacts to the extent practicable. There will not be any significant impacts beyond what is disclosed in the other chapters of this document. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

Impact 4.22: Cumulative Impact on Solid Waste Facilities (Less than Significant)

Currently, the permitted capacity of the Foothill Landfill is 102 million cubic yards. The remaining capacity of the facility is approximately 95 million cubic yards. The addition of the volume of solid waste associated with the Project to the landfill would not exceed the landfill's remaining capacity.

Based on the waste generation factors provided by CalRecycle, the proposed project is expected to generate approximately 5,561 pounds per day of solid waste upon full buildout, which is equivalent to 2.8 tons per day. The proposed project would be required to comply with applicable State and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. The City would coordinate development of the proposed project with Tracy Disposal Service. Furthermore, the addition of the volume of solid waste associated with the proposed project, approximately 2.8 tons per day, would increase the total tons of solid waste to the MRF to approximately 357 tons per day; however, this increase would not cause an exceedance of the landfill's remaining capacity.

According to the City's General Plan Draft EIR, growth within San Joaquin County would contribute to the need for adequate solid waste disposal facilities. The Foothill landfill has capacity until at least 2054. The cumulative population growth within the County was considered when evaluating the lifespan of the facility and planning for future expansions. As a result, it can be concluded that there would be adequate capacity to support regional increases in population, and a significant cumulative impact would not occur.

The proposed Project would be required to comply with applicable state and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. In conclusion, implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** cumulative impact relative to this environmental topic.

4.2 SIGNIFICANT IRREVERSIBLE EFFECTS

LEGAL CONSIDERATIONS

CEQA Section 15126.2(c) and Public Resources Code Sections 21100(b)(2) and 21100.1(a) require that the EIR include a discussion of significant irreversible environmental changes which would be involved in the proposed action should it be implemented. Irreversible environmental effects are described as:

- The project would involve a large commitment of nonrenewable resources;
- The primary and secondary impacts of a project would generally commit future generations to similar uses (e.g., a highway provides access to previously remote area);
- The project involves uses in which irreversible damage could result from any potential environmental accidents associated with the project; or
- The phasing of the proposed consumption of resources is not justified (e.g., the project involves the wasteful use of energy).

Determining whether the proposed Project would result in significant irreversible effects requires a determination of whether key resources would be degraded or destroyed such that there would be little possibility of restoring them. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

Analysis

Implementation of the proposed Project would result in the conversion of the approximately 103.0-acre Development Area, which is comprised of vacant land previously used for agricultural purposes and a small portion of land used as an overflow outlet for the Delta-Mendota Canal for the development of industrial uses. Development of the proposed Project would constitute a long-term commitment to these uses. It is unlikely that circumstances would arise that would justify the return of the land to its previous condition as agricultural or vacant rural land.

A variety of resources, including land, energy, water, construction materials, and human resources would be irretrievably committed for the initial construction, infrastructure installation and connection to existing utilities, and its continued maintenance. Construction of the proposed Project would require the commitment of a variety of other non-renewable or slowly renewable natural resources such as lumber and other forest products, sand and gravel, asphalt, petrochemicals, and metals.

Additionally, a variety of resources would be committed to the ongoing operation and life of the proposed Project. The introduction of industrial uses to the Project site will result in an increase in area traffic over existing conditions. Fossil fuels are the principal source of energy (due to the usage of mobile vehicles that use fossil fuels such as gasoline and diesel) and the proposed Project will increase consumption of available supplies, including gasoline and diesel. These energy resource demands relate to initial Project construction, Project operation and site maintenance and the transport of people and goods to and from the Project site.

4.3 SIGNIFICANT AND UNAVOIDABLE IMPACTS

CEQA Guidelines Section 15126.2(b) requires an EIR to discuss unavoidable significant environmental effects, including those that can be mitigated but not reduced to a less than significant level . The following significant and unavoidable impacts of the proposed Project are discussed in Sections 3.1 through 3.14 and previously in this chapter (cumulative-level). Refer to those discussions for further details and analysis of the significant and unavoidable impacts identified below:

- Impact 3.1-1: Project implementation may result in substantial adverse effects on scenic vistas and resources.
- Impact 3.2-1: The proposed Project has the potential to result in the conversion of Farmlands, including Prime Farmland and Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural uses.
- Impact 3.3-1: Project operation would result in a cumulatively considerable net increase of a criteria pollutant for which the Project region is in non-attainment, or conflict or obstruct implementation of the Air District's air quality plan.
- Impact 3.3-2: The proposed Project would result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard.
- Impact 3.11-1: The proposed Project has the potential to generate 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.
- Impact 3.13-1: Project implementation would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) in terms of vehicle miles traveled (VMT).
- Impact 4.2: Cumulative Degradation of the Existing Visual Character of the Region
- Impact 4.4: Cumulative Impact on Agricultural Resources
- Impact 4.5: Cumulative Impact on the Region's Air Quality
- Impact 4.15: Cumulative Exposure of Existing Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development
- Impact 4.17: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) in terms of vehicle miles traveled (VMT).

4.4 GROWTH-INDUCING IMPACTS

Section 15126.2(d) of the CEQA Guidelines requires an EIR to "discuss the ways in which the project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects which would remove obstacles to population growth..." In general terms, a project may result in a significant growth-inducing impact if it individually or cumulatively with other projects results in any of the actions described in the following examples:

- The project removes an obstacle to growth, such as: the establishment of an essential public service, the provision of new access to an area, or a change in zoning or general plan designation.
- The project results in economic expansion, population growth or the construction of additional housing occurs in the surrounding environment in response to the project, either directly or indirectly.

Existing storm drain, sewer, water, and gas lines/pipes are currently located along West Schulte Road. The Project would be served by existing sewer, water and other utility services that have been established on the Project site and in the Project area. Access to the Project would be provided by existing roads and proposed roadways. The main entry and exit point for employee vehicles would be located at the center of the site, at the existing signalized Bud Lyons Way intersection. A second employee entry would be located east of the Bud Lyons Way intersection and would be right-in and right-out only. The third access driveway located at the Project site's northeast boundary includes a new signalized intersection and a deceleration lane for trucks traveling eastbound on West Schulte Road. Therefore, the proposed Project would not require an extension of public services that have the potential to result in or facilitate unplanned growth in the Project area.

The proposed Project would provide employment opportunities for City and County residents on a site that has been planned for industrial development by the City of Tracy General Plan and associated EIR. Overall, the additional industrial uses in the City would not have the long-term effect of inducing population growth.

The Project would result in an increase in employment opportunities by creating full-time job positions. The Project would also generate short-term construction employment opportunities, but these opportunities would not result in substantial population growth in the project region. Therefore, the proposed Project would not result in significant growth inducing impacts.

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APPENDIX A

Air Quality, Greenhouse Gas, and Energy Appendices

CONTENTS

APPENDIX A.1

CalEEMod Outputs

Tracy Costco (Main Model Run) v3 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco (Main Model Run) v3
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	—	—
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	—	—
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.02	6.24	39.7	133	0.22	0.77	19.8	19.9	0.75	10.1	10.3	—	34,411	34,411	1.19	2.27	59.4	35,167
Mit.	7.02	6.24	39.7	133	0.22	0.77	13.1	13.8	0.75	3.97	4.58	—	34,411	34,411	1.19	2.27	59.4	35,167
% Reduced	—	—	—	—	—	—	34%	31%	—	61%	55%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.35	9.54	48.4	125	0.22	0.84	18.0	18.9	0.81	5.99	6.80	—	36,644	36,644	1.05	2.98	2.46	37,558
Mit.	9.35	9.54	48.4	125	0.22	0.84	16.7	17.4	0.81	4.09	4.74	—	36,644	36,644	1.05	2.98	2.46	37,558
% Reduced	—	—	—	—	—	—	8%	8%	—	32%	30%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.38	5.21	29.1	96.9	0.16	0.55	14.3	14.9	0.53	4.78	5.32	—	24,848	24,848	0.76	1.49	19.0	25,328
Mit.	5.38	5.21	29.1	96.9	0.16	0.55	10.3	10.8	0.53	3.01	3.55	—	24,848	24,848	0.76	1.49	19.0	25,328
% Reduced	—	—	—	—	—	—	28%	27%	—	37%	33%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.98	0.95	5.31	17.7	0.03	0.10	2.62	2.72	0.10	0.87	0.97	—	4,114	4,114	0.13	0.25	3.15	4,193
Mit.	0.98	0.95	5.31	17.7	0.03	0.10	1.87	1.97	0.10	0.55	0.65	—	4,114	4,114	0.13	0.25	3.15	4,193
% Reduced	—	—	—	—	—	—	28%	27%	—	37%	33%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.34	2.21	16.1	98.3	0.20	0.48	19.8	19.9	0.48	10.1	10.3	—	23,249	23,249	0.86	0.85	12.0	23,537
2025	7.02	6.24	39.7	133	0.22	0.77	18.0	18.8	0.75	5.99	6.74	—	34,411	34,411	1.19	2.23	59.4	35,167
2026	5.07	4.38	29.9	68.3	0.14	0.45	9.76	10.2	0.44	2.43	2.87	—	24,243	24,243	0.55	2.27	54.2	24,987

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	6.28	5.57	33.3	107	0.20	0.61	16.7	17.3	0.59	5.64	6.23	—	27,006	27,006	1.05	1.62	1.33	27,517
2025	9.35	9.54	48.4	125	0.22	0.84	18.0	18.9	0.81	5.99	6.80	—	36,644	36,644	1.04	2.98	2.46	37,558
2026	4.36	3.79	22.3	54.0	0.09	0.30	8.34	8.64	0.29	2.05	2.33	—	17,792	17,792	0.47	1.49	1.10	18,248
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.97	0.90	6.43	37.5	0.07	0.18	6.37	6.56	0.18	2.13	2.31	—	8,858	8,858	0.33	0.33	2.24	8,967
2025	5.38	5.21	29.1	96.9	0.16	0.55	14.3	14.9	0.53	4.78	5.32	—	24,848	24,848	0.76	1.49	19.0	25,328
2026	2.46	2.13	13.3	30.9	0.06	0.19	4.76	4.94	0.18	1.17	1.35	—	10,692	10,692	0.27	0.93	10.8	10,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.16	1.17	6.84	0.01	0.03	1.16	1.20	0.03	0.39	0.42	—	1,467	1,467	0.05	0.05	0.37	1,485
2025	0.98	0.95	5.31	17.7	0.03	0.10	2.62	2.72	0.10	0.87	0.97	—	4,114	4,114	0.13	0.25	3.15	4,193
2026	0.45	0.39	2.43	5.65	0.01	0.03	0.87	0.90	0.03	0.21	0.25	—	1,770	1,770	0.04	0.15	1.78	1,819

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.34	2.21	16.1	98.3	0.20	0.48	7.81	7.95	0.48	3.97	4.11	—	23,249	23,249	0.86	0.85	12.0	23,537
2025	7.02	6.24	39.7	133	0.22	0.77	13.1	13.8	0.75	3.83	4.58	—	34,411	34,411	1.19	2.23	59.4	35,167
2026	5.07	4.38	29.9	68.3	0.14	0.45	9.76	10.2	0.44	2.43	2.87	—	24,243	24,243	0.55	2.27	54.2	24,987
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	6.28	5.57	33.3	107	0.20	0.61	11.8	12.4	0.59	3.49	4.07	—	27,006	27,006	1.05	1.62	1.33	27,517
2025	9.35	9.54	48.4	125	0.22	0.84	16.7	17.4	0.81	4.09	4.74	—	36,644	36,644	1.04	2.98	2.46	37,558

2026	4.36	3.79	22.3	54.0	0.09	0.30	8.34	8.64	0.29	2.05	2.33	—	17,792	17,792	0.47	1.49	1.10	18,248
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.97	0.90	6.43	37.5	0.07	0.18	2.91	3.09	0.18	0.94	1.12	—	8,858	8,858	0.33	0.33	2.24	8,967
2025	5.38	5.21	29.1	96.9	0.16	0.55	10.3	10.8	0.53	3.01	3.55	—	24,848	24,848	0.76	1.49	19.0	25,328
2026	2.46	2.13	13.3	30.9	0.06	0.19	4.76	4.94	0.18	1.17	1.35	—	10,692	10,692	0.27	0.93	10.8	10,987
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.16	1.17	6.84	0.01	0.03	0.53	0.56	0.03	0.17	0.20	—	1,467	1,467	0.05	0.05	0.37	1,485
2025	0.98	0.95	5.31	17.7	0.03	0.10	1.87	1.97	0.10	0.55	0.65	—	4,114	4,114	0.13	0.25	3.15	4,193
2026	0.45	0.39	2.43	5.65	0.01	0.03	0.87	0.90	0.03	0.21	0.25	—	1,770	1,770	0.04	0.15	1.78	1,819

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227

Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,199	2,199	0.32	0.03	—	2,217
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033

Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,536	1,536	0.21	0.02	—	1,547
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.92	0.92	—	0.47	0.47	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.26	2.70	5.19	0.01	0.07	—	0.07	0.06	—	0.06	—	743	743	0.03	0.01	—	745

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.26	2.70	5.19	0.01	0.07	—	0.07	0.06	—	0.06	—	743	743	0.03	0.01	—	745
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.31	0.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.5	85.5	< 0.005	< 0.005	—	85.7
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.1	14.1	< 0.005	< 0.005	—	14.2
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	69.4	69.4	< 0.005	< 0.005	0.26	70.5
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	0.01	63.5
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.39	7.39	< 0.005	< 0.005	0.01	7.50
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.30	0.26	2.70	5.19	0.01	0.07	—	0.07	0.06	—	0.06	—	743	743	0.03	0.01	—	745
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.26	2.70	5.19	0.01	0.07	—	0.07	0.06	—	0.06	—	743	743	0.03	0.01	—	745
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.31	0.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.5	85.5	< 0.005	< 0.005	—	85.7
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.1	14.1	< 0.005	< 0.005	—	14.2
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.39	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	69.4	69.4	< 0.005	< 0.005	0.26	70.5
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.7	62.7	< 0.005	< 0.005	0.01	63.5
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.39	7.39	< 0.005	< 0.005	0.01	7.50
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.24
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.25	2.66	5.17	0.01	0.06	—	0.06	0.06	—	0.06	—	743	743	0.03	0.01	—	745
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.40	0.78	< 0.005	0.01	—	0.01	0.01	—	0.01	—	112	112	< 0.005	< 0.005	—	112
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.5	18.5	< 0.005	< 0.005	—	18.6
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	67.9	67.9	< 0.005	< 0.005	0.23	68.9
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.48	9.48	< 0.005	< 0.005	0.02	9.62
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.25	2.66	5.17	0.01	0.06	—	0.06	0.06	—	0.06	—	743	743	0.03	0.01	—	745

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.40	0.78	< 0.005	0.01	—	0.01	0.01	—	0.01	—	112	112	< 0.005	< 0.005	—	112
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.5	18.5	< 0.005	< 0.005	—	18.6
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	67.9	67.9	< 0.005	< 0.005	0.23	68.9
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.48	9.48	< 0.005	< 0.005	0.02	9.62
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.92	10.7	94.8	0.17	0.40	—	0.40	0.40	—	0.40	—	18,516	18,516	0.75	0.15	—	18,580
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.96	1.92	10.7	94.8	0.17	0.40	—	0.40	0.40	—	0.40	—	18,516	18,516	0.75	0.15	—	18,580
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.66	3.65	32.5	0.06	0.14	—	0.14	0.14	—	0.14	—	6,341	6,341	0.26	0.05	—	6,363
Dust From Material Movement	—	—	—	—	—	—	4.62	4.62	—	1.41	1.41	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	0.67	5.92	0.01	0.03	—	0.03	0.02	—	0.02	—	1,050	1,050	0.04	0.01	—	1,053
Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.13	2.28	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	378	378	0.02	0.01	1.51	384
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.80	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	342	342	0.02	0.01	0.04	346
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.63	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	120	120	0.01	< 0.005	0.22	122
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.9	19.9	< 0.005	< 0.005	0.04	20.2
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.92	10.7	94.8	0.17	0.40	—	0.40	0.40	—	0.40	—	18,516	18,516	0.75	0.15	—	18,580
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.92	10.7	94.8	0.17	0.40	—	0.40	0.40	—	0.40	—	18,516	18,516	0.75	0.15	—	18,580
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.66	3.65	32.5	0.06	0.14	—	0.14	0.14	—	0.14	—	6,341	6,341	0.26	0.05	—	6,363
Dust From Material Movement	—	—	—	—	—	—	1.80	1.80	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	0.67	5.92	0.01	0.03	—	0.03	0.02	—	0.02	—	1,050	1,050	0.04	0.01	—	1,053
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.19	0.13	2.28	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	378	378	0.02	0.01	1.51	384

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.80	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	342	342	0.02	0.01	0.04	346
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.63	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	120	120	0.01	< 0.005	0.22	122
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.9	19.9	< 0.005	< 0.005	0.04	20.2
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	1.03	7.36	43.0	0.07	0.23	—	0.23	0.22	—	0.22	—	7,903	7,903	0.32	0.06	—	7,930

Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	148	148	0.01	< 0.005	—	149
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.6	24.6	< 0.005	< 0.005	—	24.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.12	1.35	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	256	256	0.02	0.01	0.03	260
Vendor	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	0.00
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.93	4.93	< 0.005	< 0.005	0.01	5.01
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.82	0.82	< 0.005	< 0.005	< 0.005	0.83
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	1.03	7.36	43.0	0.07	0.23	—	0.23	0.22	—	0.22	—	7,903	7,903	0.32	0.06	—	7,930
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	148	148	0.01	< 0.005	—	149

Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.6	24.6	< 0.005	< 0.005	—	24.7
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.12	1.35	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	256	256	0.02	0.01	0.03	260
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.93	4.93	< 0.005	< 0.005	0.01	5.01
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.82	0.82	< 0.005	< 0.005	< 0.005	0.83
Vendor	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	0.00

Hauling	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	0.00

3.11. Off-site Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	1.02	7.32	43.0	0.07	0.22	—	0.22	0.21	—	0.21	—	7,908	7,908	0.32	0.06	—	7,935
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	1.02	7.32	43.0	0.07	0.22	—	0.22	0.21	—	0.21	—	7,908	7,908	0.32	0.06	—	7,935
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.83	6.00	35.2	0.06	0.18	—	0.18	0.17	—	0.17	—	6,481	6,481	0.26	0.05	—	6,503

Dust From Material Movement	—	—	—	—	—	—	6.67	6.67	—	2.90	2.90	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.15	1.09	6.43	0.01	0.03	—	0.03	0.03	—	0.03	—	1,073	1,073	0.04	0.01	—	1,077
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.53	0.53	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.04	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	211	211	0.01	0.01	0.36	214
Vendor	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	0.00
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.9	34.9	< 0.005	< 0.005	0.06	35.4
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	1.02	7.32	43.0	0.07	0.22	—	0.22	0.21	—	0.21	—	7,908	7,908	0.32	0.06	—	7,935
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	1.02	7.32	43.0	0.07	0.22	—	0.22	0.21	—	0.21	—	7,908	7,908	0.32	0.06	—	7,935
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.88	0.83	6.00	35.2	0.06	0.18	—	0.18	0.17	—	0.17	—	6,481	6,481	0.26	0.05	—	6,503
Dust From Material Movement	—	—	—	—	—	—	2.60	2.60	—	1.13	1.13	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.15	1.09	6.43	0.01	0.03	—	0.03	0.03	—	0.03	—	1,073	1,073	0.04	0.01	—	1,077
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.04	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	211	211	0.01	0.01	0.36	214

Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.9	34.9	< 0.005	< 0.005	0.06	35.4
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.26	2.97	3.00	33.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,258	6,258	0.39	0.26	0.72	6,345
Vendor	0.46	0.30	11.2	3.69	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,242	8,242	0.15	1.26	0.58	8,620
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	0.01	0.01	0.25	138
Vendor	0.01	0.01	0.23	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	174	174	< 0.005	0.03	0.20	182
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.4	22.4	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.8	28.8	< 0.005	< 0.005	0.03	30.2
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.26	2.97	3.00	33.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,258	6,258	0.39	0.26	0.72	6,345
Vendor	0.46	0.30	11.2	3.69	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,242	8,242	0.15	1.26	0.58	8,620
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	0.01	0.01	0.25	138
Vendor	0.01	0.01	0.23	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	174	174	< 0.005	0.03	0.20	182
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.4	22.4	< 0.005	< 0.005	0.04	22.8
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.8	28.8	< 0.005	< 0.005	0.03	30.2
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.32	3.07	2.07	38.2	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,780	6,780	0.32	0.26	25.2	6,890
Vendor	0.43	0.27	10.1	3.43	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,098	8,098	0.15	1.20	22.2	8,481
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.64	2.41	1.97	26.5	0.00	0.00	5.23	5.23	0.00	1.22	1.22	—	5,353	5,353	0.14	0.22	9.27	5,431
Vendor	0.36	0.22	8.93	2.97	0.05	0.10	1.85	1.95	0.10	0.51	0.61	—	6,905	6,905	0.13	1.02	8.18	7,221
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.36	4.83	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	886	886	0.02	0.04	1.54	899
Vendor	0.07	0.04	1.63	0.54	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,143	1,143	0.02	0.17	1.35	1,196
Hauling	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	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.32	3.07	2.07	38.2	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,780	6,780	0.32	0.26	25.2	6,890
Vendor	0.43	0.27	10.1	3.43	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,098	8,098	0.15	1.20	22.2	8,481
Hauling	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.64	2.41	1.97	26.5	0.00	0.00	5.23	5.23	0.00	1.22	1.22	—	5,353	5,353	0.14	0.22	9.27	5,431
Vendor	0.36	0.22	8.93	2.97	0.05	0.10	1.85	1.95	0.10	0.51	0.61	—	6,905	6,905	0.13	1.02	8.18	7,221
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.36	4.83	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	886	886	0.02	0.04	1.54	899
Vendor	0.07	0.04	1.63	0.54	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,143	1,143	0.02	0.17	1.35	1,196
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	44.2	44.2	< 0.005	< 0.005	0.08	44.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.07	59.7
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.43
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.45	9.45	< 0.005	< 0.005	0.01	9.88
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.10	2.81	2.76	30.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,127	6,127	0.18	0.26	0.65	6,208
Vendor	0.41	0.24	10.7	3.50	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	8,104	8,104	0.15	1.20	0.58	8,466
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	44.2	44.2	< 0.005	< 0.005	0.08	44.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.1	57.1	< 0.005	0.01	0.07	59.7
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.43
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.45	9.45	< 0.005	< 0.005	0.01	9.88
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.87	1.85	35.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,638	6,638	0.13	0.24	22.8	6,736
Vendor	0.42	0.25	9.63	3.24	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	7,951	7,951	0.15	1.20	19.5	8,332
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.94	2.66	2.33	28.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,000	6,000	0.16	0.26	0.59	6,081
Vendor	0.41	0.24	10.2	3.35	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	7,958	7,958	0.15	1.20	0.51	8,320
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.60	1.46	1.14	15.7	0.00	0.00	3.35	3.35	0.00	0.79	0.79	—	3,365	3,365	0.08	0.14	5.38	3,414
Vendor	0.23	0.14	5.49	1.80	0.03	0.06	1.19	1.25	0.06	0.33	0.39	—	4,352	4,352	0.08	0.66	4.62	4,554
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.29	0.27	0.21	2.86	0.00	0.00	0.61	0.61	0.00	0.14	0.14	—	557	557	0.01	0.02	0.89	565
Vendor	0.04	0.03	1.00	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	721	721	0.01	0.11	0.77	754
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.87	1.85	35.3	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,638	6,638	0.13	0.24	22.8	6,736
Vendor	0.42	0.25	9.63	3.24	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	7,951	7,951	0.15	1.20	19.5	8,332
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.94	2.66	2.33	28.0	0.00	0.00	6.16	6.16	0.00	1.44	1.44	—	6,000	6,000	0.16	0.26	0.59	6,081
Vendor	0.41	0.24	10.2	3.35	0.06	0.11	2.18	2.30	0.11	0.60	0.72	—	7,958	7,958	0.15	1.20	0.51	8,320
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.60	1.46	1.14	15.7	0.00	0.00	3.35	3.35	0.00	0.79	0.79	—	3,365	3,365	0.08	0.14	5.38	3,414
Vendor	0.23	0.14	5.49	1.80	0.03	0.06	1.19	1.25	0.06	0.33	0.39	—	4,352	4,352	0.08	0.66	4.62	4,554
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.27	0.21	2.86	0.00	0.00	0.61	0.61	0.00	0.14	0.14	—	557	557	0.01	0.02	0.89	565
Vendor	0.04	0.03	1.00	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	721	721	0.01	0.11	0.77	754
Hauling	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	0.00

3.21. Off-site Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199
Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199

Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.93	13.2	0.02	0.04	—	0.04	0.04	—	0.04	—	1,895	1,895	0.08	0.02	—	1,902
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.93	13.2	0.02	0.04	—	0.04	0.04	—	0.04	—	1,895	1,895	0.08	0.02	—	1,902
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.42	5.91	0.01	0.02	—	0.02	0.02	—	0.02	—	846	846	0.03	0.01	—	849
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	140	140	0.01	< 0.005	—	141
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	162	162	0.01	0.01	0.60	165

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.72	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	146	146	< 0.005	0.01	0.02	148
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.0	67.0	< 0.005	< 0.005	0.12	67.9
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.02	11.2
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.93	13.2	0.02	0.04	—	0.04	0.04	—	0.04	—	1,895	1,895	0.08	0.02	—	1,902
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	0.93	13.2	0.02	0.04	—	0.04	0.04	—	0.04	—	1,895	1,895	0.08	0.02	—	1,902
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.42	5.91	0.01	0.02	—	0.02	0.02	—	0.02	—	846	846	0.03	0.01	—	849
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	140	140	0.01	< 0.005	—	141
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	162	162	0.01	0.01	0.60	165
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.72	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	146	146	< 0.005	0.01	0.02	148
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.0	67.0	< 0.005	< 0.005	0.12	67.9
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.1	11.1	< 0.005	< 0.005	0.02	11.2
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37

Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Off-site Grading	Tractors/Loaders/Backh	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36

Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT

Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT
Off-site Grading	—	—	—	—
Off-site Grading	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	17.5	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	7.50	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT

Off-site Grading	—	—	—	—
Off-site Grading	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	733	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	286	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	17.5	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	—
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	—
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	—
Grading	70,000	0.00	930	0.00	—
Off-site Grading	0.00	0.00	765	0.00	—
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005

2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—

Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8
Toxic Releases	24.6
Traffic	69.8
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00

Sensitive Population	—
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	—
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	—
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	—
Auto Access	81.29090209
Active commuting	36.22481714
Social	—
2-parent households	64.72475298

Voting	66.31592455
Neighborhood	—
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	—
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	—
Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8
Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0

Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2
Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	—
Hardship	46.2
Other Decision Support	—
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.

Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

Tracy Costco - Construction - Paving (Phase 1) Phase Only Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Construction - Paving (Phase 1) Phase Only
Construction Start Date	11/17/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	—	—
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	—	—
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	—	4,510	4,510	0.13	0.46	0.19	4,651
Mit.	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	—	4,510	4,510	0.13	0.46	0.19	4,651
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	358	358	0.01	0.04	0.26	370
Mit.	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	358	358	0.01	0.04	0.26	370
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.04	61.2
Mit.	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.04	61.2
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	—	4,510	4,510	0.13	0.46	0.19	4,651
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	358	358	0.01	0.04	0.26	370
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.04	61.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.62	0.49	6.11	12.1	0.03	0.16	0.89	1.04	0.15	0.24	0.39	—	4,510	4,510	0.13	0.46	0.19	4,651
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.05	0.04	0.48	0.96	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	—	358	358	0.01	0.04	0.26	370
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.01	0.09	0.18	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	59.3	59.3	< 0.005	0.01	0.04	61.2

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772

Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,199	2,199	0.32	0.03	—	2,217
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,536	1,536	0.21	0.02	—	1,547
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Phase 1 - Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.19	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	< 0.005	< 0.005	—	120

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9	19.9	< 0.005	< 0.005	—	20.0
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.11	0.05	3.67	0.84	0.02	0.05	0.76	0.81	0.05	0.21	0.26	—	2,873	2,873	0.06	0.45	0.18	3,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	0.01	< 0.005	0.29	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	228	228	0.01	0.04	0.24	239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72
Vendor	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	0.00

Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.8	37.8	< 0.005	0.01	0.04	39.6

3.2. Phase 1 - Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.19	0.84	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	< 0.005	< 0.005	—	120
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9	19.9	< 0.005	< 0.005	—	20.0

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.11	0.05	3.67	0.84	0.02	0.05	0.76	0.81	0.05	0.21	0.26	—	2,873	2,873	0.06	0.45	0.18	3,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	0.02	10.4
Vendor	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	0.00
Hauling	0.01	< 0.005	0.29	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	228	228	0.01	0.04	0.24	239
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.72
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.8	37.8	< 0.005	0.01	0.04	39.6

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00

Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 1 - Paving	Grading	11/17/2025	12/19/2025	6.00	29.0	Paving (Phase 1)

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 1 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 1 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 1 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 1 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 - Paving	—	—	—	—
Phase 1 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Paving	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Paving	Hauling	41.0	20.0	HHDT
Phase 1 - Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 - Paving	—	—	—	—
Phase 1 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Paving	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Paving	Hauling	41.0	20.0	HHDT
Phase 1 - Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Phase 1 - Paving	0.00	0.00	111	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00

Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	60.9

AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8
Toxic Releases	24.6
Traffic	69.8
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	—
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract

Economic	—
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	—
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	—
Auto Access	81.29090209
Active commuting	36.22481714
Social	—
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	—
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	—
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	—

Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8
Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2

Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	—
Hardship	46.2
Other Decision Support	—
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. Paving - Phase 1 modeled only herein. 6 days per week of construction activity, as provided by Project applicant.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 3,800 trips per day, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	No soil import or export during Construction Phase - Paving - Phase 1.
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant. Hauling trips adjusted to reflect six days per week of construction activity.

Tracy Costco - Construction - Paving (Phase 2) Phase Only Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Construction - Paving (Phase 2) Phase Only
Construction Start Date	7/21/2026
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	—	—
Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	—	—
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	—	11,664	11,664	0.22	1.60	23.8	12,170
Mit.	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	—	11,664	11,664	0.22	1.60	23.8	12,170
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	—	511	511	0.01	0.07	0.45	533
Mit.	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	—	511	511	0.01	0.07	0.45	533
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.6	84.6	< 0.005	0.01	0.07	88.2
Mit.	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.6	84.6	< 0.005	0.01	0.07	88.2
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	—	11,664	11,664	0.22	1.60	23.8	12,170
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	—	511	511	0.01	0.07	0.45	533
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.6	84.6	< 0.005	0.01	0.07	88.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.90	0.61	14.3	14.2	0.08	0.29	2.83	3.12	0.28	0.77	1.06	—	11,664	11,664	0.22	1.60	23.8	12,170
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.03	0.65	0.62	< 0.005	0.01	0.12	0.14	0.01	0.03	0.05	—	511	511	0.01	0.07	0.45	533
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	< 0.005	0.12	0.11	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	84.6	84.6	< 0.005	0.01	0.07	88.2

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891
Mit.	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772

Mit.	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Mit.	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804
Mit.	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	147,303	148,960	173	17.6	366	158,891

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	143,490	145,147	173	17.8	9.49	154,772
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	13,283	13,283	1.92	0.21	—	13,392
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	144,452	146,109	173	17.7	158	155,860
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	2,199	2,199	0.32	0.03	—	2,217
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,916	24,190	28.6	2.93	26.2	25,804

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Area	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	32.7	49.3	123	288	1.29	2.21	62.7	65.0	2.09	16.3	18.4	1,657	143,296	144,953	172	17.5	366	154,845
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Area	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	18.2	35.9	132	177	1.25	2.08	62.7	64.8	1.99	16.3	18.3	1,657	139,484	141,141	172	17.7	9.49	150,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.0	14.5	126	179	1.24	1.88	62.5	64.4	1.79	16.2	18.0	—	130,280	130,280	3.03	15.6	158	135,161
Area	6.66	27.5	0.32	37.4	< 0.005	0.07	—	0.07	0.05	—	0.05	—	154	154	0.01	< 0.005	—	154
Energy	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	9,276	9,276	1.27	0.13	—	9,346
Water	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Waste	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Total	24.9	42.1	128	219	1.26	2.15	62.5	64.7	2.04	16.2	18.3	1,657	140,445	142,103	172	17.6	158	151,814
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Area	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

Energy	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,536	1,536	0.21	0.02	—	1,547
Water	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Waste	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Total	4.55	7.69	23.4	39.9	0.23	0.39	11.4	11.8	0.37	2.96	3.33	274	23,252	23,527	28.5	2.92	26.2	25,134

3. Construction Emissions Details

3.1. Phase 2 - Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.38	2.35	10.6	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.2	66.2	< 0.005	< 0.005	—	66.4

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.0
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.41	0.18	11.9	2.86	0.07	0.19	2.71	2.90	0.19	0.74	0.93	—	10,017	10,017	0.16	1.58	23.4	10,517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.52	5.52	< 0.005	< 0.005	0.01	5.60
Vendor	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	0.00
Hauling	0.02	0.01	0.54	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	439	439	0.01	0.07	0.44	461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.93
Vendor	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	0.00

Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	72.7	72.7	< 0.005	0.01	0.07	76.2

3.2. Phase 2 - Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.38	2.35	10.6	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.2	66.2	< 0.005	< 0.005	—	66.4
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.0

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.41	0.18	11.9	2.86	0.07	0.19	2.71	2.90	0.19	0.74	0.93	—	10,017	10,017	0.16	1.58	23.4	10,517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.52	5.52	< 0.005	< 0.005	0.01	5.60
Vendor	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	0.00
Hauling	0.02	0.01	0.54	0.13	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	439	439	0.01	0.07	0.44	461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.93
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	72.7	72.7	< 0.005	0.01	0.07	76.2

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00

Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Other Asphalt Surfaces	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	0.00
Total	18.9	15.4	119	210	1.27	1.88	62.7	64.6	1.79	16.3	18.1	—	132,972	132,972	2.99	15.5	366	138,033
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Other Asphalt Surfaces	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	0.00
Total	17.9	14.5	129	175	1.23	1.88	62.7	64.6	1.80	16.3	18.1	—	129,472	129,472	3.08	15.7	9.49	134,227
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377
Other Asphalt Surfaces	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	0.00
Total	3.28	2.65	22.9	32.7	0.23	0.34	11.4	11.8	0.33	2.96	3.29	—	21,569	21,569	0.50	2.58	26.2	22,377

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,176	10,176	1.65	0.20	—	10,277
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,685	1,685	0.27	0.03	—	1,701

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,170	6,170	1.00	0.12	—	6,231
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,021	1,021	0.17	0.02	—	1,032

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Other Asphalt Surfaces	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
Total	0.29	0.14	2.60	2.19	0.02	0.20	—	0.20	0.20	—	0.20	—	3,107	3,107	0.27	0.01	—	3,115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516
Other Asphalt Surfaces	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
Total	0.05	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	—	514	514	0.05	< 0.005	—	516

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.5	12.5	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Total	13.5	33.8	0.64	75.9	< 0.005	0.13	—	0.13	0.10	—	0.10	—	312	312	0.01	< 0.005	—	313
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.21	1.12	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6
Total	1.21	5.01	0.06	6.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.5	25.5	< 0.005	< 0.005	—	25.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	773	735	1,509	79.4	1.90	—	4,059
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	128	122	250	13.1	0.31	—	672

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.4	0.00	—	3,093
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 2 - Paving	Grading	7/21/2026	8/7/2026	6.00	16.0	Paving (Phase 2)

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 2 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 2 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 2 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 2 - Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Phase 2 - Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Phase 2 - Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 - Paving	—	—	—	—
Phase 2 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Paving	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Paving	Hauling	146	20.0	HHDT
Phase 2 - Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 - Paving	—	—	—	—
Phase 2 - Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Paving	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Paving	Hauling	146	20.0	HHDT
Phase 2 - Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Phase 2 - Paving	0.00	0.00	42.0	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	3,800	3,800	3,800	1,387,000	81,215	81,215	81,215	29,643,308
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,617,590	872,530	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,437,379	204	0.0330	0.0040	3,018,108
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00

Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat
Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	60.9

AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8
Toxic Releases	24.6
Traffic	69.8
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	—
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract

Economic	—
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	—
Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	—
Auto Access	81.29090209
Active commuting	36.22481714
Social	—
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	—
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	—
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	—

Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8
Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2

Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	—
Hardship	46.2
Other Decision Support	—
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. Phase 2 - Paving modeled only. 6 days per week of construction activity, as provided by Project applicant.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 3,800 trips per day, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	No soil import or export during Paving - Phase 2 construction phase.
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant.

Tracy Costco - Building 1 Only (Operational) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Building 1 Only (Operational)
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	543	1000sqft	12.5	543,330	0.00	0.00	—	—
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.53	4.99	36.6	148	0.26	0.91	19.8	19.9	0.87	10.1	10.3	—	32,211	32,211	1.19	1.31	27.5	32,657
Mit.	5.53	4.99	36.6	148	0.26	0.91	7.81	8.65	0.87	3.97	4.11	—	32,211	32,211	1.19	1.31	27.5	32,657
% Reduced	—	—	—	—	—	—	61%	57%	—	61%	60%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.42	7.86	37.4	145	0.26	0.91	15.0	15.5	0.87	4.69	5.56	—	31,941	31,941	1.13	1.31	0.77	32,359
Mit.	5.42	7.86	37.4	145	0.26	0.91	7.75	8.65	0.87	2.50	3.37	—	31,941	31,941	1.13	1.31	0.77	32,359
% Reduced	—	—	—	—	—	—	48%	44%	—	47%	39%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.76	3.83	23.8	95.5	0.16	0.58	9.56	10.1	0.55	3.60	4.16	—	19,880	19,880	0.71	0.66	7.04	20,100
Mit.	3.76	3.83	23.8	95.5	0.16	0.58	5.45	6.03	0.55	1.83	2.38	—	19,880	19,880	0.71	0.66	7.04	20,100
% Reduced	—	—	—	—	—	—	43%	41%	—	49%	43%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.69	0.70	4.34	17.4	0.03	0.11	1.75	1.85	0.10	0.66	0.76	—	3,291	3,291	0.12	0.11	1.17	3,328
Mit.	0.69	0.70	4.34	17.4	0.03	0.11	1.00	1.10	0.10	0.33	0.43	—	3,291	3,291	0.12	0.11	1.17	3,328
% Reduced	—	—	—	—	—	—	43%	41%	—	49%	43%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.51	2.39	16.9	107	0.21	0.51	19.8	19.9	0.51	10.1	10.3	—	24,917	24,917	0.93	0.87	12.2	25,211
2025	5.53	4.99	36.6	148	0.26	0.91	13.0	13.9	0.87	4.69	5.56	—	32,211	32,211	1.19	1.31	27.5	32,657
2026	2.89	2.47	23.2	52.8	0.11	0.42	4.61	5.03	0.40	1.09	1.50	—	16,200	16,200	0.44	1.30	25.3	16,623

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.89	3.49	24.4	107	0.21	0.56	15.0	15.5	0.54	4.52	5.02	—	24,878	24,878	0.93	0.87	0.44	25,161
2025	5.42	7.86	37.4	145	0.26	0.91	13.0	13.9	0.87	4.69	5.56	—	31,941	31,941	1.13	1.31	0.77	32,359
2026	2.06	1.79	13.7	32.5	0.06	0.22	2.60	2.82	0.21	0.64	0.84	—	8,180	8,180	0.25	0.48	0.34	8,331
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.97	0.91	6.53	40.1	0.08	0.19	6.27	6.46	0.19	2.10	2.29	—	9,246	9,246	0.35	0.31	1.96	9,350
2025	3.76	3.83	23.8	95.5	0.16	0.58	9.56	10.1	0.55	3.60	4.16	—	19,880	19,880	0.71	0.66	7.04	20,100
2026	1.24	1.07	8.93	20.6	0.04	0.15	1.72	1.87	0.14	0.42	0.56	—	5,678	5,678	0.16	0.39	3.90	5,802
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.17	1.19	7.32	0.01	0.04	1.14	1.18	0.03	0.38	0.42	—	1,531	1,531	0.06	0.05	0.32	1,548
2025	0.69	0.70	4.34	17.4	0.03	0.11	1.75	1.85	0.10	0.66	0.76	—	3,291	3,291	0.12	0.11	1.17	3,328
2026	0.23	0.20	1.63	3.76	0.01	0.03	0.31	0.34	0.03	0.08	0.10	—	940	940	0.03	0.06	0.65	961

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.51	2.39	16.9	107	0.21	0.51	7.81	7.95	0.51	3.97	4.11	—	24,917	24,917	0.93	0.87	12.2	25,211
2025	5.53	4.99	36.6	148	0.26	0.91	7.75	8.65	0.87	2.50	3.37	—	32,211	32,211	1.19	1.31	27.5	32,657
2026	2.89	2.47	23.2	52.8	0.11	0.42	4.28	4.70	0.40	1.06	1.46	—	16,200	16,200	0.44	1.30	25.3	16,623
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.89	3.49	24.4	107	0.21	0.56	6.77	7.28	0.54	2.09	2.63	—	24,878	24,878	0.93	0.87	0.44	25,161
2025	5.42	7.86	37.4	145	0.26	0.91	7.75	8.65	0.87	2.50	3.37	—	31,941	31,941	1.13	1.31	0.77	32,359

2026	2.06	1.79	13.7	32.5	0.06	0.22	2.60	2.82	0.21	0.64	0.84	—	8,180	8,180	0.25	0.48	0.34	8,331
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.97	0.91	6.53	40.1	0.08	0.19	2.80	2.99	0.19	0.91	1.10	—	9,246	9,246	0.35	0.31	1.96	9,350
2025	3.76	3.83	23.8	95.5	0.16	0.58	5.45	6.03	0.55	1.83	2.38	—	19,880	19,880	0.71	0.66	7.04	20,100
2026	1.24	1.07	8.93	20.6	0.04	0.15	1.67	1.82	0.14	0.41	0.55	—	5,678	5,678	0.16	0.39	3.90	5,802
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.17	1.19	7.32	0.01	0.04	0.51	0.55	0.03	0.17	0.20	—	1,531	1,531	0.06	0.05	0.32	1,548
2025	0.69	0.70	4.34	17.4	0.03	0.11	1.00	1.10	0.10	0.33	0.43	—	3,291	3,291	0.12	0.11	1.17	3,328
2026	0.23	0.20	1.63	3.76	0.01	0.03	0.30	0.33	0.03	0.07	0.10	—	940	940	0.03	0.06	0.65	961

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	45,858	46,374	53.8	5.48	114	49,466
Mit.	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	43,099	43,615	53.3	5.43	114	46,680
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	1%	1%	—	6%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	44,671	45,187	53.8	5.53	2.96	48,184
Mit.	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	41,912	42,428	53.3	5.48	2.96	45,397
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	1%	1%	—	6%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	44,971	45,487	53.8	5.51	49.2	48,522
Mit.	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	42,212	42,728	53.3	5.46	49.2	45,736
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	1%	1%	—	6%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	7,445	7,531	8.90	0.91	8.14	8,033
Mit.	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	6,989	7,074	8.83	0.90	8.14	7,572
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	1%	1%	—	6%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972
Area	4.20	10.8	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,136	4,136	0.60	0.06	—	4,170
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	45,858	46,374	53.8	5.48	114	49,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787

Area	—	6.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,136	4,136	0.60	0.06	—	4,170
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	44,671	45,187	53.8	5.53	2.96	48,184
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.60	4.53	39.1	55.8	0.39	0.59	19.5	20.0	0.56	5.05	5.61	—	40,558	40,558	0.94	4.85	49.2	42,078
Area	2.07	8.84	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.9	47.9	< 0.005	< 0.005	—	48.1
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	4,136	4,136	0.60	0.06	—	4,170
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	44,971	45,487	53.8	5.51	49.2	48,522
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966
Area	0.38	1.61	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96
Energy	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	685	685	0.10	0.01	—	690
Water	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209
Waste	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159
Total	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	7,445	7,531	8.90	0.91	8.14	8,033

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972

Area	4.20	10.8	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	1,377	1,377	0.15	0.01	—	1,383
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	10.2	15.7	38.2	89.7	0.40	0.69	19.5	20.2	0.65	5.07	5.72	516	43,099	43,615	53.3	5.43	114	46,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787
Area	—	6.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	1,377	1,377	0.15	0.01	—	1,383
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	5.68	11.5	40.9	55.2	0.39	0.65	19.5	20.2	0.62	5.07	5.69	516	41,912	42,428	53.3	5.48	2.96	45,397
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.60	4.53	39.1	55.8	0.39	0.59	19.5	20.0	0.56	5.05	5.61	—	40,558	40,558	0.94	4.85	49.2	42,078
Area	2.07	8.84	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.9	47.9	< 0.005	< 0.005	—	48.1
Energy	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	1,377	1,377	0.15	0.01	—	1,383
Water	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Waste	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Total	7.76	13.4	40.0	68.1	0.39	0.67	19.5	20.1	0.64	5.05	5.69	516	42,212	42,728	53.3	5.46	49.2	45,736
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966
Area	0.38	1.61	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96
Energy	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	228	228	0.03	< 0.005	—	229
Water	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209
Waste	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159
Total	1.42	2.45	7.30	12.4	0.07	0.12	3.55	3.67	0.12	0.92	1.04	85.4	6,989	7,074	8.83	0.90	8.14	7,572

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.92	0.92	—	0.47	0.47	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687

Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	1.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	308	308	0.01	< 0.005	—	309
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.0	51.0	< 0.005	< 0.005	—	51.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	1.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	308	308	0.01	< 0.005	—	309
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.0	51.0	< 0.005	< 0.005	—	51.2
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.46	3.84	15.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,679	2,679	0.11	0.02	—	2,688
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	2.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	404	404	0.02	< 0.005	—	405
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.8	66.8	< 0.005	< 0.005	—	67.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.46	3.84	15.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,679	2,679	0.11	0.02	—	2,688

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	2.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	404	404	0.02	< 0.005	—	405
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.8	66.8	< 0.005	< 0.005	—	67.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.71	3.92	35.4	0.06	0.15	—	0.15	0.15	—	0.15	—	6,896	6,896	0.28	0.06	—	6,920
Dust From Material Movement	—	—	—	—	—	—	4.62	4.62	—	1.41	1.41	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.72	6.46	0.01	0.03	—	0.03	0.03	—	0.03	—	1,142	1,142	0.05	0.01	—	1,146
Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	425	425	0.02	0.02	1.70	432
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.71	3.92	35.4	0.06	0.15	—	0.15	0.15	—	0.15	—	6,896	6,896	0.28	0.06	—	6,920
Dust From Material Movement	—	—	—	—	—	—	1.80	1.80	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.72	6.46	0.01	0.03	—	0.03	0.03	—	0.03	—	1,142	1,142	0.05	0.01	—	1,146
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	425	425	0.02	0.02	1.70	432

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	1.18	8.15	51.6	0.09	0.26	—	0.26	0.25	—	0.25	—	9,523	9,523	0.39	0.08	—	9,556

Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	179	179	0.01	< 0.005	—	180
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	1.18	8.15	51.6	0.09	0.26	—	0.26	0.25	—	0.25	—	9,523	9,523	0.39	0.08	—	9,556
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	179	179	0.01	< 0.005	—	180

Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00

Hauling	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	0.00

3.11. Off-site Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	0.96	6.65	42.3	0.07	0.20	—	0.20	0.20	—	0.20	—	7,811	7,811	0.32	0.06	—	7,837

Dust From Material Movement	—	—	—	—	—	—	6.67	6.67	—	2.90	2.90	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.21	7.71	0.01	0.04	—	0.04	0.04	—	0.04	—	1,293	1,293	0.05	0.01	—	1,298
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.53	0.53	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	246	246	0.01	0.01	0.43	249
Vendor	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	0.00
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.00	0.96	6.65	42.3	0.07	0.20	—	0.20	0.20	—	0.20	—	7,811	7,811	0.32	0.06	—	7,837
Dust From Material Movement	—	—	—	—	—	—	2.60	2.60	—	1.13	1.13	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.21	7.71	0.01	0.04	—	0.04	0.04	—	0.04	—	1,293	1,293	0.05	0.01	—	1,298
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	246	246	0.01	0.01	0.43	249

Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.01	0.92	0.93	10.3	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,949	1,949	0.12	0.08	0.22	1,976
Vendor	0.14	0.09	3.49	1.15	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,566	2,566	0.05	0.39	0.18	2,684
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.2	42.2	< 0.005	< 0.005	0.08	42.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.2	54.2	< 0.005	0.01	0.06	56.8
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.10
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.98	8.98	< 0.005	< 0.005	0.01	9.40
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.01	0.92	0.93	10.3	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,949	1,949	0.12	0.08	0.22	1,976
Vendor	0.14	0.09	3.49	1.15	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,566	2,566	0.05	0.39	0.18	2,684
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.2	42.2	< 0.005	< 0.005	0.08	42.9
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	54.2	54.2	< 0.005	0.01	0.06	56.8
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.99	6.99	< 0.005	< 0.005	0.01	7.10
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.98	8.98	< 0.005	< 0.005	0.01	9.40
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.03	0.95	0.64	11.9	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	2,111	2,111	0.10	0.08	7.85	2,145
Vendor	0.13	0.08	3.13	1.07	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,521	2,521	0.05	0.37	6.92	2,641
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.75	0.61	8.24	0.00	0.00	1.63	1.63	0.00	0.38	0.38	—	1,667	1,667	0.04	0.07	2.89	1,691
Vendor	0.11	0.07	2.78	0.92	0.02	0.03	0.58	0.61	0.03	0.16	0.19	—	2,150	2,150	0.04	0.32	2.55	2,248
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.11	1.50	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	276	276	0.01	0.01	0.48	280
Vendor	0.02	0.01	0.51	0.17	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	356	356	0.01	0.05	0.42	372
Hauling	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	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.03	0.95	0.64	11.9	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	2,111	2,111	0.10	0.08	7.85	2,145
Vendor	0.13	0.08	3.13	1.07	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,521	2,521	0.05	0.37	6.92	2,641
Hauling	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.82	0.75	0.61	8.24	0.00	0.00	1.63	1.63	0.00	0.38	0.38	—	1,667	1,667	0.04	0.07	2.89	1,691
Vendor	0.11	0.07	2.78	0.92	0.02	0.03	0.58	0.61	0.03	0.16	0.19	—	2,150	2,150	0.04	0.32	2.55	2,248
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.11	1.50	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	276	276	0.01	0.01	0.48	280
Vendor	0.02	0.01	0.51	0.17	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03	—	356	356	0.01	0.05	0.42	372
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.02	14.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.6
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.94	2.94	< 0.005	< 0.005	< 0.005	3.08
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.96	0.87	0.86	9.45	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,908	1,908	0.06	0.08	0.20	1,933
Vendor	0.13	0.07	3.34	1.09	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,523	2,523	0.05	0.37	0.18	2,636
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.02	14.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	0.02	18.6
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.31
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.94	2.94	< 0.005	< 0.005	< 0.005	3.08
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.89	0.57	11.0	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	2,067	2,067	0.04	0.07	7.09	2,097
Vendor	0.13	0.08	3.00	1.01	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,476	2,476	0.05	0.37	6.08	2,594
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.83	0.72	8.70	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,868	1,868	0.05	0.08	0.18	1,893
Vendor	0.13	0.07	3.19	1.04	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,478	2,478	0.05	0.37	0.16	2,590
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	0.36	4.87	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	1,048	1,048	0.02	0.04	1.68	1,063
Vendor	0.07	0.04	1.71	0.56	0.01	0.02	0.37	0.39	0.02	0.10	0.12	—	1,355	1,355	0.03	0.20	1.44	1,418
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.08	0.06	0.89	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.28	176
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	224	224	< 0.005	0.03	0.24	235
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.89	0.57	11.0	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	2,067	2,067	0.04	0.07	7.09	2,097
Vendor	0.13	0.08	3.00	1.01	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,476	2,476	0.05	0.37	6.08	2,594
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.83	0.72	8.70	0.00	0.00	1.92	1.92	0.00	0.45	0.45	—	1,868	1,868	0.05	0.08	0.18	1,893
Vendor	0.13	0.07	3.19	1.04	0.02	0.04	0.68	0.72	0.04	0.19	0.22	—	2,478	2,478	0.05	0.37	0.16	2,590
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.45	0.36	4.87	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	1,048	1,048	0.02	0.04	1.68	1,063
Vendor	0.07	0.04	1.71	0.56	0.01	0.02	0.37	0.39	0.02	0.10	0.12	—	1,355	1,355	0.03	0.20	1.44	1,418
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.89	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.28	176
Vendor	0.01	0.01	0.31	0.10	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	224	224	< 0.005	0.03	0.24	235
Hauling	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	0.00

3.21. Off-site Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199
Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199

Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	1.81	16.3	0.03	0.08	—	0.08	0.07	—	0.07	—	2,747	2,747	0.11	0.02	—	2,757
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.33	2.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	455	455	0.02	< 0.005	—	456
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	1.81	16.3	0.03	0.08	—	0.08	0.07	—	0.07	—	2,747	2,747	0.11	0.02	—	2,757
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.33	2.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	455	455	0.02	< 0.005	—	456
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972
Other Asphalt Surfaces	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	0.00
Total	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787
Other Asphalt Surfaces	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	0.00
Total	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966
Other Asphalt Surfaces	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	0.00
Total	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972
Other Asphalt Surfaces	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	0.00
Total	5.88	4.80	37.1	65.4	0.39	0.59	19.5	20.1	0.56	5.07	5.63	—	41,396	41,396	0.93	4.83	114	42,972

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787
Other Asphalt Surfaces	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	0.00
Total	5.59	4.51	40.1	54.5	0.38	0.59	19.5	20.1	0.56	5.07	5.63	—	40,307	40,307	0.96	4.88	2.96	41,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966
Other Asphalt Surfaces	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	0.00
Total	1.02	0.83	7.13	10.2	0.07	0.11	3.55	3.66	0.10	0.92	1.02	—	6,715	6,715	0.16	0.80	8.14	6,966

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	—	3,168	3,168	0.51	0.06	—	3,200
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,168	3,168	0.51	0.06	—	3,200
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,168	3,168	0.51	0.06	—	3,200
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,168	3,168	0.51	0.06	—	3,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	525	525	0.08	0.01	—	530
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	525	525	0.08	0.01	—	530

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	409	409	0.07	0.01	—	413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	409	409	0.07	0.01	—	413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	409	409	0.07	0.01	—	413
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	409	409	0.07	0.01	—	413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	67.8	67.8	0.01	< 0.005	—	68.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	67.8	67.8	0.01	< 0.005	—	68.4

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	161

Other Asphalt Surfaces	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
Total	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	161

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Other Asphalt Surfaces	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
Total	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	967	967	0.09	< 0.005	—	970
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	161
Other Asphalt Surfaces	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
Total	0.02	0.01	0.15	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	160	160	0.01	< 0.005	—	161

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.20	3.88	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5
Total	4.20	10.8	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.38	0.35	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96
Total	0.38	1.61	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.20	3.88	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5
Total	4.20	10.8	0.20	23.6	< 0.005	0.04	—	0.04	0.03	—	0.03	—	97.2	97.2	< 0.005	< 0.005	—	97.5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.38	0.35	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96
Total	0.38	1.61	0.02	2.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.93	7.93	< 0.005	< 0.005	—	7.96

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	241	229	470	24.7	0.59	—	1,264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	39.9	37.9	77.8	4.09	0.10	—	209

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	275	0.00	275	27.5	0.00	—	963
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	45.6	0.00	45.6	4.55	0.00	—	159

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38

Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Phase 2 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74

Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT

Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT
Off-site Grading	—	—	—	—
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2

Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT
Off-site Grading	—	—	—	—
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT

Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	228	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	89.1	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	—
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	—
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	—
Grading	70,000	0.00	930	0.00	—
Off-site Grading	0.00	0.00	765	0.00	—
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	1,183	1,183	1,183	431,795	25,283	25,283	25,283	9,228,430
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	814,995	271,665	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	5,669,475	204	0.0330	0.0040	3,018,108
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	732,554	204	0.0330	0.0040	3,018,108
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	125,645,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	511	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat

Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8

Toxic Releases	24.6
Traffic	69.8
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	—
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	—

Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	—
Auto Access	81.29090209
Active commuting	36.22481714
Social	—
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	—
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	—
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	—
Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8

Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2
Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	—

Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	—
Hardship	46.2
Other Decision Support	—
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Only Building 1 modeled.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

Tracy Costco - Building 2 Only (Operational) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Tracy Costco - Building 2 Only (Operational)
Construction Start Date	7/8/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	6.60
Location	37.72034841082716, -121.51274124970524
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2107
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	1,202	1000sqft	27.6	1,201,730	0.00	0.00	—	—
Other Asphalt Surfaces	62.9	Acre	62.9	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Tra c Calming Measures
Energy	E-2	Require Energy Efficient Appliances
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.94	6.24	41.1	164	0.28	0.95	19.8	19.9	0.92	10.1	10.3	—	37,824	37,824	1.37	1.85	45.4	38,457
Mit.	6.94	6.24	41.1	164	0.28	0.95	10.9	11.8	0.92	3.97	4.18	—	37,824	37,824	1.37	1.85	45.4	38,457
% Reduced	—	—	—	—	—	—	45%	41%	—	61%	59%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.17	9.01	42.5	158	0.28	0.95	16.2	17.1	0.92	5.46	6.38	—	37,310	37,310	1.26	2.07	1.70	37,895
Mit.	7.17	9.01	42.5	158	0.28	0.95	11.5	12.1	0.92	3.27	4.18	—	37,310	37,310	1.26	2.07	1.70	37,895
% Reduced	—	—	—	—	—	—	29%	29%	—	40%	34%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.90	4.83	27.9	107	0.18	0.61	12.3	12.9	0.59	4.26	4.85	—	24,543	24,543	0.81	1.13	13.7	24,913
Mit.	4.90	4.83	27.9	107	0.18	0.61	8.15	8.76	0.59	2.49	3.08	—	24,543	24,543	0.81	1.13	13.7	24,913
% Reduced	—	—	—	—	—	—	34%	32%	—	42%	37%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.89	0.88	5.09	19.5	0.03	0.11	2.24	2.35	0.11	0.78	0.89	—	4,063	4,063	0.13	0.19	2.26	4,125
Mit.	0.89	0.88	5.09	19.5	0.03	0.11	1.49	1.60	0.11	0.45	0.56	—	4,063	4,063	0.13	0.19	2.26	4,125
% Reduced	—	—	—	—	—	—	34%	32%	—	42%	37%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.51	2.39	16.9	107	0.21	0.51	19.8	19.9	0.51	10.1	10.3	—	24,917	24,917	0.93	0.87	12.2	25,211
2025	6.94	6.24	41.1	164	0.28	0.95	16.2	17.1	0.92	5.46	6.38	—	37,824	37,824	1.37	1.85	45.4	38,457
2026	4.22	3.65	27.5	67.3	0.14	0.46	7.75	8.22	0.45	1.87	2.31	—	21,704	21,704	0.54	1.84	41.3	22,308

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.29	4.73	29.7	107	0.21	0.61	15.0	15.5	0.58	5.02	5.60	—	24,878	24,878	0.95	1.17	0.93	25,161
2025	7.17	9.01	42.5	158	0.28	0.95	16.2	17.1	0.92	5.46	6.38	—	37,310	37,310	1.26	2.07	1.70	37,895
2026	3.32	2.88	18.4	44.3	0.08	0.26	5.74	6.01	0.25	1.41	1.66	—	13,447	13,447	0.37	1.03	0.76	13,764
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.00	0.94	6.64	40.4	0.08	0.19	6.33	6.53	0.19	2.12	2.31	—	9,363	9,363	0.35	0.33	2.13	9,471
2025	4.90	4.83	27.9	107	0.18	0.61	12.3	12.9	0.59	4.26	4.85	—	24,543	24,543	0.81	1.13	13.7	24,913
2026	1.93	1.67	11.4	27.2	0.05	0.17	3.43	3.61	0.17	0.84	1.00	—	8,590	8,590	0.23	0.69	7.68	8,809
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.17	1.21	7.37	0.01	0.04	1.16	1.19	0.04	0.39	0.42	—	1,550	1,550	0.06	0.05	0.35	1,568
2025	0.89	0.88	5.09	19.5	0.03	0.11	2.24	2.35	0.11	0.78	0.89	—	4,063	4,063	0.13	0.19	2.26	4,125
2026	0.35	0.31	2.09	4.96	0.01	0.03	0.63	0.66	0.03	0.15	0.18	—	1,422	1,422	0.04	0.11	1.27	1,458

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.51	2.39	16.9	107	0.21	0.51	7.81	7.95	0.51	3.97	4.11	—	24,917	24,917	0.93	0.87	12.2	25,211
2025	6.94	6.24	41.1	164	0.28	0.95	10.9	11.8	0.92	3.27	4.18	—	37,824	37,824	1.37	1.85	45.4	38,457
2026	4.22	3.65	27.5	67.3	0.14	0.46	7.43	7.89	0.45	1.83	2.28	—	21,704	21,704	0.54	1.84	41.3	22,308
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	5.29	4.73	29.7	107	0.21	0.61	9.21	9.82	0.58	2.86	3.44	—	24,878	24,878	0.95	1.17	0.93	25,161
2025	7.17	9.01	42.5	158	0.28	0.95	11.5	12.1	0.92	3.27	4.18	—	37,310	37,310	1.26	2.07	1.70	37,895

2026	3.32	2.88	18.4	44.3	0.08	0.26	5.74	6.01	0.25	1.41	1.66	—	13,447	13,447	0.37	1.03	0.76	13,764
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.00	0.94	6.64	40.4	0.08	0.19	2.87	3.06	0.19	0.93	1.12	—	9,363	9,363	0.35	0.33	2.13	9,471
2025	4.90	4.83	27.9	107	0.18	0.61	8.15	8.76	0.59	2.49	3.08	—	24,543	24,543	0.81	1.13	13.7	24,913
2026	1.93	1.67	11.4	27.2	0.05	0.17	3.38	3.56	0.17	0.83	1.00	—	8,590	8,590	0.23	0.69	7.68	8,809
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.17	1.21	7.37	0.01	0.04	0.52	0.56	0.04	0.17	0.20	—	1,550	1,550	0.06	0.05	0.35	1,568
2025	0.89	0.88	5.09	19.5	0.03	0.11	1.49	1.60	0.11	0.45	0.56	—	4,063	4,063	0.13	0.19	2.26	4,125
2026	0.35	0.31	2.09	4.96	0.01	0.03	0.62	0.65	0.03	0.15	0.18	—	1,422	1,422	0.04	0.11	1.27	1,458

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	101,444	102,586	119	12.1	252	109,425
Mit.	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	98,685	99,827	118	12.1	252	106,639
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	98,819	99,960	119	12.2	6.54	106,588
Mit.	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	96,060	97,201	119	12.2	6.54	103,802
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	99,481	100,622	119	12.2	109	107,337
Mit.	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	96,722	97,863	119	12.1	109	104,551
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,470	16,659	19.7	2.02	18.0	17,771
Mit.	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,013	16,202	19.6	2.01	18.0	17,310
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061
Area	9.30	23.4	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	9,147	9,147	1.32	0.14	—	9,222
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	101,444	102,586	119	12.1	252	109,425
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440

Area	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	9,147	9,147	1.32	0.14	—	9,222
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	98,819	99,960	119	12.2	6.54	106,588
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.4	10.0	86.5	123	0.85	1.30	43.0	44.3	1.24	11.2	12.4	—	89,722	89,722	2.09	10.7	109	93,083
Area	4.58	19.0	0.22	25.8	< 0.005	0.05	—	0.05	0.03	—	0.03	—	106	106	< 0.005	< 0.005	—	106
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	9,147	9,147	1.32	0.14	—	9,222
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	99,481	100,622	119	12.2	109	107,337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411
Area	0.84	3.47	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Energy	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,514	1,514	0.22	0.02	—	1,527
Water	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463
Waste	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353
Total	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,470	16,659	19.7	2.02	18.0	17,771

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061

Area	9.30	23.4	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	6,388	6,388	0.88	0.09	—	6,436
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	22.5	34.1	84.4	199	0.89	1.53	43.2	44.7	1.44	11.2	12.7	1,141	98,685	99,827	118	12.1	252	106,639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440
Area	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	6,388	6,388	0.88	0.09	—	6,436
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	12.6	24.9	90.6	122	0.86	1.43	43.2	44.6	1.37	11.2	12.6	1,141	96,060	97,201	119	12.2	6.54	103,802
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.4	10.0	86.5	123	0.85	1.30	43.0	44.3	1.24	11.2	12.4	—	89,722	89,722	2.09	10.7	109	93,083
Area	4.58	19.0	0.22	25.8	< 0.005	0.05	—	0.05	0.03	—	0.03	—	106	106	< 0.005	< 0.005	—	106
Energy	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	6,388	6,388	0.88	0.09	—	6,436
Water	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Waste	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Total	17.2	29.2	88.5	151	0.87	1.48	43.0	44.5	1.41	11.2	12.6	1,141	96,722	97,863	119	12.1	109	104,551
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411
Area	0.84	3.47	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Energy	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,058	1,058	0.15	0.01	—	1,066
Water	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463
Waste	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353
Total	3.13	5.32	16.1	27.5	0.16	0.27	7.86	8.13	0.26	2.04	2.30	189	16,013	16,202	19.6	2.01	18.0	17,310

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.92	0.92	—	0.47	0.47	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1

Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.70	3.61	37.4	0.07	0.14	—	0.14	0.14	—	0.14	—	7,375	7,375	0.30	0.06	—	7,400
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	343	343	0.01	< 0.005	—	345
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.18	0.18	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.9	56.9	< 0.005	< 0.005	—	57.1
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.13	7.13	< 0.005	< 0.005	0.01	7.24
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	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	0.00
Hauling	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	0.00

3.3. Phase 1 - Site Finishing (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687

Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	1.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	308	308	0.01	< 0.005	—	309
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.0	51.0	< 0.005	< 0.005	—	51.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.4. Phase 1 - Site Finishing (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.88	15.9	0.02	0.11	—	0.11	0.11	—	0.11	—	2,678	2,678	0.11	0.02	—	2,687
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	1.83	< 0.005	0.01	—	0.01	0.01	—	0.01	—	308	308	0.01	< 0.005	—	309
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.0	51.0	< 0.005	< 0.005	—	51.2
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.78	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	0.01	0.52	141
Vendor	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	0.00
Hauling	0.14	0.08	4.02	0.96	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,361	3,361	0.07	0.52	8.14	3,526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.13	0.05	4.30	0.98	0.02	0.06	0.89	0.95	0.06	0.24	0.31	—	3,363	3,363	0.07	0.52	0.21	3,521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	< 0.005	< 0.005	0.03	15.0
Vendor	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	0.00
Hauling	0.02	0.01	0.48	0.11	< 0.005	0.01	0.10	0.11	0.01	0.03	0.04	—	387	387	0.01	0.06	0.40	405
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.48
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.1	64.1	< 0.005	0.01	0.07	67.1

3.5. Phase 2 - Site Finishing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.46	3.84	15.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,679	2,679	0.11	0.02	—	2,688
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	2.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	404	404	0.02	< 0.005	—	405
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.8	66.8	< 0.005	< 0.005	—	67.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.6. Phase 2 - Site Finishing (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.46	3.84	15.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,679	2,679	0.11	0.02	—	2,688

Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	2.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	404	404	0.02	< 0.005	—	405
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.8	66.8	< 0.005	< 0.005	—	67.1
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.47	138
Vendor	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	0.00
Hauling	0.21	0.09	5.95	1.43	0.03	0.10	1.35	1.45	0.10	0.37	0.47	—	5,009	5,009	0.08	0.79	11.7	5,258

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	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	0.00
Hauling	0.03	0.01	0.93	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	755	755	0.01	0.12	0.76	792
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.14	3.14	< 0.005	< 0.005	0.01	3.19
Vendor	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	0.00
Hauling	0.01	< 0.005	0.17	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	125	125	< 0.005	0.02	0.13	131

3.7. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	13.5	13.5	—	4.12	4.12	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.71	3.92	35.4	0.06	0.15	—	0.15	0.15	—	0.15	—	6,896	6,896	0.28	0.06	—	6,920
Dust From Material Movement	—	—	—	—	—	—	4.62	4.62	—	1.41	1.41	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.72	6.46	0.01	0.03	—	0.03	0.03	—	0.03	—	1,142	1,142	0.05	0.01	—	1,146
Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.26	0.26	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	425	425	0.02	0.02	1.70	432
Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.8. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.12	2.08	11.4	103	0.19	0.43	—	0.43	0.43	—	0.43	—	20,137	20,137	0.82	0.16	—	20,206
Dust From Material Movement	—	—	—	—	—	—	5.26	5.26	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.71	3.92	35.4	0.06	0.15	—	0.15	0.15	—	0.15	—	6,896	6,896	0.28	0.06	—	6,920
Dust From Material Movement	—	—	—	—	—	—	1.80	1.80	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.72	6.46	0.01	0.03	—	0.03	0.03	—	0.03	—	1,142	1,142	0.05	0.01	—	1,146
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.14	2.56	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	425	425	0.02	0.02	1.70	432

Vendor	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	0.00
Hauling	0.17	0.10	5.28	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,355	4,355	0.09	0.69	10.5	4,573
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.18	2.02	0.00	0.00	0.38	0.38	0.00	0.09	0.09	—	384	384	0.02	0.02	0.04	390
Vendor	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	0.00
Hauling	0.17	0.10	5.63	1.25	0.03	0.08	1.13	1.21	0.08	0.31	0.39	—	4,357	4,357	0.09	0.69	0.27	4,565
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.71	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	0.01	0.01	0.25	137
Vendor	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	0.00
Hauling	0.06	0.03	1.89	0.43	0.01	0.03	0.39	0.41	0.03	0.11	0.13	—	1,492	1,492	0.03	0.24	1.54	1,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.04	22.7
Vendor	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	0.00
Hauling	0.01	0.01	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	247	247	0.01	0.04	0.26	259

3.9. Off-site Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	1.18	8.15	51.6	0.09	0.26	—	0.26	0.25	—	0.25	—	9,523	9,523	0.39	0.08	—	9,556

Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	179	179	0.01	< 0.005	—	180
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00
Hauling	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	0.00

3.10. Off-site Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	1.18	8.15	51.6	0.09	0.26	—	0.26	0.25	—	0.25	—	9,523	9,523	0.39	0.08	—	9,556
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	179	179	0.01	< 0.005	—	180

Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.6	29.6	< 0.005	< 0.005	—	29.7
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.14	1.57	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	299	299	0.02	0.01	0.03	303
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.76	5.76	< 0.005	< 0.005	0.01	5.84
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.95	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	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	0.00

Hauling	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	0.00

3.11. Off-site Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	8.14	8.14	—	3.54	3.54	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	0.96	6.65	42.3	0.07	0.20	—	0.20	0.20	—	0.20	—	7,811	7,811	0.32	0.06	—	7,837

Dust From Material Movement	—	—	—	—	—	—	6.67	6.67	—	2.90	2.90	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.21	7.71	0.01	0.04	—	0.04	0.04	—	0.04	—	1,293	1,293	0.05	0.01	—	1,298
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.53	0.53	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	246	246	0.01	0.01	0.43	249
Vendor	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	0.00
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.12. Off-site Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.17	8.11	51.6	0.09	0.25	—	0.25	0.24	—	0.24	—	9,530	9,530	0.39	0.08	—	9,563
Dust From Material Movement	—	—	—	—	—	—	3.18	3.18	—	1.38	1.38	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.00	0.96	6.65	42.3	0.07	0.20	—	0.20	0.20	—	0.20	—	7,811	7,811	0.32	0.06	—	7,837
Dust From Material Movement	—	—	—	—	—	—	2.60	2.60	—	1.13	1.13	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.21	7.71	0.01	0.04	—	0.04	0.04	—	0.04	—	1,293	1,293	0.05	0.01	—	1,298
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.10	1.83	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	324	324	0.02	0.01	1.20	329
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.13	1.45	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	293	293	0.01	0.01	0.03	296
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.22	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	246	246	0.01	0.01	0.43	249

Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.7	40.7	< 0.005	< 0.005	0.07	41.3
Vendor	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	0.00
Hauling	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	0.00

3.13. Phase 1 - Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.24	2.04	2.07	22.7	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,310	4,310	0.27	0.18	0.50	4,370
Vendor	0.32	0.21	7.72	2.54	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,676	5,676	0.11	0.86	0.40	5,936
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	93.4	93.4	0.01	< 0.005	0.17	94.8
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.14	126
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.03	15.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.9	19.9	< 0.005	< 0.005	0.02	20.8
Hauling	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	0.00

3.14. Phase 1 - Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.15	11.6	26.0	0.04	0.27	—	0.27	0.25	—	0.25	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.25	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	91.9	91.9	< 0.005	< 0.005	—	92.2
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.2	15.2	< 0.005	< 0.005	—	15.3
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.24	2.04	2.07	22.7	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,310	4,310	0.27	0.18	0.50	4,370
Vendor	0.32	0.21	7.72	2.54	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,676	5,676	0.11	0.86	0.40	5,936
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	93.4	93.4	0.01	< 0.005	0.17	94.8
Vendor	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.14	126
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.03	15.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.9	19.9	< 0.005	< 0.005	0.02	20.8
Hauling	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	0.00

3.15. Phase 1 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.29	2.11	1.43	26.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,669	4,669	0.22	0.18	17.4	4,745
Vendor	0.30	0.18	6.93	2.36	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,576	5,576	0.11	0.83	15.3	5,840
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.82	1.66	1.36	18.2	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,687	3,687	0.09	0.15	6.39	3,740
Vendor	0.25	0.15	6.15	2.05	0.03	0.07	1.28	1.34	0.07	0.35	0.42	—	4,755	4,755	0.09	0.70	5.64	4,973
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.25	3.33	0.00	0.00	0.66	0.66	0.00	0.15	0.15	—	610	610	0.02	0.02	1.06	619
Vendor	0.04	0.03	1.12	0.37	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	787	787	0.01	0.12	0.93	823
Hauling	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	0.00

3.16. Phase 1 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	1.13	11.6	26.0	0.04	0.26	—	0.26	0.24	—	0.24	—	4,347	4,347	0.18	0.04	—	4,362
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.96	9.85	22.1	0.04	0.22	—	0.22	0.21	—	0.21	—	3,706	3,706	0.15	0.03	—	3,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.18	1.80	4.04	0.01	0.04	—	0.04	0.04	—	0.04	—	614	614	0.02	< 0.005	—	616
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.29	2.11	1.43	26.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,669	4,669	0.22	0.18	17.4	4,745
Vendor	0.30	0.18	6.93	2.36	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,576	5,576	0.11	0.83	15.3	5,840
Hauling	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.82	1.66	1.36	18.2	0.00	0.00	3.60	3.60	0.00	0.84	0.84	—	3,687	3,687	0.09	0.15	6.39	3,740
Vendor	0.25	0.15	6.15	2.05	0.03	0.07	1.28	1.34	0.07	0.35	0.42	—	4,755	4,755	0.09	0.70	5.64	4,973
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.30	0.25	3.33	0.00	0.00	0.66	0.66	0.00	0.15	0.15	—	610	610	0.02	0.02	1.06	619
Vendor	0.04	0.03	1.12	0.37	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	787	787	0.01	0.12	0.93	823
Hauling	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	0.00

3.17. Phase 2 - Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.5	30.5	< 0.005	< 0.005	0.05	30.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.04	5.04	< 0.005	< 0.005	0.01	5.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.80
Hauling	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	0.00

3.18. Phase 2 - Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.90	9.82	22.8	0.04	0.19	—	0.19	0.18	—	0.18	—	3,835	3,835	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.0	27.0	< 0.005	< 0.005	—	27.1
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.47	4.47	< 0.005	< 0.005	—	4.49
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.13	1.93	1.90	20.9	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,219	4,219	0.12	0.18	0.45	4,275
Vendor	0.28	0.17	7.39	2.41	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,581	5,581	0.11	0.83	0.40	5,830
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.5	30.5	< 0.005	< 0.005	0.05	30.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.3	39.3	< 0.005	0.01	0.05	41.1
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.04	5.04	< 0.005	< 0.005	0.01	5.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.80
Hauling	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	0.00

3.19. Phase 2 - Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848

Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	1.98	1.27	24.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,571	4,571	0.09	0.17	15.7	4,638
Vendor	0.29	0.17	6.63	2.23	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,476	5,476	0.11	0.83	13.4	5,738
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.02	1.83	1.60	19.2	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,132	4,132	0.11	0.18	0.41	4,188
Vendor	0.28	0.17	7.06	2.31	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,480	5,480	0.11	0.83	0.35	5,729
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.10	1.00	0.79	10.8	0.00	0.00	2.31	2.31	0.00	0.54	0.54	—	2,317	2,317	0.05	0.10	3.71	2,351
Vendor	0.16	0.10	3.78	1.24	0.02	0.04	0.82	0.86	0.04	0.23	0.27	—	2,997	2,997	0.06	0.45	3.18	3,136
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.20	0.18	0.14	1.97	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	384	384	0.01	0.02	0.61	389
Vendor	0.03	0.02	0.69	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	496	496	0.01	0.07	0.53	519
Hauling	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	0.00

3.20. Phase 2 - Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.89	9.77	22.7	0.04	0.18	—	0.18	0.17	—	0.17	—	3,834	3,834	0.16	0.03	—	3,848
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.48	5.34	12.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,098	2,098	0.09	0.02	—	2,105
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.98	2.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	347	347	0.01	< 0.005	—	349

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	1.98	1.27	24.3	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,571	4,571	0.09	0.17	15.7	4,638
Vendor	0.29	0.17	6.63	2.23	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,476	5,476	0.11	0.83	13.4	5,738
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.02	1.83	1.60	19.2	0.00	0.00	4.24	4.24	0.00	0.99	0.99	—	4,132	4,132	0.11	0.18	0.41	4,188
Vendor	0.28	0.17	7.06	2.31	0.04	0.08	1.50	1.58	0.08	0.42	0.49	—	5,480	5,480	0.11	0.83	0.35	5,729
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.10	1.00	0.79	10.8	0.00	0.00	2.31	2.31	0.00	0.54	0.54	—	2,317	2,317	0.05	0.10	3.71	2,351
Vendor	0.16	0.10	3.78	1.24	0.02	0.04	0.82	0.86	0.04	0.23	0.27	—	2,997	2,997	0.06	0.45	3.18	3,136
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.14	1.97	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	384	384	0.01	0.02	0.61	389
Vendor	0.03	0.02	0.69	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	496	496	0.01	0.07	0.53	519
Hauling	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	0.00

3.21. Off-site Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199
Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00

Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.22. Off-site Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.38	10.6	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	3.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.31	1.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	199	199	0.01	< 0.005	—	199

Paving	—	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.62	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	0.01	0.01	127
Vendor	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	0.00
Hauling	0.03	0.01	1.07	0.25	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	841	841	0.02	0.13	0.05	880
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.03	17.1
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.12	116
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.84
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.3	18.3	< 0.005	< 0.005	0.02	19.2

3.23. Off-site Improvements (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	1.81	16.3	0.03	0.08	—	0.08	0.07	—	0.07	—	2,747	2,747	0.11	0.02	—	2,757
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.33	2.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	455	455	0.02	< 0.005	—	456
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282

Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

3.24. Off-site Improvements (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.78	0.75	4.06	36.5	0.06	0.17	—	0.17	0.16	—	0.16	—	6,152	6,152	0.25	0.05	—	6,173
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.33	1.81	16.3	0.03	0.08	—	0.08	0.07	—	0.07	—	2,747	2,747	0.11	0.02	—	2,757
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.33	2.97	< 0.005	0.01	—	0.01	0.01	—	0.01	—	455	455	0.02	< 0.005	—	456
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.08	1.56	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	278	278	0.01	0.01	1.03	282
Vendor	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	0.00
Hauling	0.03	0.02	0.92	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	770	770	0.02	0.12	1.87	808
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.11	1.24	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	251	251	0.01	0.01	0.03	254
Vendor	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	0.00
Hauling	0.03	0.01	0.99	0.22	0.01	0.01	0.20	0.22	0.01	0.06	0.07	—	771	771	0.02	0.12	0.05	807
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.05	0.04	0.57	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.20	116
Vendor	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	0.00
Hauling	0.01	0.01	0.43	0.10	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	344	344	0.01	0.05	0.36	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.0	19.0	< 0.005	< 0.005	0.03	19.3
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	57.0	57.0	< 0.005	0.01	0.06	59.7

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061
Other Asphalt Surfaces	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	0.00
Total	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440
Other Asphalt Surfaces	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	0.00
Total	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411
Other Asphalt Surfaces	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	0.00
Total	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061
Other Asphalt Surfaces	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	0.00
Total	13.0	10.6	82.2	145	0.87	1.30	43.2	44.5	1.24	11.2	12.4	—	91,576	91,576	2.06	10.7	252	95,061

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440
Other Asphalt Surfaces	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	0.00
Total	12.4	9.98	88.8	121	0.85	1.30	43.2	44.5	1.24	11.2	12.4	—	89,165	89,165	2.12	10.8	6.54	92,440
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411
Other Asphalt Surfaces	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	0.00
Total	2.26	1.83	15.8	22.5	0.16	0.24	7.86	8.09	0.23	2.04	2.26	—	14,854	14,854	0.35	1.78	18.0	15,411

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	—	7,008	7,008	1.13	0.14	—	7,077
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,008	7,008	1.13	0.14	—	7,077
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,008	7,008	1.13	0.14	—	7,077
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,008	7,008	1.13	0.14	—	7,077
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,160	1,160	0.19	0.02	—	1,172
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,160	1,160	0.19	0.02	—	1,172

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,249	4,249	0.69	0.08	—	4,291
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,249	4,249	0.69	0.08	—	4,291
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,249	4,249	0.69	0.08	—	4,291
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,249	4,249	0.69	0.08	—	4,291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	703	703	0.11	0.01	—	710
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	703	703	0.11	0.01	—	710

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	354	354	0.03	< 0.005	—	355

Other Asphalt Surfaces	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
Total	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	354	354	0.03	< 0.005	—	355

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Other Asphalt Surfaces	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
Total	0.20	0.10	1.79	1.51	0.01	0.14	—	0.14	0.14	—	0.14	—	2,139	2,139	0.19	< 0.005	—	2,145
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	354	354	0.03	< 0.005	—	355
Other Asphalt Surfaces	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
Total	0.04	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	—	354	354	0.03	< 0.005	—	355

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	13.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.30	8.58	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216
Total	9.30	23.4	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	13.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.84	0.77	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Total	0.84	3.47	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	13.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.30	8.58	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216
Total	9.30	23.4	0.44	52.3	< 0.005	0.09	—	0.09	0.07	—	0.07	—	215	215	0.01	< 0.005	—	216

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	13.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.84	0.77	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Total	0.84	3.47	0.04	4.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.5	17.5	< 0.005	< 0.005	—	17.6

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	533	506	1,039	54.7	1.31	—	2,796
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	88.2	83.8	172	9.05	0.22	—	463

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	609	0.00	609	60.8	0.00	—	2,130
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	353

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/8/2024	7/26/2024	6.00	17.0	Site Preparation
Phase 1 - Site Finishing	Site Preparation	9/29/2025	11/16/2025	6.00	42.0	Site Finishing (Phase 1)
Phase 2 - Site Finishing	Site Preparation	5/18/2026	7/20/2026	6.00	55.0	Site Finishing (Phase 2)
Grading	Grading	7/29/2024	12/20/2024	6.00	125	Grading
Off-site Grading	Grading	12/24/2024	12/15/2025	6.00	306	Off-Site Grading
Phase 1 - Building Construction	Building Construction	12/23/2024	12/29/2025	6.00	319	Building Construction (Phase 1)
Phase 2 - Building Construction	Building Construction	12/29/2025	8/21/2026	6.00	203	Building Construction (Phase 2)
Off-site Paving	Paving	10/21/2025	12/15/2025	6.00	48.0	Off-Site Paving
Off-site Improvements	Trenching	4/14/2025	10/20/2025	6.00	163	Off-site Improvements

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38

Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74
Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Phase 2 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Phase 1 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 1 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 1 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Phase 1 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Phase 2 - Site Finishing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Phase 2 - Site Finishing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 2 - Site Finishing	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 2 - Site Finishing	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Phase 2 - Site Finishing	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Phase 2 - Site Finishing	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	6.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Other Construction Equipment	Diesel	Tier 4 Final	2.00	8.00	82.0	0.42
Off-site Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Grading	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Off-site Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Off-site Grading	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Off-site Grading	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Off-site Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Phase 1 - Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Phase 1 - Building Construction	Generator Sets	Diesel	Average	4.00	8.00	14.0	0.74

Phase 1 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 1 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 1 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Phase 2 - Building Construction	Forklifts	Diesel	Tier 4 Final	4.00	8.00	82.0	0.20
Phase 2 - Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Phase 2 - Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Phase 2 - Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 2 - Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Phase 2 - Building Construction	Aerial Lifts	Diesel	Average	8.00	8.00	46.0	0.31
Off-site Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Off-site Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Off-site Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Off-site Improvements	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Off-site Improvements	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	8.00	376	0.38
Off-site Improvements	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Off-site Improvements	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Off-site Improvements	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Off-site Improvements	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT

Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT
Off-site Grading	—	—	—	—
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT
Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2

Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	45.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	61.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 - Building Construction	—	—	—	—
Phase 1 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 1 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 1 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 - Building Construction	Onsite truck	—	—	HHDT
Phase 1 - Site Finishing	—	—	—	—
Phase 1 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 1 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 1 - Site Finishing	Hauling	48.0	20.0	HHDT
Phase 1 - Site Finishing	Onsite truck	—	—	HHDT
Phase 2 - Site Finishing	—	—	—	—
Phase 2 - Site Finishing	Worker	15.0	11.9	LDA,LDT1,LDT2
Phase 2 - Site Finishing	Vendor	—	9.10	HHDT,MHDT
Phase 2 - Site Finishing	Hauling	73.0	20.0	HHDT
Phase 2 - Site Finishing	Onsite truck	—	—	HHDT
Off-site Grading	—	—	—	—
Off-site Grading	Worker	35.0	11.9	LDA,LDT1,LDT2
Off-site Grading	Vendor	—	9.10	HHDT,MHDT
Off-site Grading	Hauling	0.00	20.0	HHDT

Off-site Grading	Onsite truck	—	—	HHDT
Phase 2 - Building Construction	—	—	—	—
Phase 2 - Building Construction	Worker	505	11.9	LDA,LDT1,LDT2
Phase 2 - Building Construction	Vendor	197	9.10	HHDT,MHDT
Phase 2 - Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 - Building Construction	Onsite truck	—	—	HHDT
Off-site Paving	—	—	—	—
Off-site Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Off-site Paving	Vendor	—	9.10	HHDT,MHDT
Off-site Paving	Hauling	12.0	20.0	HHDT
Off-site Paving	Onsite truck	—	—	HHDT
Off-site Improvements	—	—	—	—
Off-site Improvements	Worker	30.0	11.9	LDA,LDT1,LDT2
Off-site Improvements	Vendor	—	9.10	HHDT,MHDT
Off-site Improvements	Hauling	11.0	20.0	HHDT
Off-site Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	180	0.00	—
Phase 1 - Site Finishing	0.00	0.00	52.5	0.00	—
Phase 2 - Site Finishing	0.00	0.00	69.0	0.00	—
Grading	70,000	0.00	930	0.00	—
Off-site Grading	0.00	0.00	765	0.00	—
Off-site Paving	0.00	0.00	0.00	0.00	62.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Other Asphalt Surfaces	62.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	2,617	2,617	2,617	955,205	55,931	55,931	55,931	20,414,878
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,802,595	600,865	164,500

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	12,539,669	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	7,602,748	204	0.0330	0.0040	6,675,412
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	277,900,063	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1,130	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	21.4	annual days of extreme heat

Extreme Precipitation	0.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	60.9
AQ-PM	31.6
AQ-DPM	43.4
Drinking Water	52.8
Lead Risk Housing	2.00
Pesticides	76.8

Toxic Releases	24.6
Traffic	69.8
Effect Indicators	—
CleanUp Sites	20.5
Groundwater	90.9
Haz Waste Facilities/Generators	88.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	38.8
Cardio-vascular	73.9
Low Birth Weights	51.8
Socioeconomic Factor Indicators	—
Education	32.2
Housing	13.1
Linguistic	39.8
Poverty	10.9
Unemployment	39.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	74.83639163
Employed	47.8121391
Median HI	86.88566662
Education	—

Bachelor's or higher	55.60118055
High school enrollment	26.62645964
Preschool enrollment	40.40805851
Transportation	—
Auto Access	81.29090209
Active commuting	36.22481714
Social	—
2-parent households	64.72475298
Voting	66.31592455
Neighborhood	—
Alcohol availability	90.27332221
Park access	51.80290004
Retail density	7.327088413
Supermarket access	28.5255999
Tree canopy	47.95329142
Housing	—
Homeownership	80.99576543
Housing habitability	92.24945464
Low-inc homeowner severe housing cost burden	86.9626588
Low-inc renter severe housing cost burden	79.71256256
Uncrowded housing	69.47260362
Health Outcomes	—
Insured adults	66.05928397
Arthritis	86.1
Asthma ER Admissions	51.6
High Blood Pressure	59.0
Cancer (excluding skin)	71.8

Asthma	65.7
Coronary Heart Disease	90.3
Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	79.4
Life Expectancy at Birth	59.9
Cognitively Disabled	66.4
Physically Disabled	93.4
Heart Attack ER Admissions	15.0
Mental Health Not Good	64.8
Chronic Kidney Disease	85.5
Obesity	59.8
Pedestrian Injuries	44.0
Physical Health Not Good	76.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	38.6
Current Smoker	56.8
No Leisure Time for Physical Activity	54.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	39.2
Elderly	81.9
English Speaking	58.2
Foreign-born	64.0
Outdoor Workers	48.3
Climate Change Adaptive Capacity	—

Impervious Surface Cover	33.7
Traffic Density	70.0
Traffic Access	0.0
Other Indices	—
Hardship	46.2
Other Decision Support	—
2016 Voting	49.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	43.0
Healthy Places Index Score for Project Location (b)	72.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Land uses consistent with site plan. 103.0 acres total of Development Area.
Construction: Construction Phases	No demolition. Construction phases and phase lengths as provided by Project applicant. 6 days per week of construction activity, as provided by Project applicant. Note that two additional paving phases are included in separate CalEEMod model runs, since CalEEMod only allows one paving phase per model run.
Operations: Fleet Mix	Revised fleet mix to reflect fleet mix provided in Traffic Study (Kimley Horn, 2022). Also trip rates and VMT revised to reflect what is provided in Traffic Study (Kimley Horn, 2022). 29 mile trip length was assumed for HHD vehicles; 17.7478024 trip length (conservative assumption based on largest default CalEEMod assumed trip length value) was assumed for all other vehicles, for a weighted average trip length of 21.37224776 miles. Fleet mix is adjusted to reflect heavy-duty truck mix of 32.211% (as provided by Kimley Horn).
Operations: Consumer Products	Revised General Category consumer products emissions factor to reflect CARB adjustments applied to their Consumer and Commercial Product Survey Emission data, made after the 2008 consumer products emissions factor. Adjustment made to reflect average adjustment factor. See for further detail: https://ww2.arb.ca.gov/our-work/programs/consumer-products-program/consumer-products-emissions-inv 0.0000107
Operations: Vehicle Data	Trip rates revised to reflect that the heavy-duty truck trips would average approximately 29 miles per trip. The trip distances for passenger vehicles provided by the defaults in the CalEEMod model were averaged (weighted) with the heavy-duty truck trip distance of 29 miles. This equals a weighted average travel distance of 21.37224776 miles. Trip rate is 2.17731397125136 and 2.17769382473601 per 1000 sf per day, for each of the two buildings (smaller building and larger building), respectively, consistent with what was provided by Kimley Horn.
Construction: Dust From Material Movement	Per Project Applicant, during Grading phase, up to approx. 70,000 cubic yards of soil could be imported. Acres graded represents the default CalEEMod value (note that, according to CalEEMod, "Multiple passes with grading equipment may be required to properly grade a piece of land").
Construction: Off-Road Equipment	Off-road equipment detail as provided by Project applicant.
Construction: Trips and VMT	Hauling trips as provided by Project applicant (note: adjusted upwards to reflect 6 days per week of construction activity).

APPENDIX A.2

Energy Outputs

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: San Joaquin
Calendar Year: 2023, 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Trips	Fuel Consumption	MPG	
San Joaquin	2023	All Other Buses	Aggregate	Aggregate	Diesel	63.39460475	3393.93922	564.2119822	0.391421545	**8.670803**	
San Joaquin	2023	LDA	Aggregate	Aggregate	Gasoline	246367.0682	9973102.47	1138235.391	349.3216614	**28.54991**	
San Joaquin	2023	LDA	Aggregate	Aggregate	Diesel	705.734891	23139.8254	3023.214022	0.543997543	**42.53664**	
San Joaquin	2023	LDT1	Aggregate	Aggregate	Gasoline	22016.87719	727225.714	95173.38769	30.52486616	**23.82404**	
San Joaquin	2023	LDT1	Aggregate	Aggregate	Diesel	6.309776167	72.3140659	18.53577151	0.002954101	**24.47922**	
San Joaquin	2023	LDT2	Aggregate	Aggregate	Gasoline	99986.64004	4006976.31	463638.6569	174.3583341	**22.98127**	
San Joaquin	2023	LDT2	Aggregate	Aggregate	Diesel	269.0353638	11767.7731	1277.639106	0.369317903	**31.86353**	
San Joaquin	2023	LHD1	Aggregate	Aggregate	Gasoline	9831.305478	343356.563	146471.803	37.0137846	**9.276451**	
San Joaquin	2023	LHD1	Aggregate	Aggregate	Diesel	8858.793592	311287.78	111432.479	19.67413691	**15.82218**	
San Joaquin	2023	LHD2	Aggregate	Aggregate	Gasoline	1172.202392	40932.8123	17464.06906	4.90823024	**8.339628**	
San Joaquin	2023	LHD2	Aggregate	Aggregate	Diesel	3130.564849	115648.086	39378.56755	8.863291415	**13.04798**	
San Joaquin	2023	MCY	Aggregate	Aggregate	Gasoline	12111.77426	65765.9483	24223.54852	1.643730409	**40.01018**	
San Joaquin	2023	MDV	Aggregate	Aggregate	Gasoline	94539.47242	3309649.73	427287.8869	178.486066	**18.5429**	
San Joaquin	2023	MDV	Aggregate	Aggregate	Diesel	1386.649679	54072.4946	6485.715736	2.267270858	**23.84916**	
San Joaquin	2023	MH	Aggregate	Aggregate	Gasoline	1507.494843	13134.1796	150.8097841	2.977418428	**4.411264**	
San Joaquin	2023	MH	Aggregate	Aggregate	Diesel	642.7961913	5646.6428	64.27961913	0.600452961	**9.403972**	
San Joaquin	2023	Motor Coach	Aggregate	Aggregate	Diesel	17.50069597	2493.47591	402.1659934	0.455354651	**5.475899**	
San Joaquin	2023	OBUS	Aggregate	Aggregate	Gasoline	184.2186442	8143.5346	3685.846633	1.733278965	**4.69834**	
San Joaquin	2023	PTO	Aggregate	Aggregate	Diesel	0	19769.5175	0	4.013121008	**4.92622**	
San Joaquin	2023	SBUS	Aggregate	Aggregate	Gasoline	127.6658449	7011.40481	510.6633795	0.69096273	**10.1473**	
San Joaquin	2023	SBUS	Aggregate	Aggregate	Diesel	488.0661519	10999.7571	7067.197879	1.346323697	**8.170217**	
San Joaquin	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	10.21525791	684.779876	234.7466267	0.077405114	**8.846701**	
San Joaquin	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	13.70885779	939.491781	315.0295519	0.106056052	**8.858446**	
San Joaquin	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	43.24157557	2453.39435	993.6914066	0.273109788	**8.98318**	
San Joaquin	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	74.64743229	15398.8197	1715.397994	1.609252898	**9.568925**	**MHD**
San Joaquin	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	243.75384	8276.65194	3478.367297	1.005561316	**8.230877**	**8.579141**
San Joaquin	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	156.2432876	5383.85911	2229.591714	0.657027122	**8.194272**	
San Joaquin	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	682.6025228	23363.9411	9740.738001	2.839033489	**8.229541**	
San Joaquin	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	122.4768589	6703.21055	1747.744776	0.802391793	**8.354037**	
San Joaquin	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	449.8451938	18399.4289	5200.21044	2.166542487	**8.492531**	
San Joaquin	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	1174.570894	51943.6226	13578.03953	6.096265009	**8.520565**	
San Joaquin	2023	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	912.5417949	38573.6428	10548.98315	4.50612298	**8.560273**	
San Joaquin	2023	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	553.092214	25667.2012	6393.745994	2.950154535	**8.70029**	
San Joaquin	2023	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	10.69132111	510.925844	123.591672	0.060247854	**8.480399**	
San Joaquin	2023	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	696.5366058	42802.4924	8051.963163	4.748833943	**9.013264**	
San Joaquin	2023	T6 OOS Class 4	Aggregate	Aggregate	Diesel	5.905142679	392.334655	135.7001788	0.044317954	**8.852725**	
San Joaquin	2023	T6 OOS Class 5	Aggregate	Aggregate	Diesel	7.890998517	538.212595	181.3351459	0.060737656	**8.861267**	
San Joaquin	2023	T6 OOS Class 6	Aggregate	Aggregate	Diesel	24.97157764	1406.36491	573.8468541	0.156409596	**8.991551**	
San Joaquin	2023	T6 OOS Class 7	Aggregate	Aggregate	Diesel	40.57354344	10226.0217	932.3800283	1.062980063	**9.620144**	
San Joaquin	2023	T6 Public Class 4	Aggregate	Aggregate	Diesel	32.09216486	1056.60486	164.6328057	0.140824099	**7.503012**	
San Joaquin	2023	T6 Public Class 5	Aggregate	Aggregate	Diesel	76.27568061	2776.64108	391.2942415	0.361173048	**7.687841**	
San Joaquin	2023	T6 Public Class 6	Aggregate	Aggregate	Diesel	126.4582156	4446.297	648.7306462	0.576020372	**7.718993**	
San Joaquin	2023	T6 Public Class 7	Aggregate	Aggregate	Diesel	152.7305258	6768.06936	783.5075973	0.883776286	**7.658125**	
San Joaquin	2023	T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.47606031	1364.93307	428.493572	0.154770907	**8.819055**	
San Joaquin	2023	T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.356456131	257.430851	81.36263848	0.029104667	**8.845002**	
San Joaquin	2023	T6 Utility Class 7	Aggregate	Aggregate	Diesel	7.230830053	358.500092	92.55462468	0.040337535	**8.887506**	
San Joaquin	2023	T6TS	Aggregate	Aggregate	Gasoline	560.525111	27400.6685	11214.98642	5.873758607	**4.664929**	
San Joaquin	2023	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1500.771839	308143.872	34487.73687	51.00604804	**6.04132**	**HHD**
San Joaquin	2023	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1343.474448	364734.036	30873.04281	59.83110996	**6.09606**	**5.596459**
San Joaquin	2023	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	562.3598205	132501.396	12923.02868	21.97566159	**6.029461**	
San Joaquin	2023	T7 Other Port Class 8	Aggregate	Aggregate	Diesel	28.6781176	5381.65764	469.174004	0.90785985	**5.927851**	
San Joaquin	2023	T7 POAK Class 8	Aggregate	Aggregate	Diesel	131.1211785	13188.0173	2145.142481	2.26470624	**5.823279**	
San Joaquin	2023	T7 POLA Class 8	Aggregate	Aggregate	Diesel	139.588006	18353.09	2283.659779	3.154875131	**5.817374**	
San Joaquin	2023	T7 Public Class 8	Aggregate	Aggregate	Diesel	387.066761	16533.9411	1985.652484	3.205449572	**5.158072**	
San Joaquin	2023	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	118.1878034	8595.90453	1113.329108	1.467125303	**5.859012**	
San Joaquin	2023	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	486.5561857	30707.0394	4583.359269	5.327318734	**5.76407**	
San Joaquin	2023	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1040.735731	57042.4876	9803.730584	9.736964144	**5.858344**	
San Joaquin	2023	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	175.044521	11346.9523	805.2047965	4.507153801	**2.517543**	
San Joaquin	2023	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2638.276559	211937.817	38334.1584	34.91925222	**6.069369**	
San Joaquin	2023	T7 Utility Class 8	Aggregate	Aggregate	Diesel	23.22093261	1080.67322	297.2279374	0.186573576	**5.792209**	
San Joaquin	2023	T7IS	Aggregate	Aggregate	Gasoline	2.419215607	60.0081934	48.40366587	0.018776223	**3.195967**	
San Joaquin	2023	UBUS	Aggregate	Aggregate	Gasoline	49.369827	3719.55506	197.479308	0.791708132	**4.698139**	
San Joaquin	2023	UBUS	Aggregate	Aggregate	Diesel	78.33872382	5427.523	313.3548953	0.602229331	**9.012386**	
San Joaquin	2025	All Other Buses	Aggregate	Aggregate	Diesel	67.92171408	3454.27959	604.5032553	0.395338932	**8.737514**	
San Joaquin	2025	LDA	Aggregate	Aggregate	Gasoline	247812.193	10065418.7	1143376.643	340.6379829	**29.54873**	
San Joaquin	2025	LDA	Aggregate	Aggregate	Diesel	620.8563183	19917.7375	2643.071074	0.459921869	**43.30678**	
San Joaquin	2025	LDT1	Aggregate	Aggregate	Gasoline	20969.62889	704503.526	90823.61908	28.55436416	**24.67236**	
San Joaquin	2025	LDT1	Aggregate	Aggregate	Diesel	5.057977491	54.7985719	14.33247387	0.002232746	**24.54313**	
San Joaquin	2025	LDT2	Aggregate	Aggregate	Gasoline	105887.2734	4297523.94	491668.9279	179.0193905	**24.00591**	
San Joaquin	2025	LDT2	Aggregate	Aggregate	Diesel	305.5941154	13558.4186	1463.961841	0.410704288	**33.01261**	
San Joaquin	2025	LHD1	Aggregate	Aggregate	Gasoline	9450.489324	335570.018	140798.2097	34.90157426	**9.614753**	
San Joaquin	2025	LHD1	Aggregate	Aggregate	Diesel	8447.684296	292201.982	106261.2413	18.38163512	**15.89641**	
San Joaquin	2025	LHD2	Aggregate	Aggregate	Gasoline	1129.168714	39496.2437	16822.93138	4.600897482	**8.584465**	
San Joaquin	2025	LHD2	Aggregate	Aggregate	Diesel	3098.911716	112092.227	38980.41096	8.493201579	**13.19788**	
San Joaquin	2025	MCY	Aggregate	Aggregate	Gasoline	12009.69999	64631.0827	24019.39998	1.598967718	**40.42051**	
San Joaquin	2025	MDV	Aggregate	Aggregate	Gasoline	92446.53152	3253692.9	417141.1232	169.0306745	**19.24913**	
San Joaquin	2025	MDV	Aggregate	Aggregate	Diesel	1393.091492	51951.9772	6420.977754	2.139013823	**24.28782**	
San Joaquin	2025	MH	Aggregate	Aggregate	Gasoline	1345.73466	11738.0981	134.6272954	2.660033836	**4.412763**	
San Joaquin	2025	MH	Aggregate	Aggregate	Diesel	631.6240768	5453.24118	63.16240768	0.580283559	**9.397546**	
San Joaquin	2025	Motor Coach	Aggregate	Aggregate	Diesel	18.80772922	2514.51501	432.2016174	0.452917647	**5.551815**	
San Joaquin	2025	OBUS	Aggregate	Aggregate	Gasoline	170.8324994	7309.03024	3418.016649	1.52248184	**4.800734**	

San Joaquin	2025	PTO	Aggregate	Aggregate	Diesel	0	20105.4227	0	3.98427046	**5.046199**		
San Joaquin	2025	SBUS	Aggregate	Aggregate	Gasoline	131.6189784	7271.29468	526.4759134	0.71341232	**10.19228**		
San Joaquin	2025	SBUS	Aggregate	Aggregate	Diesel	490.2787139	10849.6548	7099.235777	1.320741795	**8.214819**	**MHD**	
San Joaquin	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	10.57610418	697.742444	243.038874	0.077548733	**8.997471**	**8.711536**	
San Joaquin	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	14.00551629	958.755772	321.8467643	0.106617779	**8.992457**		
San Joaquin	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	47.29566683	2488.35531	1086.854424	0.272426579	**9.13404**		
San Joaquin	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	78.11014265	15772.0773	1794.971078	1.605687139	**9.822634**		
San Joaquin	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	252.424868	8475.97193	3602.102866	1.019116289	**8.316982**		
San Joaquin	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	162.4907366	5516.89416	2318.742812	0.666350411	**8.279269**		
San Joaquin	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	708.1406495	23932.0747	10105.16707	2.87788442	**8.315857**		
San Joaquin	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	127.2799027	6929.15534	1816.284212	0.825964977	**8.389164**		
San Joaquin	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	457.3843802	18839.146	5287.363435	2.200026822	**8.563144**		
San Joaquin	2025	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	1233.945904	53254.2945	14264.41465	6.208167542	**8.578102**		
San Joaquin	2025	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	939.5521797	39531.7219	10861.2232	4.582174014	**8.627285**		
San Joaquin	2025	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	601.2468734	26326.7381	6950.413857	3.002944814	**8.766974**		
San Joaquin	2025	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	11.09411194	521.271565	128.2479341	0.060836197	**8.568444**		
San Joaquin	2025	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	742.8431118	44239.5012	8587.266373	4.878765067	**9.067766**		
San Joaquin	2025	T6 OOS Class 4	Aggregate	Aggregate	Diesel	6.191325924	405.515484	142.2766697	0.044545776	**9.103343**		
San Joaquin	2025	T6 OOS Class 5	Aggregate	Aggregate	Diesel	8.158025029	556.294323	187.4714152	0.061223253	**9.086324**		
San Joaquin	2025	T6 OOS Class 6	Aggregate	Aggregate	Diesel	27.75525515	1453.61298	637.8157633	0.156720574	**9.275189**		
San Joaquin	2025	T6 OOS Class 7	Aggregate	Aggregate	Diesel	42.05361037	10569.5739	966.3919663	1.066856767	**9.90721**		
San Joaquin	2025	T6 Public Class 4	Aggregate	Aggregate	Diesel	30.96340517	1050.77782	158.8422685	0.137051326	**7.667039**		
San Joaquin	2025	T6 Public Class 5	Aggregate	Aggregate	Diesel	77.40598482	2785.90976	397.0927021	0.357713881	**7.788095**		
San Joaquin	2025	T6 Public Class 6	Aggregate	Aggregate	Diesel	124.4648645	4446.56253	638.5047549	0.566454177	**7.849819**		
San Joaquin	2025	T6 Public Class 7	Aggregate	Aggregate	Diesel	148.2002736	6742.4666	760.2674038	0.856702113	**7.870258**		
San Joaquin	2025	T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.80713566	1371.26265	432.7313364	0.154052822	**8.90125**		
San Joaquin	2025	T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.404694197	258.753793	81.98008572	0.028984726	**8.927246**		
San Joaquin	2025	T6 Utility Class 7	Aggregate	Aggregate	Diesel	7.233394318	359.399463	92.58744727	0.039964166	**8.993043**		
San Joaquin	2025	T6TS	Aggregate	Aggregate	Gasoline	531.0756316	27321.54	10625.76124	5.695995374	**4.796623**	**HHD**	
San Joaquin	2025	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1559.383676	317454.145	35834.63687	51.17555421	**6.203238**	**5.689878**	
San Joaquin	2025	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1399.986354	379791.503	32171.68641	59.50406302	**6.382615**		
San Joaquin	2025	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	592.9033383	137971.507	13624.91871	22.13949036	**6.231919**		
San Joaquin	2025	T7 Other Port Class 8	Aggregate	Aggregate	Diesel	31.09466321	5773.39367	508.7086901	0.965450648	**5.979999**		
San Joaquin	2025	T7 POAK Class 8	Aggregate	Aggregate	Diesel	137.4284865	13680.6366	2248.330039	2.333991731	**5.861476**		
San Joaquin	2025	T7 POLA Class 8	Aggregate	Aggregate	Diesel	157.478818	19849.822	2576.353462	3.419583803	**5.804748**		
San Joaquin	2025	T7 Public Class 8	Aggregate	Aggregate	Diesel	386.4284577	16615.451	1982.377988	3.157962941	**5.261446**		
San Joaquin	2025	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	121.0999578	8533.43151	1140.761603	1.428680336	**5.972947**		
San Joaquin	2025	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	518.3758674	30855.2217	4883.100671	5.328325632	**5.790791**		
San Joaquin	2025	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1163.187559	58572.1124	10957.22681	9.897066107	**5.918129**		
San Joaquin	2025	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	167.5568448	10862.3368	770.7614863	4.227120943	**2.569677**		
San Joaquin	2025	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2947.082282	219605.844	42821.10556	35.73125002	**6.146044**		
San Joaquin	2025	T7 Utility Class 8	Aggregate	Aggregate	Diesel	24.5522509	1096.54573	314.2688115	0.187591616	**5.845388**		
San Joaquin	2025	T7IS	Aggregate	Aggregate	Gasoline	1.372290651	54.2951776	27.45679134	0.014900233	**3.643915**		
San Joaquin	2025	UBUS	Aggregate	Aggregate	Gasoline	50.67993554	3818.16315	202.7197421	0.812722391	**4.697992**		
San Joaquin	2025	UBUS	Aggregate	Aggregate	Diesel	73.34639924	4977.17265	293.3855969	0.526331001	**9.456355**		

On-road Mobile (Operational) Energy Usage

Unmitigated:

Step 1:

Therefore:

Average Daily VMT:

81,215	Source: CalEEMod

Step 2: Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
37.37%	3.63%	11.71%	10.11%	1.74%	0.42%	0.87%	32.21%	0.03%	0.02%	1.58%	0.08%	0.23%

And:

Gasoline MPG Factors for each Vehicle Class - Year 2025 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	MCY	MH
29.549	24.672	24.006	19.249	40.421	4.413

Diesel MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 Output)

LHD1	LHD2	MHD	HHD	OBUS	UBUS	SBUS
15.896	13.198	8.712	5.690	4.801	9.456	8.215

Therefore:

Weighted Average MPG Factors

Gasoline: **26.8** Diesel: **6.4**

Step 3: **Therefore:**

1,956	**daily gallons of gasoline**	**4,523**	**daily gallons of diesel**

or

713,971	**annual gallons of gasoline**	**1,650,744**	**annual gallons of diesel**

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.

Given Factor:	**3,434.4**	**metric tons**	**CO2**	**(provided in CalEEMod Output File)**	
Conversion Factor:	2204.6262	pounds	per metric ton		
Intermediate Result:	**7,571,546**	**pounds**	**CO2**		
Conversion Factor:	22.38	pounds	CO2 per 1 gallon of diesel fuel		Source: U.S. EIA, 2016
Final Result:	**338,318**	**gallons**	**diesel fuel**	http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11	

Mitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Site Preparation (2024)	57.1000
Phase 1 - Site Finishing (2025)	14.2

On-road Mobile (Construction) Energy Usage - Site Preparation

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

18

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

214

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

8.2 **Worker daily gallons of gasoline**

Step 4: 17 **# of Days (CalEEMod Output)**

Therefore:

Result: **140** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Grading

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)

45

Total Hauling Trips (CalEEMod Output)

70

Worker Trip Length (miles) (CalEEMod Output)

11.9

Hauling Trip Length (miles) (CalEEMod Output)

20

Therefore:

Average Worker Daily VMT:

536

Average Vendor Daily VMT:

1,400

Step 2:

Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.5	0.25	0.25

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

Fleet Mix for Workers (Conservative Estimate)

MHD	HHD
0%	100%

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Diesel:

MHD	HHD
8.58	5.60

Therefore:

Weighted Average Worker MPG Factor

26.0

Weighted Average Hauling (Diesel) MPG Factor

5.6

Step 3:

Therefore:

20.6 Worker daily gallons of gasoline

Step 4:

125 **# of Days (CalEEMod Output)**

Therefore:

Result: **2,577** **Total gallons of gasoline**

Therefore:

250 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Phase 1 - Building Construction

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)

733

Note: Assumes 5% of workers are on-site on a given day.

Total Daily Vendor Trips (CalEEMod Output)

286

Note: Assumes 5% of workers are on-site on a given day.

Worker Trip Length (miles) (CalEEMod Output)

11.9

Vendor Trip Length (miles) (CalEEMod Output)

9.1

Therefore:

Average Worker Daily VMT:

8,723

Average Vendor Daily VMT:

2,603

Step 2:

Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

Assumed Fleet Mix for Vendors

Fleet Mix for Workers (CalEEMod Output)

MHD	HHD
100%	0%

And:

MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2023

Gasoline:

LDA	LDT1	LDT2
28.55	23.82	22.98

Diesel:

MHD	HHD
8.58	5.60

Therefore:

Weighted Average Worker (Gasoline) MPG Factor

26.0

Weighted Average Vendor (Diesel) MPG Factor

8.6

Step 3:

Therefore:

336 **Worker daily gallons of gasoline**

Therefore:

303 **Vendor daily gallons of diesel**

Step 4:

319 **# of Days (CalEEMod Output)**

Therefore:

107,119 **Total gallons of gasoline**

Therefore:

96,773 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Phase 1 - Site Finishing

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)	Total Hauling Trips (CalEEMod Output)
15	57

Worker Trip Length (miles) (CalEEMod Output)	Hauling Trip Length (miles) (CalEEMod Output)
11.9	20

Therefore:

Average Worker Daily VMT:	Average Vendor Daily VMT:
179	**1,140**

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

Fleet Mix for Workers (Conservative Estimate)

MHD	HHD
0%	100%

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Diesel:

MHD	HHD
8.58	5.60

Therefore:

Weighted Average Worker MPG Factor	Weighted Average Hauling (Diesel) MPG Factor
26.0	**5.6**

Step 3: **Therefore:**

6.9 **Worker daily gallons of gasoline**

Step 4: 42 **# of Days (CalEEMod Output)**

	Therefore:		Therefore:	
Result:	**289**	**Total gallons of gasoline**	**204**	**Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Phase 2 - Site Finishing

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)

15

Total Hauling Trips (CalEEMod Output)

57

Worker Trip Length (miles) (CalEEMod Output)

11.9

Hauling Trip Length (miles) (CalEEMod Output)

20

Therefore:

Average Worker Daily VMT:

179

Average Vendor Daily VMT:

1,140

Step 2:

Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

Fleet Mix for Workers (Conservative Estimate)

MHD	HHD
0%	100%

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Diesel:

MHD	HHD
8.58	5.60

Therefore:

Weighted Average Worker MPG Factor

26.0

Weighted Average Hauling (Diesel) MPG Factor

5.6

Step 3:

Therefore:

6.9 Worker daily gallons of gasoline

Step 4:

55 **# of Days (CalEEMod Output)**

Therefore:

Result: **378** **Total gallons of gasoline**

Therefore:

204 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Off-site Grading

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

35

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

417

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

16.0 **Worker daily gallons of gasoline**

Step 4: 306 **# of Days (CalEEMod Output)**

Therefore:

Result: **4,906** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Phase 2 Building Construction

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)

733

Total Daily Vendor Trips (CalEEMod Output)

286

Note: Assumes 5% of workers are on-site on a given day.

Worker Trip Length (miles) (CalEEMod Output)

11.9

Vendor Trip Length (miles) (CalEEMod Output)

9.1

Therefore:

Average Worker Daily VMT:

8,723

Average Vendor Daily VMT:

2,603

Step 2:

Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

Fleet Mix for Workers (CalEEMod Output)

MHD	HHD
100%	0%

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Diesel:

MHD	HHD
8.58	5.60

Step 3:

Therefore:

335.8 **Worker daily gallons of gasoline**

Weighted Average Vendor (Diesel) MPG Factor

8.6

Step 4:

203 **# of Days (CalEEMod Output)**

Therefore:

303 **Vendor daily gallons of diesel**

Therefore:

Result: **68,166** **Total gallons of gasoline**

Therefore:

61,583 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Off-site Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

6.9 **Worker daily gallons of gasoline**

Step 4: 48 **# of Days (CalEEMod Output)**

Therefore:

Result: **330** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Off-site Improvements

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

30

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

357

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

13.7 **Worker daily gallons of gasoline**

Step 4: 163 **# of Days (CalEEMod Output)**

Therefore:

Result: **2,240** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Phase 1 - Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

6.9 **Worker daily gallons of gasoline**

Step 4: 37 **# of Days (CalEEMod Output)**

Therefore:

Result: **254** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Phase 2 - Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

6.9 **Worker daily gallons of gasoline**

Step 4: 14 **# of Days (CalEEMod Output)**

Therefore:

Result: **96** **Total gallons of gasoline**

APPENDIX A.3

Health Risk Assessment

ANALYSIS OF PUBLIC HEALTH RISKS

FOR THE

TRACY COSTCO DEPOT PROJECT

TRACY CALIFORNIA

DECEMBER 15, 2023

PROJECT TITLE

Tracy Costco Depot

PREPARED BY:

De Novo Planning Group
1020 Suncast Lane Suite 106
El Dorado Hills, CA 95762

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CONTENTS

INTRODUCTION

This Health Risk Assessment (HRA) was prepared to assess potential public health risks that may be present at the proposed Tracy Costco Depot Project in the city of Tracy, San Joaquin County, California. This report analyzes the emissions of toxic air pollutants within the project area and their impacts on public health.

PROJECT DESCRIPTION

PROJECT LOCATION

The Project site is located at 16000 West Schulte Road in unincorporated San Joaquin County, California (see Figure 1). The Project site is within the Tracy Sphere of Influence (SOI) 10-Year Planning Horizon and is immediately adjacent to the Tracy city limits to the north of the site.

The Project site is immediately south of the intersection of Bud Lyons Way and West Schulte Road. The Project site is bounded on the north by West Schulte Road, on the west by an unnamed driveway serving the adjacent rural residence, on the south by the Delta Mendota Canal, and on the east by vacant agricultural land. The Project site is located within Sections 35 of Township 2 South, Range 4 East Mount Diablo Base Meridian (MDBM). Figure 1 show the Project's vicinity.

EXISTING SURROUNDING USES

Surrounding land uses include warehouse distribution and other industrial uses to the north (within the Cordes Ranch Specific Plan Area, located in the City of Tracy), vacant agricultural land within unincorporated San Joaquin County to the east, the Delta Mendota Canal and agricultural land within unincorporated San Joaquin County to the south, and a rural residence, CalFire station, and Delta Mendota Canal to the west (within unincorporated San Joaquin County).

PROJECT CHARACTERISTICS

The Project would include the construction and subsequent operation of two Costco Direct Delivery Center (DDC) buildings (approximately 543,325 sf for Building 1 and 1,201,726 sf for Building 2) totaling approximately 1,745,051 sf on the 103.0-acre development portion of the Project site. Building 1 is anticipated to serve as a regional ecommerce fulfillment distribution center primarily for large and bulky items. Building 2 is anticipated to serve as a warehouse for high turnover merchandise sold at warehouse stores and as a pallet repair and a Return to Vendor (RTV) facility. The Project would also include the required circulation, parking, and utility improvements. The site plan is shown in Figure 2.

SCOPE OF RISK ASSESSMENT

Preparation of risk assessments is a three-step process. The first step is to identify potential contaminants that may lead to public health risks. The second step is to assess the magnitude of contaminants that may reach the public (exposure assessment). The last step is to calculate the magnitude of the health risk as a result of exposure to harmful contaminants on the basis of the toxicology of the contaminants.

The Office of Environmental Health Hazard Assessment, and the San Joaquin Valley Air Pollution Control District (SJVAPCD) provide guidance on the procedures that should be used, including, toxicological data for individual contaminants. This risk assessment is based on the guidance provided within these guidance documents. It should be noted that while this risk assessment uses certain procedures and data from these Guidelines, this assessment is not intended to satisfy the reporting requirements under AB-2588 "Air Toxics" Hot Spots program.

The operational health risks that are evaluated in this study include:

- Residential Cancer Risk (70-year exposure; start at third trimester);
- Workplace Cancer Risk (40-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

The 70-year risk applies to residential areas where exposure may potentially occur 24 hours/day, 365 days/year. The 40-year risk is applicable to workplace exposure and therefore accounts for a reduced exposure for the fact that individuals typically would be exposed 8-hrs per day, 5 days per week, and 50 weeks per year. Non-cancer risks can be described as acute (short-term, exposure) or chronic health impacts.

Additionally, construction-related health risks are also evaluated in this study, addressed cumulatively (i.e. in conjunction) with the operational health risks. Since the construction schedule would occur over approximately 2 years, the construction-related health risks include:

- Residential Cancer Risk (2-year exposure; start at third trimester);
- Workplace Cancer Risk (2-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

MODELING ASSUMPTIONS

The Intake Rate Percentile utilized to assess both the operational and construction-related health risks was the "95th Percentile (High End)" Intake Rate Percentile, which selects the high end intake rate to assess risk at the 95th percentile exposure rate for all pathways, representing the most conservative intake rate percentile assumption.

The pathways to evaluate selected was the 'Mandatory Minimum Pathways' selection for residential-related health risks, which accounts for the four minimum exposure pathways required by OEHHA to conduct a health risk assessment for residents, when multi-pathway pollutants are involved. These include inhalation, soil, dermal, and mother's milk. Separately, the 'Worker Pathways' selection was selected for the worker-related health risks, since this selection was more applicable to analysis of worker-related health risks.

Additionally, the Deposition Rate utilized for the analyses was '0.05 m/s (uncontrolled sources)', which represents the most conservative selection available for Deposition Rate. Furthermore, it should be noted that worker adjustment factors were not utilized for the worker inhalation pathway.

Furthermore, it should be noted that the construction modeling within AERMOD assumed a default 24-our construction schedule, even though construction would only occur for 10 hours daily in actuality, for the sake a more conservative assessment.

SIGNIFICANCE CRITERIA

The following significance criteria shown in Table 1, based on guidance from the SJVAPCD, are used in this report to assess the significance of public health risks.

TABLE 1 THRESHOLDS OF SIGNIFICANCE FOR PUBLIC HEALTH RISKS

Risk Metric	*Significance Threshold*
Residential Cancer Risk	20 per million
Workplace Cancer Risk	20 per million
Chronic and Acute non-cancer hazard Indices	non-cancer health hazard exposure index of 1.0

SOURCE: SJVAPCD, 2015.

As shown in Table 1, a project that contributes a cancer risk in excess of 20 new cases in a population of one million persons at identified receptors, or a non-cancer hazard index of greater than or equal to 1.0 would be considered to have a significant project-level impact.

EMISSION SOURCES AND EXPOSURE

The main source of toxic air pollutants (TACs) by the proposed Project is diesel particulate matter (DPM) from truck idle and mobile emissions. Based on numerous studies by the California Air Resources Board (ARB), DPM represents the largest single contributor to public health risks. Additionally, in its comprehensive assessment of diesel exhaust, OEHHA analyzed more than 30 studies of people who worked around diesel equipment, including truck drivers, railroad workers, and equipment operators. The studies showed these workers were more likely to develop lung cancer than workers who were not exposed to diesel emissions. These studies provide strong evidence that long-term occupational exposure to diesel exhaust increases the risk of lung cancer. Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

Emissions from the following project sources were analyzed and are shown in Table 2:

- Truck on-site and off-site mobile emissions
- Truck on-site idling emissions
- Construction-related off-road emissions

TABLE 2: EMISSION SOURCE ASSUMPTIONS

Source Type / Emission	Configuration	Assumptions[1]
On- and Off-site Mobile Diesel Truck Circulation (DPM)	*Modeled as line-volume sources* -Release Height = 4 meters (typical truck height) -Plume Height = 6.8 meters[2] -Plume Width = 12 ft (typical truck width) -Line Lengths = based on path of travel -Base Elevation = Based on AERMAP terrain processor	• On-site and off-site travel of 612 trucks per day (Kimley Horn, 2022). • Traveling distance based on proposed site plan layout and anticipated ingress/egress routes. • Both on-site and off-site mobile circulation modeled. • Off-site mobile routes modeled up to approximately 0.25 miles from project site boundaries.[3] • PM_{10} mobile emissions factor provided by EMFAC2021 [4] (Parameters: San Joaquin County, Annual, Year 2025; emission factor for T7 Tractor Class 8)
On-site Diesel Truck Idling (DPM)	*Modeled as point sources* -Release Height = 12.6 ft[5] Gas Exit Velocity = 57.71 m/s @ 1500 rpm[6] -Stack Inside Diameter = 0.1 meters (based on typical stack inside diameters for heavy-duty vehicles). -Gas Exit Temperature = 366 K (based on typical diesel exit temperatures) -Base Elevation = Based on AERMAP terrain processor	• On-site Idle of 612 trucks per day (Kimley Horn, 2021) • PM_{10} mobile emissions factor provided by EMFAC2021 idling emission factors for 2025 T7 Tractor Class 8 diesel trucks. Total daily truck idling emissions were assumed to occur within the Project site (as opposed to being split among multiple locations throughout the day), which represents a conservative assumption.
Construction-related Off-road Emissions	*Modeled as a volume source* -Release Height = 8 ft.[7] -Base Elevation = Based on AERMAP terrain processor	• On-site construction-related off-road emissions were modeled (based on the CalEEMod off-road emissions data).

[1] Each truck traveling to and from the project site on a daily basis consists of one ingress and one egress trip, for a total of 1,224 total daily truck trips.
[2] Based on the US EPA Transportation Conformity Guidance on modeling dispersion from vehicle travel, plume height was determined by multiplying the truck height by 1.7. See here: here (pg 55): https://nepis.epa.gov/Exe/ZyPdf.cgi?Dockey=P100NN22.pdf. Assuming a truck height of 4 meters, the resultant plume height would be 6.8 meters.
[3] Consistent with Air District guidance.
[4] EMFAC2021 (v1.0.2) represents the latest version of EMFAC.
[5] Based on SJVAPCD modeling guidance.
[6] Based on SJVAPCD modeling guidance.
[7] Based on the average height of a construction tractor. See: https://farmingshelter.com/tractors-sizes-weight-height-width/

DAILY TRUCK TRIPS AND ROUTES

The total diesel truck trips generated by the proposed project is based on Technical Memorandum for the proposed project prepared by Kimley Horn in 2022. According to Kimley Horn, the average total daily truck traffic includes 1,224 heavy-duty truck trips per day, and 84 heavy-duty trucks during the maximum peak hour. The Technical Memorandum is provided in Appendix 2.

The off-site diesel truck routes were modeled consistent with the trip distribution for heavy trucks as provided in Figure 12 of Kimley Horn's Technical Memorandum (see Appendix 2 of this report for further detail), at least 0.25 miles away from the Project site (in accordance with San Joaquin Valley Air Pollution Control District guidance). As shown in Kimley Horn's Technical Memorandum, the diesel truck trips are anticipated to travel between the Project site I-580 and I-205. The routes from the Project site to and from these routes were modeled based on the ingress/egress points as provided in the Project site plan (see Figure 2 of this report). Consistent with Kimley Horn's Technical Memorandum, it was assumed that all heavy-duty trucks enter at the Schulte Road entrance (located at the northeastern corner of the Project site), and exit at the central exist (located across from Bud Lyons Way). The trucks would use Schulte road to enter and exit the project site.

Separately, the on-site circulation of trucks was modeled to account for the diesel truck travel throughout the entirety of the internal circulation route. Specifically, on-site circulation was modelled to account for internal Project site travel between each of the ingress/egress locations and the circulation pattern that surrounds the warehouses (for docking and loading/unloading) and the diesel truck parking areas.

EMISSION RATES

Table 3 provides emissions rates by source and emissions factors. For calculations, data outputs, and reference documents please see Appendix 1.

TABLE 3: EMISSION RATES BY SOURCE

Source	Pollutant	Volume/Size	Emission Factor	Emissions Pounds/Year
On-site Diesel Truck (Mobile) Circulation	DPM	612 trucks on-site per day traveling 1.11 miles	0.0084 g/mile	4.61
Off-site Diesel Truck (Mobile) Circulation	DPM	1,224 truck trips per day	0.0089 g/mile	7.30
On-site Diesel Truck Idling	DPM	612 trucks per day idling 5 min	0.0162 g/truck/day	7.96
On-site Construction-related Off-Road Equipment Activities	DPM	All Phases	N/A (Emissions as provided by CalEEMod)	87.72

SOURCES: EMFAC 2021; AERMOD; KIMLEY HORN.

EXPOSURE ASSESSMENT

Exposure assessment involves translating the emission rate (e.g., lbs/hr, g/hr) of individual toxic air contaminants into the concentration (e.g., grams/cubic meter g /sec m^2 or parts per million) of each toxic air contaminant. The key step in performing an exposure assessment is the application of an air dispersion model. The dispersion model incorporates the local meteorological data (wind speed, wind direction, local temperature, inversions, etc.), stack height, and exhaust flow characteristics, into the dispersion of individual air contaminant. The Lakes Environmental AERMOD Version 12.0.0 dispersion model was employed for this assessment. The AERMOD output file is shown in Appendix 3.

Modeling Receptors: Receptors were placed at locations of nearby sensitive receptors, including residential and workplace locations. Residential receptors were located at each of the nearby residential receptors, as previously described, as follows:

- A cluster of farmhouses is located along the western portion of the Project site, adjacent to the Project site (to the east of Hansen Road);
- A cluster of residences is located approximately 2,000 feet to the southwest of the Project site;
- Additional scattered residences are located approximately 2,200 to 3,000 feet to the south and southwest of the Project site;
- Residences are located approximately 900 feet to the southeast of the Project site; and
- An additional residence is located approximately 2,650 feet to the southeast of the Project site.

Additionally, workplace receptors were placed at various locations within the Project site, as well as surrounding the Project site boundary. A modified tier grid of receptors of a distance of 25 meters was placed within 500 meters of the approximate center of the Project site, to ensure capture of the maximum on-site workplace receptor. This allows for an analysis of the receptors that have the potential be most affected by the TACs generated by the proposed project. Lastly, a receptor 21 x 21 receptor modeling grid was included in the modeling, at a distance of 350 meters apart, to provide additional resolution to the modeling (it should be noted that although a receptor modeling grid is not required by the SJVAPCD, it provides additional refinement to the TAC risk contours). This approach to modeling receptors is consistent with the SJVAPCD's *Guidance for Air Dispersion Modeling* document, which requires receptor coverage to ensure that the maximum pollutant concentration is captured.

Meteorological Data: Five years of meteorological data was used in the exposure assessment. The meteorological ("Met") data (wind speed, wind direction, temperature, etc.) were recorded at the Tracy, CA location for the latest years of data available from the SJVAPCD. This location was the closest location MET data was available.

Building Downwash: The effects of building downwash on air dispersion from the Project warehouses and the warehouse located just to the north of the Project site (i.e. the Southern Carlson Distribution Center) were modeled within AERMOD.

RISK ASSESSMENT

Once the emissions rates of individual air contaminants have been calculated, and an air dispersion model has been run through AERMOD, the next step in determining health risks is to determine the cancer risk, and acute and chronic incident rates. Period and 1-hour dispersion files we used in combination with HARP-2 risk modelling software to calculate risk scenarios for residential, and workplace cancer rates, as well as acute and chronic incidences. The Hotspots Analysis and Reporting Program (HARP) is a software suite used to assist with the programmatic requirements of the Air Toxics "Hot Spots" Program [Assembly Bill (AB) 2588]. HARP combines the tools needed to implement the requirements of AB 2588, such as reporting a facilities emissions inventory, determining a facilities prioritization score, conducting air dispersion modeling, and performing a facility health risk assessment. This study utilized the HARP2 Air Dispersion and Risk Tool with dispersion plot files created in AERMOD. After the risk assessment was complete, HARP-2 plot files were then imported back into AREMOD for spatial and visual representation, and analysis of impact areas.

The Intake Rate Percentile sets the intake rate at which a person is exposed to the air pollutant. This study utilized the high-end intake rate to assess risk at the 95th percentile exposure rate for risk scenarios (see Appendix 4 HARP-2 project summary report). Additionally, for Project operation, residential cancer risk is assessed using a 70-year exposure duration starting at the third trimester; workplace cancer risks are assessed at a 40-year exposure duration with age 16 being the first potential exposure year. For Projection construction, since the construction schedule would occur over approximately 2 years, residential cancer risk is assessed using a 2-year exposure duration starting at the third trimester; workplace cancer risks are assessed at a 2-year exposure duration with age 16 being the first potential exposure year.

RISK ASSESSMENT RESULTS

The results of the risk analysis indicate that cancer risks vary depending on the exposure scenario (residential or worker) and on location. As would be expected, locations nearest the Project site have the greatest exposure and the associated risks are considerably lower as distance from the project site increases. Table 4 displays the residential and workplace cancer risk, and acute and chronic incidence rate results at nearest receptors. Figure 3 provides wind patterns at the Tracy, CA location where meteorological data was used for the modeling.

TABLE 4: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	*MAXIMUM RISK*	*SIGNIFICANCE THRESHOLD*	*IS THRESHOLD EXCEEDED?*
OPERATIONAL			
Residential Cancer Risk (70-year exposure)	0.72 per million	20 per million	No
Workplace Cancer Risk (40-year exposure)	0.74 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No
CONSTRUCTION			
Residential Cancer Risk (2-year exposure)	0.94 per million	20 per million	No
Workplace Cancer Risk (2-year exposure)	0.07 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No
TOTAL			
Residential Cancer Risk (Aggregate)	1.66 per million	20 per million	No
Workplace Cancer Risk (Aggregrate)	0.81 per million	20 per million	No
Chronic (non-cancer)	<0.01	Hazard Index ≥1	No
Acute (non-cancer) [1]	0	Hazard Index ≥1	No

SOURCES: AERMOD 12.0.0 (LAKES ENVIRONMENTAL SOFTWARE, 2023); AND HARP-2 AIR DISPERSION AND RISK TOOL (VERSION 22118).

The TAC emissions from the project result from the on-site and off-site truck travel, and on-site idling of diesel-fueled vehicles. The nearest sensitive receptors are those that surround the Project site, to the west, southwest, and southeast.

Overall, the results show that the total residential cancer risk would remain below the threshold of 20 in a million at areas near the project site that contain residential receptors, at a total of approximately 1.66 per million (at the location of maximum residential cancer risk). This residential receptor with the maximum overall residential cancer risk is located at 25730 Hansen Road, Tracy, CA 95377, to the west of the Project site. Figure 4 shows the residential operational cancer risk contours surrounding the Project site.

As shown in Figure 3, the wind patterns in the area generally blow from the west to the east. However, since the off-site heavy-duty truck travel is primarily to the west of the Project site (e.g. along Schulte Road), off-site health risks associated with the Project tend to be highest slightly to the west of the Project site. The modeling results show that the residences with the highest risk

are the farmhouses/residences located just west of the Project site, adjacent to the Project site. However, it is very unlikely any individual would remain at the same location for 70 years; therefore, this result represents a conservative estimate.

The results also show that the total workplace cancer risk would also remain below the threshold of 20 in a million, throughout the entire Project site. The workplace receptor with the maximum overall workplace cancer risk is located at the northern entrance to the Project site, along Schulte Road, with a maximum risk of up to 0.81 per million (at the location of maximum workplace cancer risk). However, it is very unlikely that any individual would be located at the northern entrance of the Project site for 40 years; therefore, this result represents a conservative estimate. Figure 5 shows the workplace operational cancer risk contours surrounding the Project site.

Chronic or long-term exposures and Acute exposure to DPM can result is non-cancer health effects. Chronic and Acute Non-Cancer Hazards results show that the acute and chronic risk on and near the project site would remain below the hazard index of ≥1.

FIGURE-1: PROJECT LOCATION

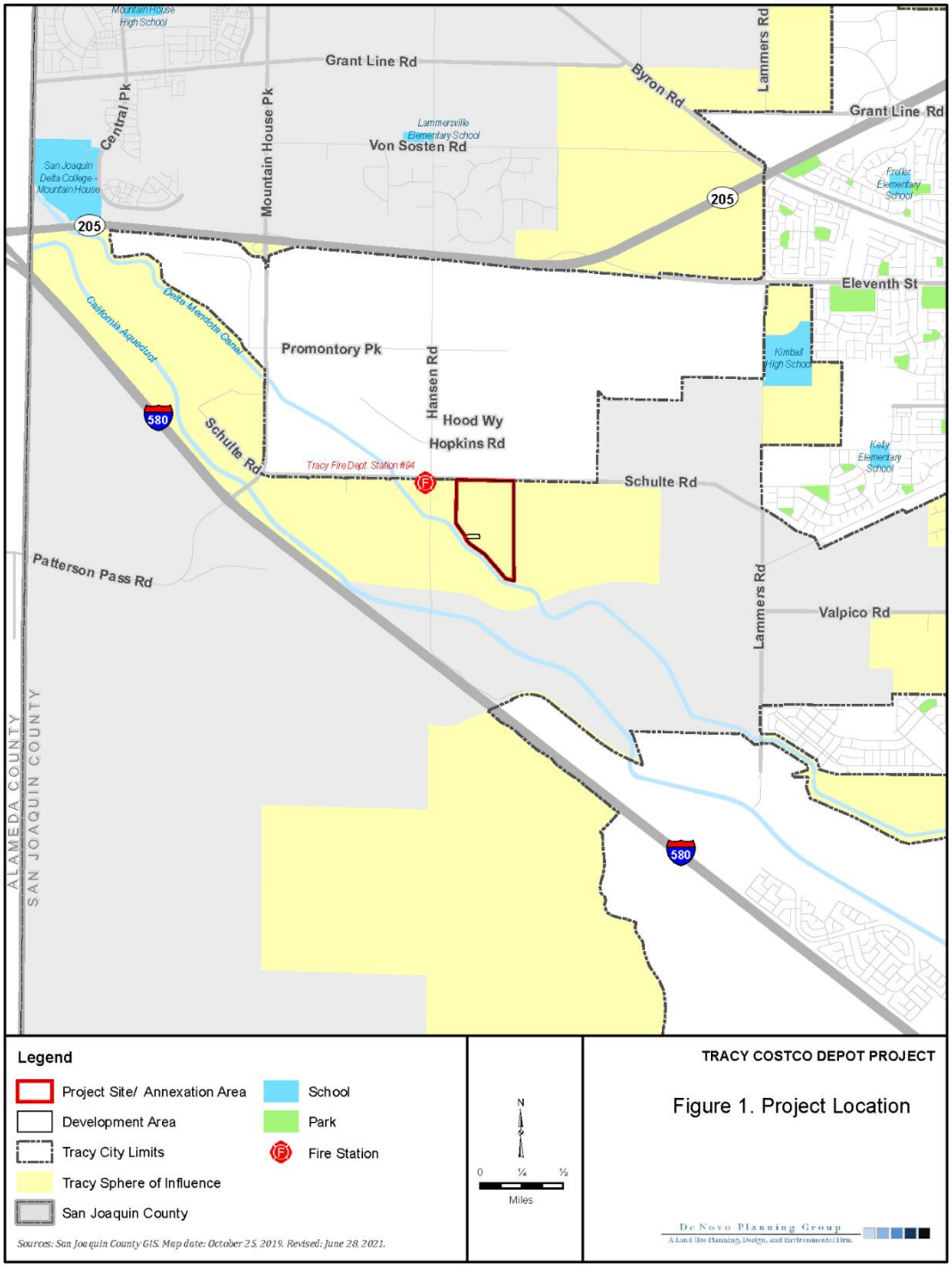

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FIGURE-2: PROJECT SITE PLAN

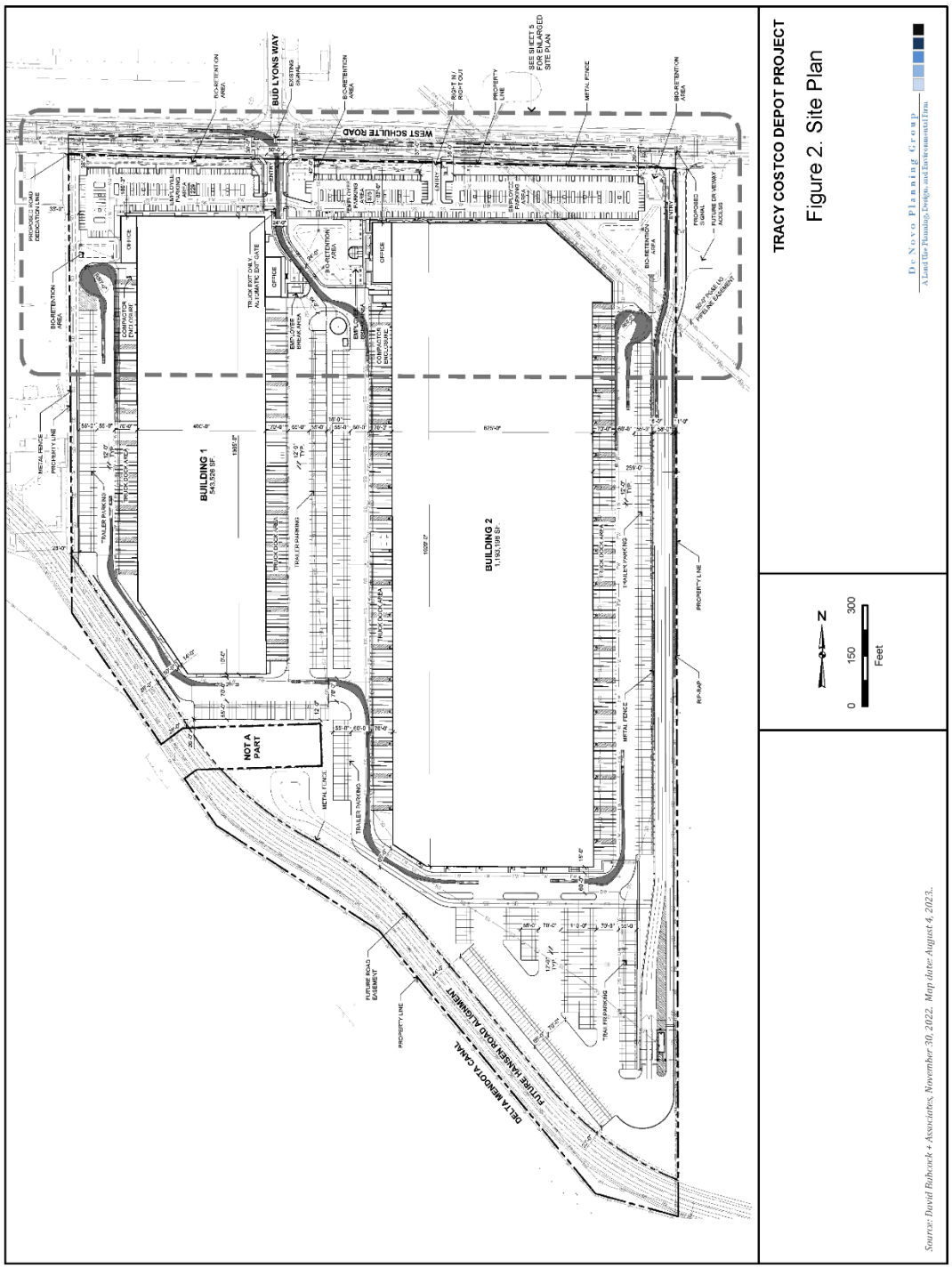

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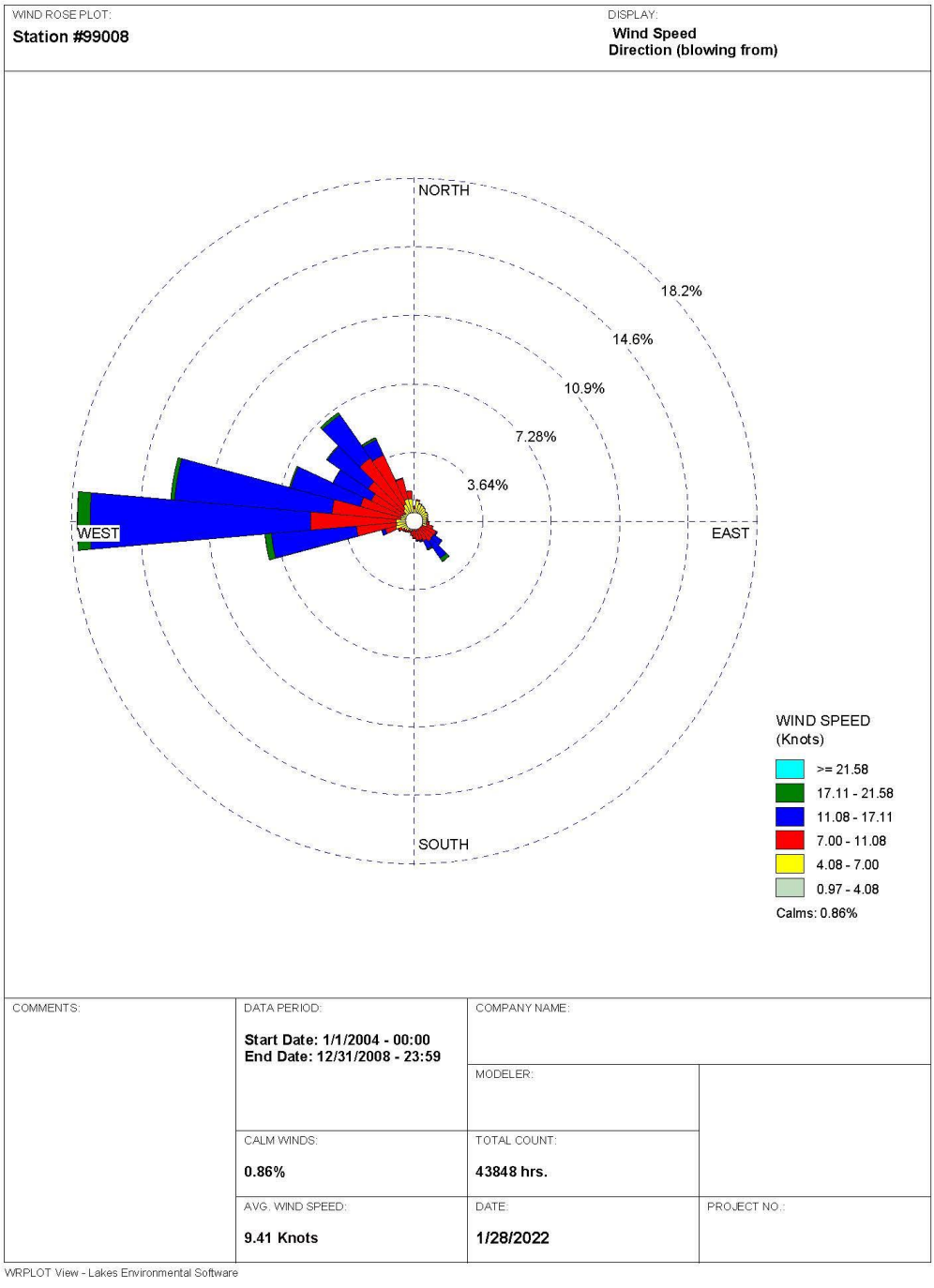
FIGURE-3: WIND PATTERNS (TRACY, CA – 2004-2008) LOCATION



Sources: Prepared by De Novo Planning group (2022); Lakes Environmental AERMOD View 11.2.0

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FIGURE-4: RESIDENTIAL CANCER RISK - OPERATIONAL (95TH PERCENTILE)

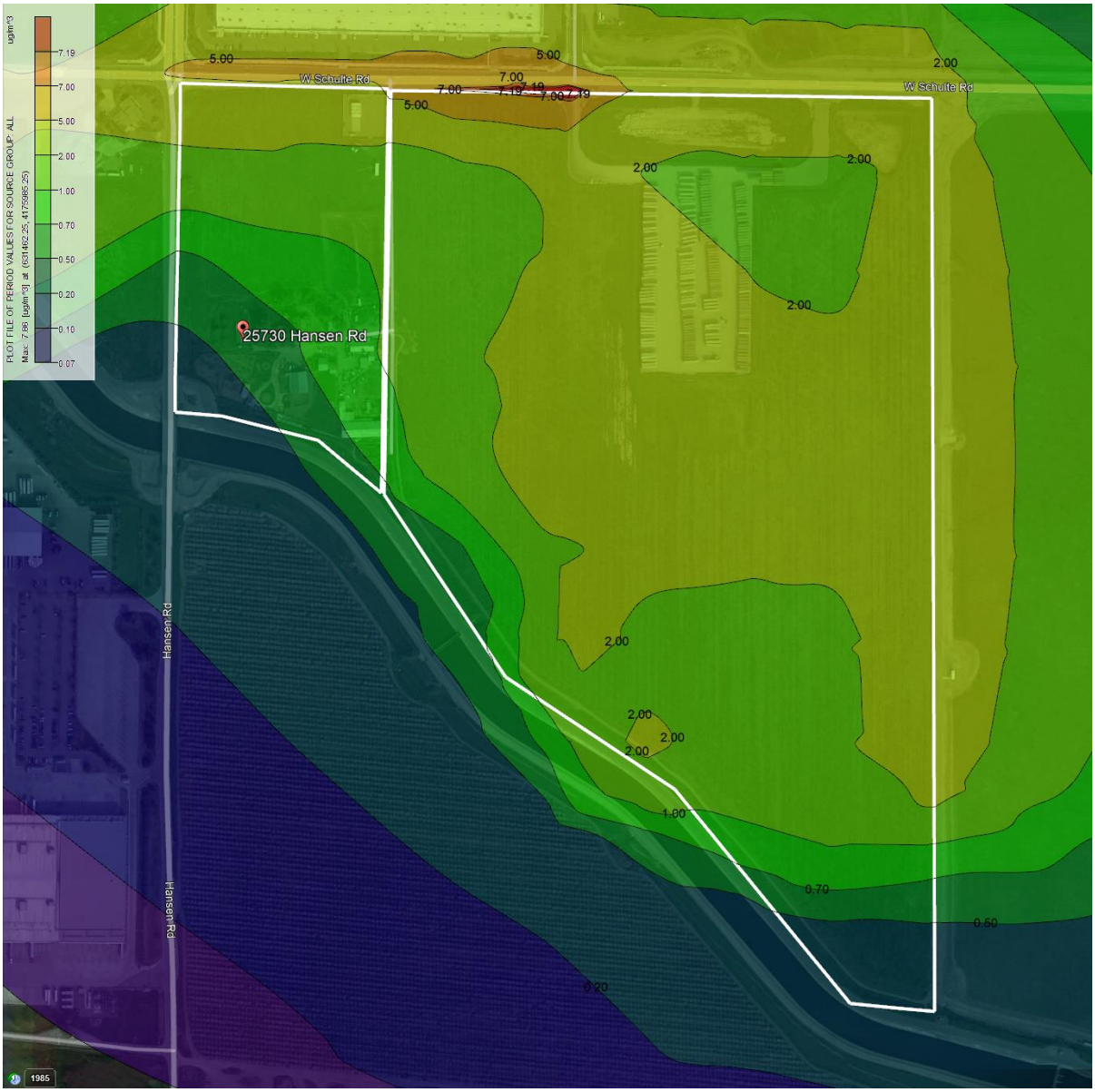

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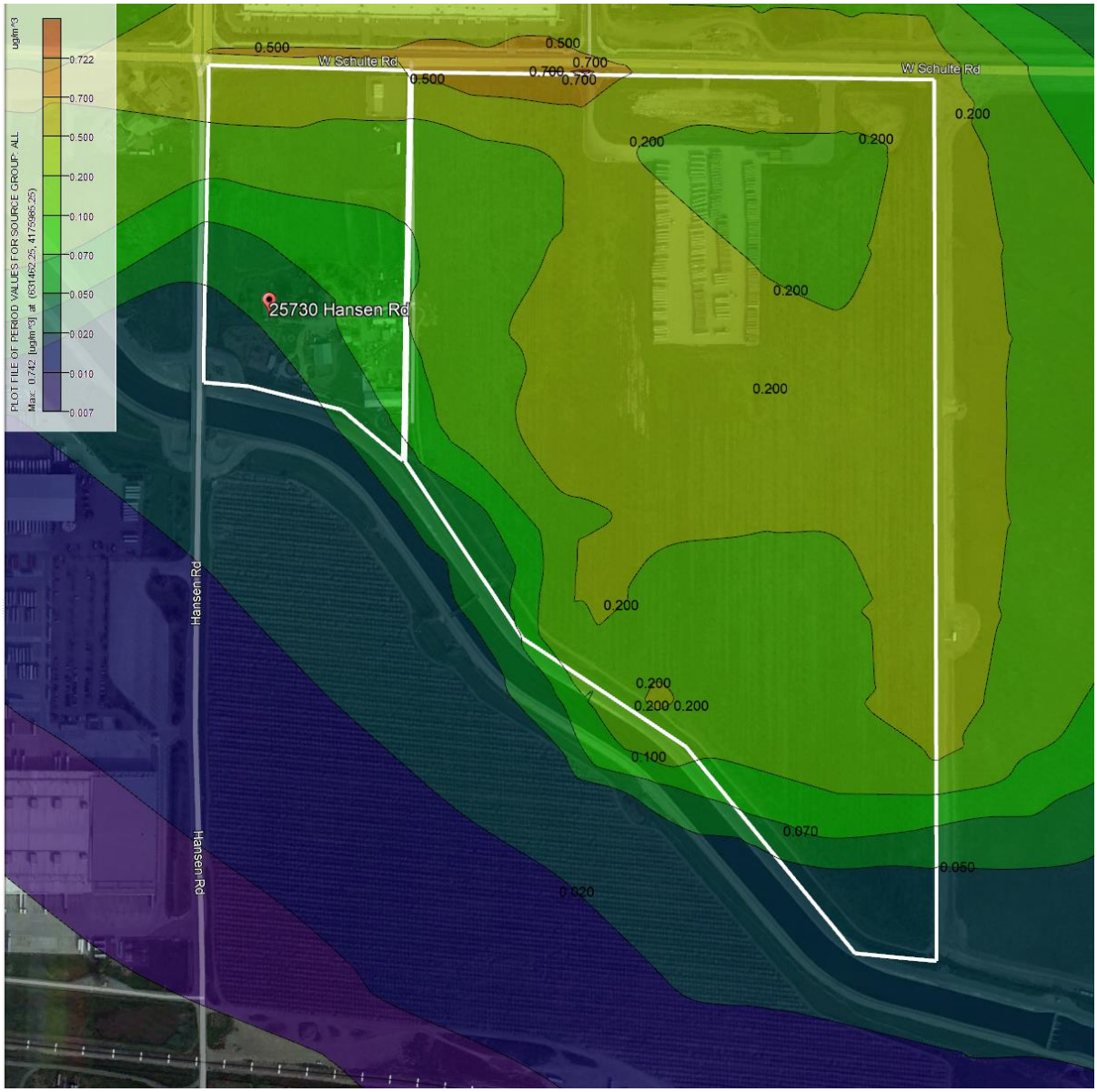
FIGURE-5: WORKPLACE CANCER RISK - OPERATIONAL (95TH PERCENTILE)



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REPORT PREPARERS

This document was prepared by De Novo Planning Group, Inc. of El Dorado Hills under the direction of the City of Tracy. De Novo Planning Group staff participating in document preparation included the following:

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Appendix 1 - Emissions Calculations:

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Joaquin
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	**PM10_IDLEX**
San Joaqui	2025	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	**0.016170576**

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Joaquin
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	PM10_RUNEX
San Joaquin	2025	T7 Tractor Class 8	Aggregate	10	Diesel	1778.14647	**0.008423559**
San Joaquin	2025	T7 Tractor Class 8	Aggregate	40	Diesel	7696.649431	**0.008946645**

Mobile Truck Emissions - On-site Mobile

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:			Source:
1. Distance travelled on-site per truck (line segment)[1]:	1.110701	miles	AERMOD
2. # of trucks per day (total):	612	trucks	Kimley Horn
4. PM10 Mobile Em. Factor (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8:			EMFAC2021 (v1.0.2)
Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class).[2]	**0.00842356**	g/mile	

Therefore:
Total daily PM10 On-site Mobile Emissions Generated by the project:

	5.72590618	**g/day-all trucks**
	0.01262345	lbs/day-all trucks
	4.60755826	**lbs/year-all trucks**

Max Hr Emissions
As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

	0.001774	**lbs/hour-all trucks**

Notes:
[1]This assumes that each truck will travel entire site layout, around the largest of the two buildings (i.e. a highly conservative assumption).
[2]10 MPH Emission factor was utilized for on-site truck travel.

Mobile Truck Emissions - Off-site Mobile - Exit headed West

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:			Source:
1. Distance travelled on-site per truck (line segment):	0.71023	miles	AERMOD
2. # of truck trips per day (exit only)[1]:	612	truck trips	Kimley Horn
3. DPM Mobile EF (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8):			EMFAC2021 (v1.0.2)
Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class).[2]			
	0.00894665	g/mile	

Therefore:
Total daily PM10 On-site Mobile Emissions Generated:

3.88875556	**g/day-all trucks**
0.00857323	lbs/day-all trucks
3.12922832	**lbs/year-all trucks**

Max Hr Emissions
As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.001205	**lbs/hour-all trucks**

Notes:
[1]This represents only half of the total truck trips, as half of the truck trips are 'exit' trips, while the other half are 'entrance trips'.
This line segment calculation only reflects 'exit' trips.
[2]40 MPH Emission factor was utilized for off-site truck travel.

Mobile Truck Emissions - Off-site Mobile - Entrance from West

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:			Source:
1. Distance travelled on-site per truck (line segment):	0.94598	miles	AERMOD
2. # of truck trips per day (entrance only)[1]:	612	truck trips	Kimley Horn
3. DPM Mobile EF (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8):			EMFAC2021 (v1.0.2)
Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class).[2]			
	0.00894665	g/mile	

Therefore:
Total daily PM10 On-site Mobile Emissions Generated by the project:

5.17956857	**g/day-all trucks**
0.01141898	lbs/day-all trucks
4.16792786	**lbs/year-all trucks**

Max Hr Emissions
As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.001605	**lbs/hour-all trucks**

Notes:
[1]This represents only half of the total truck trips, as half of the truck trips are 'exit' trips, while the other half are 'entrance trips'.
This line segment calculation only reflects 'entrance' trips.
[2]40 MPH Emission factor was utilized for off-site truck travel.

Truck Idling

CARB EMFAC2021 idling emission factors for 2025 T7 Tractor Class 8 diesel trucks: PM10 **0.01617058** g/truck per day Source: EMFAC 2021

Note: This is a highly conservative assumption, as it assumes that the average idling per truck per day would occur entirely within the Project site.

612 Total # of trucks per day Source: Kimley Horn

9.89639277 g/day-all trucks

3612.18336 g/year-all trucks

7.96349168 lbs/year-all trucks

pounds per gram: 0.00220462

As provided by the Kimley Horn Traffic Study: 86 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

Annual Emissions:	**0.56882083** lbs/year-all trucks for each of the	**14**	idling points
Max Hr Emissions:	**0.0002190** lbs/hour-peak hour trucks for each of the	**14**	idling points

Construction Emissions (Off-Road Equipment)

365 days per year

Phase	Average Daily PM10		Days	
Site Preparation	0.01	lbs/day	17	Source: CalEEMod (v2022.1)
Phase 1 - Site Finishing (2025)	0.01	lbs/day	42	Source: CalEEMod (v2022.1)
Phase 2 - Site Finishing (2026)	0.02	lbs/day	55	Source: CalEEMod (v2022.1)
Grading (2024)	0.15	lbs/day	125	Source: CalEEMod (v2022.1)
Off-site Grading (2024)	0.005	lbs/day	7	Source: CalEEMod (v2022.1)
Off-site Grading (2025)	0.2	lbs/day	299	Source: CalEEMod (v2022.1)
Phase 1 - Paving (2025)	0.01	lbs/day	37	Source: CalEEMod (v2022.1)
Phase 2 - Paving (2026)	0.005	lbs/day	14	Source: CalEEMod (v2022.1)
Phase 1 - Building Construction (2024)	0.01	lbs/day	8	Source: CalEEMod (v2022.1)
Phase 1 - Building Construction (2025)	0.22	lbs/day	311	Source: CalEEMod (v2022.1)
Phase 2 - Building Construction (2025)	0.005	lbs/day	3	Source: CalEEMod (v2022.1)
Phase 2 - Building Construction (2026)	0.1	lbs/day	200	Source: CalEEMod (v2022.1)
Off-Site Paving (2025)	0.01	lbs/day	48	Source: CalEEMod (v2022.1)
Off-site Improvements (2025)	0.08	lbs/day	163	Source: CalEEMod (v2022.1)
	182.75	**lbs (total)**		

Given 25 months of total construction activities:

87.72 lbs/year (average)

Max Hr Emissions:

0.060082192 lbs/hour

Note: Assumes max hour is six times average rate

Split into 6 sources:

Split into 6 sources:

14.62 lbs/year (average)

Max Hr Emissions:

0.010013699 lbs/hour

Note: Assumes max hour is six times average rate

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Appendix 2 – Trip Generation Technical Memorandum:

Land Uses	Project Size	AM PEAK HOUR			PM PEAK HOUR			Daily[3]
		Total Peak Hour	IN	OUT	Total Peak Hour	IN	OUT	
Trip Generation Rates								
Project Use								
Costco Ecommerce Warehouse[1]	- ksf	0.23	94%	6%	0.05	21%	79%	2.18
Trips Generated								
Building 1	**543.326 ksf**	**125**	**118**	**7**	**27**	**6**	**21**	**1183**
Passenger Cars[2]		*86*	*81*	*5*	*21*	*5*	*16*	*802*
Trucks[2]		*39*	*37*	*2*	*6*	*1*	*5*	*381*
Building 2	**1,201.727 ksf**	**276**	**259**	**17**	**60**	**13**	**47**	**2,617**
Passenger Cars[2]		*190*	*179*	*11*	*47*	*10*	*37*	*1774*
Trucks[2]		*86*	*80*	*6*	*13*	*3*	*10*	*843*
TOTAL		***401***	***377***	***24***	***87***	***19***	***68***	***3,800***
Passenger Cars		***276***	***260***	***16***	***68***	***15***	***53***	***2,576***
Trucks		***125***	***117***	***8***	***19***	***4***	***15***	***1,224***

NOTES

1. Trip generation provided by Kittleson Tracy Costco Depot Transportation Impact Analysis Report (August 28, 2017)

2. ITE guidance for high-cube and warehousing facilities used, 2016. The percentage of passenger car vehicles for Short-Term Storage, Transload, & Cold Storage is the following:
Daily: 67.8%
AM: 69.2%
PM: 78.3%

3. Daily trip rate was calculated based on ratios from ITE LU 154.

Trip Rates

	AM	PM	AM+PM	Daily	AM+PM/Daily
ITE LU 154	0.08	0.1	0.18	1.4	12.9%
Costco	0.23	0.05	0.28	**2.2**	12.9%

Kimley»Horn

MEMORANDUM

From: Frederik Venter, PE and Colin Ogilvie | Kimley-Horn and Associates

To: Robert Armijo, PE | City of Tracy

Date: September 12, 2022

Re: **Costco Direct Delivery Center Traffic Analysis**

---

1. Executive Summary

The proposed Costco Direct Delivery Center (Project) consists of two buildings totaling 1,782,317 square feet of warehouse space located south of Old Schulte Road.

The Project proposes three driveways along Old Schulte Road (two signals and one right-in, right-out).

The project will generate 401 AM and 87 PM peak hour trips. In the AM 30.8% and in the PM 21.7% will be trucks, respectively.

The following sections summarize the findings of this report:

Traffic Review

VMT Analysis

The proposed Costco distribution warehouse project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.4 VMT per Employee. The evaluation tool estimates that the Project would generate 24.8 VMT per Employee, and the Project exceeds the threshold by 164%.

TDM Program

This program recommends TDM measures that would individually reduce the Project's VMT and trips with the goal of obtaining a feasible maximum of 15% VMT reduction. **Table 1** lists the toolbox of potential TDM measures that could partially mitigate the Project's VMT impact. Maximum TDM reductions are provided for each TDM element. The applicant will select specific TDM measures in consultation with the City to mitigate the VMT impact.

This TDM program aims to achieve a feasible maximum of 15% VMT reduction, with the opportunity for 13% VMT reduction coming from the VMT Banking Fee Program as discussed after this section.

For the TDM program, the following TDM measures are being proposed:

1. Commuting Strategies– 1%
    a. Emergency Ride Home (ERH) Program: The Project will provide an occansional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available.
2. Shared Mobility Strategies – 1%
    a. Designated Parking for Car Share Vehicles: The Project will provide preferential parking in convient locations in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share, or use alternatively fueled vehicles.

VMT Banking Fees

The City of Tracy VMT Banking Fee Program is a programmatic approach to respond to the need for feasible VMT mitigation programs. Programmatic approaches that rely on collectively funding larger projects allow a project to obtain an amount of mitigation commensurate with their impact, include only a single payment without the complexity of ongoing management, and do not require on-going mitigation monitoring. Programmatic approaches can also provide a public benefit in terms of funding transportation improvements that would not otherwise be constructed, resulting in improvements to congestion, GHG emissions, increased transportation choices, and additional opportunities for active transportation.

The VMT Banking Fee Program calculates the cost per VMT reduction as $633.11. Therefore, to achieve a the 13% reduction needed after implementation of the TDM program, the project would be responsible to pay $510,286.66. This is calculated as 13% being equivalent to a 3.224 VMT per employee reduction. Since there are 250 employees and each employee needs to reduce by 3.224 VMT at a cost of $633.11 per VMT the calculation is as follows:

VMT Banking Fee = 250 employees x 3.224 VMT per employee x $633.11 per VMT = $510,286.66

The VMT banking fee calculation has been provided in **Table 2**. In case that the VMT Banking Fee Program is not in place, the TDM program will need to achieve the full 15% reduction.

Table 1 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
Parking Strategies				
Reduce Parking Supply	Reduce the number of available parking spots provided to employees.	1%		0%
Unbundle Parking	Remove free parking at the site, and charge employees for parking. The higher the cost of parking, the higher the reduction.	1%		0%
Parking Cash-out	Provide employees a choice of forgoing current parking for a cash payment to be determined by the employer. The higher the cash payment and eligible employees, the higher the reduction.	2%		0%
Transit Strategies				
Transit Stops	Coordinate with local transit agency to provide bus stop near the site. Real time transportation information displays support on-the-go decision making to support sustainable trip making.	1%		0%
Implement Neighborhood Shuttle	Implement project-operated or project-sponsored neighborhood shuttle serving residents, employees, and visitors of the project site	2%		0%
Transit Subsidies	Involves the subsidization of transit fare for residents and employees of the project site. This strategy assumes transit service is already present in the project area. Pays for employees to use local transit. This could either be a discounted ticket or a full-reimbursed transit ticket.	2%		0%
Communication & Information Strategies				
Travel Behavior Change Program	Involves the development of a travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. Provide a web site that allows employees to research other modes of transportation for commuting. Employee-focused travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. DIBS	1%		0%
Promotions & Marketing	Involves the use of marketing and promotional tools to educate and inform travelers about site-specific transportation options and the effects of their travel choices with passive educational and promotional materials. Marketing and public information campaign to promote awareness of TDM program with an on-site coordinator to monitor program. DIBS	1%		0%
Commuting Strategies				
Employer Sponsored Vanpool or Shuttle	Implementation of employer-sponsored employee vanpool or shuttle providing new opportunities for access to connect employees to the project site.	2%		0%
Emergency Ride Home (ERH) Program	Provide an occasional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available. DIBS	1%	x	1%
Telecommuting Alternative work schedule	Four-Ten work schedule results in 20% weekly VMT reduction, 10% trip reduction equals 15% VMT reduction	7%		0%
On-site Childcare	Provide on-site childcare to remove the need to drive a child to daycare at a separate location.	1%		0%
Shared Mobility Strategies				
Ride Share Program	Increase vehicle occupancy by providing ride-share matching services, designating preferred parking for ride-share participants, designing adequate passenger loading/unloading	2%		0%

Table 1 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
	and waiting areas for ride-share vehicles, and providing a website or message board to connect riders and coordinate rides. Need a point person for the business on-site			
Employee/Employer Car Share	Implement car sharing to allow people to have on-demand access to a vehicle, as-needed. This may include providing membership to an existing program located within 1/4 mile, contracting with a third-party vendor to extend membership-based service to an area, or implementing a project-specific fleet that supports the residents and employees on -site.	1%		0%
	Provide an on-site car vehicle for employees to use for short trips. This allows for employees to run errands or travel for lunch.	1%		0%
Designated Parking Spaces for Car Share Vehicles	Reserved car share spaces closer to the building entrance.	1%	x	1%
Bicycle Infrastructure Strategies				
Bike Share Program	Participate in a bike share program/On site bike share program	1%		0%
Implement/Improve On-street Bicycle Facility	Implement or provides funding for improvements to corridors and crossings for bike networks identified within a one-half mile buffer area of the project boundary, to support safe and comfortable bicycle travel.	1%		0%
Include Bike Parking Per City Code	Implement short and long-term bicycle parking to support safe and comfortable bicycle travel by providing parking facilities at destinations	1%		0%
Include Secure Bike Parking and Showers	Implement additional end-of-trip bicycle facilities to support safe and comfortable bicycle travel.	1%		0%
Bicycle Repair Station / Services	On-site bicycle repair tools and space to use them supports on-going use of bicycles for transportation.	1%		0%
Neighborhood Enhancement Strategies				
Traffic Calming Improvements	Implement traffic calming improvements on streets and intersections throughout and around the project site.	1%		0%
Pedestrian Network Improvements	Implement pedestrian network improvements throughout and around the project site that encourages people to walk.	2%		0%
Miscellaneous Strategies				
Virtual Care Strategies for Hospitals	Implement options for virtual care for health services for hospitals.	2%		0%
On-Site Affordable Housing	Provide a percentage of on-site affordable housing for employees that is less than 100%.	1%		0%
Job Creation Land Use (e.g. Office)	Provide offices or other job creation land use. Applies to housing projects.	3%		0%

Table 2 – VMT Banking Fees Calculations

Project Building Area (ksf)	1,745.1
Employees per ksf	
Project Employees	250
Project VMT/EMP	24.8
Project Total Employee VMT	6,200.0
Project VMT/EMP Difference	164%
TDM %	2%
Banking Fee %	13%
Project Total Employee VMT Reduction for Fee Calculation	806.0
Project Total Employee VMT/EMP Reduction for Fee Calculation	3.224
Banking Fee $	**$ 510,286.66**

Background Plus Project

Deficiencies in LOS operations, exacerbated or caused by the project, will either be fully or partially eliminated by implementing the following improvements for Background conditions. Background conditions include Existing plus approved project traffic on the study road network. All improvements listed were also identified in the Cordes Phase 2nd Consistency Analysis (June 2020) except for Intersection #11 which is triggered by the Costco project.

- Intersection #1 - International Parkway & I-205 Westbound Ramps (AM Peak Hour)
  - Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.
  - AM intersection operations improve from an LOS F to a LOS A.
- Intersection #3 - International Parkway & Old Schulte Road (AM and PM Peak Hours)
  - Per the *Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA*, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.
  - Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #4 - International Parkway & I-580 Westbound Ramps (AM and PM Peak Hours)
  - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.
  - Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #5 - International Parkway & I-580 Eastbound Ramps (AM and PM Peak Hours)

  - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.
  - Refer to the FTOAR for more information regarding LOS improvements.
- Intersection #6 - Hansen Road & Old Schulte Road (AM Peak Hour)
  - Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.
  - AM intersection operations improve from LOS E to LOS C.
- Intersection #11 – Lammers Road & Old Schulte Road (AM Peak Hour)
  - Provide an overlap phase for the eastbound right turn.
  - AM intersection operations improve from LOS E to LOS D.
- Intersection #12 - Lammers Road & Western Pacific Way (AM Peak Hour)
  - Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.
  - AM intersection operations improve from LOS F to LOS C.
- Intersection #13 - Lammers Road & Valpico Road (AM Peak Hour)
  - Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.
  - AM intersection operations improve from LOS F to LOS C
- The project shall, at a minimum, provide emergency access to the future Hansen Road. It is anticipated that the property immediately west of the Project site (APN 209-23-025) may develop in the near future and that Hansen Road will be extended to Old Schulte Road.

Table 3 provides a summary of improvements as well as the Costco Obligations for the Background Plus Project Conditions.

Cumulative Plus Project

No additional improvements have been identified for Cumulative Conditions, The Project will, however, pay the City TIF fees.

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Table 3 – Costco Obligations (Background Plus Project Conditions)

Costco Intersection #	Intersection /Location	Peak Hour	Background Plus Project Conditions		
			Improvement	Recommended Costco Improvement?	Costco Project Obligation
1	International Pkwy & I-205 WB Ramps	AM	Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
3	International Pkwy & Old Schulte Rd	AM & PM	Per the *Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA*, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
4	International Pkwy & I-580 WB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
5	International Pkwy & I-580 EB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
6[1]	Hansen Road & Old Schulte Rd	AM	Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.	Y	Costco to implement
11	Lammers Rd & Old Schulte Rd	AM	Provide an overlap phase for the eastbound right turn.	Y	Costco to implement
12[1]	Lammers Rd & Western Pacific Way	AM	Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.
13	Lammers Rd & Valpico Rd	AM	Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.

Notes:

1. Costco will construct improvement if not already implemented by another development. This improvement is anticipated to be included in the City of Tracy Transportation Master Plan (TMP) Fee Program Update. If included, Costco could receive reimbursement for improvements within the fee program.
2. Kimley-Horn traffic study identified TIF, this is not reflected in the conditions.

Engineering Review

Table 4 provides the summary of the engineering comments for the Project.

Table 4 – Engineering Review Summary

Section	Recommendations/Comments
Driveway Access Review	• Driveway #1 - Revise striping to the following: 1 left turn and 1 through/right turn lane. • Driveway #2 - Provide Stop (R1-1), Right Turn Only (R3-5R), and One Way (R6-1) signage. • Driveway #3 - A left turn lane and a right turn pocket are needed for the signal. • Emergency vehicle access(es) may be required off Hansen Road.
Internal Circulation Review	• Approximately 100 feet is provided between Old Schulte Road and the internal drive aisle. This is only enough space for 4 passenger car vehicles or 1 STAA and 1 passenger car vehicle per lane. Since this is the only location where a passenger car can perform a left turn out of the site, this is not adequate during the shift change peaks. To alleviate congestion at this point, it is recommended to provide an eastbound U-turn lane (that could potentially convert to a future left turn lane) at the Old Schulte Road and Project Driveway #3 signalized intersection. • At Project Driveway #1, the northern internal crosswalk should be removed as this will conflict with vehicles entering and exiting the Project. This crossing should occur at the signal instead or at the southern internal crosswalk. • Provide a three way stop at the Project Driveway #1 internal intersection with the inbound movement as the free movement. • No project detail is known for the eastern adjacent parcel that will share Project Driveway #3. The cross access shown will be reviewed in the future, once a development application is submitted for the adjacent parcel. • Provide clear signage and/or pavement markings for trucks entering Project Driveway #3 that designates security versus bypass lanes. • Provide truck turning templates at reverse curve within Project Driveway #3.
Vehicle Turning Templates	• STAA trucks are unable to perform northbound right turn at Driveways #1. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site. • STAA trucks are unable to perform eastbound and northbound right turns at Driveways #3. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site. • A westbound left turn must be provided at Driveway #3 and it must accommodate a STAA truck turning template.
External Network Review	• Provide more detail on the transitions between existing conditions on both the east and west end of the Project limits. • Provide the striping at the intersection of Old Schulte Road and Project Driveway #3. This approach must include a westbound left turn pocket that can accommodate a CA-STAA truck. • Revise the signing and striping for the southbound movement at Old Schulte Road and Bud Lyons Way. Provide one left turn and one through/right lane. • The Westbound right turn lane at the intersection of Old Schulte Road and Bud Lyons is existing and should be shown on the plan set. • Provide eastbound shoulder stripe. • Lengthen the westbound left turn lane at Project Driveway #1 to accommodate 375 feet of deceleration and 150 feet of storage. • Emergency vehicles access(es) may be required off Hansen Road. In addition, the City typically requires all street frontage improvements to be constructed by the Project developer.

2. Introduction

This memorandum presents a traffic review of the Costco Direct Delivery Center (Project) located south of Old Schulte Road (West Schulte Road) and north of the proposed Hansen Road Extension in Tracy, California. The Project consists of two warehouse buildings:

- Building 1: 543,326 Square Feet
- Building 2: 1,201,727 Square Feet
- Total: 1,745,053 Square Feet

Figure 1 provides a Project vicinity map. The Project is located on agricultural land in the City of Tracy Sphere of Influence. Adjacent development includes industrial uses in the County of San Joaquin and Cordes Ranch. Regional access to the site is via I-205 and I-580 via the Mountain House and Patterson Pass interchanges, respectively. Additional industrial development is also occurring to the east of the Project site, and the future Westside Specific Plan area is located to the northeast of the site. The Project will be annexed into the City.

The Project site plan is shown in **Figure 2**. The Project proposes three access points along Old Schulte Road (two signals and one right-in, right-out) and none along the future Hansen Road.

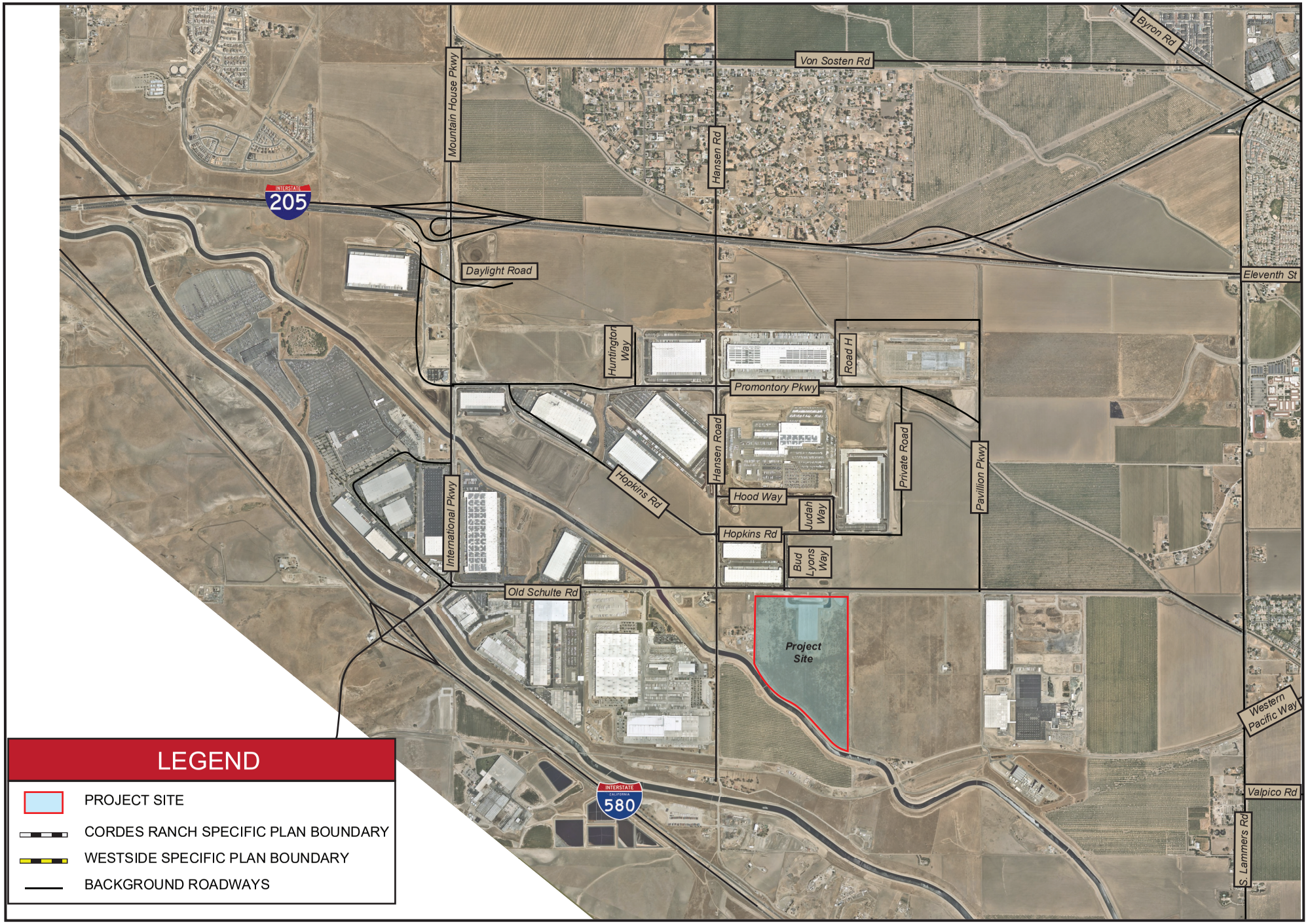

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Figure 1

Project Vicinity Map

Costco Depot Traffic Analysis

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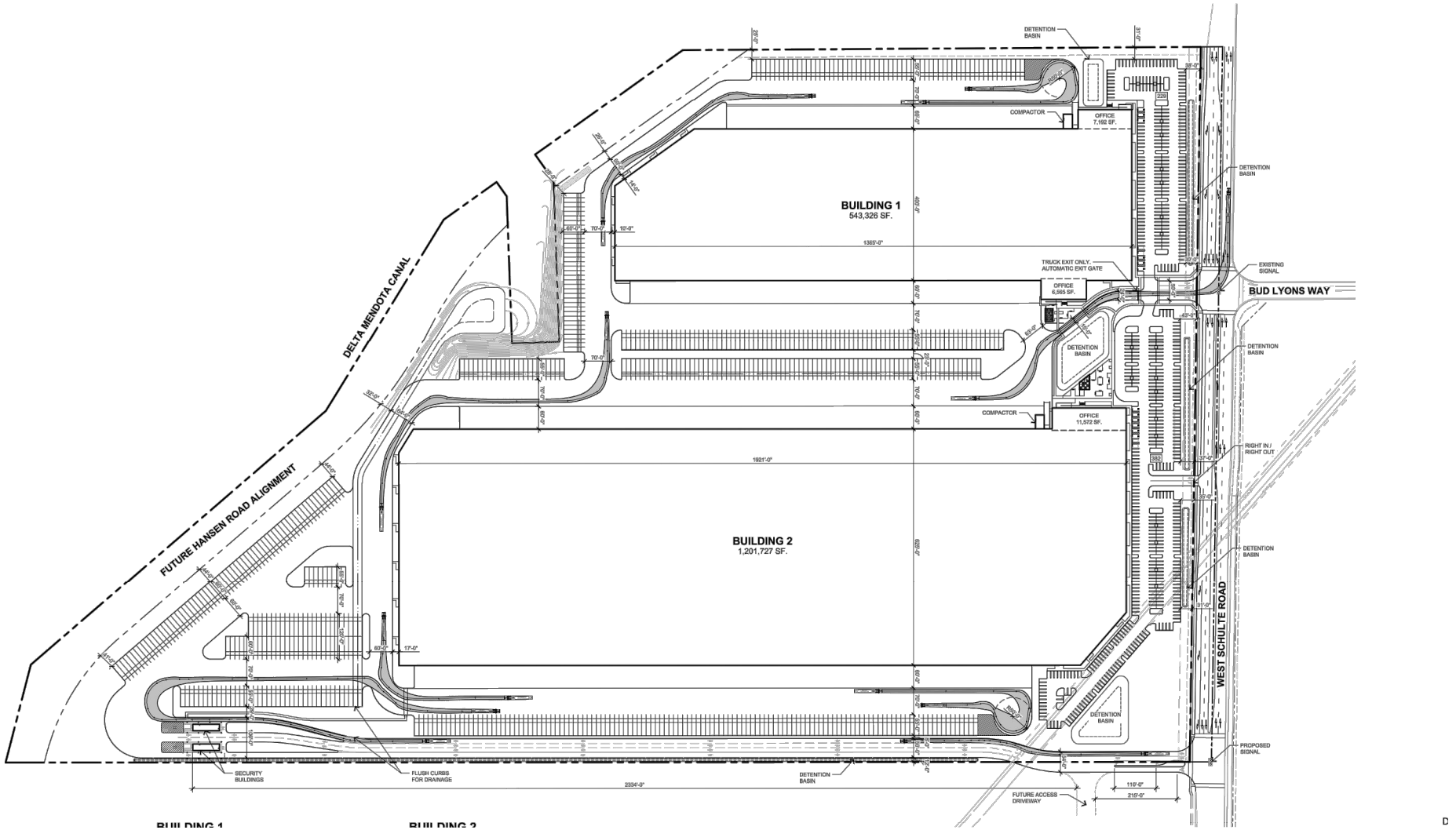

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Figure 2

Project Site Plan

Tracy Costco Direct Delivery Center

3. VMT Analysis

VMT Calculations

In 2018, the California state legislature, in approving Senate Bill (SB) 743, directed the Office of Planning and Research to develop guidelines for assessing transportation impacts based on vehicle miles traveled, or VMT. In response to SB 743, CEQA and its implementing guidelines (CEQA Guidelines) were significantly amended regarding the methods by which lead agencies are to evaluate a project's transportation impacts. As described in CEQA Guidelines Section 15064.3(a):

Generally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, "vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact.

This section of the Guidelines continues to set forth the criteria for analyzing transportation impacts. Currently, the City is studying their own thresholds, but none have been adopted.

In 2013, SB 743 was signed into law by California Governor Jerry Brown with a goal of reducing Greenhouse Gas (GHG) emissions, promoting the development of infill land use projects and multimodal transportation networks, and to promote a diversity of land uses within developments. One significant outcome resulting from this statue is the removal of automobile delay and congestion, commonly known as Level of Service (LOS), as a basis for determining significant transportation impacts under the California Environmental Quality Act (CEQA).

The Governor's Office of Planning and Research (OPR) has documented recommended analysis guidelines for SB 743 in its *Technical Advisory on Evaluating Transportation Impacts in CEQA* (2018) which provides for Vehicle Miles Traveled (VMT) as the principal measure to replace LOS for determining significant transportation impacts. VMT is a measure of total vehicular travel that accounts for the number of vehicle trips and the length of those trips. OPR selected VMT, in part, because jurisdictions are already familiar with this metric. VMT is already used in CEQA to study other potential impacts such as Greenhouse Gases (GHG), air quality, and energy impacts and is used in planning for regional Sustainable Communities Strategies (SCS).

VMT also allows for an analysis of a project's impact throughout the City rather than only in the vicinity of the proposed project, allowing for a better understanding of the full extent of a project's transportation-related impact. It should be noted that SB 743 still allows the City of Tracy to use LOS for other planning purposes outside the scope of CEQA.

Understanding how the local roadway network functions from an engineering standpoint is still critical to local land use agencies to monitor traffic flow, identify safety issues, establish fees and manage congestion. However, for the purposes of evaluating environmental impacts under CEQA, the new regulations have removed congestion from the range of required subjects analyzed within CEQA documents.

The proposed Costco Direct Delivery Center project was evaluated using the City of Tracy VMT Calculator. For the surrounding industrial land use area, the City's threshold is 9.4 VMT per Employee. The evaluation

tool estimates that the Project would generate 24.8 VMT per Employee, and the Project exceeds the threshold by 164%.

Per the City's VMT threshold and SB 743 guidelines, the Project causes a significant transportation impact. For projects that would cause a VMT impact, VMT reduction strategies such as introducing transportation demand management (TDM), or additional multimodal infrastructure can be implemented to reasonably mitigate the VMT impact which is estimated from research literature and case studies.

Potential Mitigations

The Project exceeds the City threshold by 164% and this reduction is not feasible. The California Air Pollution Control Officers Association (CAPCOA) indicates that up to 15% of VMT reduction can reasonably be achieved. The Project has the option to "purchase" additional VMT from the VMT banking fee above 15%. For the purpose of this report, a maximum of 15% is assumed.

TDM Program

This program recommends TDM measures that would individually reduce the Project's VMT and trips with the goal of obtaining a feasible maximum of 15% VMT reduction. **Table 5** lists the toolbox of potential TDM measures that could partially mitigate the Project's VMT impact. Maximum TDM reductions are provided for each TDM element. The applicant will select specific TDM measures in consultation with the City to partially mitigate the VMT impact.

This TDM program aims to achieve a feasible maximum of 15% VMT reduction, with the opportunity for 13% VMT reduction coming from the VMT Banking Fee Program as discussed after this section. In the case that the VMT Banking Fee is not in place, the TDM program will need to achieve the full 15% reduction.

For the TDM program, the following TDM measures are being proposed:

1. Commuting Strategies– 1%
    a. Emergency Ride Home (ERH) Program: The Project will provide an occansional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available.
2. Shared Mobility Strategies – 1%
    a. Designated Parking for Car Share Vehicles: The Project will provide preferential parking in convient locations in terms of free or reduced parking fees, priority parking, or reserved parking for commuters who carpool, vanpool, ride-share, or use alternatively fueled vehicles.

VMT Banking Fees

The City of Tracy VMT Banking Fee Program is a programmatic approach to respond to the need for feasible VMT mitigation programs. Programmatic approaches that rely on collectively funding larger projects allow a project to obtain an amount of mitigation commensurate with their impact, include only a single payment without the complexity of ongoing management, and do not require on-going mitigation monitoring. Programmatic approaches can also provide a public benefit in terms of funding transportation

improvements that would not otherwise be constructed, resulting in improvements to congestion, GHG emissions, increased transportation choices, and additional opportunities for active transportation.

The VMT Banking Fee Program calculates the cost per VMT reduction as $633.11. Therefore, to achieve a the 13% reduction needed after implementation of the TDM program, the project would be responsible to pay $510,286.66. This is calculated as 13% being equivalent to a 3.224 VMT per employee reduction. Since there are 250 employees and each employee pneeds to reduce by 3.224 VMT at a cost of $633.11 per VMT the calculation is as follows:

VMT Banking Fee = 250 employees x 3.224 VMT per employee x $633.11 per VMT = $510,286.66

The VMT banking fee calculation has been provided in **Table 6**.

Table 5 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
Parking Strategies				
Reduce Parking Supply	Reduce the number of available parking spots provided to employees.	1%		0%
Unbundle Parking	Remove free parking at the site, and charge employees for parking. The higher the cost of parking, the higher the reduction.	1%		0%
Parking Cash-out	Provide employees a choice of forgoing current parking for a cash payment to be determined by the employer. The higher the cash payment and eligible employees, the higher the reduction.	2%		0%
Transit Strategies Strategies				
Transit Stops	Coordinate with local transit agency to provide bus stop near the site. Real time transportation information displays support on-the-go decision making to support sustainable trip making.	1%		0%
Implement Neighborhood Shuttle	Implement project-operated or project-sponsored neighborhood shuttle serving residents, employees, and visitors of the project site	2%		0%
Transit Subsidies	Involves the subsidization of transit fare for residents and employees of the project site. This strategy assumes transit service is already present in the project area. Pays for employees to use local transit. This could either be a discounted ticket or a full-reimbursed transit ticket.	2%		0%
Communication & Information Strategies				
Travel Behavior Change Program	Involves the development of a travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. Provide a web site that allows employees to research other modes of transportation for commuting. Employee-focused travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. DIBS	1%		0%
Promotions & Marketing	Involves the use of marketing and promotional tools to educate and inform travelers about site-specific transportation options and the effects of their travel choices with passive educational and promotional materials. Marketing and public information campaign to promote awareness of TDM program with an on-site coordinator to monitor program. DIBS	1%		0%
Commuting Strategies				
Employer Sponsored Vanpool or Shuttle	Implementation of employer-sponsored employee vanpool or shuttle providing new opportunities for access to connect employees to the project site.	2%		0%

Table 5 – TDM Measures

Transportation Demand Management Measure	Description	Max VMT Reduction	Applicant Preferred Measure	VMT Reduction Applied
Emergency Ride Home (ERH) Program	Provide an occasional subsidized ride to commuters who use alternative modes. Guaranteed ride home for people if they need to go home in the middle of the day due to an emergency or stay late and need a ride at a time when transit service is not available. DIBS	1%	x	1%
Telecommuting Alternative work schedule	Four-Ten work schedule results in 20% weekly VMT reduction, 10% trip reduction equals 15% VMT reduction	7%		0%
On-site Childcare	Provide on-site childcare to remove the need to drive a child to daycare at a separate location.	1%		0%
Shared Mobility Strategies				
Ride Share Program	Increase vehicle occupancy by providing ride-share matching services, designating preferred parking for ride-share participants, designing adequate passenger loading/unloading and waiting areas for ride-share vehicles, and providing a website or message board to connect riders and coordinate rides. Need a point person for the business on-site	2%		0%
Employee/Employer Car Share	Implement car sharing to allow people to have on-demand access to a vehicle, as-needed. This may include providing membership to an existing program located within 1/4 mile, contracting with a third-party vendor to extend membership-based service to an area, or implementing a project-specific fleet that supports the residents and employees on -site.	1%		0%
	Provide an on-site car vehicle for employees to use for short trips. This allows for employees to run errands or travel for lunch.	1%		0%
Designated Parking Spaces for Car Share Vehicles	Reserved car share spaces closer to the building entrance.	1%	x	1%
Bicycle Infrastructure Strategies				
Bike Share Program	Participate in a bike share program/On site bike share program	1%		0%
Implement/Improve On-street Bicycle Facility	Implement or provides funding for improvements to corridors and crossings for bike networks identified within a one-half mile buffer area of the project boundary, to support safe and comfortable bicycle travel.	1%		0%
Include Bike Parking Per City Code	Implement short and long-term bicycle parking to support safe and comfortable bicycle travel by providing parking facilities at destinations	1%		0%
Include Secure Bike Parking and Showers	Implement additional end-of-trip bicycle facilities to support safe and comfortable bicycle travel.	1%		0%
Bicycle Repair Station / Services	On-site bicycle repair tools and space to use them supports on-going use of bicycles for transportation.	1%		0%
Neighborhood Enhancement Strategies				
Traffic Calming Improvements	Implement traffic calming improvements on streets and intersections throughout and around the project site.	1%		0%
Pedestrian Network Improvements	Implement pedestrian network improvements throughout and around the project site that encourages people to walk.	2%		0%
Miscellaneous Strategies				
Virtual Care Strategies for Hospitals	Implement options for virtual care for health services for hospitals.	2%		0%
On-Site Affordable Housing	Provide a percentage of on-site affordable housing for employees that is less than 100%.	1%		0%
Job Creation Land Use (e.g. Office)	Provide offices or other job creation land use. Applies to housing projects.	3%		0%

Table 6 – VMT Banking Fees Calculations

Project Building Area (ksf)	1,745.1
Employees per ksf	
Project Employees	250
Project VMT/EMP	24.8
Project Total Employee VMT	6,200.0
Project VMT/EMP Difference	164%
TDM %	2%
Banking Fee %	13%
Project Total Employee VMT Reduction for Fee Calculation	806.0
Project Total Employee VMT/EMP Reduction for Fee Calculation	3.224
Banking Fee $	**$ 510,286.66**

4. Analysis Methodology

Study Intersections

The following intersections were analyzed for this study:

1. International Pkwy & I-205 WB Ramps
2. International Pkwy & I-205 EB Ramps
3. International Pkwy & Old Schulte Rd
4. International Pkwy & I-580 WB Ramps
5. International Pkwy & I-580 EB Ramps
6. Hansen Rd & Old Schulte Rd
7. Bud Lyons Wy/Project Driveway #1 & Old Schulte Rd
8. Project Driveway #2 & Old Schulte Rd
9. Project Driveway #3 & Old Schulte Rd
10. Pavillion Pkwy & Old Schulte Rd
11. Lammers Rd & Old Schulte Rd
12. Lammers Rd & Western Pacific Wy
13. Lammers Rd & Valpico Rd

These intersections were selected based on the City threshold established in the City of Tracy Transportation Master Plan and the General Plan. The intersection analysis will not be used for CEQA purposes but only for conditions of approval for implementing engineering improvements.

Study Conditions

The following scenarios were analyzed to determine if the Project causes study intersections to degrade to an unacceptable level of service (LOS):

- **Background Conditions** – represents the following:
    - Existing traffic counts
        - May 2019 traffic counts

        - One supplemental count at Old Schulte Road and Bud Lyons Way was collected on November 19, 2020 from 5:00 AM to 8:00 AM and 3:00 PM to 6:00 PM while the COVID-19 pandemic and associated shelter in place restrictions were in effect. The industrial facilities near the count location were operational and counts were reviewed against pre-pandemic volumes and deemed acceptable to use for this study.
    - Plus Approved but unconstructed projects' traffic volumes
        - Cordes Ranch Scheme 170A Transportation Impact Analysis dated November 1, 2017
        - Cordes Ranch 2nd Consistency Analysis (Phase 1K) Traffic Study Memorandum dated June 30, 2020
- **Background Plus Project Conditions** – represents Background Conditions plus traffic generated by the proposed Project
- **Cumulative Conditions** – represents the following:
    - Future 2035 volumes derived from the City of Tracy Travel Demand Model, excluding the Project site traffic
    - Plus Project trips from the Cordes Ranch 2nd Consistency Analysis (Phase 1K) Traffic Study Memorandum dated June 30th, 2020
- **Cumulative Plus Project Conditions** – represents Cumulative Conditions along with traffic generated by the proposed Project

5. Background Conditions

Background Conditions are based on Existing Conditions traffic volumes plus traffic generated by approved but unconstructed projects. Background Conditions also assumed an updated roadway network reflecting the Cordes Ranch Phase 1K street improvement plan.

The Background Conditions roadway network is shown in **Figure 3**. The Background Conditions lane geometry is shown in **Figure 4** and traffic volumes are shown in **Figure 5**.

Results of the Background Conditions level of service analysis are presented in **Table 7**. All intersections operated at acceptable levels of service except for the following:

- Intersection #1 - International Pkwy & I-205 WB Ramps (AM Peak Hour)
- Intersection #3 - International Pkwy & Old Schulte Rd (AM and PM Peak Hours)
- Intersection #4 - International Pkwy & I-580 WB Ramps (AM and PM Peak Hours)
- Intersection #5 - International Pkwy & I-580 EB Ramps (AM and PM Peak Hours)
- Intersection #6 - Hansen Rd & Old Schulte Rd (AM Peak Hour)
- Intersection #7 - Bud Lyons Wy/Project Driveway #1 & Old Schulte Rd (AM Peak Hour)
- Intersection #10 - Pavillion Pkwy & Old Schulte Rd (AM Peak Hour)
- Intersection #12 - Lammers Rd & Western Pacific Wy (AM Peak Hour)
- Intersection #13 - Lammers Rd & Valpico Rd (AM Peak Hour)

Analysis output sheets for Background Conditions are provided in the **Appendix**.

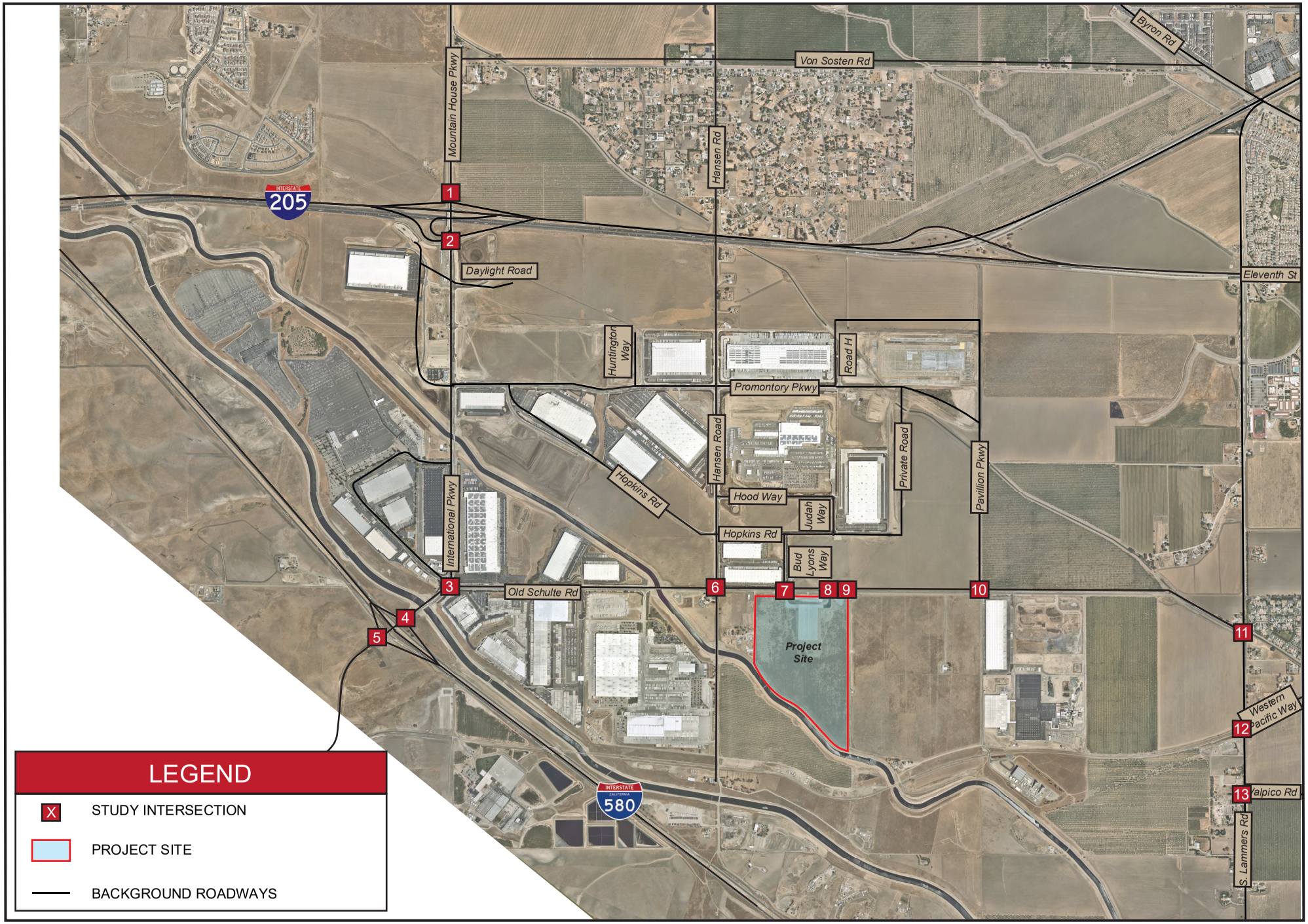

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Figure 3

Background Conditions Overview Map

Costco Depot Traffic Analysis

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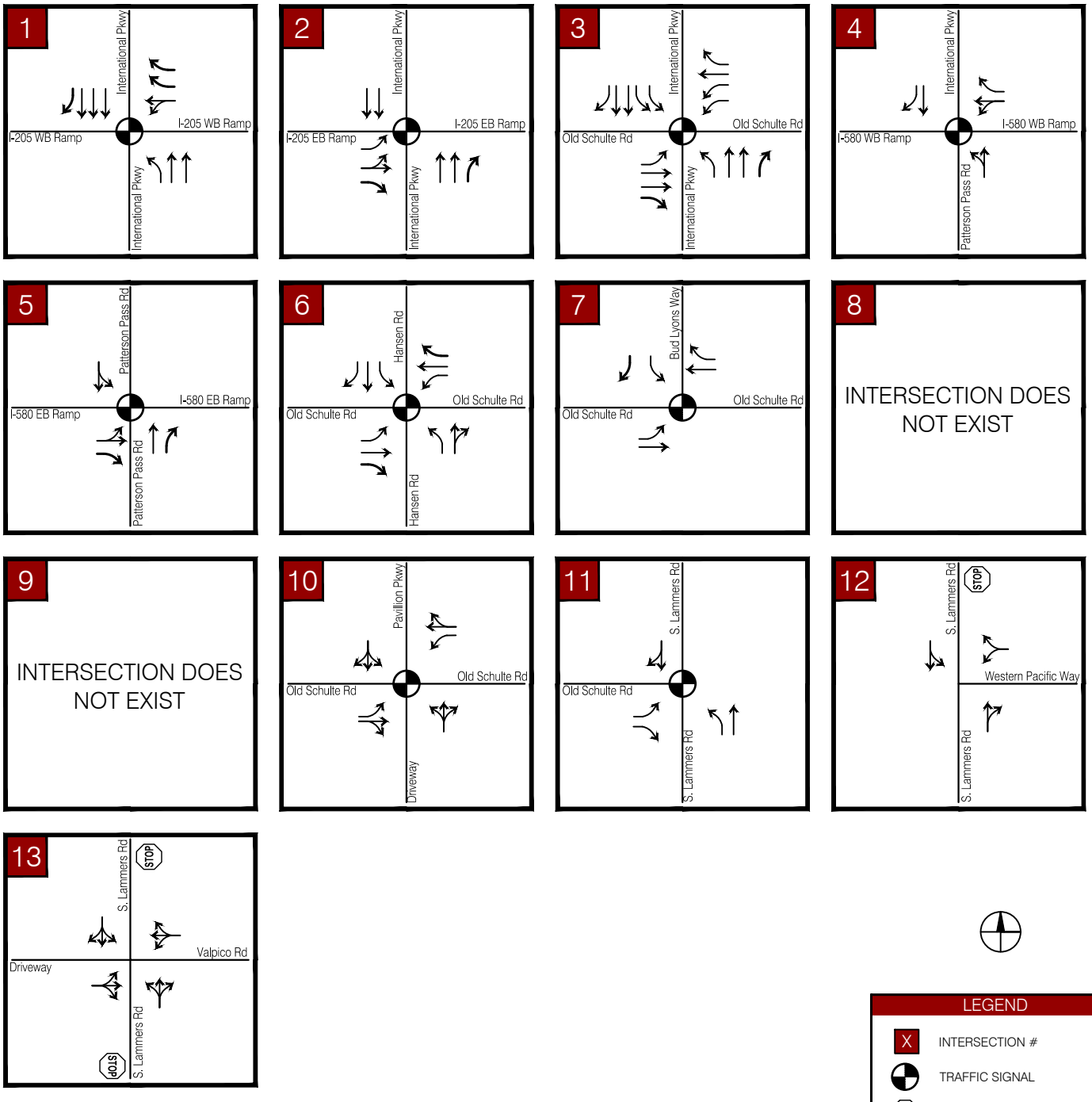

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Figure 4

Background Conditions

Lane Geometry and Traffic Control

Tracy Costco Direct Delivery Center

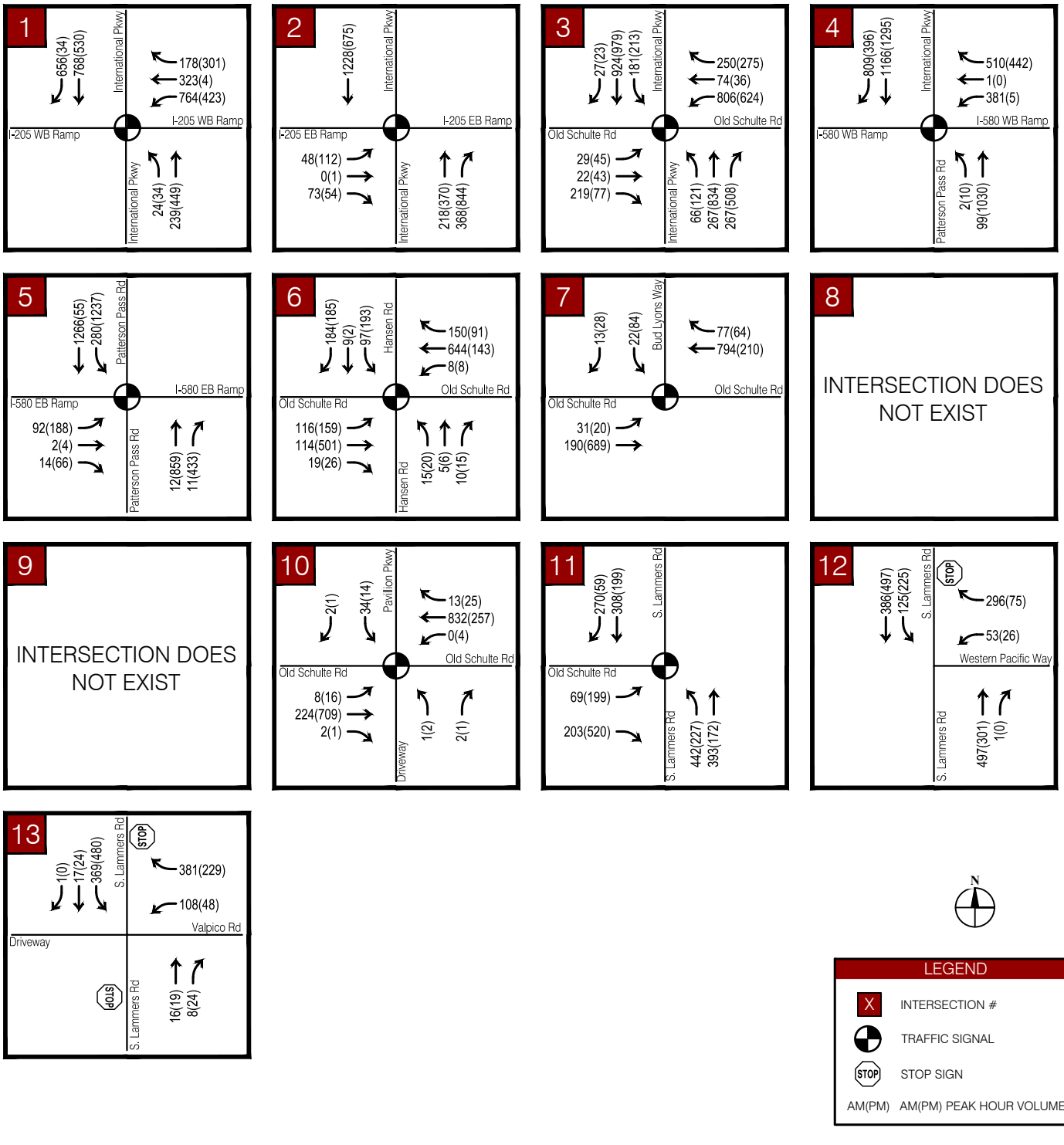

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Figure 5

Background Conditions

Peak Hour Volumes

Tracy Costco Direct Delivery Center

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Table 7 – Background Conditions LOS Summary Results

#	Intersection	Agency	Control	Background Conditions					
				AM Peak			PM Peak		
				MVMT	Delay	LOS	MVMT	Delay	LOS
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	**-**	**229.2**	**F**	**-**	13.4	B
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	6.1	A	-	12.5	B
3	International Pkwy & Old Schulte Rd	Tracy	Signal	**-**	**146.9**	**F**	**-**	**150.9**	**F**
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	**-**	**369.7**	**F**	**-**	**427.4**	**F**
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	**-**	**160.8**	**F**	**-**	**424.1**	**F**
6	Hansen Road & Old Schulte Rd	Tracy	Signal	**-**	**58.0**	**E**	-	37.0	D
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	**-**	**91.4**	**F**	-	9.4	A
8	Project Dwy #2 & Old Schulte Rd Worst Approach	Tracy	-	Intersection Does Not Exist					
9	Project Dwy #3 & Old Schulte Rd	Tracy	-	Intersection Does Not Exit					
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	19.9	B	-	11.9	B
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	52.9	D	-	32.6	C
12	Western Pacific Wy & Old Schulte Rd	Tracy	TWSC	**-**	**-**	**-**	-	-	-
	Worst Approach			**WB**	**114.6**	**F**	WB	24.1	C
13	Lammers Rd & Valpico Rd	Tracy	TWSC	**-**	**-**	**-**	-	-	-
	Worst Approach			**WB**	**92.3**	**F**	WB	26.8	D

Note:

1 Analysis performed using HCM 6 methodologies

2 Delay indicated in seconds/vehicle

3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).

4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.

5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control

6. Trip Generation, Distribution, and Assignment

Trip Generation

Trip generation for the proposed Costco development was calculated using the E-Commerce trip generation rates provided by Kittleson's *Tracy Costco Depot Transportation Impact Analysis Report* (August 28, 2017). These rates were then split into passenger car and truck trips based on ITE guidance for high-cube and warehousing facilities. These rates were compared against the City trip rates and ITE trip rates. The e-commerce rates from Costco are higher than the City and ITE trip rates.

The proposed Project is anticipated to generate 401 AM peak hour (377 IN / 24 OUT) and 87 PM peak hour (19 IN / 68 OUT) gross trips.

Table 8 - Trip Generation

Land Uses	Project Size	AM PEAK HOUR				PM PEAK HOUR			
		Total Peak Hour	IN	/	OUT	Total Peak Hour	IN	/	OUT
Trip Generation Rates									
Project Use									
Costco E-commerce Warehouse[1]	- KSF	0.23	94%	/	6%	0.05	21%	/	79%
Trips Generated									
Building 1	**543.326 KSF**	**125**	**118**	**/**	**7**	**27**	**6**	**/**	**21**
Passenger Cars[2]		*86*	*81*	*/*	*5*	*21*	*5*	*/*	*16*
Trucks[2]		*39*	*37*	*/*	*2*	*6*	*1*	*/*	*5*
Building 2	**1,201.727 KSF**	**276**	**259**	**/**	**17**	**60**	**13**	**/**	**47**
Passenger Cars[2]		*190*	*179*	*/*	*11*	*47*	*10*	*/*	*37*
Trucks[2]		*86*	*80*	*/*	*6*	*13*	*3*	*/*	*10*
TOTAL		***401***	***377***	***/***	***24***	***87***	***19***	***/***	***68***
Passenger Cars		***276***	***260***	***/***	***16***	***68***	***15***	***/***	***53***
Trucks		***125***	***117***	***/***	***8***	***19***	***4***	***/***	***15***

NOTES

1. Trip generation provided by Kittleson's *Tracy Costco Depot Transportation Impact Analysis Report* (August 28, 2017).

2. ITE's *High-Cube Warehouse Vehicle Trip Generation Analysis*, 2016. The percentage of passenger car vehicles for Short-Term Storage, Transload, & Cold Storage is the following:
Daily: 67.8%
AM: 69.2%
PM: 78.3%

Trip Distribution and Assignment

Project Background Conditions

Trips were distributed along the roadway network based on the Cordes Ranch EIR. The following provides the passenger car distribution for Project Background Conditions:

- 23% to/from the east along I-580
- 3% to/from the west along I-580
- 2% to/from the west along I-205

- 15% to/from the north along Mountain House Parkway
- 26% to/from the east along I-205
- 6% to/from the north along Lammers Road
- 23% to/from the east along Valpico Road
- 2% to/from the south along Lammers Road

The following provides the assumed truck distribution that was provided by Kittelson:

- 37% to/from the east along I-580
- 19% to/from the west along I-580
- 11% to/from the west along I-205
- 33% to/from the east along I-205

Refer to **Figure 6** and **Figure 7** for the Project Background Conditions passenger car trip distribution and assignment, respectively. Refer to **Figure 8** and **Figure 9** for the Project Background Conditions truck trip distribution and assignment, respectively.

Project Cumulative Conditions

The following provides the passenger car distribution derived from the City's 2035 travel demand model for Project Cumulative Conditions:

- 12% to/from the east along I-580
- 3% to/from the west along I-580
- 2% to/from the west along I-205
- 15% to/from the north along Mountain House Parkway
- 26% to/from the east along I-205
- 10% to/from the north along Lammers Road
- 10% to/from the east along Promontory Parkway
- 9% to/from the east along Valpico Road
- 6% to/from the south along Lammers Road
- 7% to/from the east along Hansen Road

The assumed truck distribution remained the same between Project Background and Project Cumulative Conditions. Refer to **Figure 10** and **Figure 11** for the Project Cumulative Conditions passenger car trip distribution and assignment, respectively. Refer to **Figure 12** and **Figure 13** for the Project Cumulative Conditions truck trip distribution and assignment, respectively. Trips for the Project Cumulative Conditions are based on the trip generation provided in **Table 8**.

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Figure 6
Passenger Car Project Trip Distribution
Background Plus Project Conditions

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Costco Depot Traffic Analysis

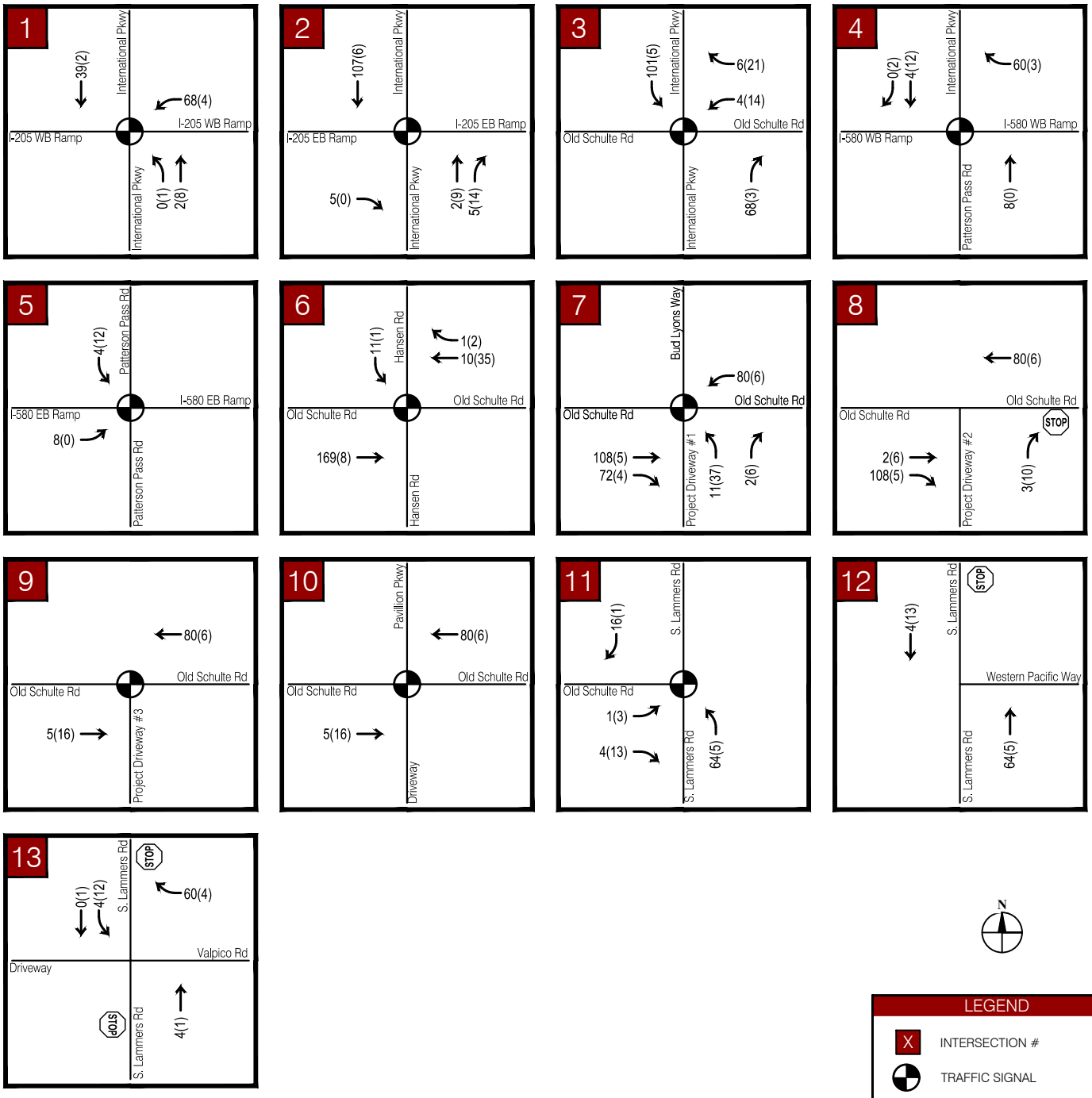

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Figure 7

Passenger Car Background Project Assignment

Background Plus Project Conditions

Tracy Costco Direct Delivery Center

Figure 8
Truck Project Trip Distribution
Background Plus Project Conditions

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Costco Depot Traffic Analysis

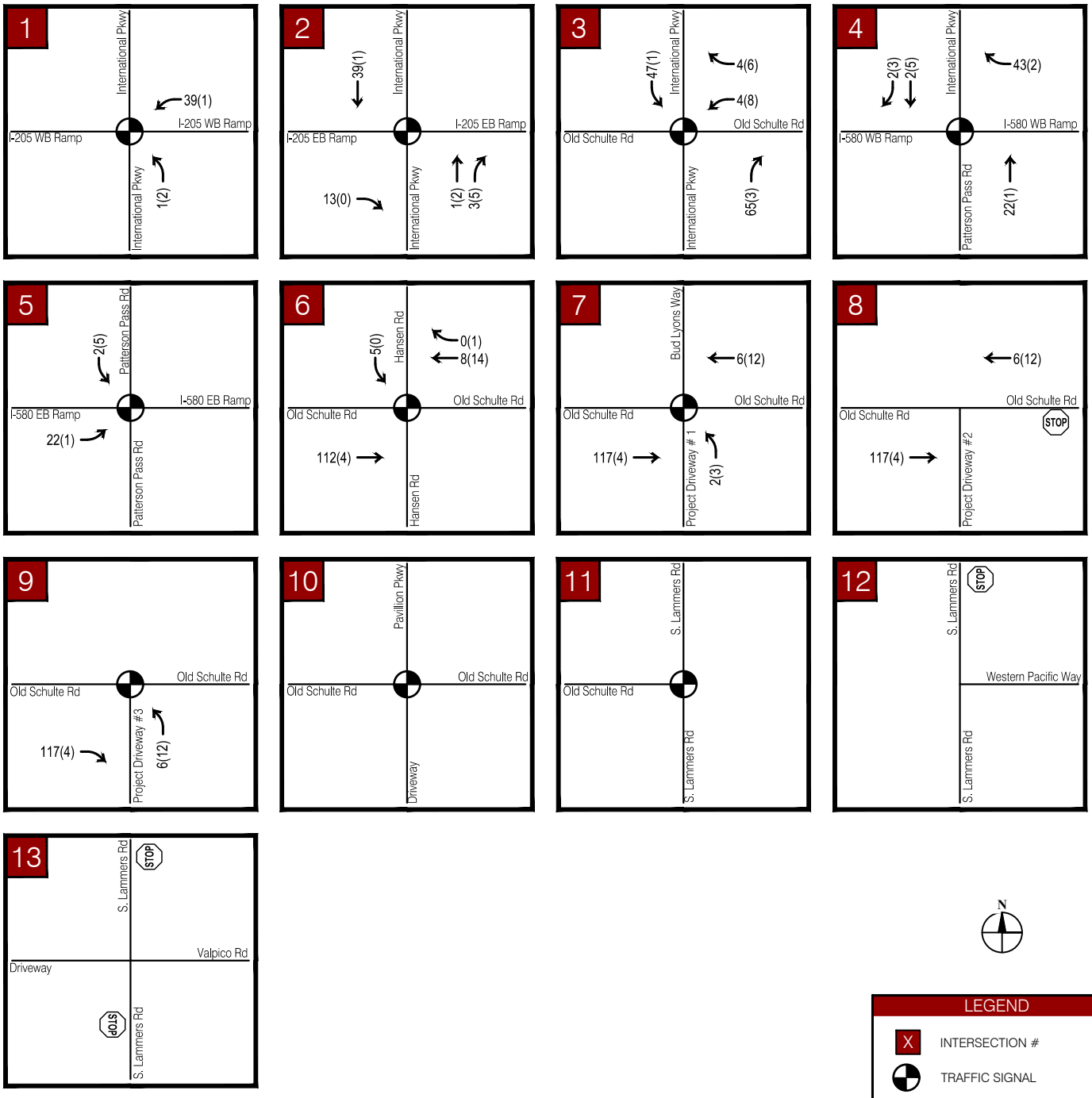

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Figure 9

Truck Background Project Assignment

Background Plus Project Conditions

Tracy Costco Direct Delivery Center

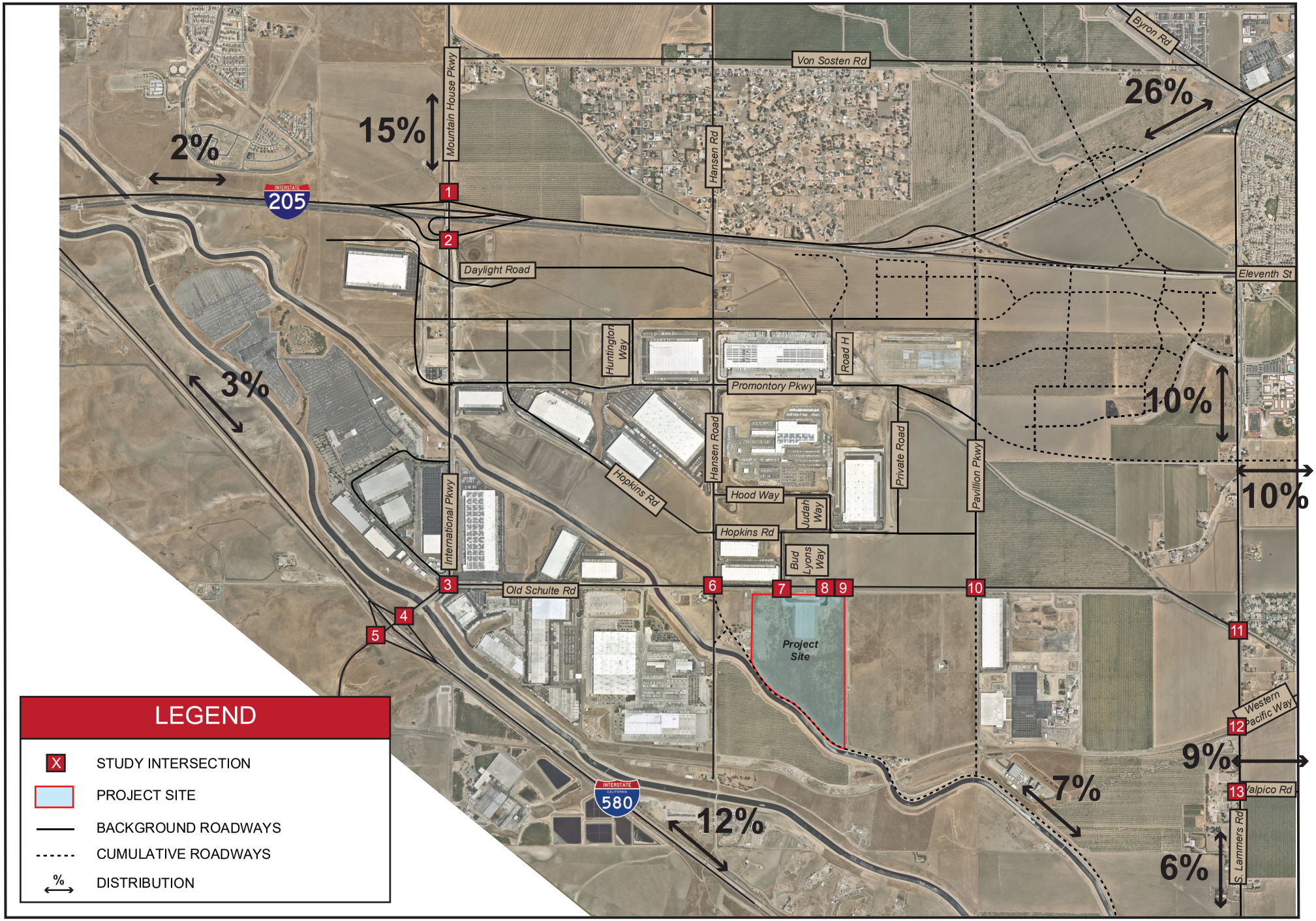

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Figure 10
Passenger Car Project Trip Distribution
Cumulative Plus Project Conditions

Costco Depot Traffic Analysis

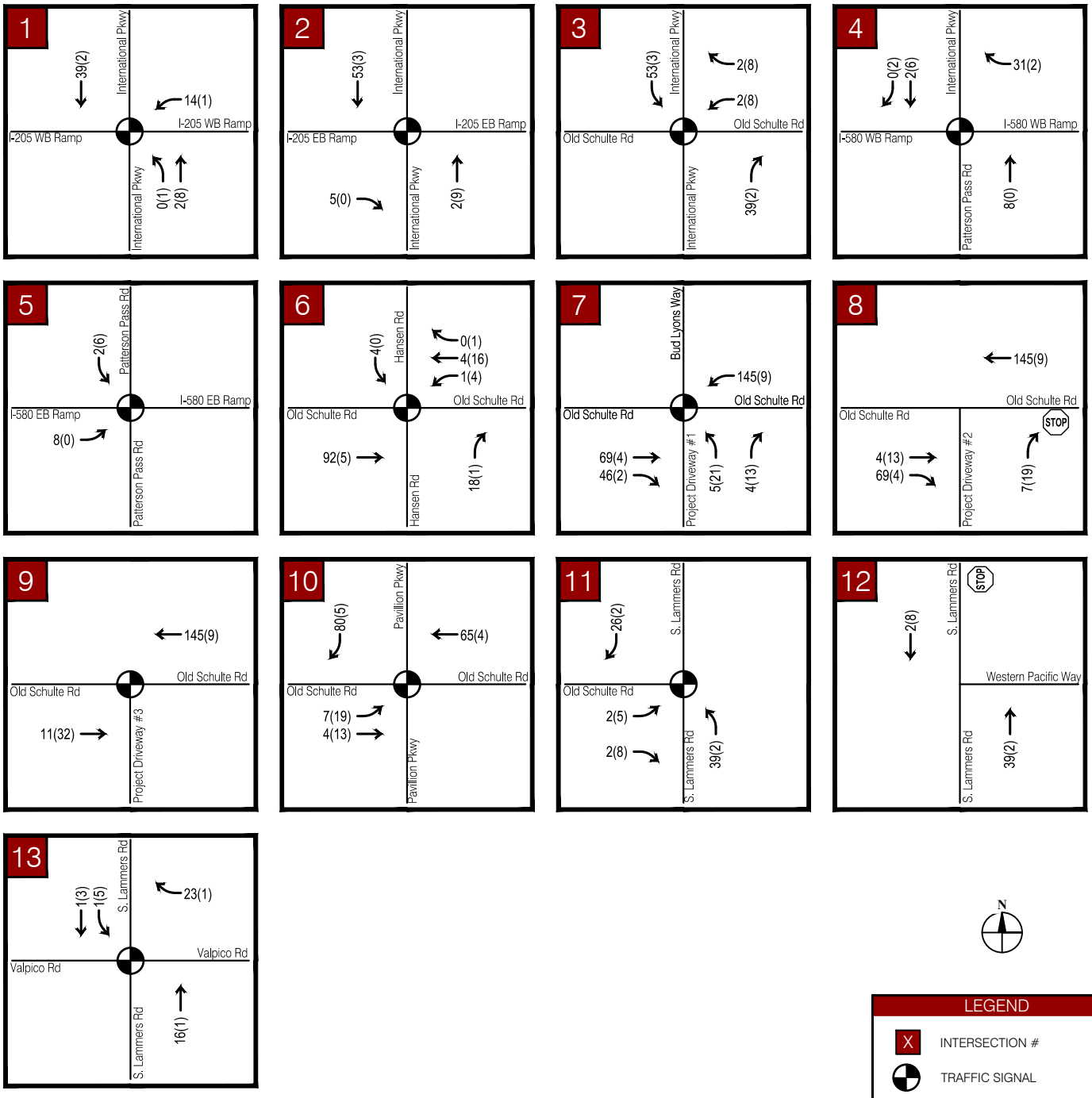

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Figure 11

Passenger Car Cumulative Project Assignment

Cumulative Plus Project Conditions

Tracy Costco Direct Delivery Center

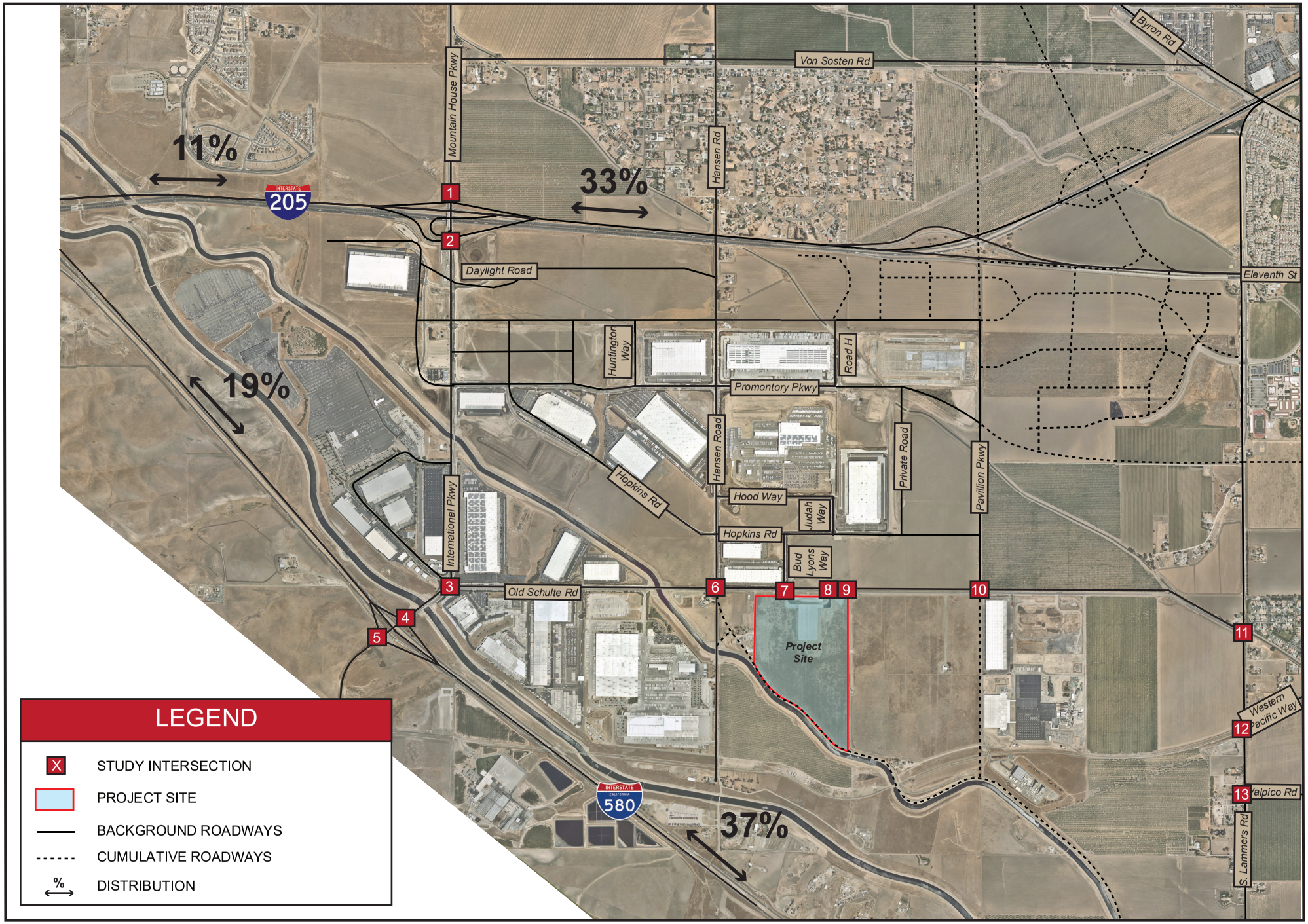

Figure 12
Truck Project Trip Distribution
Cumulative Plus Project Conditions

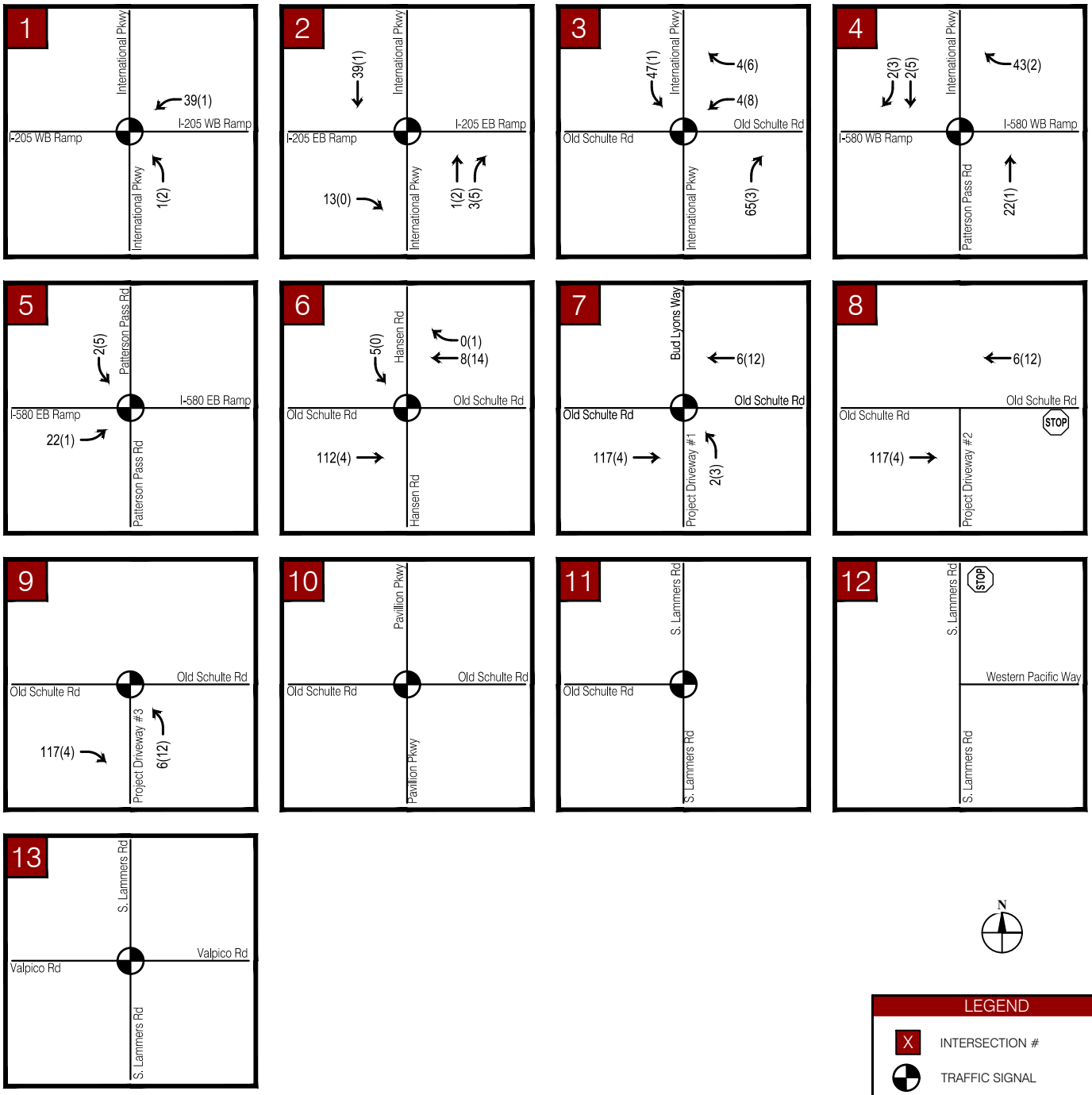

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Figure 13

Truck Cumulative Project Assignment

Cumulative Plus Project Conditions

Tracy Costco Direct Delivery Center

7. Background Plus Project Conditions

Background Plus Project Conditions are based on Background Conditions traffic volumes plus traffic generated by the proposed Project. The roadway network is based on Background Conditions plus improvements anticipated to be constructed by the Project:

- Widen Old Schulte Road to four through lanes along the Project's frontage
- Add south leg and eastbound right turn lane and westbound left turn lane at Project Driveway #1
- Add new signalized intersection, eastbound right turn lane and westbound left turn lane at Project Driveway #3

The Background Plus Project Conditions roadway network is shown in **Figure 14** and the volumes are shown in **Figure 15**.

Results of the Background Plus Project Conditions levels of service analysis are presented in **Table 9**. Travel patterns on Old Schulte Road are peak period based (i.e. westbound in the morning and eastbound in the evening). The Project primarily adds traffic in the opposing, non-peak, direction during the peak periods. The following intersections operated at unacceptable levels of service and recommended improvements have been provided:

- Intersection #1 - International Pkwy & I-205 WB Ramps (AM Peak Hour)
    - Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.
- Intersection #3 - International Pkwy & Old Schulte Rd (AM and PM Peak Hours)
    - Per the *Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA*, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.
- Intersection #4 - International Pkwy & I-580 WB Ramps (AM and PM Peak Hours)
    - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.
- Intersection #5 - International Pkwy & I-580 EB Ramps (AM and PM Peak Hours)
    - A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.
- Intersection #6 - Hansen Rd & Old Schulte Rd (AM Peak Hour)
    - Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.
- Intersection #11 – Lammers Rd & Old Schulte Rd (AM Peak Hour)
    - Provide an overlap phase for the eastbound right turn.

- Intersection #12 - Lammers Rd & Western Pacific Wy (AM Peak Hour)
    - Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.
- Intersection #13 - Lammers Rd & Valpico Rd (AM Peak Hour)
    - Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.
- The project shall, at a minimum, provide emergency access to the future Hansen Road. It is anticipated that the properties west of the Project site may develop in the near future and that Hansen Road will be extended to Old Schulte Road.

All recommended improvements match those from the Cordes Ranch 2nd Consistency Analysis (June, 2020) except at Intersection #11. No improvements were required at Intersection #11 in the Cordes Ranch 2nd Consistency Analysis during Background Conditions; therefore, the improvements provided for Intersection #11 would be an interim solution until the cumulative intersection geometry is constructed.

It should be noted that for some intersections, the reported delay improved with the addition of the project trips. The reason for this occurrence is because the trips were predominately added to the through lane movements, which had a lower movement delay than the average intersection delay, and thereby decreases the overall average delay.

Analysis output sheets for Background Plus Project and Background Plus Project (Improvements) are provided in the **Appendix**.

Table 11 provides Costco project obligations for the Background Plus Project Conditions.

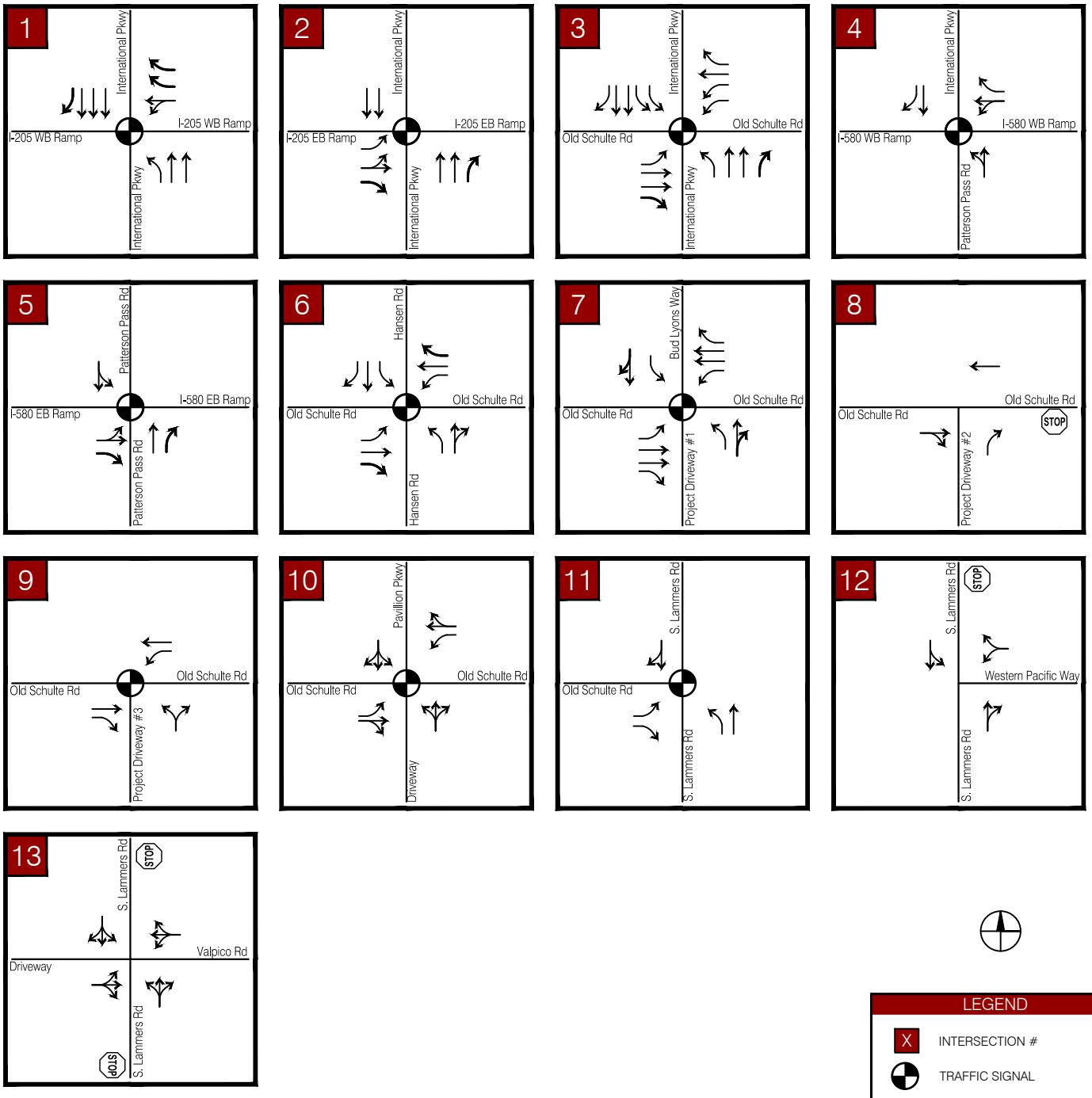

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Figure 14

Background Plus Project

Lane Geometry and Traffic Control

Tracy Costco Direct Delivery Center

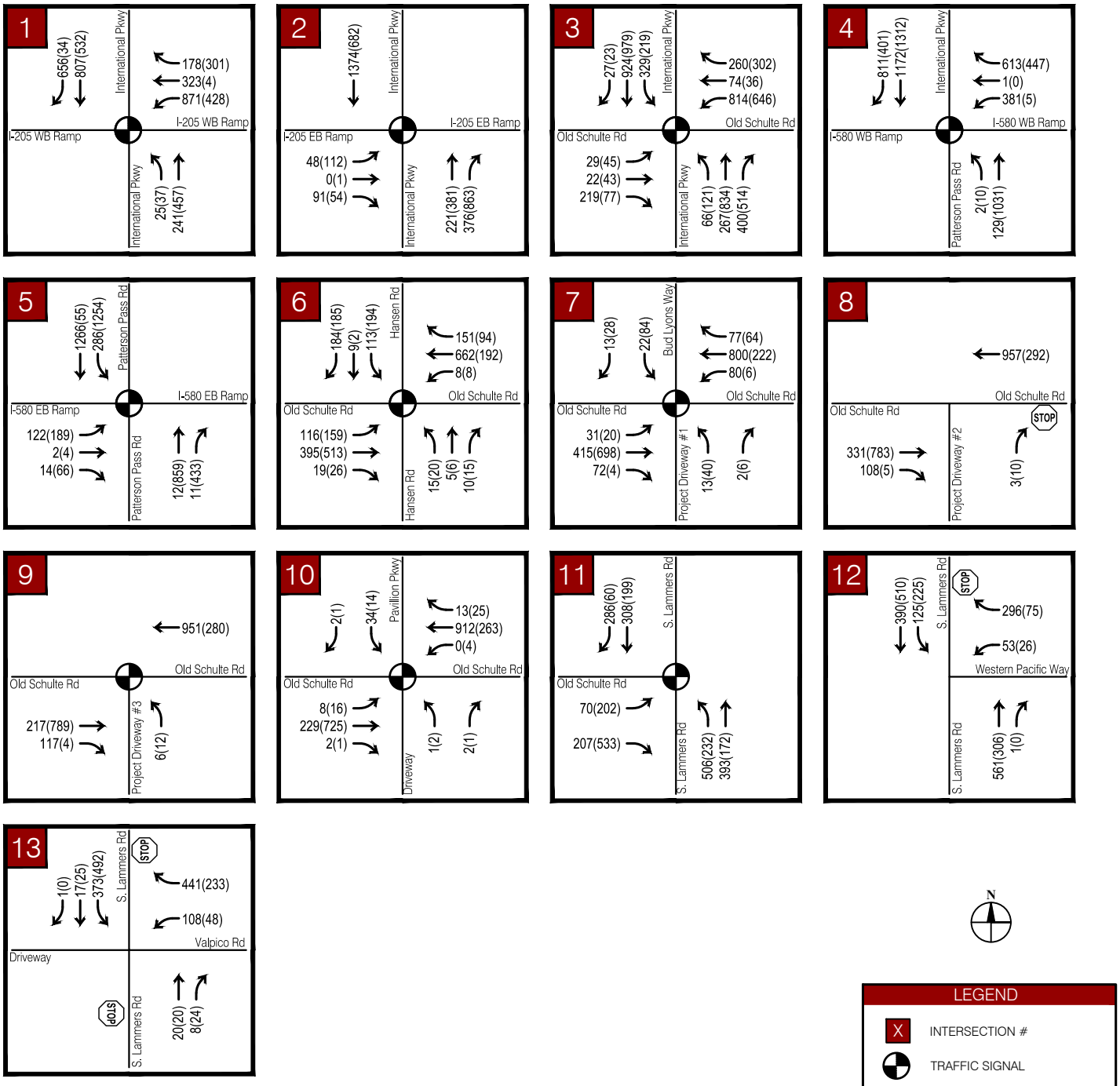

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Figure 15

Background Plus Project

Peak Hour Volumes

Tracy Costco Direct Delivery Center

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Table 9 – Background Plus Project Conditions LOS Summary

#	Intersection	Agency	Control	Background Conditions						Background Plus Project Conditions						Project Impact? (Y/N)
				AM Peak			PM Peak			AM Peak			PM Peak			
				MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	**229.2**	**F**	-	13.4	B	-	**268.9**	**F**	-	13.7	B	**Y**
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	6.1	A	-	12.5	B	-	6.8	A	-	13.5	B	-
3	International Pkwy & Old Schulte Rd	Tracy	Signal	-	**146.9**	**F**	-	**150.9**	**F**	-	**171.5**	**F**	-	**166.6**	**F**	**Y**
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	-	**369.7**	**F**	-	**427.4**	**F**	-	**369.6**	**F**	-	**437.1**	**F**	**Y**
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	-	**160.8**	**F**	-	**424.1**	**F**	-	**162.6**	**F**	-	**433.4**	**F**	**Y**
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	**58.0**	**E**	-	37.0	D	-	**56.5**	**E**	-	37.7	D	N
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	**91.4**	**F**	-	9.4	A	-	27.2	C	-	25.2	C	N
8	Project Dwy #2 & Old Schulte Rd	Tracy	TWSC	Intersection Does Not Exist						-	-	-	-	-	-	N
	Worst Approach									NB	9.7	A	NB	11.3	B	
9	Project Dwy #3 & Old Schulte Rd	Tracy	Signal	Intersection Does Not Exit						-	6.4	A	-	3.5	A	N
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	19.9	B	-	11.9	B	-	15.9	B	-	12.2	B	
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	52.9	D	-	32.6	C	-	**66.9**	**E**	-	34.7	C	**Y**
12	Western Pacific Wy & Old Schulte Rd	Tracy	TWSC	-	-	-	-	-	-	-	-	-	-	-	-	**Y**
	Worst Approach			**WB**	**114.6**	**F**	WB	24.1	C	**WB**	**162.5**	**F**	WB	25.2	D	
13	Lammers Rd & Valpico Rd	Tracy	TWSC	-	-	-	-	-	-	-	-	-	-	-	-	**Y**
	Worst Approach			**WB**	**92.3**	**F**	WB	26.8	D	**WB**	**122.4**	**F**	WB	29.0	D	

Note:

1 Analysis performed using HCM 6 methodologies

2 Delay indicated in seconds/vehicle

3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).

4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.

5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control

6 An impact is determined if the intersection delay increases by more than 5 seconds

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Table 10 – Background Plus Project (Improvements) Conditions LOS Summary

#	Intersection	Agency	Control	Background Plus Project Conditions						Improvement Control	Background Plus Project (Improvements) Conditions					
				AM Peak			PM Peak				AM Peak			PM Peak		
				MVMT	Delay	LOS	MVMT	Delay	LOS		MVMT	Delay	LOS	MVMT	Delay	LOS
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	**268.9**	**F**	-	13.7	B	Signal	-	9.8	A	-	7.2	A
3	International Pkwy & Old Schulte Rd	Tracy	Signal	-	**171.5**	**F**	-	**166.6**	**F**	-	**Refer to FTOAR for improvements**					
4	International Pkwy & I-580 WB Ramps	Caltrans	Signal	-	**369.6**	**F**	-	**437.1**	**F**							
5	International Pkwy & I-580 EB Ramps	Caltrans	Signal	-	**162.6**	**F**	-	**433.4**	**F**							
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	**56.5**	**E**	-	37.7	D	Signal	-	25.7	C	-	27.7	C
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	**66.9**	**E**	-	34.7	C	Signal	-	48.2	D	-	21.5	C
12	Western Pacific Way & W. Schulte Rd	Tracy	TWSC	-	-	-	-	-	-	Signal	-	24.2	C	-	8.6	A
	Worst Approach			**WB**	**162.5**	**F**	WB	25.2	D							
13	Lammers Rd & Valpico Rd	Tracy	TWSC	-	-	-	-	-	-	Signal	-	32.6	C	-	16.8	B
	Worst Approach			**WB**	**122.4**	**F**	WB	29.0	D							

Notes:

1 Analysis performed using HCM 6 methodologies

2 Delay indicated in seconds/vehicle

3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).

4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.

5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control

6 An impact is determined if the intersection delay increases by more than 5 seconds

Table 11 – Costco Obligations (Background Plus Project Conditions)

Costco Intersection #	Intersection /Location	Peak Hour	Background Plus Project Conditions		
			Improvement	Recommended Costco Improvement?	Costco Project Obligation
1	International Pkwy & I-205 WB Ramps	AM	Restripe westbound off-ramp to provide two left-turn lanes and one shared through/right lane and optimize signal timings per Cordes Ranch Specific Plan Final EIR TRANS-1 mitigation measure.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
3	International Pkwy & Old Schulte Rd	AM & PM	Per the *Final Traffic Operations Analysis Report (FTOAR) For the Interstate 580/International Parkway/Patterson Pass Road Interchange in Tracy, CA*, a diverging diamond interchange should be constructed at Intersections #4 & #5. The FTOAR recommended an additional northbound right turn at Intersection #3 and to restripe the existing eastbound outside shared through/right lane to be a dedicated eastbound right turn.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco shall pay a fair share contribution towards improvements.
4	International Pkwy & I-580 WB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
5	International Pkwy & I-580 EB	AM & PM	A diverging diamond interchange is in the PSE design phase. The City of Tracy and Caltrans are going through design approvals to have the new interchange constructed in the near term.	Impact Fees	Pay TIF
6[1]	Hansen Road & Old Schulte Rd	AM	Add one additional westbound and eastbound through lane at the intersection to establish a 4-lane facility. Old Schulte Road will remain a 2-lane facility over the Delta-Mendota Canal Bridge.	Y	Costco to implement
11	Lammers Rd & Old Schulte Rd	AM	Provide an overlap phase for the eastbound right turn.	Y	Costco to implement
12[1]	Lammers Rd & Western Pacific Way	AM	Signalize and construct a northbound right-turn and southbound left-turn lanes plus the median of the future widening.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.
13	Lammers Rd & Valpico Rd	AM	Signalize intersection and construct a southbound left-turn lane. It is anticipated that widening to a four-lane roadway will occur from Old Schulte Road to Valpico Road with subsequent intersection improvements.	Y	Costco will construct improvements if not already implemented by another development and may collect contributions from future benefitting developments. If improvement is already constructed, Costco may pay a fair share contribution towards improvements.

Notes:
1. Costco will construct improvement if not already implemented by another development. This improvement is anticipated to be included in the City of Tracy Transportation Master Plan (TMP) Fee Program Update. If included, Costco could receive reimbursement for improvements within the fee program.
2. Kimley-Horn traffic study identified TIF, this is not reflected in the conditions.

8. Cumulative Conditions

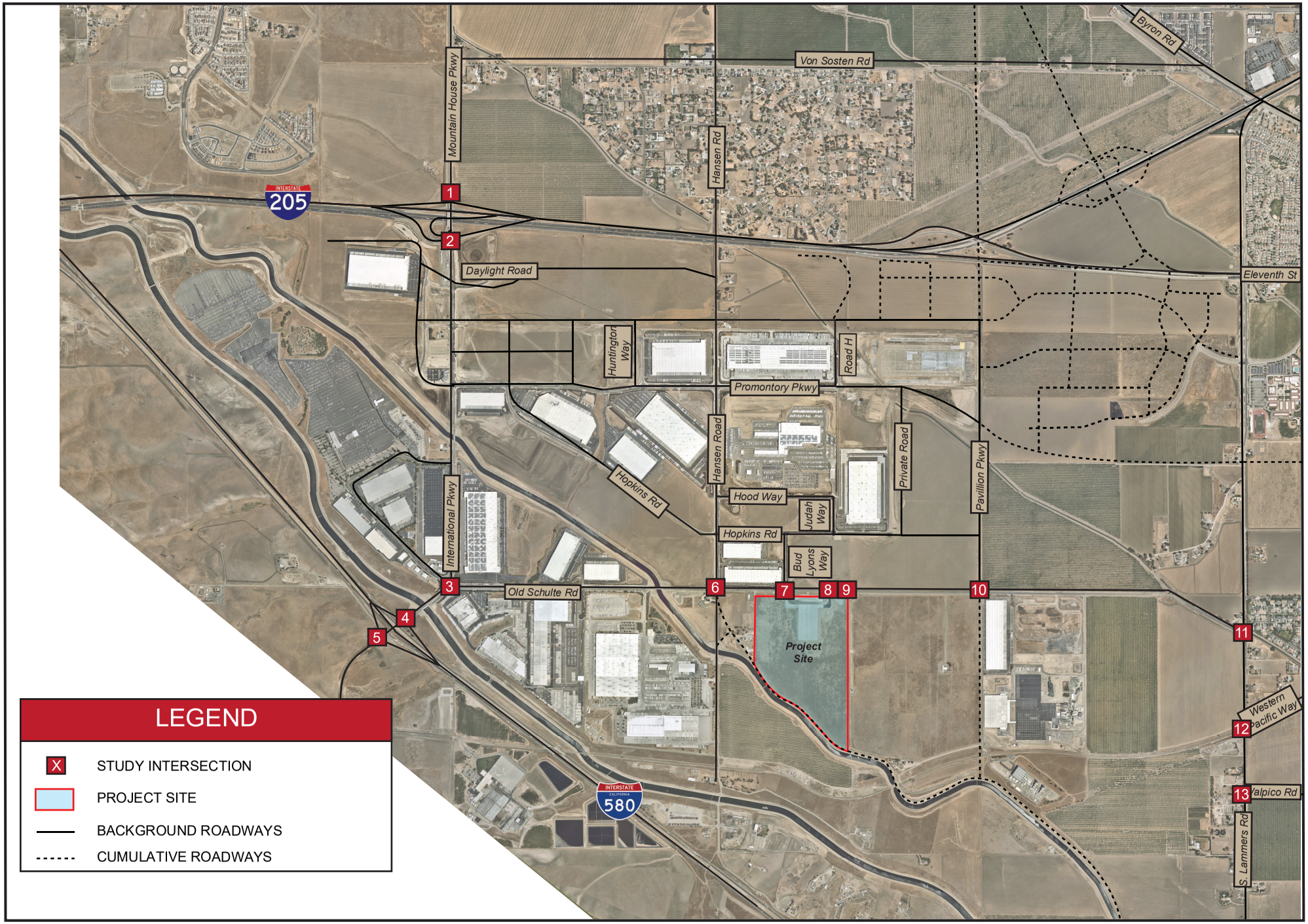
Cumulative Conditions represent 2035 conditions, aligning with the City of Tracy Transportation Master Plan's Horizon Year. The Cumulative Conditions roadway network is shown in **Figure 16**. Cumulative traffic volumes were developed based on recently updated model plots from City of Tracy travel demand forecast model, reflecting the latest development assumptions for the Cordes Ranch and Westside Specific Plan areas, but with the Project volumes removed from the network. Cumulative 2035 link volumes were converted to turning movement volumes using a traffic modeling standard process commonly referred to as the Furness method. The Furness method uses an iterative process to derive future turning movement volumes based on future year roadway link volumes an initial estimate of turning percentage, obtained from existing intersection turning movement counts if available. Intersection lane geometry was based on the Transportation Master Plan and the latest I-205/International Pkwy and I-580/International Pkwy interchange conceptual plans. The Cumulative Conditions lane geometry is shown in **Figure 17** and the volumes are shown in **Figure 18**.

Results of the Cumulative Conditions level of service analysis are presented in **Table 12.** The following intersections operated at unacceptable levels of service:

- Intersection #6 – Hansen Rd & Old Schulte Rd (PM Peak Hour)
- Intersection #10 – Pavilion Pkwy & Old Schulte Rd (PM Peak Hour)
- Intersection #13 - Lammers Rd & Valpico Rd (PM Peak Hour)

Analysis output sheets for Cumulative Conditions are provided in the **Appendix**.

It should be noted that Intersections #3, #4 and #5 were not analyzed for Cumulative Conditions due to extensive analysis conducted and summarized in the FTOAR.



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NOT TO SCALE

Figure 16

Cumulative Conditions Overview Map

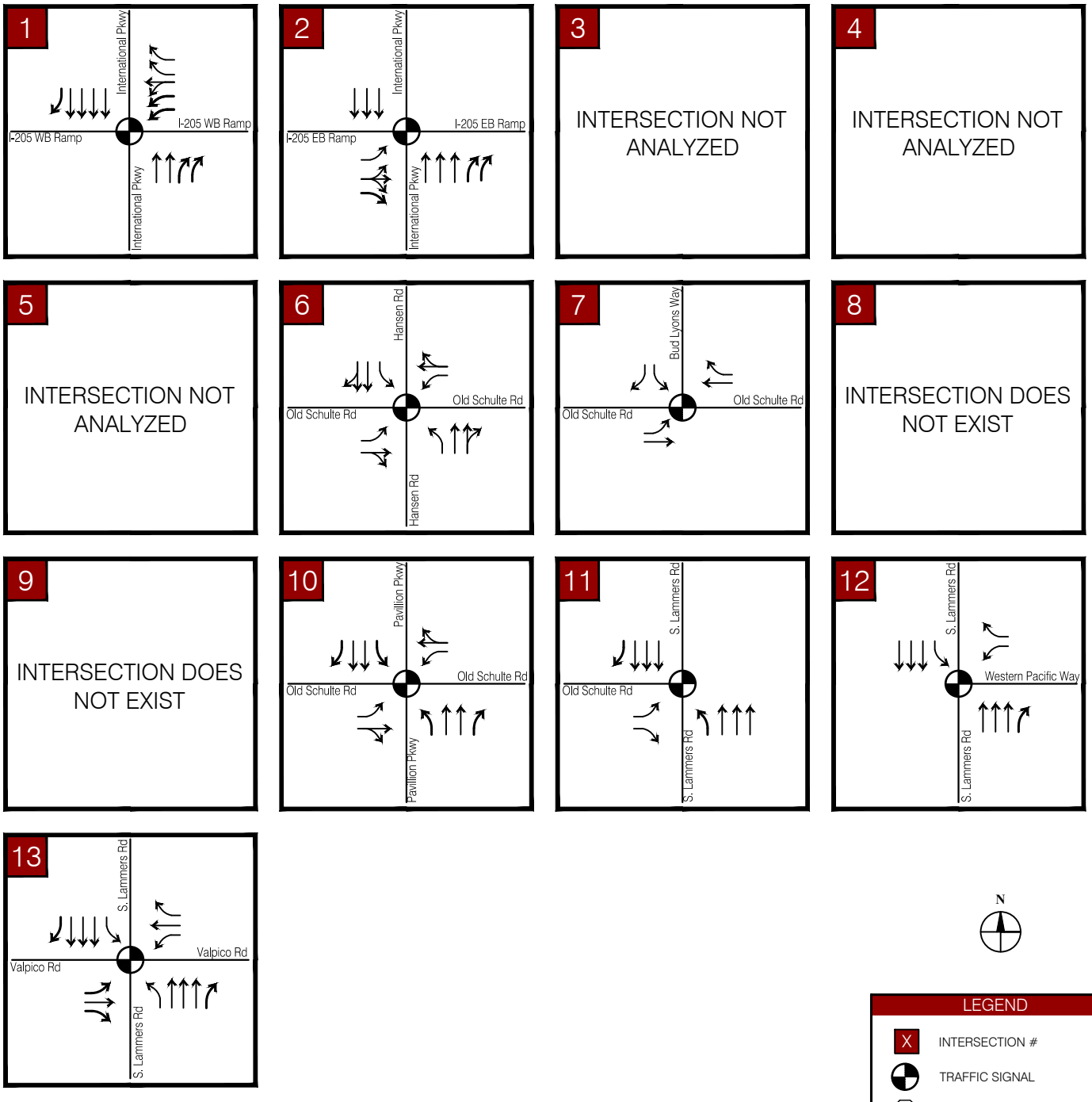

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Figure 17

Cumulative Conditions

Lane Geometry and Traffic Control

Tracy Costco Direct Delivery Center

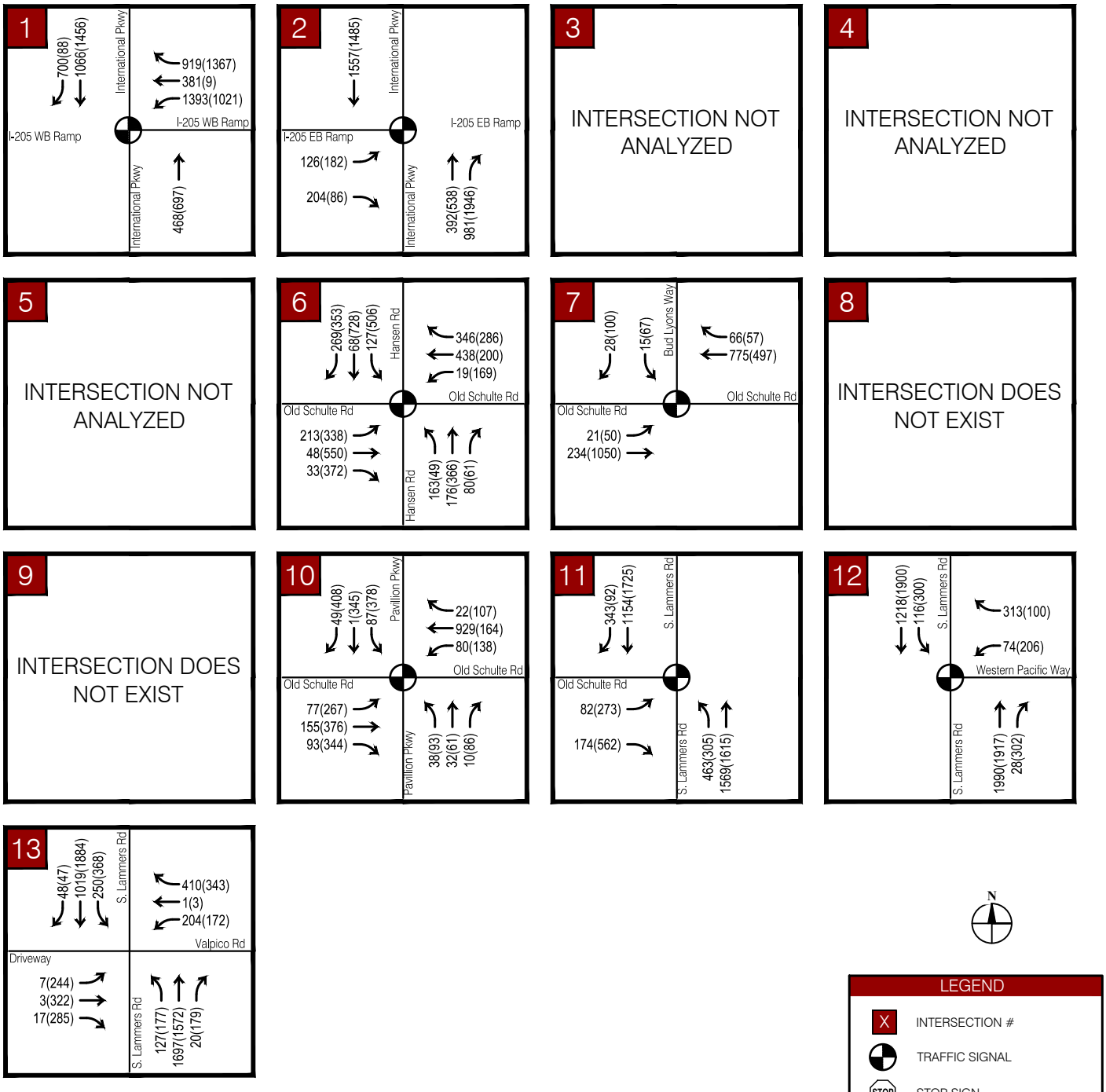

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Figure 18

Cumulative Conditions

Peak Hour Volumes

Tracy Costco Direct Delivery Center

Table 12 – Cumulative Conditions LOS Summary

#	Intersection	Agency	Control	Cumulative Conditions					
				AM Peak			PM Peak		
				MVMT	Delay	LOS	MVMT	Delay	LOS
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	13.1	B	-	9.6	A
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	7.1	A	-	21.6	C
3	International Pkwy & Old Schulte Rd	**Refer to FTOAR analysis**							
4	International Pkwy & I-580 WB Ramps								
5	International Pkwy & I-580 EB Ramps								
6	Hansen Road & Old Schulte Rd	Tracy	Signal	-	46.1	D	**-**	**67.0**	**E**
7	Bud Lyons Way/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	22.2	C	-	52.0	D
8	Project Dwy #2 & Old Schulte Rd	Tracy	-	Intersection Does Not Exist					
	Worst Approach								
9	Project Dwy #3 & Old Schulte Rd	Tracy	-	Intersection Does Not Exist					
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	36.3	D	**-**	**65.7**	**E**
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	15.1	B	-	37.9	D
12	Lammers Rd & Western Pacific Way	Tracy	Signal	-	16.4	B	-	14.4	B
13	Lammers Rd & Valpico Rd	Tracy	Signal	-	41.1	D	**-**	**64.1**	**E**

Note:

1 Analysis performed using HCM 6 methodologies

2 Delay indicated in seconds/vehicle

3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).

4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.

5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control

9. Cumulative Plus Project Conditions

Cumulative Plus Project Conditions are based on Cumulative Conditions traffic volumes plus traffic generated by the proposed Project.

Cumulative Plus Project geometries are shown in **Figure 14** and volumes are shown in **Figure 15**.

Results of the Cumulative Plus Project Conditions levels of service analysis are presented in **Table 13**. All intersections operated at acceptable levels of service except for the following intersections:

- Intersection #6 – Hansen Rd & Old Schulte Rd (PM Peak Hour)
- Intersection #10 – Pavilion Pkwy & Old Schulte Rd (PM Peak Hour)
- Intersection #13 - Lammers Rd & Valpico Rd (PM Peak Hour)

The Cumulative Conditions analysis does not indicate that the Project deteriorates the LOS or causes delay to increase by more than 5 seconds per the City threshold at any study intersection, and thus, no project improvements are required over and above those identified in Background conditions. The project shall, however, pay the City Traffic Impact Fees to offset cumulative incremental deterioration of operating conditions on the City road network.

Analysis output sheets are provided in the **Appendix**.

It should be noted that Intersections #3, #4 and #5 were not analyzed for Cumulative Conditions due to extensive analysis conducted and summarized in the FTOAR.

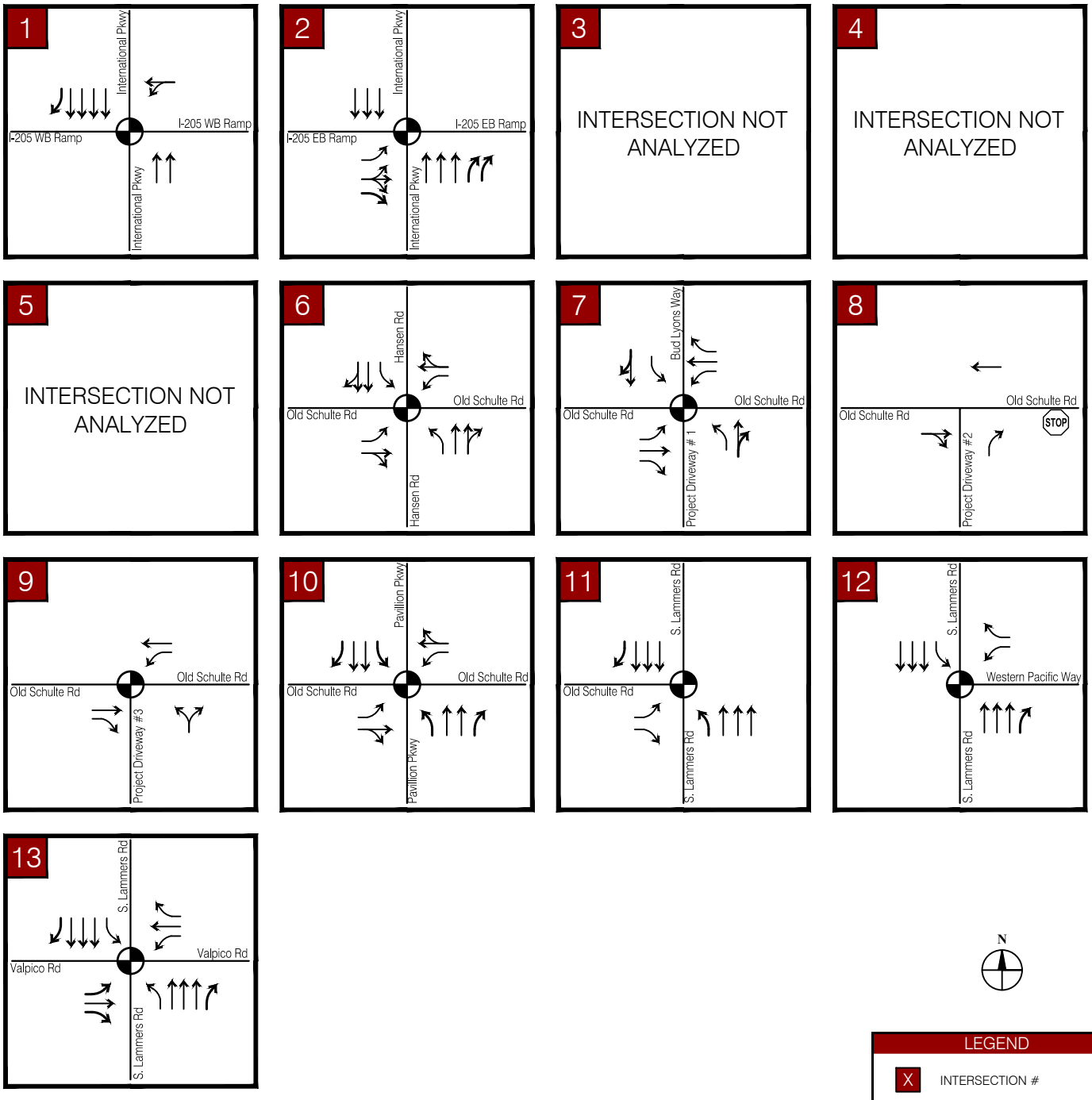

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Figure 19

Cumulative Plus Project Conditions

Lane Geometry and Traffic Control

Tracy Costco Direct Delivery Center

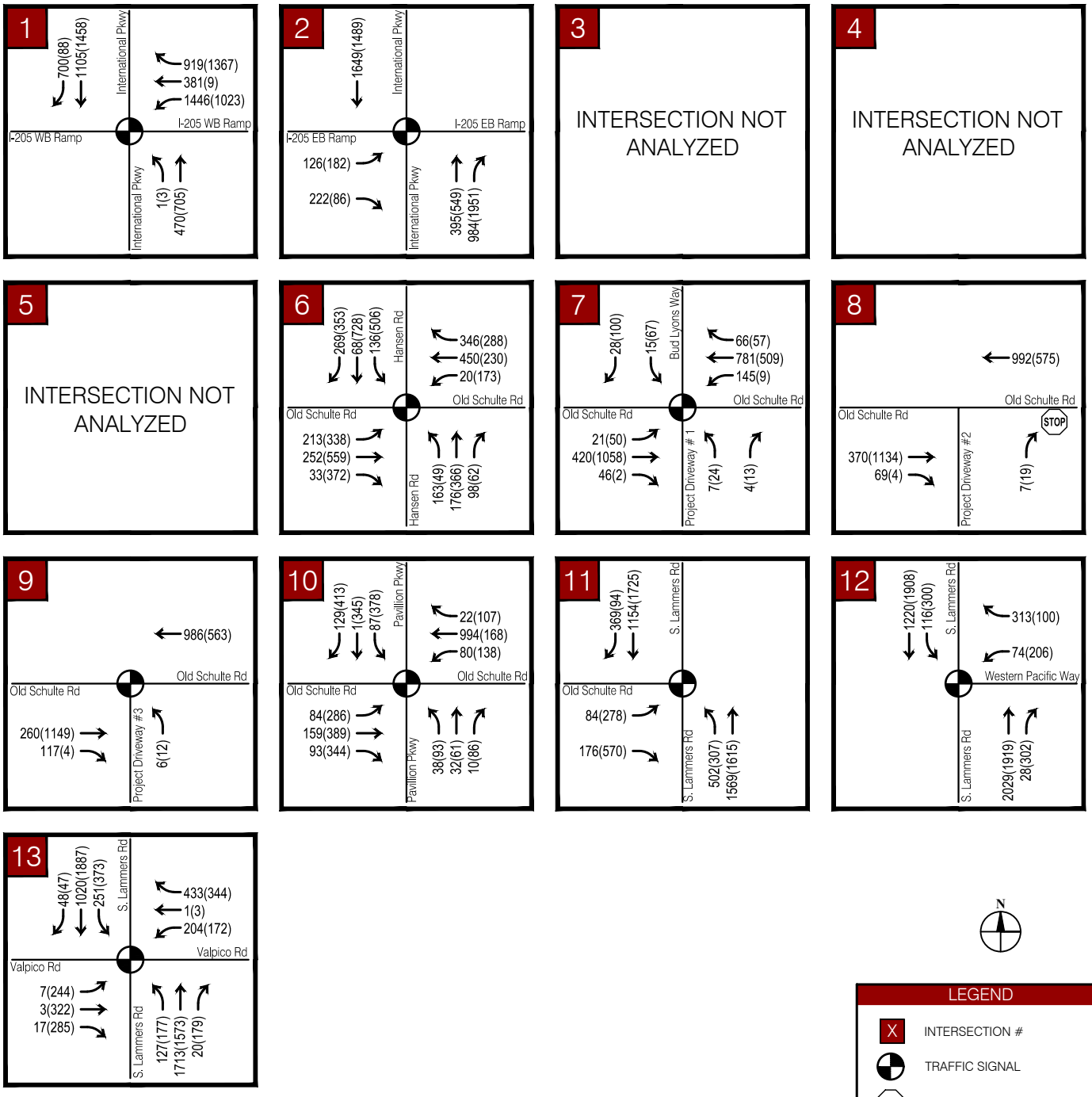

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Figure 20

Cumulative Plus Project Conditions

Peak Hour Volumes

Tracy Costco Direct Delivery Center

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Table 13 – Cumulative Plus Project Conditions LOS Summary

#	Intersection	Agency	Control	Cumulative Conditions						Cumulative Plus Project Conditions						Project Impact?
				AM Peak			PM Peak			AM Peak			PM Peak			
				MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	MVMT	Delay	LOS	
1	International Pkwy & I-205 WB Ramps	Caltrans	Signal	-	13.1	B	-	9.6	A	-	13.9	B	-	9.6	A	-
2	International Pkwy & I-205 EB Ramps	Caltrans	Signal	-	7.1	A	-	21.6	C	-	7.4	A	-	21.9	C	-
3	International Pkwy & Old Schulte Rd	**Refer to FTOAR analysis**														
4	International Pkwy & I-580 WB Ramps															
5	International Pkwy & I-580 EB Ramps															
6	Hansen Rd & Old Schulte Rd	Tracy	Signal	-	46.1	D	**-**	**67.0**	**E**	-	46.3	D	**-**	**67.9**	**E**	N
7	Bud Lyons Wy/Project Dwy #1 & Old Schulte Rd	Tracy	Signal	-	22.2	C	-	52.0	D	-	32.2	C	-	17.1	B	-
8	Project Dwy #2 & Old Schulte Rd	Tracy	-	Intersection Does Not Exist						-	-	-	-	-	-	-
	Worst Approach									NB	9.8	A	NB	13.8	B	
9	Project Dwy #3 & Old Schulte Rd	Tracy	-	Intersection Does Not Exist						-	4.7	A	-	3.2	A	-
10	Pavillion Pkwy & Old Schulte Rd	Tracy	Signal	-	36.3	D	**-**	**65.7**	**E**	-	44.6	D	**-**	**67.7**	**E**	N
11	Lammers Rd & Old Schulte Rd	Tracy	Signal	-	15.1	B	-	37.9	D	-	16.9	B	-	38.6	D	-
12	Lammers Rd & Western Pacific Wy	Tracy	Signal	-	16.4	B	-	14.4	B	-	16.7	B	-	14.4	B	-
13	Lammers Rd & Valpico Rd	Tracy	Signal	-	41.1	D	**-**	**64.1**	**E**	-	46.0	D	**-**	**64.6**	**E**	N

Note:

1 Analysis performed using HCM 6 methodologies

2 Delay indicated in seconds/vehicle

3 Caltrans level of service (LOS) standard is C/D. City of Tracy LOS standard is D except that LOS E acceptable within 1/4-mile of freeway interchanges (#3).

4 Intersections that fall below Caltrans or City standards are shaded and shown in **bold**.

5 AWSC = All-Way Stop Control, TWCS = Two-Way Stop Control, Signal = Signal Control

6 An impact is determined if the intersection delay increases by more than 5 seconds

10. Driveway Access Review

The Project proposes three driveways along Old Schulte Road. **Table 14** provides a summary of the recommendations for each driveway.

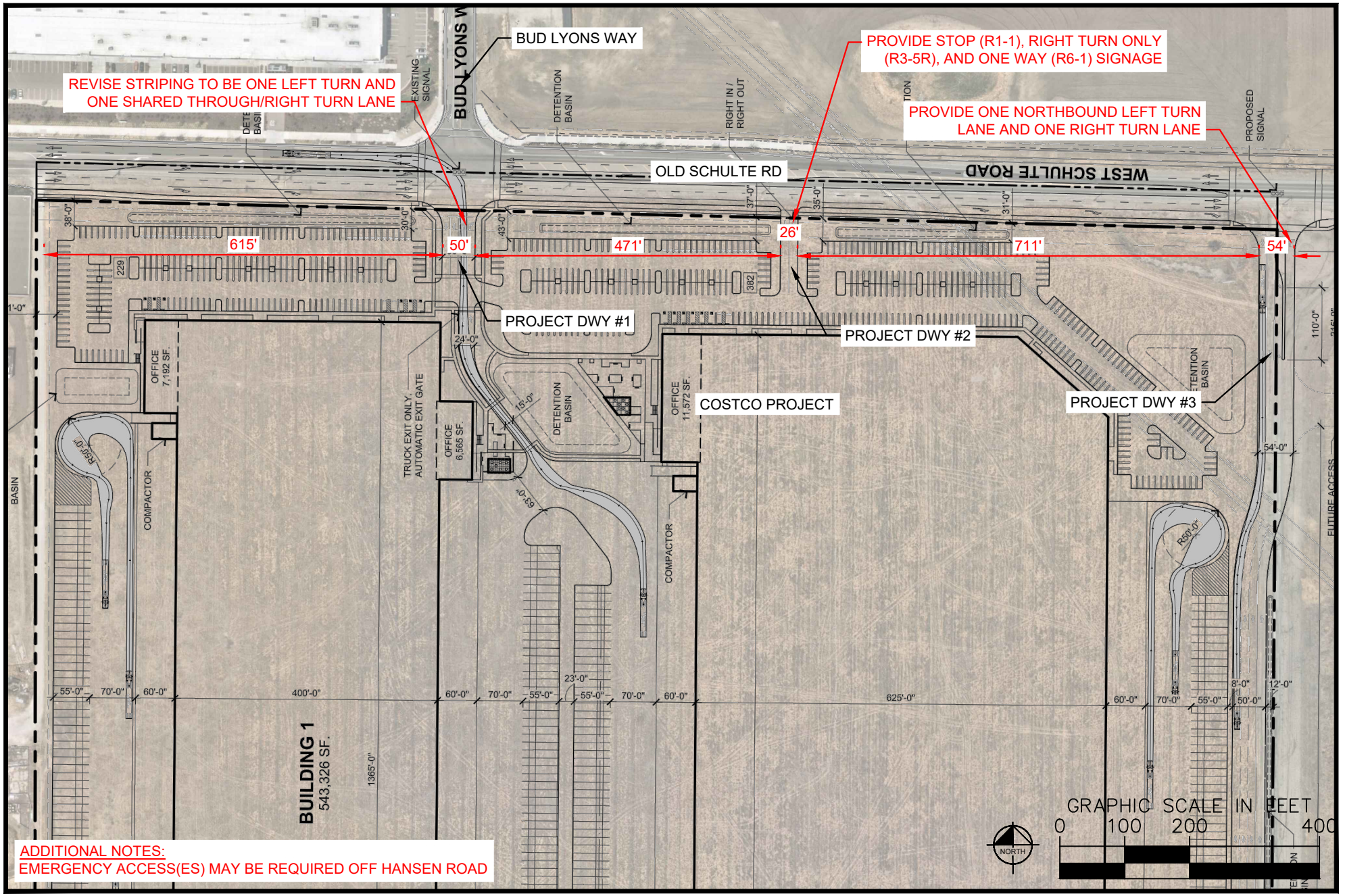
Table 14 – Driveway Access Review

#	Width	Proposed Control	Proposed Access	Proposed Vehicle Type	Recommendations/Comments
1	50’	Signal	Full	Cars & Trucks Out	• Revise striping to the following: 1 left turn and 1 through/right turn lane.
2	26’	SSSC	RIRO	Cars	• Provide Stop (R1-1), Right Turn Only (R3-5R), and One Way (R6-1) signage.
3	54’	Signal	Full	Trucks In & Out	• A left turn lane and a right turn pocket are needed for the signal.
Additional Notes					• Emergency vehicle access(es) may be required off Hansen Road.

Notes:
1. SSSC = Side Street Stop Control
2. RIRO = Right In / Right Out Access; Full = Full Access

Figure 21 illustrates the driveway spacing, widths, and recommendations. **Figure 22** shows the signal spacings along Old Schulte Road between existing and proposed signals. The proposed Project signals provide sufficient spacings.

See the Vehicle Turning Templates section for a review of passenger cars and trucks at the Project driveways and the External Network Review section for a review of the Project frontage and turn lanes required at Project driveways and intersections.



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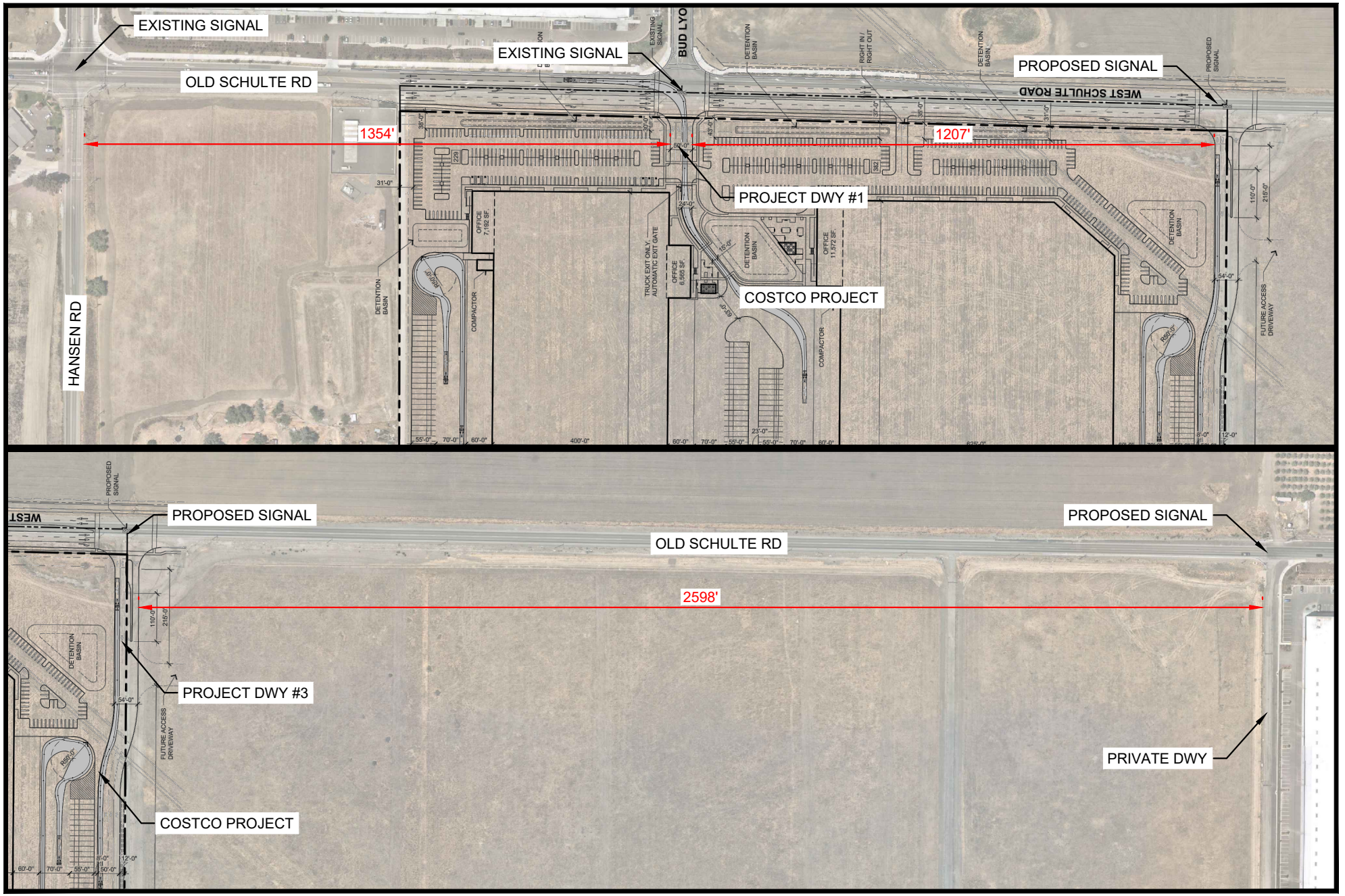
December 2021

Figure 21

Driveway Access Review

Costco Site Plan Review

Tracy Costco Direct Delivery Center



GRAPHIC SCALE IN FEET
0 150 300 600

Figure 22
Signal Spacing Review
Costco Site Plan Review
Tracy Costco Direct Delivery Center

December 2021

11. Internal Circulation Review

Truck Gate Queuing Review

An internal truck gate queuing analysis was performed to determine if the proposed truck entrance at Project Driveway #3 can adequately accommodate queuing on-site without spilling onto Old Schulte Road. The Project site proposes three entrance lanes and one exit lane. All trucks entering the site will enter at Project Driveway #3.

Two queueing analysis scenarios were analyzed:

1. All three lanes stopping at the security buildings
2. Two lanes stopping at the security buildings and one lane bypassing the security buildings.
    a. The expectation is that Costco Direct Delivery Center will have means of identifying certain trucks that will allow those trucks to avoid stopping at the security buildings when entering.

Operations at the existing Costco distribution warehouse located on Old Schulte Road west of the Project site were observed in November 2020 from 10:35 AM to 11:30 AM. The existing site has one bypass lane and two service lanes. From this observation, it was recorded that each truck was processed at a rate of 170 seconds per truck (approximately 3 minutes per truck). It was also recorded that approximately 50% of entering trucks use the bypass lane.

The following assumptions were used to calculate the truck entrance queuing:

- Uniform arrival rate
- 3-minute service time per truck that stops at a security building
- 2,300 feet per lane of available storage
- To determine an initial queue and off-peak hour queuing, ITE's Time of Day Distribution was utilized to estimate what percentage of the peak hour trips would occur during the off peaks. Trucks entering the site would be distributed as follows during the three peak hours of queue analysis:
    - 30% of the peak hour trips would arrive in the hour just before the peak hour
    - 70% of the peak hour trips would arrive in the hour just after the peak hour
    - 50% of the peak hour trips would arrive in the following hour
- 50% of truck trips will utilize the bypass lane (Scenario 2 only)

See the **Appendix** for queuing calculations. The expected queue per scenario is the following:

- Scenario 1 (no bypass lane) – 2,100 ft
- Scenario 2 (with bypass lane) – 750 ft

The analysis indicates that the vehicle storage for full gate control, Scenario 1, is marginally sufficient. If one bypass lane is provided, the storage is adequate.

Site Plan Comments

A review of the internal circulation has been provided in **Figure 23**. The following summarizes the comments:

- Approximately 100 feet is provided between Old Schulte Road and the internal drive aisle. This is only enough space for 4 passenger car vehicles or 1 STAA and 1 passenger car vehicle per lane. Since this is the only location where a passenger car can perform a left turn out of the site, this is not adequate during the shift change peaks. To alleviate congestion at this point, it is recommended to provide an eastbound U-turn lane (that could potentially convert to a future left turn lane) at the Old Schulte Road and Project Driveway #3 signalized intersection.
- At Project Driveway #1, the northern internal crosswalk should be removed as this will conflict with vehicles entering and exiting the Project. This crossing should occur at the signal instead or at the southern internal crosswalk.
- Provide a three way stop at the Project Driveway #1 internal intersection with the inbound movement as the free movement.
- No project detail is known for the eastern adjacent parcel that will share Project Driveway #3. The cross access shown will be reviewed in the future, once a development application is submitted for the adjacent parcel.
- Provide clear signage and/or pavement markings for trucks entering Project Driveway #3 that designates security versus bypass lanes.
- Provide truck turning templates at reverse curve within Project Driveway #3.

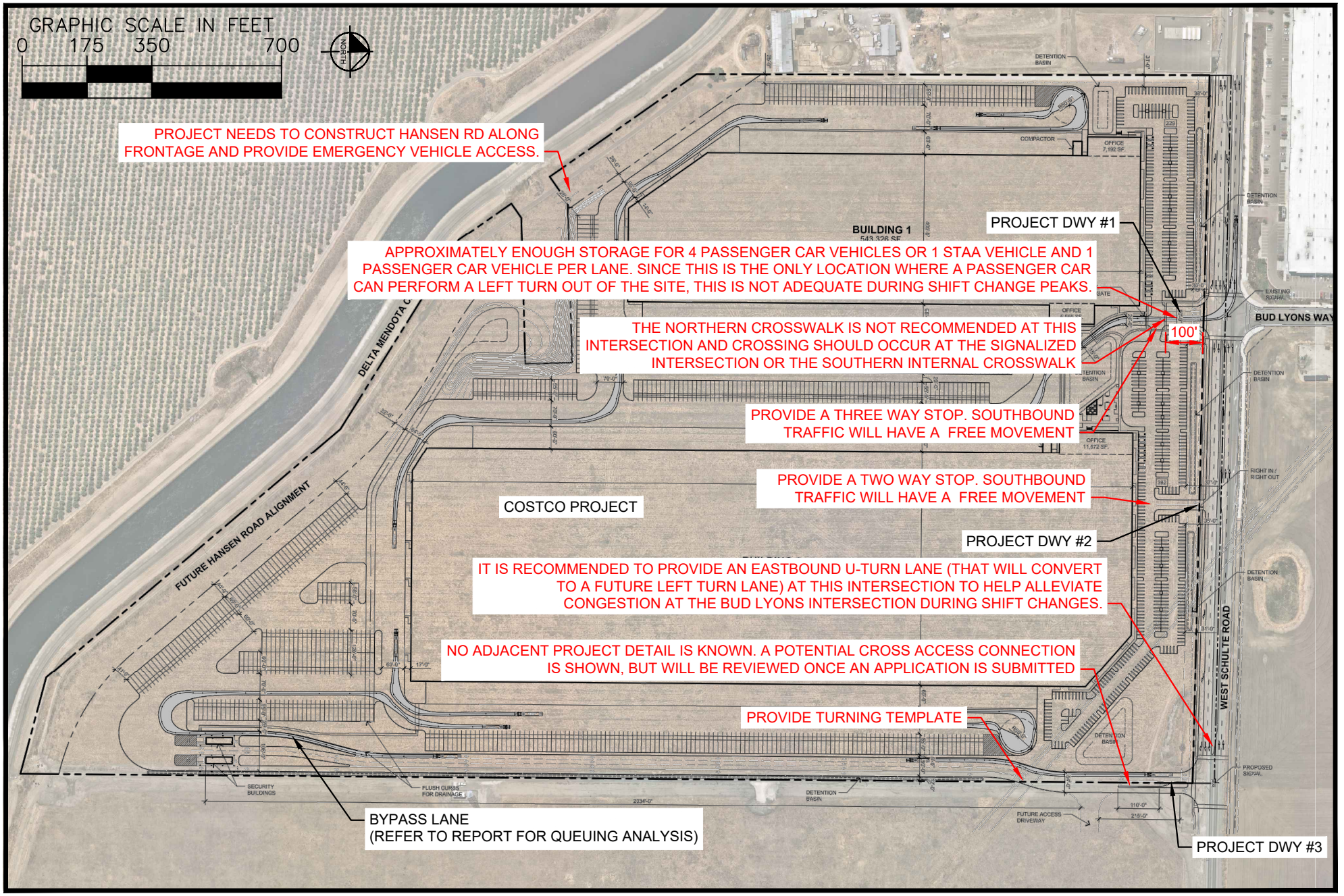


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Figure 23
Internal Circulation Review
Costco Site Plan Review
Tracy Costco Direct Delivery Center

12. Vehicle Turning Templates

The following design vehicles were analyzed at each Project driveway:

1. Passenger Car
2. STAA Truck

It is anticipated that passenger cars will only access the site from Driveways #1 and #2. It is anticipated that STAA trucks will only exit the site at Driveway #1 but can fully access the site at Driveway #3.

Figure 24 illustrates the passenger car turning templates and **Figure 25** illustrates the STAA truck turning templates.

It was determined that a passenger car can access the site with no turning conflicts.

The following comments have been provided for the STAA turning templates:

- STAA trucks are unable to perform northbound right turn at Driveway #1. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site.
- STAA trucks are unable to perform eastbound and northbound right turns at Driveway #3. Design modifications to the proposed curb are required to allow STAA trucks to perform necessary movements to access the site.
- A westbound left turn must be provided at Driveway #3 and it must accommodate a STAA truck turning template.

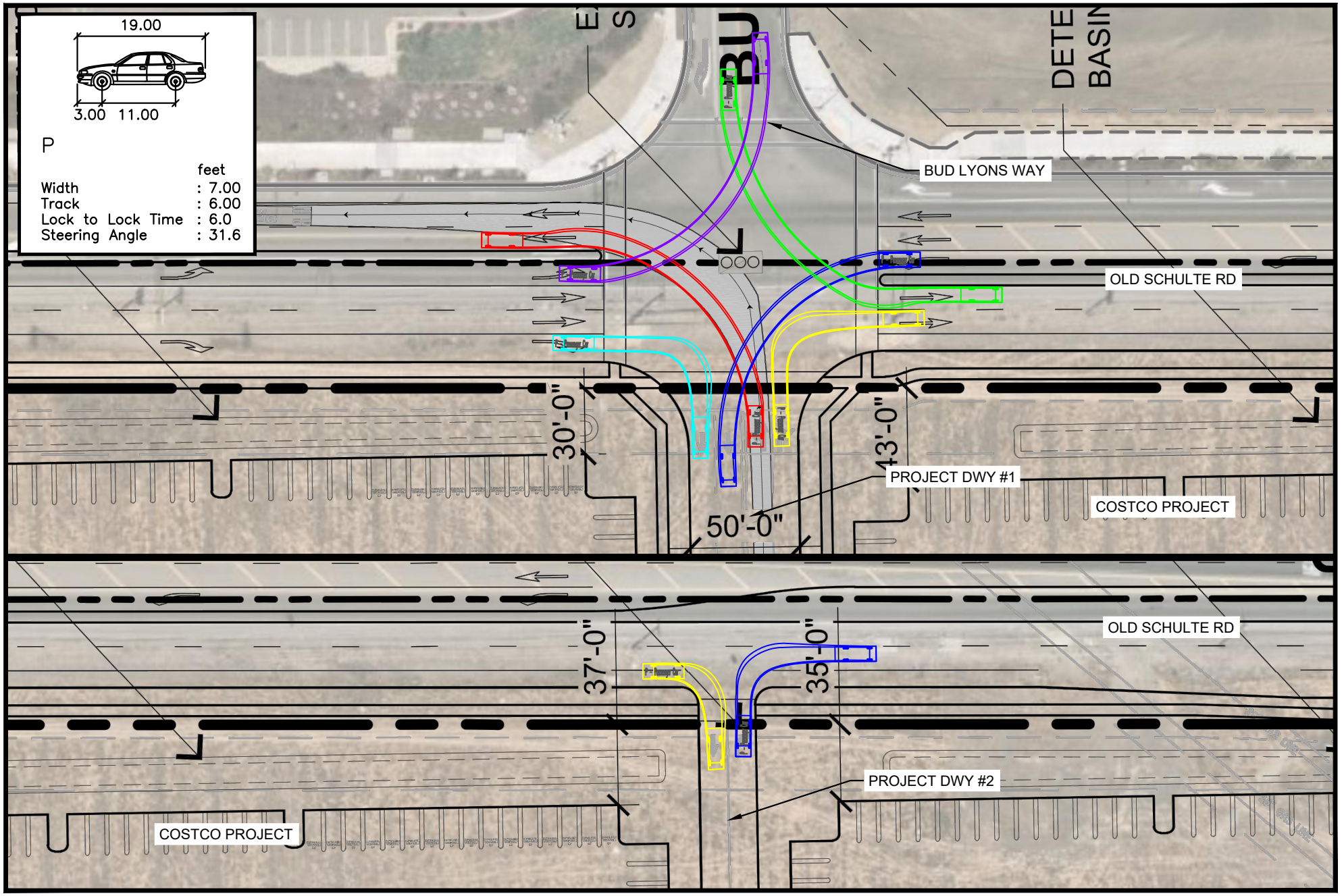

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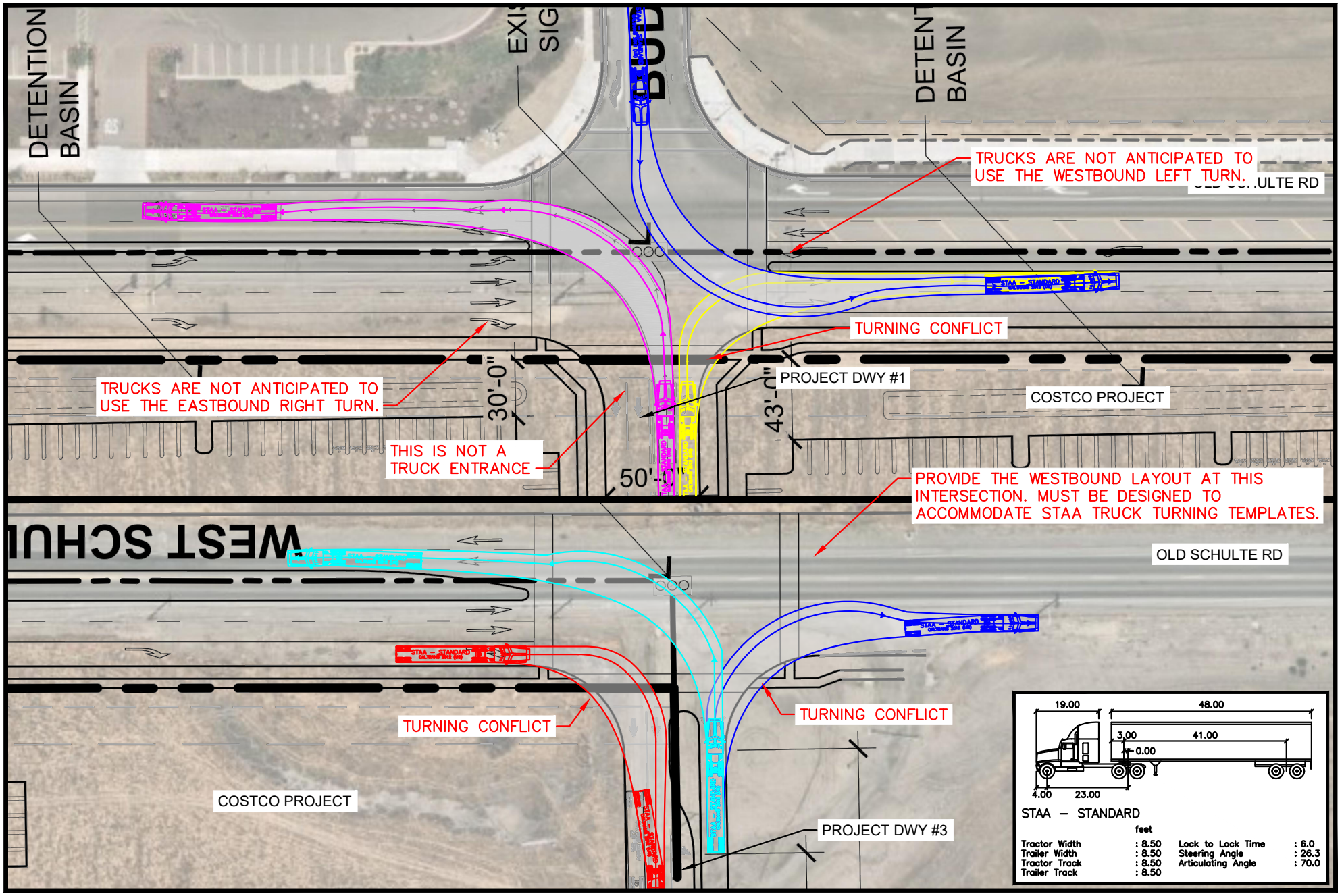
Figure 24
Passenger Car Turning Templates
Costco Site Plan Review
Tracy Costco Direct Delivery Center



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NORTH

GRAPHIC SCALE IN FEET
0 35 70 140

Figure 25
STAA Truck Turning Template
Costco Site Plan Review
Tracy Costco Direct Delivery Center

December 2021

13. External Network Review

The Project frontage was reviewed per the City of Tracy TMP 4-Lane Parkway cross section provided in **Figure 26**.

Figure 26 – 4-Lane Parkway TMP Cross Section

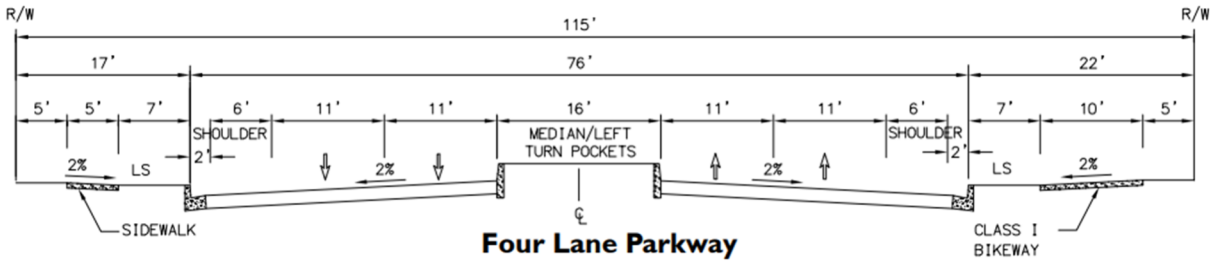
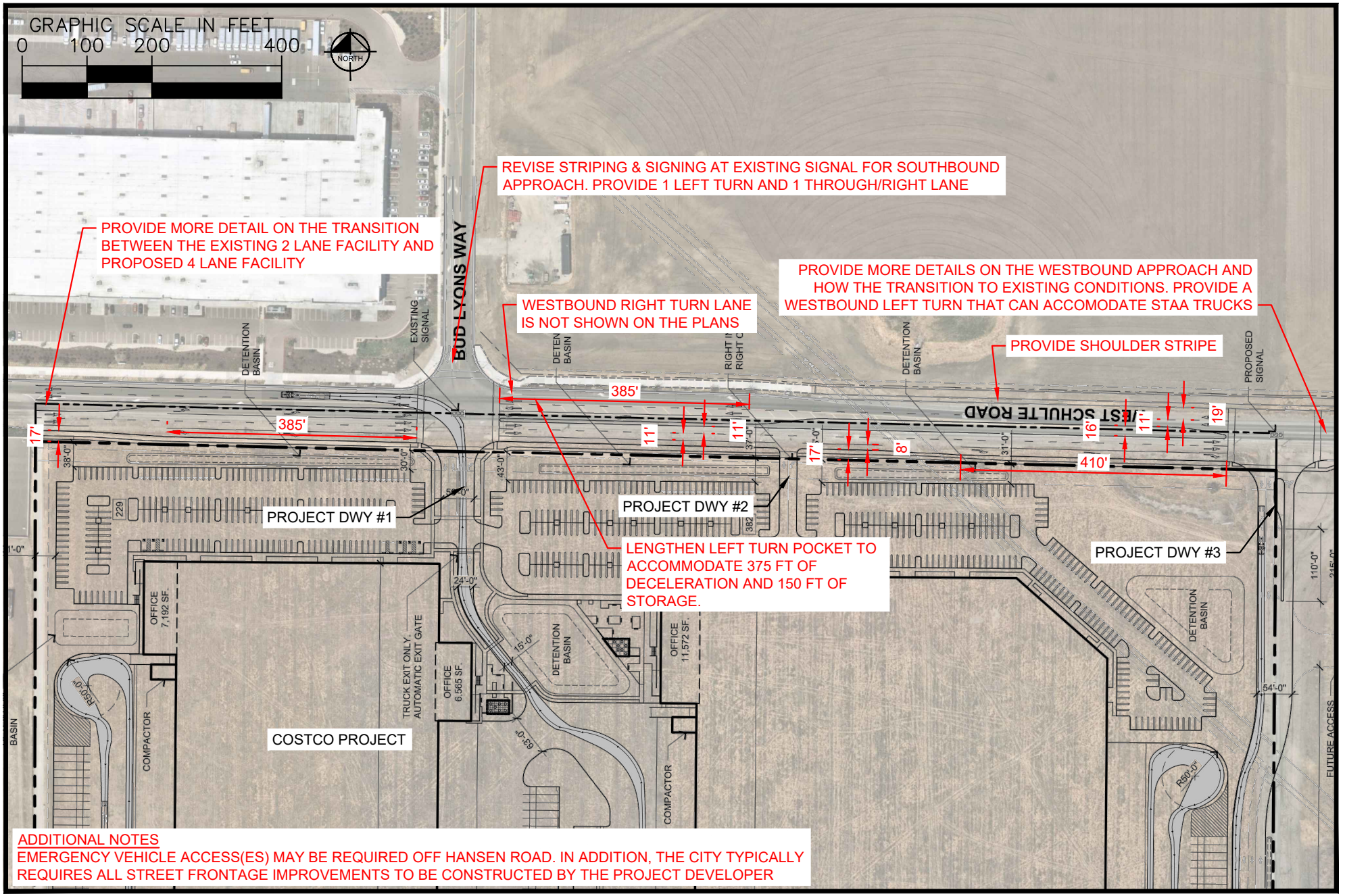


Figure 27 illustrates the external network comments. The following summarizes the comments:

- Provide more detail on the transitions between existing conditions on both the east and west end of the Project limits.
- Provide the striping at the intersection of Old Schulte Road and Project Driveway #3. This approach must include a westbound left turn pocket that can accommodate a CA-STAA truck.
- Revise the signing and striping for the southbound movement at Old Schulte Road and Bud Lyons Way. Provide one left turn and one through/right lane.
- The Westbound right turn lane at the intersection of Old Schulte Road and Bud Lyons is existing and should be shown on the plan set.
- Provide eastbound shoulder stripe.
- Lengthen the westbound left turn lane at Project Driveway #1 to accommodate 375 feet of deceleration and 150 feet of storage.
- Emergency vehicle access(es) may be required off Hansen Road. In addition, the City typically requires all street frontage improvements to be constructed but the Project developer.



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December 2021

Figure 27
External Network Review
Costco Site Plan Review
Tracy Costco Direct Delivery Center

14. Merge Analysis on Westbound Old Schulte Road East of the Delta-Mendota Canal Bridge

A review of the Old Schulte Road roadway widening at the Delta-Mendota Canal Bridge was conducted to determine if queues from the merge would spill back into the Hansen Road and Old Schulte Road intersection.

Currently, the Delta-Mendota Canal Bridge is a two-lane facility and is located on Old Schulte Road just east of the Costco Development. The purpose of this study is to determine if the Delta-Mendota Canal Bridge widening is required by Phase 1 or the full Costco development.

Queuing Analysis

Queuing analysis was completed using SimTraffic 11 and the average of 5 seedings were utilized, consistent with industry practice. The following conditions were analyzed:

- Background Conditions without bridge widening
- Background Plus Phase 1 Conditions (without bridge widening)
- Background Plus Costco Buildout Conditions (without bridge widening)

For this analysis only the AM peak hour were analyzed because it was determined that the deficiency occurred in the westbound direction during the AM peak hour in the previous study.

For information on volumes utilized for this analysis refer to the Costco Direct Delivery Center Traffic Analysis (June 2022).

The following improvement has been assumed:

- Widening of Old Schulte Road
    - Widen Old Schulte Road to a four-lane facility from 295 feet west of Hansen Road to the eastern boundary of the Costco Project.

The distance from the Delta-Mendota Canal Bridge to the Hansen Road and Old Schulte Road intersection is approximately 900 feet. According to the Caltrans Highway Design Manual (HDM), the necessary lane merge distance for a 45 MPH road (design speed of 55 MPH) with 11-foot wide lanes is equivalent to 605 feet (55 MPH * 11 feet) of merge distance required. Therefore, the lane merge must occur approximately 295 feet west of the intersection of Hansen Road and Old Schulte Road.

Figure 28 provides an illustration of the HDM requirements.

Table 15 provides the 95th percentile queueing analysis for the Project. **Table 16** provides the maximum queueing analysis for the Project.

From the analysis it was determined that the 95th percentile queues for Phase 1 and the full Costco development would not extend into the intersepction. The maximum queues were provided for informational purposes and it was determined that the maximum queues could extend into the intersection; however, standard practice is to utilize the 95th percentile queue for analysis. Small flucations in traffic (increase) would result in the westbound 95th percentile queues extending into the Hansen Road and Old Schulte Road intersection.

Therefore, this analysis shows that the Costco development is not triggering the widening of the Delta-Mendota Canal Bridge for Background Plus Project Conditions. It was concluded from the queuing analysis, that the widening of the Delta-Mendota Canal Bridge is imminent.

Table 15 – 95th Percentile Queueing Analysis

Scenario	Available Queue Capacity	AM Westbound 95th Percentile Queue		95th Percentile Queue Acceptable? (Y/N)
		Lane 1	Lane 2	
Background Conditions	295 ft	148 ft	69 ft	Y
Background Plus Phase 1 Conditions (without bridge widening)		174 ft	71 ft	Y
Background Plus Costco Development Conditions (without bridge widening)		165 ft	100 ft	Y

Notes
1. Simtraffic Simulations results are averaged from 5 simulations

Table 16 – Maximum Queueing Analysis

Scenario	Available Queue Capacity	AM Westbound Maximum Queue		Maximum Queue Acceptable? (Y/N)
		Lane 1	Lane 2	
Background Conditions	295 ft	232 ft	122 ft	Y
Background Plus Phase 1 Conditions (without bridge widening)		**304 ft**	143 ft	**N**
Background Plus Costco Development Conditions (without bridge widening)		**309 ft**	270 ft	**N**

Notes
1. Simtraffic Simulations results are averaged from 5 simulations

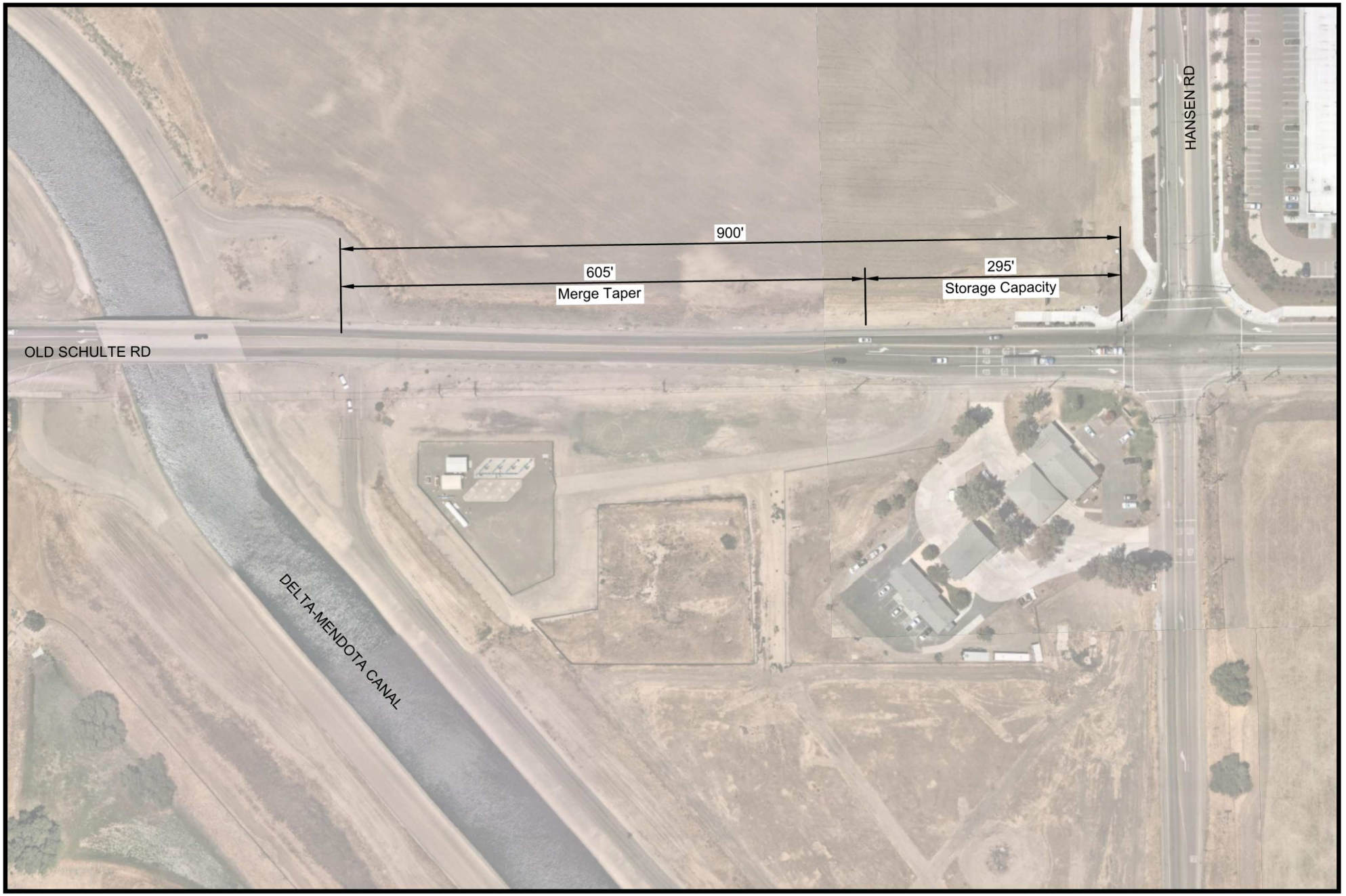

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Figure 28

Queue Capacity

Tracy Costco Direct Delivery Center

July 2022

15. Appendix

A. Project Site Plan

B. Traffic Counts

C. Background Conditions Synchro Outputs

D. Background Plus Project Conditions Synchro Outputs

E. Background Plus Project Conditions (Mitigated) Synchro Outputs

F. Cumulative Conditions Synchro Outputs

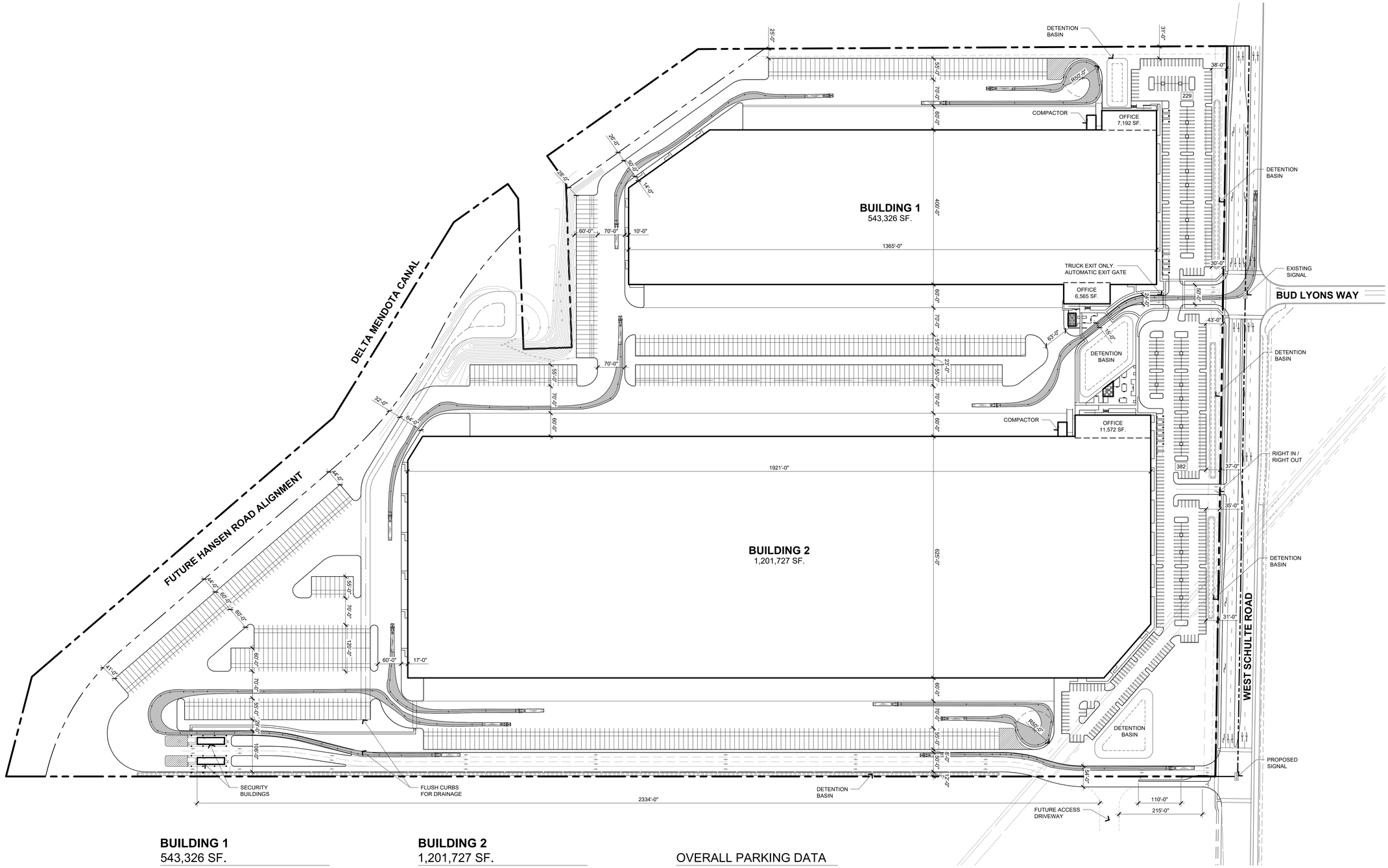
G. Cumulative Plus Project Conditions Synchro Outputs

H. Cumulative Plus Project (Mitigated) Conditions Synchro Outputs

I. Truck Queuing Analysis

J. Old Schulte Road Merge Simtraffic Analysis

A. Project Site Plan



BUILDING 1
543,326 SF.

1/1000 s.f. for First 20,000 s.f. of Building Area:	20 Stalls
1/2000 s.f. for 20,000-40,000 s.f. of Building Area:	+10 Stalls
1/4000 s.f. for Remaining s.f. of Building Area. Remaining Warehouse Building Area (489,569 s.f.)	+123 Stalls
1/250 s.f. for the Office Building Area (13,757 s.f.):	+56 Stalls
Total Required Parking:	**209 Stalls**
Total Proposed Parking:	**229 Stalls**
Total Proposed Truck/Trailer Parking:	**204 Stalls**

BUILDING 2
1,201,727 SF.

1/1000 s.f. for First 20,000 s.f. of Building Area:	20 Stalls
1/2000 s.f. for 20,000-40,000 s.f. of Building Area:	+10 Stalls
1/4000 s.f. for Remaining s.f. of Building Area. Remaining Warehouse Building Area (1,150,155 s.f.):	+288 Stalls
1/250 s.f. for the Office Building Area (11,572 s.f.):	+47 Stalls
Total Required Parking:	**365 Stalls**
Total Proposed Parking:	**382 Stalls**
Total Proposed Truck/Trailer Parking:	**371 Stalls**

OVERALL PARKING DATA

Required 9' Wide Standard Parking Stalls:	517 Stalls
Required Accessible Parking Stalls:	12 Stalls
Required Clean Air / Vanpool / EV Parking Stalls: (Including EV Accessible Parking Stalls)	45 Stalls
Total Required Parking:	**574 Stalls**
Total Proposed Parking:	**611 Stalls**

DBA # P.281

DB+A
DAVID BABCOCK + ASSOCIATES
ARCHITECTURE PLANNING LANDSCAPE
3581 MT. DIABLO BLVD., SUITE 235
LAFAYETTE, CALIFORNIA 94549
T: 925.283.5070

COSTCO FACILITIES

CONCEPT SITE PLAN 13.0

0 30' 60' 120' 240'

SCALE 1"=120'

June 2, 2021

NORTH

SHEET 1 of 1

B. Traffic Counts

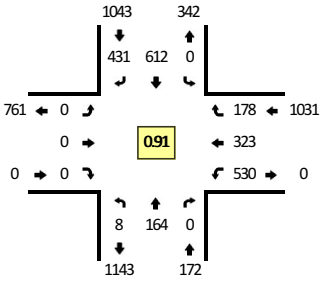
Type of peak hour being reported: Intersection Peak

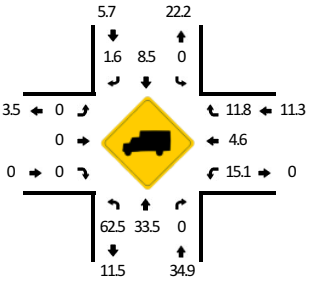
Method for determining peak hour: Total Entering Volume

LOCATION: Mountain House Pkwy -- I-205 WB Ramps
CITY/STATE: San Joaquin, CA

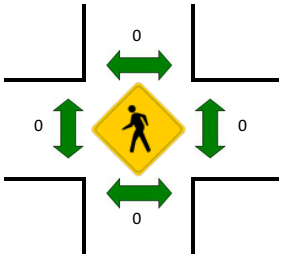
QC JOB #: 14993001
DATE: Thu, May 23 2019

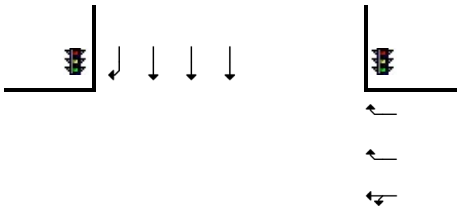
Peak-Hour: 7:00 AM -- 8:00 AM
Peak 15-Min: 7:00 AM -- 7:15 AM

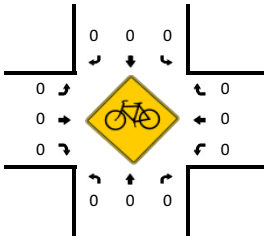


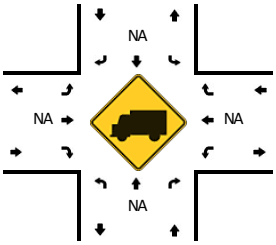


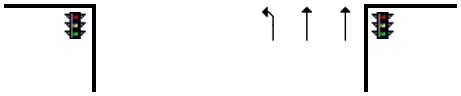
Quality Counts
DATA THAT DRIVES COMMUNITIES

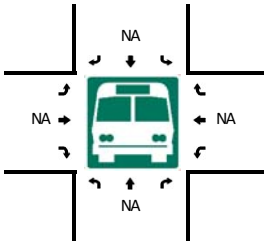












5-Min Count Period Beginning At	Mountain House Pkwy (Northbound)				Mountain House Pkwy (Southbound)				I-205 WB Ramps (Eastbound)				I-205 WB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	1	8	0	0	0	63	67	0	0	0	0	0	27	21	13	0	200	
7:05 AM	0	11	0	0	0	51	56	0	0	0	0	0	39	27	13	0	197	
7:10 AM	0	14	0	0	0	60	63	0	0	0	0	0	46	25	13	0	221	
7:15 AM	1	9	0	0	0	68	38	0	0	0	0	0	44	19	9	0	188	
7:20 AM	1	10	0	0	0	36	36	0	0	0	0	0	41	24	13	0	161	
7:25 AM	1	20	0	0	0	45	23	0	0	0	0	0	57	33	12	0	191	
7:30 AM	0	12	0	1	0	60	14	0	0	0	0	0	45	31	20	0	183	
7:35 AM	1	15	0	0	0	34	26	0	0	0	0	0	52	31	10	0	169	
7:40 AM	0	13	0	0	0	57	28	0	0	0	0	0	43	27	11	0	179	
7:45 AM	2	16	0	0	0	53	22	0	0	0	0	0	34	27	20	0	174	
7:50 AM	0	18	0	0	0	43	31	0	0	0	0	0	44	33	32	0	201	
7:55 AM	0	18	0	0	0	42	27	0	0	0	0	0	58	25	12	0	182	2246
8:00 AM	1	10	0	0	0	56	29	0	0	0	0	0	46	19	15	0	176	2222
8:05 AM	1	14	0	0	0	40	25	0	0	0	0	0	45	40	20	0	185	2210
8:10 AM	0	7	0	0	0	46	17	0	0	0	0	0	50	13	23	0	156	2145
8:15 AM	0	14	0	0	0	41	12	0	0	0	0	0	33	6	25	0	131	2088
8:20 AM	0	15	0	0	0	38	18	0	0	0	0	0	29	3	16	0	119	2046
8:25 AM	0	6	0	0	0	28	14	0	0	0	0	0	42	0	13	0	103	1958
8:30 AM	0	11	0	0	0	35	11	0	0	0	0	0	21	0	15	0	93	1868
8:35 AM	1	16	0	0	0	35	13	0	0	0	0	0	21	1	18	0	105	1804
8:40 AM	0	10	0	0	0	34	6	0	0	0	0	0	24	0	21	0	95	1720
8:45 AM	0	13	0	0	0	40	13	0	0	0	0	0	27	1	20	0	114	1660
8:50 AM	0	4	0	0	0	28	5	0	0	0	0	0	19	0	16	0	72	1531
8:55 AM	0	16	0	0	0	53	8	0	0	0	0	0	20	0	16	0	113	1462

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	4	132	0	0	0	696	744	0	0	0	0	0	448	292	156	0	2472
Heavy Trucks	4	48	0		0	96	4		0	0	0		100	12	20		284
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

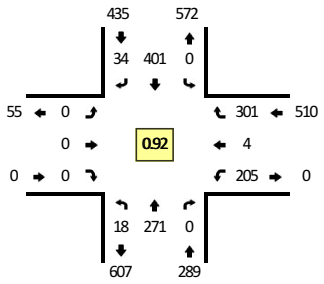
Report generated on 6/4/2019 3:33 PM

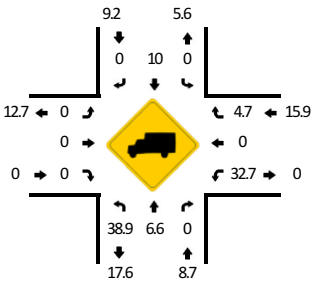
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

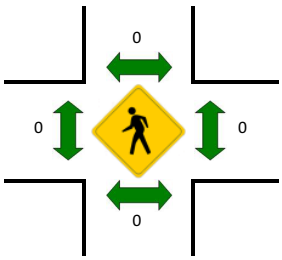
LOCATION: Mountain House Pkwy -- I-205 WB Ramps | **QC JOB #:** 14993002
CITY/STATE: San Joaquin, CA | **DATE:** Thu, May 23 2019

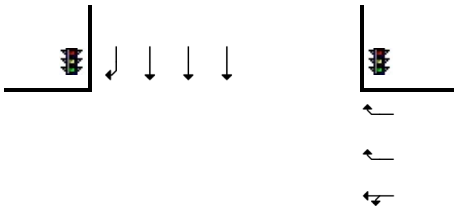
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:25 PM -- 4:40 PM

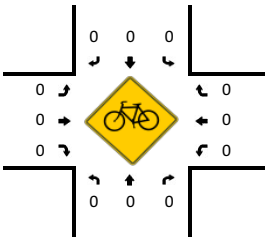


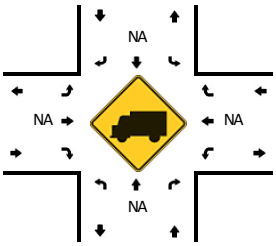


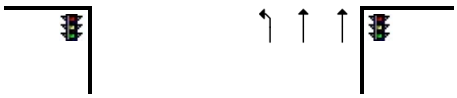
Quality Counts
DATA THAT DRIVES COMMUNITIES

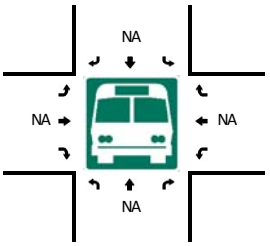












5-Min Count Period Beginning At	Mountain House Pkwy (Northbound)				Mountain House Pkwy (Southbound)				I-205 WB Ramps (Eastbound)				I-205 WB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	1	13	0	0	0	27	2	0	0	0	0	0	23	0	33	0	99	
4:05 PM	1	26	0	0	0	46	1	0	0	0	0	0	8	0	18	0	100	
4:10 PM	3	30	0	0	0	43	3	0	0	0	0	0	15	0	23	0	117	
4:15 PM	1	16	0	0	0	38	4	0	0	0	0	0	13	0	23	0	95	
4:20 PM	1	24	0	0	0	23	4	0	0	0	0	0	17	0	26	0	95	
4:25 PM	1	19	0	0	0	37	3	0	0	0	0	0	17	0	32	0	109	
4:30 PM	2	19	0	0	0	38	3	0	0	0	0	0	15	0	25	0	102	
4:35 PM	1	35	0	0	0	41	5	0	0	0	0	0	14	2	25	0	123	
4:40 PM	1	19	0	0	0	26	1	0	0	0	0	0	24	0	24	0	95	
4:45 PM	1	21	0	0	0	30	1	0	0	0	0	0	17	1	32	0	103	
4:50 PM	0	27	0	1	0	24	4	0	0	0	0	0	19	1	27	0	103	
4:55 PM	4	22	0	0	0	28	3	0	0	0	0	0	23	0	13	0	93	1234
5:00 PM	0	13	0	1	0	15	4	0	0	0	0	0	16	0	32	0	81	1216
5:05 PM	2	18	0	0	0	33	3	0	0	0	0	0	11	0	23	0	90	1206
5:10 PM	0	19	0	0	0	35	1	0	0	0	0	0	10	0	26	0	91	1180
5:15 PM	1	17	0	0	0	27	1	0	0	0	0	0	17	0	34	0	97	1182
5:20 PM	2	16	0	1	0	23	1	0	0	0	0	0	15	0	15	0	73	1160
5:25 PM	1	17	0	0	0	32	8	0	0	0	0	0	19	0	31	0	108	1159
5:30 PM	0	31	0	0	0	28	2	0	0	0	0	0	21	0	30	0	112	1169
5:35 PM	1	18	0	0	0	22	4	0	0	0	0	0	15	0	28	0	88	1134
5:40 PM	0	16	0	0	0	28	1	0	0	0	0	0	19	0	33	0	97	1136
5:45 PM	1	11	0	0	0	33	5	0	0	0	0	0	18	0	30	0	98	1131
5:50 PM	0	19	0	0	0	29	2	0	0	0	0	0	19	0	23	0	92	1120
5:55 PM	0	11	0	1	0	30	5	0	0	0	0	0	19	0	17	0	83	1110

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	16	292	0	0	0	464	44	0	0	0	0	0	184	8	328	0	1336
Heavy Trucks	8	12	0		0	44	0		0	0	0		60	0	20		144
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

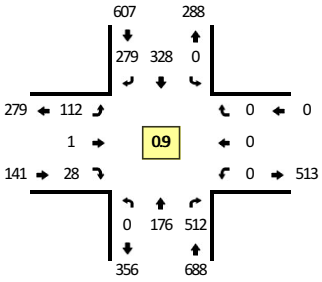
Type of peak hour being reported: Intersection Peak

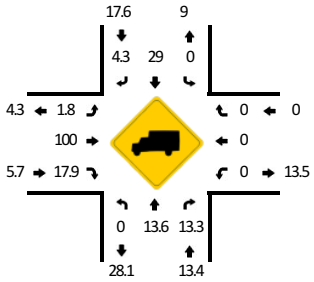
Method for determining peak hour: Total Entering Volume

LOCATION: Mountain House Pkwy -- I-205 EB Ramps
CITY/STATE: San Joaquin, CA

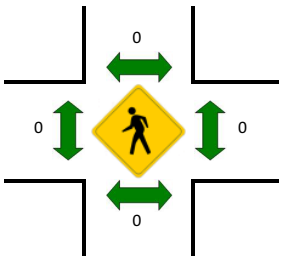
QC JOB #: 14993004
DATE: Thu, May 23 2019

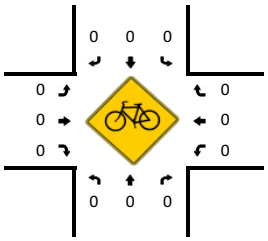
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:00 PM -- 4:15 PM

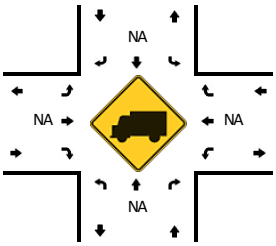


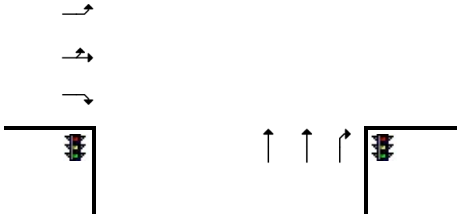


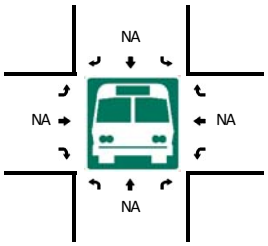
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	Mountain House Pkwy (Northbound)				Mountain House Pkwy (Southbound)				I-205 EB Ramps (Eastbound)				I-205 EB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	12	49	0	0	33	17	0	3	0	2	0	0	0	0	0	116	
4:05 PM	0	16	55	0	0	22	32	0	11	0	1	0	0	0	0	0	137	
4:10 PM	0	24	55	0	0	31	27	0	8	0	2	0	0	0	0	0	147	
4:15 PM	0	10	42	0	0	16	35	0	7	0	1	0	0	0	0	0	111	
4:20 PM	0	12	49	0	0	26	14	0	11	0	3	0	0	0	0	0	115	
4:25 PM	0	9	33	0	0	23	31	0	9	0	3	0	0	0	0	0	108	
4:30 PM	0	9	53	0	0	33	20	0	15	0	6	0	0	0	0	0	136	
4:35 PM	0	18	38	0	0	27	30	0	13	0	4	0	0	0	0	0	130	
4:40 PM	0	18	39	0	0	32	16	0	5	1	3	0	0	0	0	0	114	
4:45 PM	0	17	27	0	0	25	23	0	8	0	3	0	0	0	0	0	103	
4:50 PM	0	19	49	0	0	28	15	0	14	0	0	0	0	0	0	0	125	
4:55 PM	0	12	23	0	0	32	19	0	8	0	0	0	0	0	0	0	94	1436
5:00 PM	0	12	40	0	0	18	14	0	3	0	1	0	0	0	0	0	88	1408
5:05 PM	0	15	48	0	0	22	22	0	5	0	2	0	0	0	0	0	114	1385
5:10 PM	0	11	46	0	0	26	17	0	8	0	1	0	0	0	0	0	109	1347
5:15 PM	0	14	34	0	1	27	18	0	8	0	1	0	0	0	0	0	103	1339
5:20 PM	0	10	38	0	0	17	22	0	5	0	3	0	0	0	0	0	95	1319
5:25 PM	0	10	32	0	0	30	22	0	9	0	0	0	0	0	0	0	103	1314
5:30 PM	0	16	47	0	0	28	20	0	14	0	0	0	0	0	0	0	125	1303
5:35 PM	0	10	41	0	0	20	17	0	6	0	2	0	0	0	0	0	96	1269
5:40 PM	0	12	65	0	0	30	17	0	9	0	1	0	0	0	0	0	134	1289
5:45 PM	0	7	37	0	0	26	25	0	3	0	0	0	0	0	0	0	98	1284
5:50 PM	0	10	33	0	0	27	21	0	5	0	1	0	0	0	0	0	97	1256
5:55 PM	0	5	35	0	0	30	20	0	9	0	1	0	0	0	0	0	100	1262

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	208	636	0	0	344	304	0	88	0	20	0	0	0	0	0	1600
Heavy Trucks	0	20	72		0	84	12		0	0	4		0	0	0		192
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

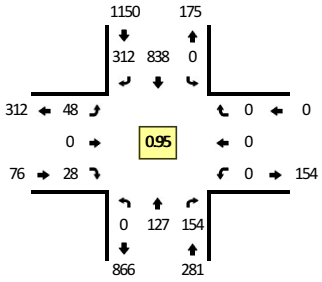
Type of peak hour being reported: Intersection Peak

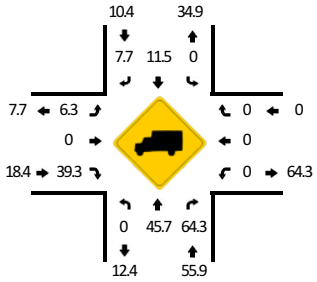
Method for determining peak hour: Total Entering Volume

LOCATION: Mountain House Pkwy -- I-205 EB Ramps
CITY/STATE: San Joaquin, CA

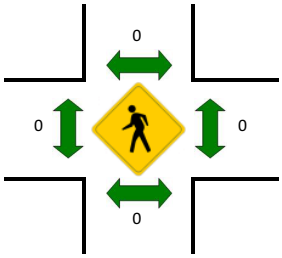
QC JOB #: 14993003
DATE: Thu, May 23 2019

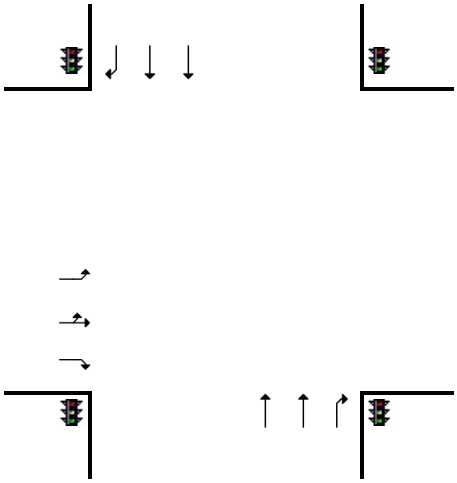
Peak-Hour: 7:10 AM -- 8:10 AM
Peak 15-Min: 7:50 AM -- 8:05 AM

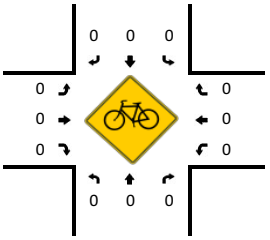


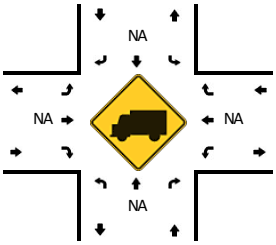


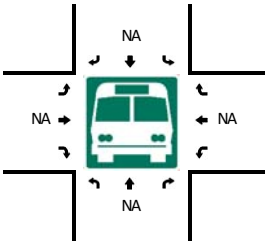
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	Mountain House Pkwy (Northbound)				Mountain House Pkwy (Southbound)				I-205 EB Ramps (Eastbound)				I-205 EB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	5	12	0	0	69	21	0	3	0	2	0	0	0	0	0	112	
7:05 AM	0	12	9	0	0	79	11	0	1	0	1	0	0	0	0	0	113	
7:10 AM	0	12	8	0	0	78	28	0	2	0	3	0	0	0	0	0	131	
7:15 AM	0	6	11	0	0	95	17	0	5	0	1	0	0	0	0	0	135	
7:20 AM	0	5	11	0	0	67	10	0	6	0	2	0	0	0	0	0	101	
7:25 AM	0	14	9	0	0	90	12	0	6	0	1	0	0	0	0	0	132	
7:30 AM	0	10	7	0	0	69	37	0	4	0	1	0	0	0	0	0	128	
7:35 AM	0	9	11	0	0	58	28	0	6	0	6	0	0	0	0	0	118	
7:40 AM	0	11	14	0	0	68	32	0	0	0	2	0	0	0	0	0	127	
7:45 AM	0	11	7	0	0	45	41	0	7	0	2	0	0	0	0	0	113	
7:50 AM	0	17	16	0	0	59	29	0	2	0	7	0	0	0	0	0	130	
7:55 AM	0	13	15	0	0	78	22	0	5	0	2	0	0	0	0	0	135	1475
8:00 AM	0	6	23	0	0	65	33	0	4	0	1	0	0	0	0	0	132	1495
8:05 AM	0	13	22	0	0	66	23	0	1	0	0	0	0	0	0	0	125	1507
8:10 AM	0	4	22	0	0	70	26	0	3	0	4	0	0	0	0	0	129	1505
8:15 AM	0	12	23	0	1	44	29	0	5	0	4	0	0	0	0	0	118	1488
8:20 AM	0	5	10	0	0	40	27	0	5	0	0	0	0	0	0	0	87	1474
8:25 AM	0	7	24	0	0	53	17	0	2	0	3	0	0	0	0	0	106	1448
8:30 AM	0	3	16	0	0	40	16	0	3	0	0	0	0	0	0	0	78	1398
8:35 AM	0	15	17	0	0	27	28	1	2	1	2	0	0	0	0	0	93	1373
8:40 AM	0	5	28	0	0	32	26	0	6	0	1	0	0	0	0	0	98	1344
8:45 AM	0	8	19	0	0	39	28	0	3	0	0	0	0	0	0	0	97	1328
8:50 AM	0	8	15	0	0	27	20	0	2	0	2	0	0	0	0	0	74	1272
8:55 AM	0	7	15	0	0	34	39	0	3	0	3	0	0	0	0	0	101	1238

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	144	216	0	0	808	336	0	44	0	40	0	0	0	0	0	1588
Heavy Trucks	0	60	152		0	108	12		4	0	12		0	0	0		348
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

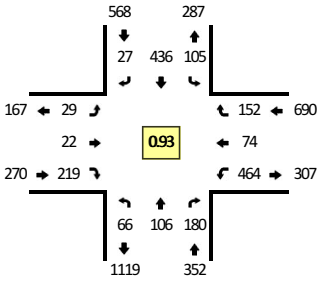
Type of peak hour being reported: Intersection Peak

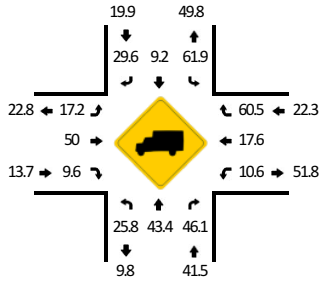
Method for determining peak hour: Total Entering Volume

LOCATION: International Pkwy -- W Schulte Rd
CITY/STATE: San Joaquin, CA

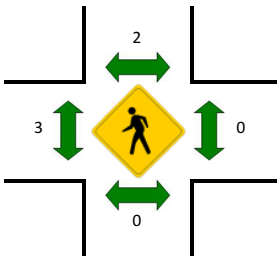
QC JOB #: 14993011
DATE: Thu, May 23 2019

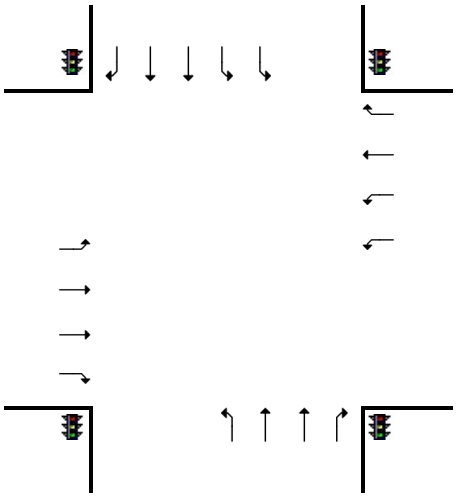
Peak-Hour: 7:05 AM -- 8:05 AM
Peak 15-Min: 7:40 AM -- 7:55 AM

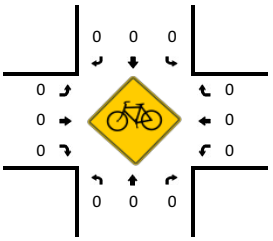


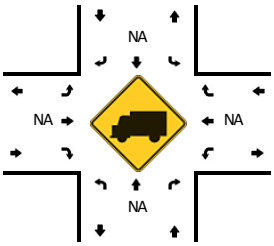


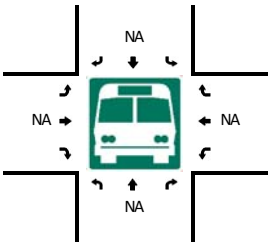
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	International Pkwy (Northbound)				International Pkwy (Southbound)				W Schulte Rd (Eastbound)				W Schulte Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	10	7	12	1	8	33	4	0	1	2	27	0	42	9	2	0	158	
7:05 AM	5	13	18	0	13	53	4	0	3	0	24	0	28	4	11	0	176	
7:10 AM	3	7	21	0	3	20	2	0	2	2	16	0	64	3	7	0	150	
7:15 AM	4	5	9	0	3	28	0	0	2	1	22	0	44	5	11	0	134	
7:20 AM	8	6	17	0	10	24	3	0	1	1	22	0	58	11	13	0	174	
7:25 AM	6	8	15	0	13	54	3	0	2	5	27	0	27	8	8	0	176	
7:30 AM	10	13	13	0	10	32	2	0	0	2	24	0	36	4	9	0	155	
7:35 AM	5	7	9	0	1	31	1	0	2	0	16	0	40	9	11	0	132	
7:40 AM	8	13	14	0	18	56	4	0	2	2	17	0	42	12	21	0	209	
7:45 AM	3	13	18	0	5	28	3	0	5	3	16	0	42	6	12	0	154	
7:50 AM	5	7	22	0	7	31	3	0	6	1	11	0	32	3	17	0	145	
7:55 AM	2	6	12	0	6	38	0	0	1	3	13	0	18	5	9	0	113	1876
8:00 AM	7	8	12	0	16	41	2	0	3	2	11	0	33	4	23	0	162	1880
8:05 AM	4	11	10	1	8	56	4	0	0	4	8	0	29	0	23	0	158	1862
8:10 AM	5	6	8	0	10	30	1	0	1	3	6	0	43	4	20	0	137	1849
8:15 AM	7	9	13	0	14	36	1	0	1	3	3	0	33	7	13	0	140	1855
8:20 AM	3	5	13	0	11	21	0	0	0	2	8	0	13	5	20	0	101	1782
8:25 AM	3	8	9	0	12	11	1	0	3	0	3	0	37	8	11	0	106	1712
8:30 AM	9	10	5	0	11	17	1	0	2	1	5	0	23	3	9	0	96	1653
8:35 AM	4	14	13	0	10	19	2	0	2	0	5	0	24	9	17	0	119	1640
8:40 AM	7	3	9	0	10	13	3	0	1	2	6	0	23	2	18	0	97	1528
8:45 AM	3	7	12	0	15	10	0	0	1	2	6	0	30	3	12	0	101	1475
8:50 AM	4	7	13	0	8	12	1	0	1	0	4	0	25	5	17	0	97	1427
8:55 AM	3	10	11	0	9	9	3	0	4	0	6	0	16	3	15	0	89	1403

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	64	132	216	0	120	460	40	0	52	24	176	0	464	84	200	0	2032
Heavy Trucks	0	76	100		64	32	8		8	16	8		56	20	132		520
Pedestrians		0				0				8				0			8
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

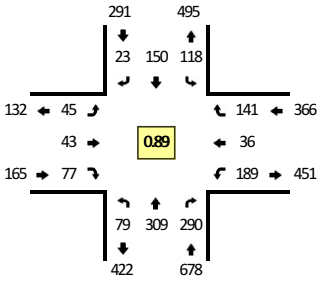
Type of peak hour being reported: Intersection Peak

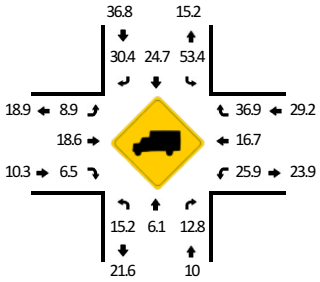
Method for determining peak hour: Total Entering Volume

LOCATION: International Pkwy -- W Schulte Rd
CITY/STATE: San Joaquin, CA

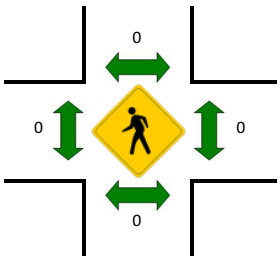
QC JOB #: 14993012
DATE: Thu, May 23 2019

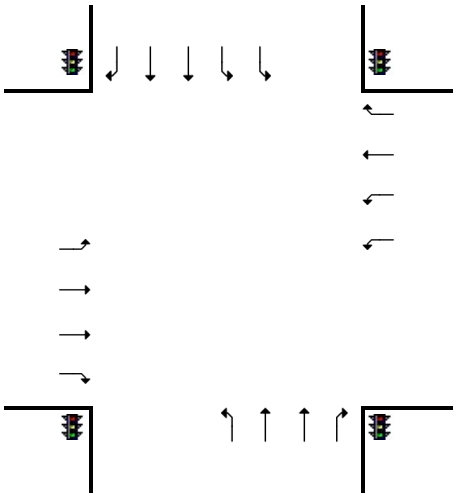
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:35 PM -- 4:50 PM

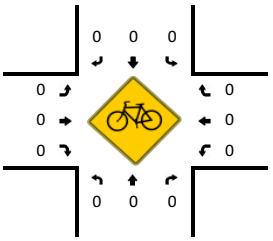


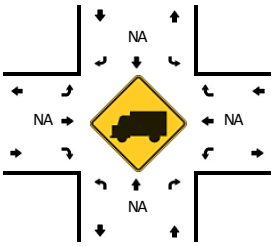


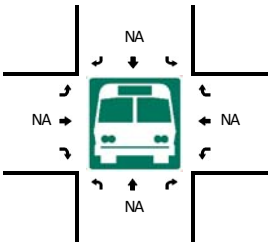
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	International Pkwy (Northbound)				International Pkwy (Southbound)				W Schulte Rd (Eastbound)				W Schulte Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	5	30	24	0	13	22	2	0	2	0	11	0	16	3	13	0	141	
4:05 PM	5	27	13	1	9	10	1	0	9	7	7	0	23	2	14	0	128	
4:10 PM	6	33	23	0	12	19	3	0	1	4	7	0	18	6	11	0	143	
4:15 PM	12	28	18	2	8	11	1	0	2	6	5	0	10	2	16	0	121	
4:20 PM	3	21	17	0	9	10	1	0	2	3	8	0	14	5	9	0	102	
4:25 PM	6	25	29	1	7	4	1	0	3	1	6	0	17	2	11	0	113	
4:30 PM	9	21	35	0	2	9	3	0	5	6	5	0	12	3	13	0	123	
4:35 PM	4	26	31	0	10	20	3	0	5	3	4	0	21	3	22	0	152	
4:40 PM	7	29	17	0	16	8	3	0	1	3	5	0	26	6	12	0	133	
4:45 PM	7	36	19	2	11	18	2	0	5	6	6	0	12	2	8	0	134	
4:50 PM	7	22	38	0	8	11	1	0	4	2	8	0	9	2	6	0	118	
4:55 PM	2	11	26	0	13	8	2	0	6	2	5	0	11	0	6	0	92	1500
5:00 PM	5	38	17	0	11	11	1	0	6	2	8	0	19	4	12	0	134	1493
5:05 PM	4	35	23	1	12	7	2	0	4	1	7	0	11	4	16	0	127	1492
5:10 PM	6	26	24	2	7	7	1	0	0	3	7	0	10	5	10	0	108	1457
5:15 PM	6	29	32	0	11	9	1	0	7	4	7	0	8	0	6	0	120	1456
5:20 PM	3	18	25	0	11	7	0	0	4	3	7	0	11	1	9	0	99	1453
5:25 PM	9	25	29	0	18	5	1	0	7	1	3	0	6	4	4	0	112	1452
5:30 PM	10	31	27	0	11	13	0	0	7	3	5	0	13	5	11	0	136	1465
5:35 PM	8	31	25	1	13	6	2	0	3	3	6	0	12	2	15	0	127	1440
5:40 PM	4	26	29	1	13	7	3	0	3	2	7	0	11	9	8	0	123	1430
5:45 PM	3	38	27	0	11	7	1	0	6	5	6	0	13	12	8	0	137	1433
5:50 PM	4	21	31	0	12	3	1	0	3	5	7	0	9	8	7	0	111	1426
5:55 PM	3	18	35	2	9	5	3	0	5	11	10	0	9	8	12	0	130	1464

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	72	364	268	8	148	184	32	0	44	48	60	0	236	44	168	0	1676
Heavy Trucks	4	24	36		68	64	12		4	12	0		56	8	52		340
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

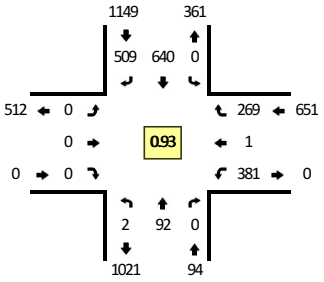
Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

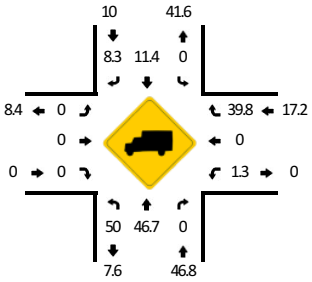
Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

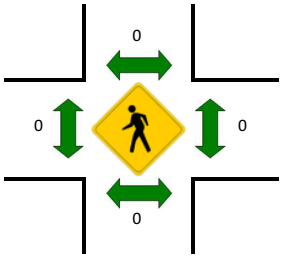
LOCATION: Patterson Pass Rd -- I-580 WB Ramps | **QC JOB #:** 14993013
CITY/STATE: San Joaquin, CA | **DATE:** Thu, May 23 2019

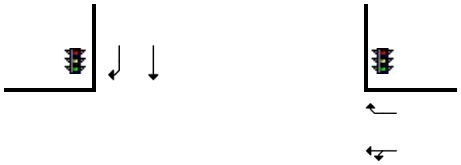
Peak-Hour: 7:00 AM -- 8:00 AM
Peak 15-Min: 7:00 AM -- 7:15 AM

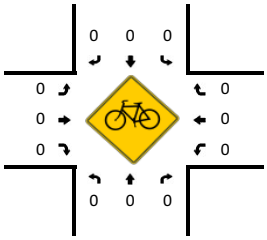


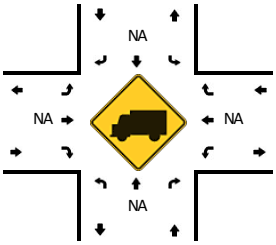
Quality Counts
DATA THAT DRIVES COMMUNITIES

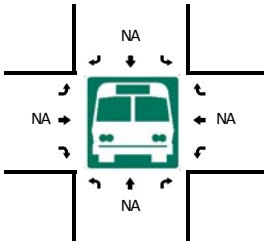












5-Min Count Period Beginning At	Patterson Pass Rd (Northbound)				Patterson Pass Rd (Southbound)				I-580 WB Ramps (Eastbound)				I-580 WB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	2	0	0	0	67	50	0	0	0	0	0	30	0	27	0	176	
7:05 AM	0	7	0	0	0	67	35	0	0	0	0	0	22	0	25	0	156	
7:10 AM	1	9	0	0	0	45	48	0	0	0	0	0	48	0	27	0	178	
7:15 AM	0	10	0	0	0	41	46	0	0	0	0	0	45	0	17	0	159	
7:20 AM	0	3	0	0	0	49	55	0	0	0	0	0	39	0	16	0	162	
7:25 AM	0	11	0	0	0	60	59	0	0	0	0	0	28	1	22	0	181	
7:30 AM	0	11	0	0	0	49	34	0	0	0	0	0	29	0	25	0	148	
7:35 AM	0	7	0	0	0	51	39	0	0	0	0	0	43	0	16	0	156	
7:40 AM	0	5	0	0	0	57	39	0	0	0	0	0	42	0	32	0	175	
7:45 AM	0	10	0	0	0	64	45	0	0	0	0	0	19	0	22	0	160	
7:50 AM	0	10	0	0	0	55	34	0	0	0	0	0	15	0	20	0	134	
7:55 AM	1	7	0	0	0	35	25	0	0	0	0	0	21	0	20	0	109	1894
8:00 AM	1	9	0	0	0	53	36	0	0	0	0	0	14	0	19	0	132	1850
8:05 AM	0	3	0	0	0	58	37	0	0	0	0	0	16	0	16	0	130	1824
8:10 AM	1	5	0	0	0	45	43	0	0	0	0	0	17	0	18	0	129	1775
8:15 AM	0	7	0	0	0	30	26	0	0	0	0	0	16	0	24	0	103	1719
8:20 AM	0	4	0	0	0	37	25	0	0	0	0	0	12	0	16	0	94	1651
8:25 AM	0	8	0	0	0	19	14	0	0	0	0	0	11	0	17	0	69	1539
8:30 AM	2	14	0	0	0	27	37	0	0	0	0	0	9	0	20	0	109	1500
8:35 AM	1	4	0	0	0	31	15	0	0	0	0	0	9	0	15	0	75	1419
8:40 AM	1	9	0	0	0	21	25	0	0	0	0	0	6	0	15	0	77	1321
8:45 AM	0	3	0	0	0	22	22	0	0	0	0	0	7	0	14	0	68	1229
8:50 AM	3	8	0	0	0	21	19	0	0	0	0	0	9	0	20	0	80	1175
8:55 AM	2	7	0	0	0	16	12	0	0	0	0	0	6	0	14	0	57	1123

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	4	72	0	0	0	716	532	0	0	0	0	0	400	0	316	0	2040
Heavy Trucks	0	40	0		0	84	28		0	0	0		0	0	108		260
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

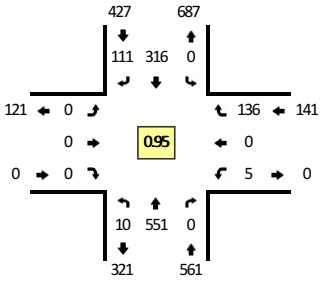
Type of peak hour being reported: Intersection Peak

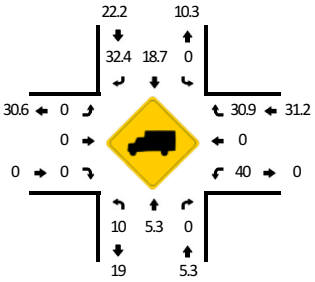
Method for determining peak hour: Total Entering Volume

LOCATION: Patterson Pass Rd -- I-580 WB Ramps
CITY/STATE: San Joaquin, CA

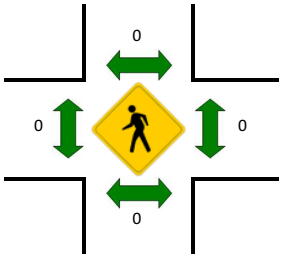
QC JOB #: 14993014
DATE: Thu, May 23 2019

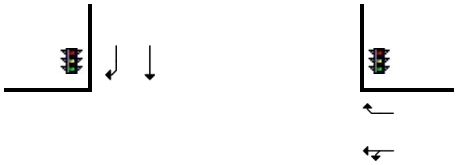
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:40 PM -- 4:55 PM

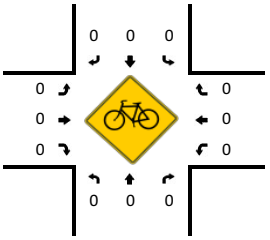


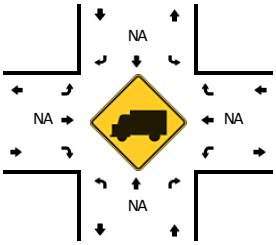


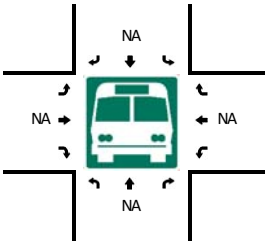
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	Patterson Pass Rd (Northbound)				Patterson Pass Rd (Southbound)				I-580 WB Ramps (Eastbound)				I-580 WB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	42	0	0	0	29	8	0	0	0	0	0	0	0	11	0	90	
4:05 PM	0	32	0	0	0	32	15	0	0	0	0	0	1	0	12	0	92	
4:10 PM	0	47	0	0	0	27	6	0	0	0	0	0	1	0	14	0	95	
4:15 PM	0	44	0	0	0	31	11	0	0	0	0	0	0	0	13	0	99	
4:20 PM	2	40	0	0	0	19	11	0	0	0	0	0	1	0	11	0	84	
4:25 PM	0	48	0	0	0	32	10	0	0	0	0	0	0	0	9	0	99	
4:30 PM	0	58	0	0	0	16	7	0	0	0	0	0	0	0	13	0	94	
4:35 PM	0	50	0	0	0	20	8	0	0	0	0	0	0	0	10	0	88	
4:40 PM	2	36	0	0	0	34	7	0	0	0	0	0	1	0	14	0	94	
4:45 PM	0	44	0	0	0	30	7	0	0	0	0	0	1	0	9	0	91	
4:50 PM	5	59	0	0	0	25	11	0	0	0	0	0	0	0	11	0	111	
4:55 PM	1	51	0	0	0	21	10	0	0	0	0	0	0	0	9	0	92	1129
5:00 PM	1	45	0	0	0	20	4	0	0	0	0	0	0	0	9	0	79	1118
5:05 PM	0	44	0	0	0	22	19	0	0	0	0	0	0	0	12	0	97	1123
5:10 PM	1	43	0	0	0	17	11	0	0	0	0	0	0	0	8	0	80	1108
5:15 PM	0	57	0	0	0	11	7	0	0	0	0	0	2	0	13	0	90	1099
5:20 PM	1	44	0	0	0	17	6	0	0	0	0	0	0	0	10	0	78	1093
5:25 PM	0	58	0	0	0	16	4	0	0	0	0	0	1	0	15	0	94	1088
5:30 PM	1	44	0	0	0	26	7	0	0	0	0	0	0	0	11	0	89	1083
5:35 PM	1	59	0	0	0	19	1	0	0	0	0	0	1	0	13	0	94	1089
5:40 PM	2	48	0	0	0	16	12	0	0	0	0	0	0	0	10	0	88	1083
5:45 PM	0	56	0	0	0	14	7	0	0	0	0	0	0	0	12	0	89	1081
5:50 PM	0	38	0	0	0	17	10	0	0	0	0	0	1	0	17	0	83	1053
5:55 PM	0	55	0	0	0	17	11	0	0	0	0	0	0	0	14	0	97	1058

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	28	556	0	0	0	356	100	0	0	0	0	0	8	0	136	0	1184
Heavy Trucks	4	40	0		0	92	24		0	0	0		0	0	24		184
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

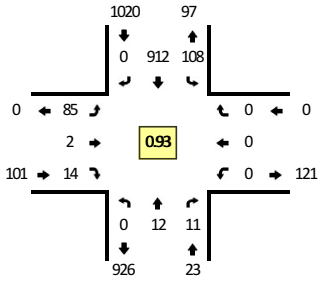
Type of peak hour being reported: Intersection Peak

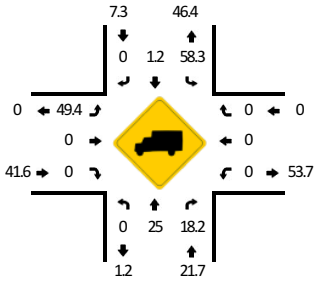
Method for determining peak hour: Total Entering Volume

LOCATION: Patterson Pass Rd -- I-580 EB Ramps
CITY/STATE: San Joaquin, CA

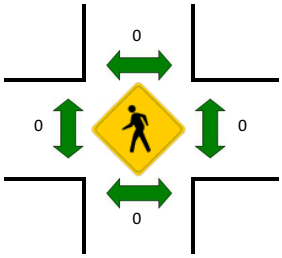
QC JOB #: 14993015
DATE: Thu, May 23 2019

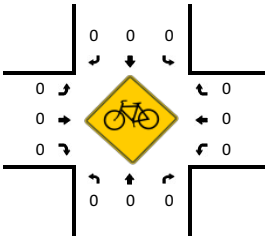
Peak-Hour: 7:00 AM -- 8:00 AM
Peak 15-Min: 7:30 AM -- 7:45 AM

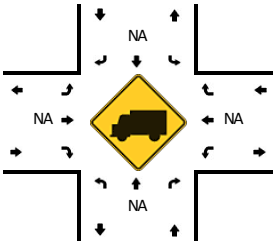


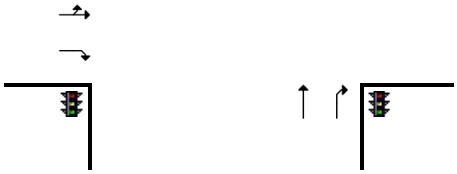


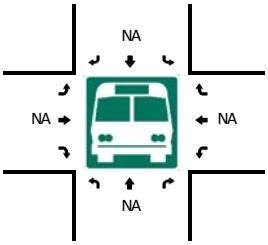
Quality Counts
DATA THAT DRIVES COMMUNITIES











5-Min Count Period Beginning At	Patterson Pass Rd (Northbound)				Patterson Pass Rd (Southbound)				I-580 EB Ramps (Eastbound)				I-580 EB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	1	0	0	12	92	0	0	2	0	3	0	0	0	0	0	110	
7:05 AM	0	0	4	0	13	66	0	0	6	0	1	0	0	0	0	0	90	
7:10 AM	0	2	0	0	4	89	0	0	8	1	1	0	0	0	0	0	105	
7:15 AM	0	2	0	0	11	83	0	0	8	0	1	0	0	0	0	0	105	
7:20 AM	0	0	0	0	10	81	0	0	3	0	1	0	0	0	0	0	95	
7:25 AM	0	0	2	0	8	70	0	0	11	0	1	0	0	0	0	0	92	
7:30 AM	0	1	0	0	8	71	0	0	10	0	2	0	0	0	0	0	92	
7:35 AM	0	2	1	0	5	89	0	0	5	0	0	0	0	0	0	0	102	
7:40 AM	0	0	0	0	9	100	0	0	4	0	0	0	0	0	0	0	113	
7:45 AM	0	1	1	0	9	69	0	0	10	0	1	0	0	0	0	0	91	
7:50 AM	0	1	1	0	10	52	0	0	9	0	1	0	0	0	0	0	74	
7:55 AM	0	2	2	0	9	50	0	0	9	1	2	0	0	0	0	0	75	1144
8:00 AM	0	0	0	0	10	57	0	0	7	0	2	0	0	0	0	0	76	1110
8:05 AM	0	1	0	0	13	67	0	0	3	0	0	0	0	0	0	0	84	1104
8:10 AM	0	1	0	0	15	43	0	0	4	0	0	0	0	0	0	0	63	1062
8:15 AM	0	1	0	0	19	31	0	0	6	0	2	0	0	0	0	0	59	1016
8:20 AM	0	0	1	0	7	41	0	0	4	0	3	0	0	0	0	0	56	977
8:25 AM	0	2	1	0	10	27	0	0	6	0	1	0	0	0	0	0	47	932
8:30 AM	0	4	2	0	8	28	0	0	12	0	1	0	0	0	0	0	55	895
8:35 AM	0	1	1	0	20	19	0	0	4	0	2	0	0	0	0	0	47	840
8:40 AM	0	1	2	0	10	17	0	0	9	0	2	0	0	0	0	0	41	768
8:45 AM	0	1	2	0	19	13	0	0	3	0	1	0	0	0	0	0	39	716
8:50 AM	0	4	0	0	9	18	0	0	6	0	1	0	0	0	0	0	38	680
8:55 AM	0	3	3	0	13	10	0	0	6	1	1	0	0	0	0	0	37	642

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	12	4	0	88	1040	0	0	76	0	8	0	0	0	0	0	1228
Heavy Trucks	0	0	4		56	16	0		48	0	0		0	0	0		124
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

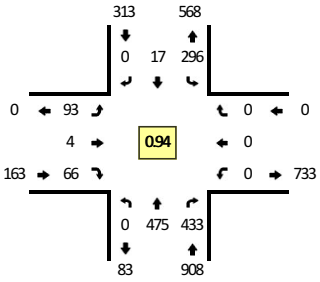
Type of peak hour being reported: Intersection Peak

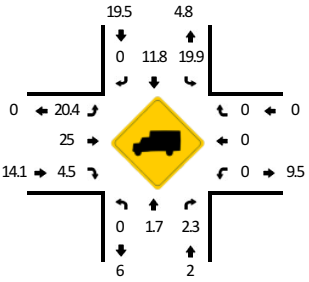
Method for determining peak hour: Total Entering Volume

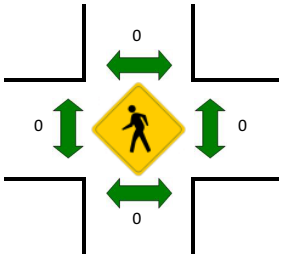
LOCATION: Patterson Pass Rd -- I-580 EB Ramps
CITY/STATE: San Joaquin, CA

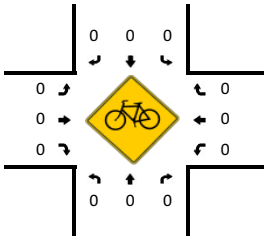
QC JOB #: 14993016
DATE: Thu, May 23 2019

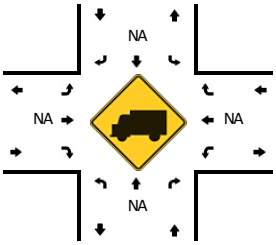
Peak-Hour: 4:10 PM -- 5:10 PM
Peak 15-Min: 4:10 PM -- 4:25 PM

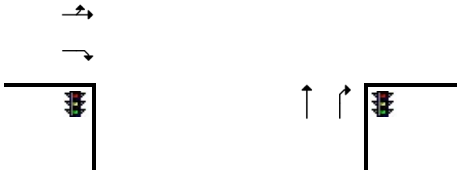


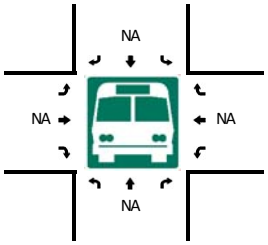












5-Min Count Period Beginning At	Patterson Pass Rd (Northbound)				Patterson Pass Rd (Southbound)				I-580 EB Ramps (Eastbound)				I-580 EB Ramps (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	42	36	0	22	3	0	0	3	0	2	0	0	0	0	0	108	
4:05 PM	0	30	28	0	24	1	0	0	4	1	2	0	0	0	0	0	90	
4:10 PM	0	38	37	0	32	2	0	0	8	0	7	0	0	0	0	0	124	
4:15 PM	0	33	35	0	33	1	0	0	9	0	14	0	0	0	0	0	125	
4:20 PM	0	36	53	0	21	0	0	0	3	0	5	0	0	0	0	0	118	
4:25 PM	0	41	33	0	21	1	0	0	5	0	3	0	0	0	0	0	104	
4:30 PM	0	47	37	0	22	1	0	0	13	0	6	0	0	0	0	0	126	
4:35 PM	0	34	28	0	18	2	0	0	10	0	4	0	0	0	0	0	96	
4:40 PM	0	27	38	0	36	2	0	0	10	1	5	0	0	0	0	0	119	
4:45 PM	0	47	37	0	22	3	0	0	4	1	3	0	0	0	0	0	117	
4:50 PM	0	53	25	0	21	2	0	0	12	1	6	0	0	0	0	0	120	
4:55 PM	0	39	44	0	27	2	0	0	4	0	6	0	0	0	0	0	122	1369
5:00 PM	0	37	28	0	17	1	0	0	9	0	5	0	0	0	0	0	97	1358
5:05 PM	0	43	38	0	26	0	0	0	6	1	2	0	0	0	0	0	116	1384
5:10 PM	0	43	32	0	10	0	0	0	5	0	1	0	0	0	0	0	91	1351
5:15 PM	0	42	36	0	18	2	0	0	10	0	8	0	0	0	0	0	116	1342
5:20 PM	0	35	39	0	12	0	0	0	9	0	5	0	0	0	0	0	100	1324
5:25 PM	0	49	38	0	20	2	0	0	7	0	9	0	0	0	0	0	125	1345
5:30 PM	0	45	35	0	17	0	0	0	7	0	4	0	0	0	0	0	108	1327
5:35 PM	0	49	28	0	23	2	0	0	10	0	8	0	0	0	0	0	120	1351
5:40 PM	0	37	37	0	19	1	0	0	11	0	8	0	0	0	0	0	113	1345
5:45 PM	0	53	39	0	14	0	0	0	1	0	6	0	0	0	0	0	113	1341
5:50 PM	0	35	39	0	17	0	0	0	5	0	8	0	0	0	0	0	104	1325
5:55 PM	0	41	48	0	8	2	0	0	17	0	3	0	0	0	0	0	119	1322

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	428	500	0	344	12	0	0	80	0	104	0	0	0	0	0	1468
Heavy Trucks	0	4	4		60	0	0		20	0	4		0	0	0		92
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:33 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

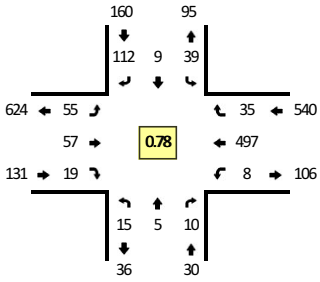
Type of peak hour being reported: Intersection Peak

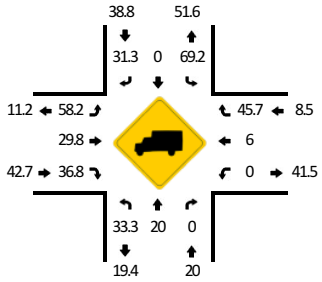
Method for determining peak hour: Total Entering Volume

LOCATION: Hansen Rd -- W Schulte Rd
CITY/STATE: San Joaquin, CA

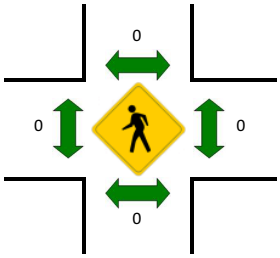
QC JOB #: 14993017
DATE: Thu, May 23 2019

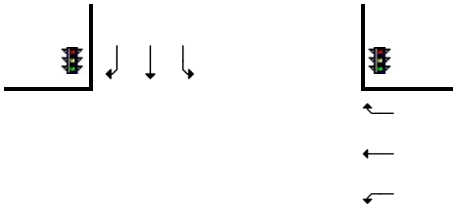
Peak-Hour: 7:05 AM -- 8:05 AM
Peak 15-Min: 7:05 AM -- 7:20 AM

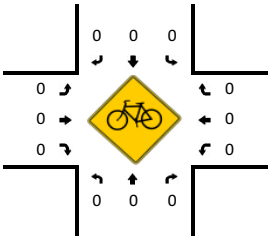


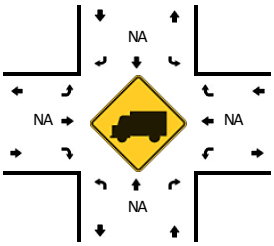


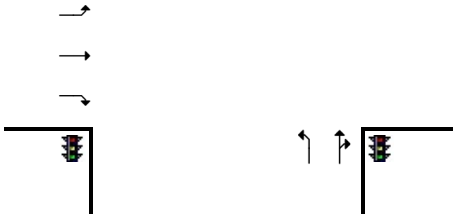
Quality Counts
DATA THAT DRIVES COMMUNITIES

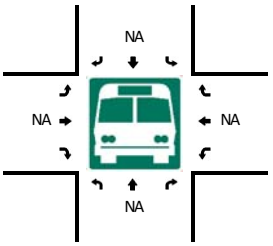












5-Min Count Period Beginning At	Hansen Rd (Northbound)				Hansen Rd (Southbound)				W Schulte Rd (Eastbound)				W Schulte Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	1	0	0	0	3	1	11	0	3	2	2	0	1	43	2	0	69	
7:05 AM	1	1	4	0	4	0	9	0	3	5	3	0	1	45	4	0	80	
7:10 AM	4	0	1	0	4	1	14	0	6	7	2	0	1	56	3	0	99	
7:15 AM	0	0	0	0	3	0	10	0	6	5	1	0	1	70	2	0	98	
7:20 AM	1	0	0	0	1	1	8	0	2	5	0	0	1	58	2	0	79	
7:25 AM	0	0	2	0	2	1	5	0	4	9	0	0	0	39	4	0	66	
7:30 AM	0	0	0	0	6	1	3	0	5	4	2	0	2	36	1	0	60	
7:35 AM	3	1	1	0	3	0	9	0	3	3	1	0	0	53	3	0	80	
7:40 AM	3	0	0	0	5	2	9	0	4	3	1	0	0	30	4	0	61	
7:45 AM	2	0	0	0	1	0	7	0	8	2	1	0	0	24	3	0	48	
7:50 AM	0	1	0	0	2	2	7	0	4	6	2	0	1	28	4	0	57	
7:55 AM	0	2	2	0	4	0	11	0	4	3	2	0	1	32	2	0	63	860
8:00 AM	1	0	0	0	4	1	20	0	6	5	4	0	0	26	3	0	70	861
8:05 AM	2	0	0	0	3	0	13	0	5	6	1	0	1	38	3	0	72	853
8:10 AM	10	0	2	0	2	0	15	0	4	4	0	0	1	23	2	0	63	817
8:15 AM	1	0	2	0	3	0	7	0	2	4	4	0	2	29	3	0	57	776
8:20 AM	2	0	0	0	2	2	13	0	4	2	2	0	0	24	8	0	59	756
8:25 AM	0	0	0	0	0	1	13	0	3	2	2	0	1	38	6	0	66	756
8:30 AM	0	0	0	0	3	1	8	0	7	1	3	0	1	37	2	0	63	759
8:35 AM	0	0	0	0	5	0	12	0	4	2	2	0	0	14	1	0	40	719
8:40 AM	3	0	1	0	6	0	12	0	4	6	4	0	2	25	9	0	72	730
8:45 AM	3	0	1	0	4	0	11	0	4	2	2	0	1	18	4	0	50	732
8:50 AM	5	0	0	0	1	0	8	0	6	9	3	0	0	16	4	0	52	727
8:55 AM	0	0	0	0	4	0	6	0	5	5	6	0	0	24	2	0	52	716

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	20	4	20	0	44	4	132	0	60	68	24	0	12	684	36	0	1108
Heavy Trucks	4	4	0		36	0	28		36	28	12		0	20	12		180
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

Comments:

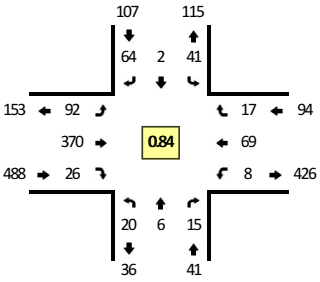
Report generated on 6/4/2019 3:33 PM

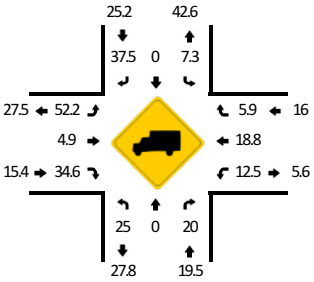
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

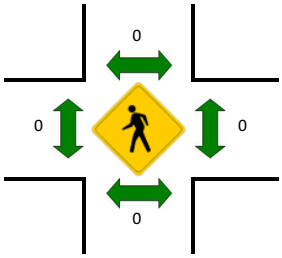
LOCATION: Hansen Rd -- W Schulte Rd | **QC JOB #:** 14993018
CITY/STATE: San Joaquin, CA | **DATE:** Thu, May 23 2019

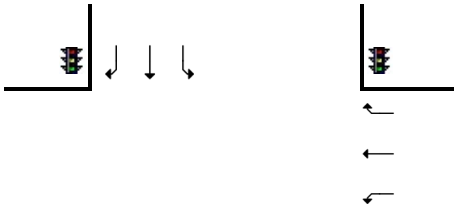
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:30 PM -- 4:45 PM

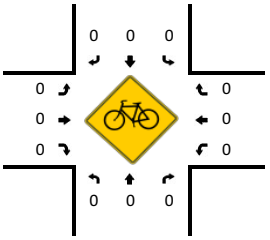


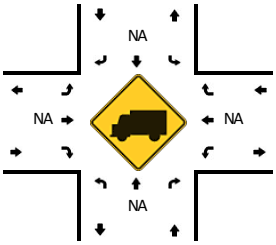


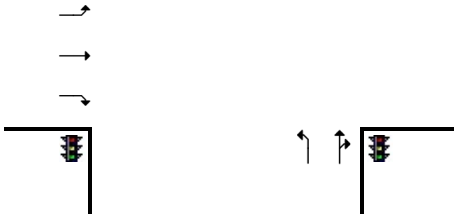
Quality Counts
DATA THAT DRIVES COMMUNITIES

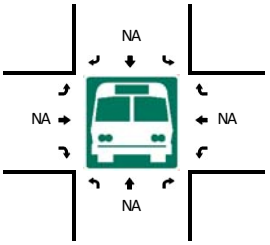












5-Min Count Period Beginning At	Hansen Rd (Northbound)				Hansen Rd (Southbound)				W Schulte Rd (Eastbound)				W Schulte Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	1	0	0	5	0	8	0	11	36	0	0	1	5	2	0	69	
4:05 PM	4	0	0	0	3	0	7	0	10	30	0	0	1	2	0	0	57	
4:10 PM	1	2	1	0	3	0	7	0	3	25	6	0	0	6	2	0	56	
4:15 PM	3	0	1	0	4	0	5	0	6	24	3	0	0	5	2	0	53	
4:20 PM	4	0	1	0	4	1	7	0	5	14	0	0	1	8	3	0	48	
4:25 PM	1	0	0	0	3	0	8	0	4	28	0	0	1	3	2	0	50	
4:30 PM	3	1	4	0	1	0	4	0	9	32	1	0	1	11	1	0	68	
4:35 PM	0	0	1	0	4	0	6	0	10	41	3	0	0	5	1	0	71	
4:40 PM	1	1	0	0	3	1	2	0	15	43	2	0	2	6	1	0	77	
4:45 PM	1	1	3	0	7	0	3	0	8	26	7	0	0	8	1	0	65	
4:50 PM	1	0	2	0	1	0	5	0	5	41	2	0	0	6	0	0	63	
4:55 PM	1	0	2	0	3	0	2	0	6	30	2	0	1	4	2	0	53	730
5:00 PM	1	0	2	0	0	0	9	0	12	22	2	0	1	6	1	0	56	717
5:05 PM	4	1	1	0	0	0	4	0	8	23	0	0	3	7	1	0	52	712
5:10 PM	5	0	1	0	1	0	7	0	6	20	2	0	0	2	3	0	47	703
5:15 PM	1	1	1	0	1	0	1	0	4	32	2	0	1	4	1	0	49	699
5:20 PM	2	0	0	0	1	0	3	0	4	29	1	0	0	6	1	0	47	698
5:25 PM	0	2	1	0	1	0	3	0	4	25	2	0	0	9	0	0	47	695
5:30 PM	1	0	1	0	0	0	11	0	6	34	1	0	0	3	0	0	57	684
5:35 PM	0	1	1	0	5	0	6	0	7	23	3	0	2	5	1	0	54	667
5:40 PM	1	0	1	0	3	0	13	0	5	26	2	0	5	6	2	0	64	654
5:45 PM	1	0	1	0	1	1	15	0	8	29	6	0	0	9	3	0	74	663
5:50 PM	2	1	0	0	2	0	15	0	8	17	1	0	1	6	5	0	58	658
5:55 PM	2	0	2	0	1	0	8	0	14	35	2	0	0	3	0	0	67	672

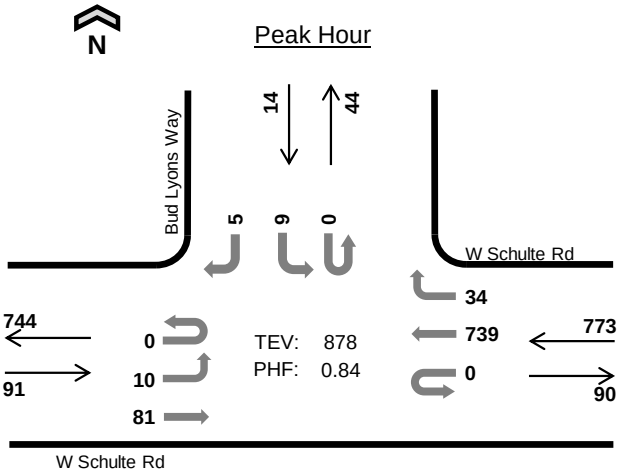
Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	16	8	20	0	32	4	48	0	136	464	24	0	12	88	12	0	864
Heavy Trucks	4	0	4		0	0	24		56	20	4		4	12	0		128
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad Stopped Buses																	

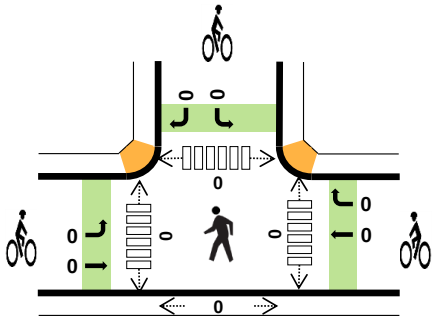
Comments:

Report generated on 6/4/2019 3:33 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Bud Lyons Way
W Schulte Rd

Date: 11-19-2020
Count Period: 5:00 AM to 8:00 AM
Peak Hour: 5:15 AM to 6:15 AM





	HV %:	PHF
EB	14.3%	0.78
WB	2.5%	0.85
NB	-	-
SB	21.4%	0.70
TOTAL	4.0%	0.84

Three-Hour Count Summaries

Interval Start		W Schulte Rd Eastbound				W Schulte Rd Westbound				n/a Northbound				Bud Lyons Way Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
5:15 AM		0	1	15	0	0	0	184	6	0	0	0	0	0	0	0	4	210	0
5:30 AM		0	0	18	0	0	0	182	8	0	0	0	0	0	0	0	1	209	0
5:45 AM		0	5	24	0	0	0	217	11	0	0	0	0	0	4	0	0	261	0
6:00 AM		0	4	24	0	0	0	156	9	0	0	0	0	0	5	0	0	198	878
Peak Hour	All	0	10	81	0	0	0	739	34	0	0	0	0	0	9	0	5	878	0
	HV	0	3	10	0	0	0	13	6	0	0	0	0	0	1	0	2	35	0
	HV%	-	30%	12%	-	-	-	2%	18%	-	-	-	-	-	11%	-	40%	4%	0

Note: For all three-hour count summary, see next page.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
5:15 AM	1	5	0	2	*8*	0	0	0	0	*0*	0	0	0	0	*0*
5:30 AM	2	5	0	0	*7*	0	0	0	0	*0*	0	0	0	0	*0*
5:45 AM	4	3	0	0	*7*	0	0	0	0	*0*	0	0	0	0	*0*
6:00 AM	6	6	0	1	*13*	0	0	0	0	*0*	0	0	0	0	*0*
Peak Hour	13	19	0	3	*35*	0	0	0	0	*0*	0	0	0	0	*0*

Three-Hour Count Summaries

Interval Start	W Schulte Rd Eastbound				W Schulte Rd Westbound				n/a Northbound				Bud Lyons Way Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
5:00 AM	0	2	1	0	0	0	120	3	0	0	0	0	0	0	0	4	130	0
5:15 AM	**0**	**1**	**15**	**0**	**0**	**0**	**184**	**6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**210**	0
5:30 AM	**0**	**0**	**18**	**0**	**0**	**0**	**182**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**209**	0
5:45 AM	**0**	**5**	**24**	**0**	**0**	**0**	**217**	**11**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**261**	810
6:00 AM	**0**	**4**	**24**	**0**	**0**	**0**	**156**	**9**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**198**	**878**
6:15 AM	0	2	13	0	0	0	156	12	0	0	0	0	0	2	0	4	189	857
6:30 AM	0	1	17	0	0	0	128	13	0	0	0	0	0	4	0	1	164	812
6:45 AM	0	2	16	0	0	0	129	16	0	0	0	0	0	1	0	3	167	718
7:00 AM	0	3	14	0	0	0	87	8	0	0	0	0	0	3	0	3	118	638
7:15 AM	0	3	17	0	0	0	78	19	0	0	0	0	0	0	0	2	119	568
7:30 AM	0	0	10	0	0	0	77	5	0	0	0	0	0	2	0	3	97	501
7:45 AM	0	2	19	0	0	0	70	11	0	0	0	0	0	2	0	3	107	441
Count Total	0	25	188	0	0	0	1,584	121	0	0	0	0	0	23	0	28	1,969	0
Peak Hour All	**0**	**10**	**81**	**0**	**0**	**0**	**739**	**34**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**5**	**878**	**0**
Peak Hour HV	**0**	**3**	**10**	**0**	**0**	**0**	**13**	**6**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**35**	**0**
Peak Hour HV%	**-**	**30%**	**12%**	**-**	**-**	**-**	**2%**	**18%**	**-**	**-**	**-**	**-**	**-**	**11%**	**-**	**40%**	**4%**	**0**

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
5:00 AM	3	2	0	4	*9*	0	0	0	0	*0*	0	0	0	0	*0*
5:15 AM	**1**	**5**	**0**	**2**	***8***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:30 AM	**2**	**5**	**0**	**0**	***7***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:45 AM	**4**	**3**	**0**	**0**	***7***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
6:00 AM	**6**	**6**	**0**	**1**	***13***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***
6:15 AM	5	4	0	2	*11*	0	0	0	0	*0*	0	0	0	0	*0*
6:30 AM	1	9	0	2	*12*	0	0	0	0	*0*	0	0	0	0	*0*
6:45 AM	1	9	0	3	*13*	0	0	0	0	*0*	0	0	0	0	*0*
7:00 AM	3	4	0	4	*11*	0	0	0	0	*0*	0	0	0	0	*0*
7:15 AM	6	6	0	2	*14*	0	0	0	0	*0*	0	0	0	0	*0*
7:30 AM	2	2	0	5	*9*	0	0	0	0	*0*	0	0	0	0	*0*
7:45 AM	5	5	0	3	*13*	0	0	0	0	*0*	0	0	0	0	*0*
Count Total	39	60	0	28	*127*	0	0	0	0	*0*	0	0	0	0	*0*
Peak Hr	**13**	**19**	**0**	**3**	***35***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***

Three-Hour Count Summaries - Heavy Vehicles

Interval Start	W Schulte Rd				W Schulte Rd				n/a				Bud Lyons Way				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
5:00 AM	0	2	1	0	0	0	2	0	0	0	0	0	0	0	0	4	9	0
5:15 AM	**0**	**0**	**1**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**8**	0
5:30 AM	**0**	**0**	**2**	**0**	**0**	**0**	**4**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	0
5:45 AM	**0**	**0**	**4**	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	31
6:00 AM	**0**	**3**	**3**	**0**	**0**	**0**	**2**	**4**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**13**	**35**
6:15 AM	0	2	3	0	0	0	1	3	0	0	0	0	0	0	0	2	11	38
6:30 AM	0	0	1	0	0	0	1	8	0	0	0	0	0	1	0	1	12	43
6:45 AM	0	1	0	0	0	0	5	4	0	0	0	0	0	0	0	3	13	49
7:00 AM	0	2	1	0	0	0	2	2	0	0	0	0	0	1	0	3	11	47
7:15 AM	0	1	5	0	0	0	2	4	0	0	0	0	0	0	0	2	14	50
7:30 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	2	0	3	9	47
7:45 AM	0	1	4	0	0	0	4	1	0	0	0	0	0	1	0	2	13	47
Count Total	0	12	27	0	0	0	32	28	0	0	0	0	0	6	0	22	127	0
Peak Hour	**0**	**3**	**10**	**0**	**0**	**0**	**13**	**6**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**35**	**0**

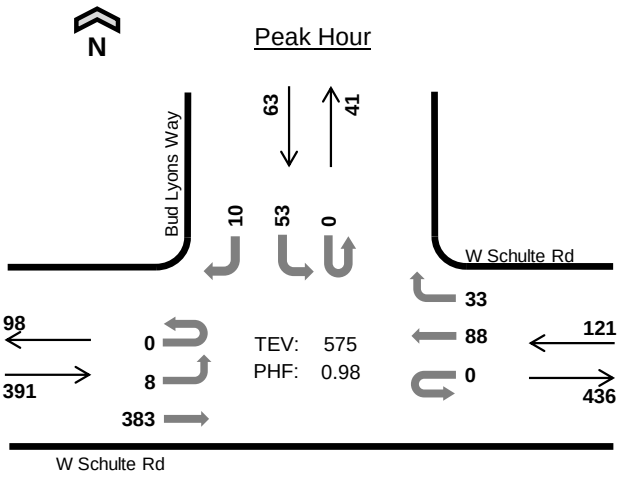
Three-Hour Count Summaries - Bikes

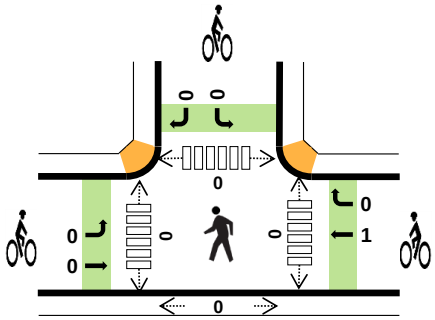
Interval Start	W Schulte Rd			W Schulte Rd			n/a			Bud Lyons Way			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
6:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Bud Lyons Way
W Schulte Rd

Date: 11-19-2020
Count Period: 3:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	3.8%	0.88
WB	10.7%	0.82
NB	-	-
SB	9.5%	0.56
TOTAL	5.9%	0.98

Three-Hour Count Summaries

Interval Start		W Schulte Rd Eastbound				W Schulte Rd Westbound				n/a Northbound				Bud Lyons Way Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:45 PM		0	1	84	0	0	0	20	7	0	0	0	0	0	26	0	2	140	0
5:00 PM		0	2	93	0	0	0	26	11	0	0	0	0	0	10	0	1	143	0
5:15 PM		0	2	98	0	0	0	23	11	0	0	0	0	0	11	0	2	147	0
5:30 PM		0	3	108	0	0	0	19	4	0	0	0	0	0	6	0	5	145	575
Peak Hour	All	0	8	383	0	0	0	88	33	0	0	0	0	0	53	0	10	575	0
	HV	0	7	8	0	0	0	8	5	0	0	0	0	0	0	0	6	34	0
	HV%	-	88%	2%	-	-	-	9%	15%	-	-	-	-	-	0%	-	60%	6%	0

Note: For all three-hour count summary, see next page.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:45 PM	3	4	0	0	*7*	0	0	0	0	*0*	0	0	0	0	*0*
5:00 PM	3	4	0	0	*7*	0	0	0	0	*0*	0	0	0	0	*0*
5:15 PM	4	2	0	2	*8*	0	0	0	0	*0*	0	0	0	0	*0*
5:30 PM	5	3	0	4	*12*	0	1	0	0	*1*	0	0	0	0	*0*
Peak Hour	15	13	0	6	*34*	0	1	0	0	*1*	0	0	0	0	*0*

Three-Hour Count Summaries

Interval Start	W Schulte Rd Eastbound				W Schulte Rd Westbound				n/a Northbound				Bud Lyons Way Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
3:00 PM	0	2	87	0	0	0	23	1	0	0	0	0	0	4	0	8	125	0
3:15 PM	0	3	86	0	0	0	26	7	0	0	0	0	0	6	0	5	133	0
3:30 PM	0	2	119	0	0	0	15	3	0	0	0	0	0	6	0	2	147	0
3:45 PM	0	3	91	0	0	0	17	3	0	0	0	0	0	10	0	5	129	534
4:00 PM	0	2	82	0	0	0	15	1	0	0	0	0	0	3	0	2	105	514
4:15 PM	0	2	93	0	0	0	14	3	0	0	0	0	0	6	0	1	119	500
4:30 PM	0	1	93	0	0	0	13	4	0	0	0	0	0	19	0	3	133	486
4:45 PM	**0**	**1**	**84**	**0**	**0**	**0**	**20**	**7**	**0**	**0**	**0**	**0**	**0**	**26**	**0**	**2**	**140**	497
5:00 PM	**0**	**2**	**93**	**0**	**0**	**0**	**26**	**11**	**0**	**0**	**0**	**0**	**0**	**10**	**0**	**1**	**143**	535
5:15 PM	**0**	**2**	**98**	**0**	**0**	**0**	**23**	**11**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**2**	**147**	563
5:30 PM	**0**	**3**	**108**	**0**	**0**	**0**	**19**	**4**	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**5**	**145**	**575**
5:45 PM	0	1	107	0	0	0	16	4	0	0	0	0	0	4	0	2	134	569
Count Total	0	24	1,141	0	0	0	227	59	0	0	0	0	0	111	0	38	1,600	0
Peak Hour All	**0**	**8**	**383**	**0**	**0**	**0**	**88**	**33**	**0**	**0**	**0**	**0**	**0**	**53**	**0**	**10**	**575**	**0**
Peak Hour HV	**0**	**7**	**8**	**0**	**0**	**0**	**8**	**5**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**34**	**0**
Peak Hour HV%	**-**	**88%**	**2%**	**-**	**-**	**-**	**9%**	**15%**	**-**	**-**	**-**	**-**	**-**	**0%**	**-**	**60%**	**6%**	**0**

Note: Three-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
3:00 PM	6	2	0	5	*13*	0	1	0	0	*1*	0	0	0	0	*0*
3:15 PM	3	6	0	1	*10*	0	0	0	0	*0*	0	0	0	0	*0*
3:30 PM	4	4	0	0	*8*	0	0	0	0	*0*	0	0	0	0	*0*
3:45 PM	6	3	0	3	*12*	0	0	0	0	*0*	0	0	0	0	*0*
4:00 PM	4	3	0	1	*8*	0	0	0	0	*0*	0	0	0	0	*0*
4:15 PM	6	2	0	0	*8*	0	0	0	0	*0*	0	0	0	0	*0*
4:30 PM	0	2	0	4	*6*	0	0	0	0	*0*	0	0	0	0	*0*
4:45 PM	**3**	**4**	**0**	**0**	***7***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:00 PM	**3**	**4**	**0**	**0**	***7***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:15 PM	**4**	**2**	**0**	**2**	***8***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
5:30 PM	**5**	**3**	**0**	**4**	***12***	**0**	**1**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	***0***
5:45 PM	1	3	0	1	*5*	0	0	0	0	*0*	0	0	0	0	*0*
Count Total	45	38	0	21	*104*	0	2	0	0	*2*	0	0	0	0	*0*
Peak Hr	**15**	**13**	**0**	**6**	***34***	**0**	**1**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	***0***

Three-Hour Count Summaries - Heavy Vehicles

Interval Start	W Schulte Rd				W Schulte Rd				n/a				Bud Lyons Way				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
3:00 PM	0	2	4	0	0	0	2	0	0	0	0	0	0	0	0	5	13	0
3:15 PM	0	1	2	0	0	0	4	2	0	0	0	0	0	0	0	1	10	0
3:30 PM	0	2	2	0	0	0	3	1	0	0	0	0	0	0	0	0	8	0
3:45 PM	0	3	3	0	0	0	2	1	0	0	0	0	0	0	0	3	12	43
4:00 PM	0	1	3	0	0	0	2	1	0	0	0	0	0	0	0	1	8	38
4:15 PM	0	2	4	0	0	0	1	1	0	0	0	0	0	0	0	0	8	36
4:30 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	3	6	34
4:45 PM	**0**	**1**	**2**	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	29
5:00 PM	**0**	**1**	**2**	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	28
5:15 PM	**0**	**2**	**2**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**8**	28
5:30 PM	**0**	**3**	**2**	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**12**	**34**
5:45 PM	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	1	5	32
Count Total	0	19	26	0	0	0	24	14	0	0	0	0	0	1	0	20	104	0
Peak Hour	**0**	**7**	**8**	**0**	**0**	**0**	**8**	**5**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**34**	**0**

Three-Hour Count Summaries - Bikes

Interval Start	W Schulte Rd			W Schulte Rd			n/a			Bud Lyons Way			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
3:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
5:30 PM	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Count Total	0	0	0	0	2	0	0	0	0	0	0	0	2	0
Peak Hour	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

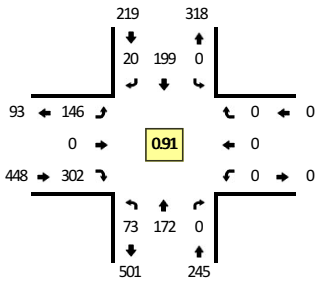
Type of peak hour being reported: Intersection Peak

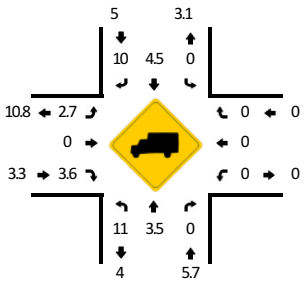
Method for determining peak hour: Total Entering Volume

LOCATION: S Lammers Rd -- W Schulte Rd (N)
CITY/STATE: San Joaquin, CA

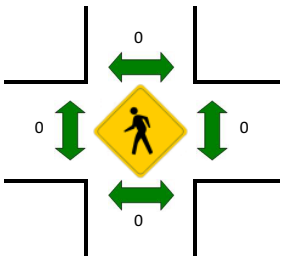
QC JOB #: 14993032
DATE: Thu, May 23 2019

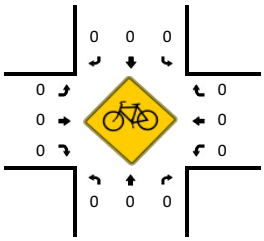
Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:35 PM -- 4:50 PM

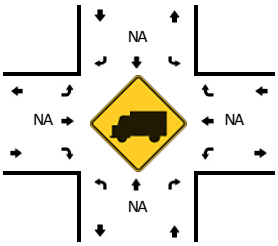


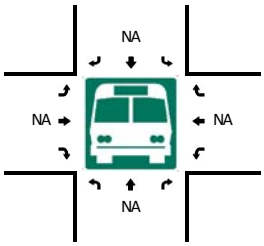


Quality Counts
DATA THAT DRIVES COMMUNITIES









5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				W Schulte Rd (N) (Eastbound)				W Schulte Rd (N) (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	2	7	0	0	0	23	2	0	21	0	19	0	0	0	0	0	74	
4:05 PM	3	18	0	0	0	15	1	0	21	0	22	0	0	0	0	0	80	
4:10 PM	7	17	0	0	0	17	1	0	15	0	18	0	0	0	0	0	75	
4:15 PM	5	10	0	0	0	23	1	0	11	0	22	0	0	0	0	0	72	
4:20 PM	4	17	0	0	0	23	2	0	7	0	25	0	0	0	0	0	78	
4:25 PM	6	12	0	0	0	17	5	0	8	0	14	0	0	0	0	0	62	
4:30 PM	7	10	0	0	0	12	1	0	11	0	21	0	0	0	0	0	62	
4:35 PM	8	16	0	0	0	18	2	0	14	0	36	0	0	0	0	0	94	
4:40 PM	6	18	0	0	0	11	0	0	9	0	32	0	0	0	0	0	76	
4:45 PM	5	17	0	0	0	13	0	0	14	0	31	0	0	0	0	0	80	
4:50 PM	5	14	0	0	0	14	3	0	12	0	23	0	0	0	0	0	71	
4:55 PM	8	12	0	0	0	22	0	0	13	0	32	0	0	0	0	0	87	911
5:00 PM	9	11	0	0	0	14	4	0	11	0	26	0	0	0	0	0	75	912
5:05 PM	3	8	0	0	0	16	1	0	9	0	23	0	0	0	0	0	60	892
5:10 PM	4	13	0	0	0	19	3	0	11	0	12	0	0	0	0	0	62	879
5:15 PM	3	10	0	0	0	23	2	0	12	0	17	0	0	0	0	0	67	874
5:20 PM	6	15	0	0	0	14	3	0	12	0	22	0	0	0	0	0	72	868
5:25 PM	4	16	0	0	0	17	3	0	11	0	18	0	0	0	0	0	69	875
5:30 PM	6	13	0	0	0	26	3	0	8	0	26	0	0	0	0	0	82	895
5:35 PM	6	12	0	0	0	9	2	1	14	0	25	0	0	0	0	0	69	870
5:40 PM	3	17	0	0	0	17	5	0	15	0	22	0	0	0	0	0	79	873
5:45 PM	9	13	0	0	0	19	6	0	14	0	17	0	0	0	0	0	78	871
5:50 PM	3	14	0	0	0	21	3	0	17	0	15	0	0	0	0	0	73	873
5:55 PM	2	17	0	0	0	23	4	0	11	0	20	0	0	0	0	0	77	863

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	76	204	0	0	0	168	8	0	148	0	396	0	0	0	0	0	1000
Heavy Trucks	12	0	0		0	8	4		4	0	8		0	0	0		36
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:34 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

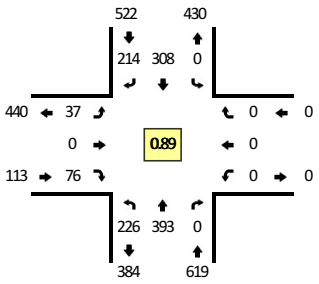
Type of peak hour being reported: Intersection Peak

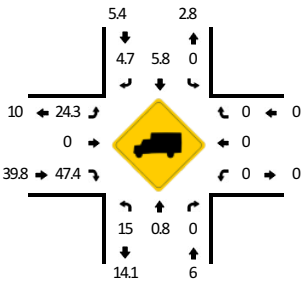
Method for determining peak hour: Total Entering Volume

LOCATION: S Lammers Rd -- W Schulte Rd (N)
CITY/STATE: San Joaquin, CA

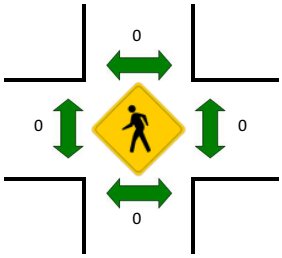
QC JOB #: 14993031
DATE: Thu, May 23 2019

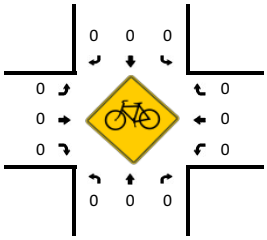
Peak-Hour: 7:25 AM -- 8:25 AM
Peak 15-Min: 7:55 AM -- 8:10 AM

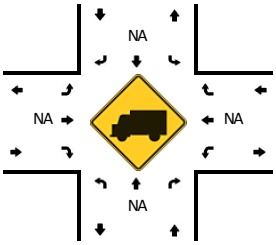


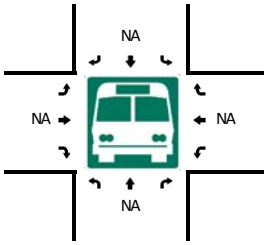


Quality Counts
DATA THAT DRIVES COMMUNITIES









5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				W Schulte Rd (N) (Eastbound)				W Schulte Rd (N) (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	32	4	0	0	0	4	30	0	5	0	3	0	0	0	0	0	78	
7:05 AM	26	6	0	0	0	7	34	0	15	0	4	0	0	0	0	0	92	
7:10 AM	39	9	0	0	0	11	28	0	17	0	4	0	0	0	0	0	108	
7:15 AM	40	8	0	0	0	6	32	0	3	0	4	0	0	0	0	0	93	
7:20 AM	23	9	0	0	0	10	23	0	2	0	6	0	0	0	0	0	73	
7:25 AM	26	20	0	0	0	17	22	0	4	0	5	0	0	0	0	0	94	
7:30 AM	24	16	0	0	0	8	30	0	1	0	10	0	0	0	0	0	89	
7:35 AM	13	31	0	0	0	17	23	0	4	0	5	0	0	0	0	0	93	
7:40 AM	14	23	0	0	0	27	20	0	8	0	7	0	0	0	0	0	99	
7:45 AM	20	36	0	0	0	31	23	0	1	0	4	0	0	0	0	0	115	
7:50 AM	9	52	0	0	0	30	15	0	1	0	4	0	0	0	0	0	111	
7:55 AM	15	38	0	0	0	34	19	0	3	0	7	0	0	0	0	0	116	1161
8:00 AM	17	44	0	0	0	30	14	0	2	0	6	0	0	0	0	0	113	1196
8:05 AM	19	41	0	0	0	28	18	0	6	0	10	0	0	0	0	0	122	1226
8:10 AM	18	49	0	0	0	25	12	0	0	0	7	0	0	0	0	0	111	1229
8:15 AM	24	29	0	0	0	27	7	0	5	0	5	0	0	0	0	0	97	1233
8:20 AM	27	14	0	0	0	34	11	0	2	0	6	0	0	0	0	0	94	1254
8:25 AM	30	15	0	0	0	14	15	0	0	0	4	0	0	0	0	0	78	1238
8:30 AM	18	11	0	0	0	6	7	0	0	0	3	0	0	0	0	0	45	1194
8:35 AM	17	3	0	0	0	14	2	0	0	0	6	0	0	0	0	0	42	1143
8:40 AM	26	10	0	0	0	11	12	0	3	0	6	0	0	0	0	0	68	1112
8:45 AM	16	7	0	0	0	8	7	0	2	0	8	0	0	0	0	0	48	1045
8:50 AM	17	12	0	0	0	8	6	0	3	0	8	0	0	0	0	0	54	988
8:55 AM	10	8	0	0	0	15	6	0	4	0	6	0	0	0	0	0	49	921

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	204	492	0	0	0	368	204	0	44	0	92	0	0	0	0	0	1404
Heavy Trucks	28	0	0		0	12	8		4	0	44		0	0	0		96
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:34 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

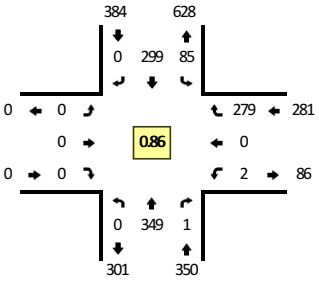
Type of peak hour being reported: Intersection Peak

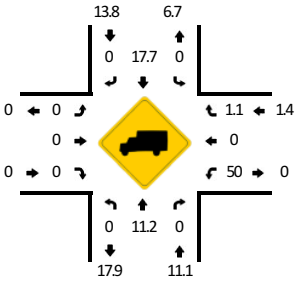
Method for determining peak hour: Total Entering Volume

LOCATION: S Lammers Rd -- W Schulte Rd (S)
CITY/STATE: San Joaquin, CA

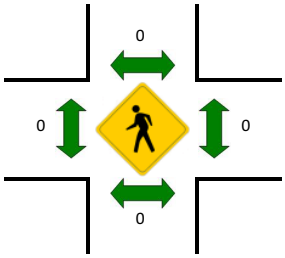
QC JOB #: 14993033
DATE: Thu, May 23 2019

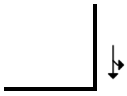
Peak-Hour: 7:25 AM -- 8:25 AM
Peak 15-Min: 7:45 AM -- 8:00 AM

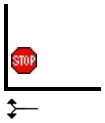


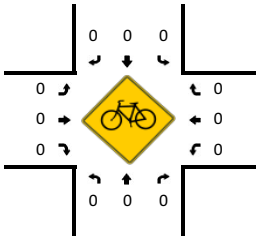


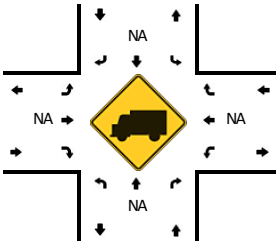
Quality Counts
DATA THAT DRIVES COMMUNITIES

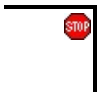


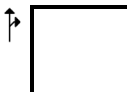


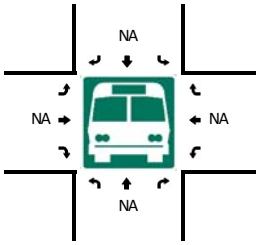












5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				W Schulte Rd (S) (Eastbound)				W Schulte Rd (S) (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	16	0	0	0	8	0	0	0	0	0	0	1	0	18	0	43	
7:05 AM	0	14	0	0	5	8	0	0	0	0	0	0	0	0	19	0	46	
7:10 AM	0	29	0	0	0	13	0	0	0	0	0	0	0	0	23	0	65	
7:15 AM	0	26	0	0	1	10	0	0	0	0	0	0	0	0	25	0	62	
7:20 AM	0	19	0	0	1	16	0	0	0	0	0	0	0	0	13	0	49	
7:25 AM	0	22	0	0	2	17	0	0	0	0	0	0	0	0	24	0	65	
7:30 AM	0	25	0	0	1	16	0	0	0	0	0	0	0	0	13	0	55	
7:35 AM	0	34	0	0	5	20	0	0	0	0	0	0	0	0	21	0	80	
7:40 AM	0	27	0	0	2	30	0	0	0	0	0	0	0	0	26	0	85	
7:45 AM	0	37	0	0	9	29	0	0	0	0	0	0	0	0	27	0	102	
7:50 AM	0	27	0	0	6	27	0	0	0	0	0	0	0	0	34	0	94	
7:55 AM	0	32	0	0	9	30	0	0	0	0	0	0	0	0	28	0	99	845
8:00 AM	0	29	1	0	7	29	0	0	0	0	0	0	0	0	28	0	94	896
8:05 AM	0	31	0	0	12	24	0	0	0	0	0	0	0	0	29	0	96	946
8:10 AM	0	37	0	0	12	26	0	0	0	0	0	0	0	0	25	0	100	981
8:15 AM	0	26	0	0	10	16	0	0	0	0	0	0	2	0	12	0	66	985
8:20 AM	0	22	0	0	10	35	0	0	0	0	0	0	0	0	12	0	79	1015
8:25 AM	0	21	0	0	3	16	0	0	0	0	0	0	0	0	11	0	51	1001
8:30 AM	0	18	0	0	0	10	0	0	0	0	0	0	0	0	7	0	35	981
8:35 AM	0	27	0	0	3	14	0	0	0	0	0	0	0	0	8	0	52	953
8:40 AM	0	24	0	0	2	18	0	0	0	0	0	0	0	0	3	0	47	915
8:45 AM	0	17	0	0	3	14	0	0	0	0	0	0	0	0	4	0	38	851
8:50 AM	0	22	0	0	4	12	0	0	0	0	0	0	0	0	5	0	43	800
8:55 AM	0	15	0	0	2	20	0	0	0	0	0	0	0	0	6	0	43	744

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	384	0	0	96	344	0	0	0	0	0	0	0	0	356	0	1180
Heavy Trucks	0	28	0		0	28	0		0	0	0		0	0	4		60
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

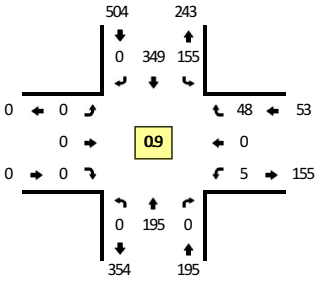
Report generated on 6/4/2019 3:34 PM

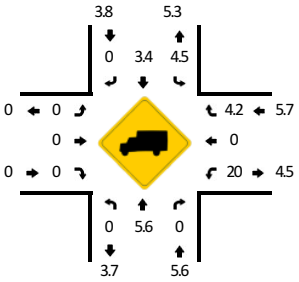
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

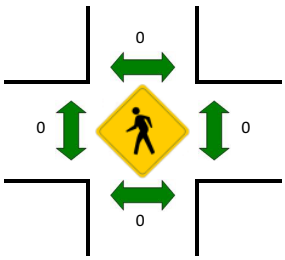
LOCATION: S Lammers Rd -- W Schulte Rd (S) | **QC JOB #:** 14993034
CITY/STATE: San Joaquin, CA | **DATE:** Thu, May 23 2019

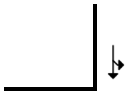
Peak-Hour: 4:05 PM -- 5:05 PM
Peak 15-Min: 4:35 PM -- 4:50 PM

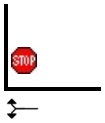


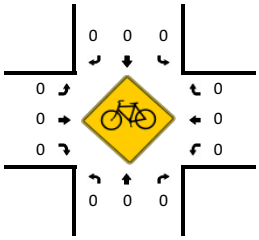


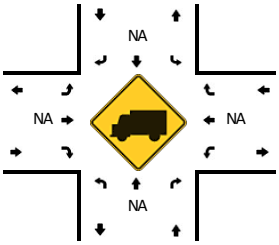
Quality Counts
DATA THAT DRIVES COMMUNITIES

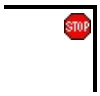


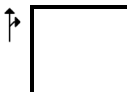


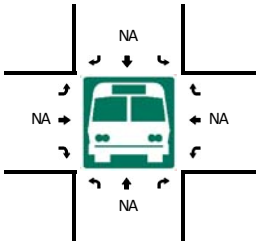












5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				W Schulte Rd (S) (Eastbound)				W Schulte Rd (S) (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	6	0	0	15	23	0	0	0	0	0	0	0	0	4	0	48	
4:05 PM	0	20	0	0	13	29	0	0	0	0	0	0	0	0	3	0	65	
4:10 PM	0	18	0	0	12	22	0	0	0	0	0	0	0	0	2	0	54	
4:15 PM	0	12	0	0	12	31	0	0	0	0	0	0	1	0	5	0	61	
4:20 PM	0	17	0	0	18	29	0	0	0	0	0	0	1	0	3	0	68	
4:25 PM	0	12	0	0	10	27	0	0	0	0	0	0	0	0	4	0	53	
4:30 PM	0	16	0	0	12	21	0	0	0	0	0	0	1	0	3	0	53	
4:35 PM	0	20	0	0	7	44	0	0	0	0	0	0	1	0	5	0	77	
4:40 PM	0	22	0	0	17	29	0	0	0	0	0	0	0	0	4	0	72	
4:45 PM	0	17	0	0	14	27	0	0	0	0	0	0	0	0	3	0	61	
4:50 PM	0	17	0	0	11	29	0	0	0	0	0	0	1	0	6	0	64	
4:55 PM	0	9	0	0	17	33	0	0	0	0	0	0	0	0	5	0	64	740
5:00 PM	0	15	0	0	12	28	0	0	0	0	0	0	0	0	5	0	60	752
5:05 PM	0	9	2	0	13	28	0	0	0	0	0	0	0	0	3	0	55	742
5:10 PM	0	14	0	0	12	20	0	0	0	0	0	0	0	0	3	0	49	737
5:15 PM	0	13	0	0	10	31	0	0	0	0	0	0	0	0	1	0	55	731
5:20 PM	0	17	0	0	12	20	0	0	0	0	0	0	0	0	3	0	52	715
5:25 PM	0	16	0	0	11	27	0	0	0	0	0	0	1	0	0	0	55	717
5:30 PM	0	16	0	0	12	39	0	0	0	0	0	0	0	0	3	0	70	734
5:35 PM	0	19	0	0	12	22	0	0	0	0	0	0	0	0	3	0	56	713
5:40 PM	0	16	0	0	18	23	0	0	0	0	0	0	0	0	3	0	60	701
5:45 PM	0	20	0	0	8	29	0	0	0	0	0	0	0	0	2	0	59	699
5:50 PM	0	13	0	0	11	24	0	0	0	0	0	0	0	0	2	0	50	685
5:55 PM	0	17	0	0	14	28	0	0	0	0	0	0	0	0	1	0	60	681

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	236	0	0	152	400	0	0	0	0	0	0	4	0	48	0	840
Heavy Trucks	0	12	0		12	4	0		0	0	0		0	0	0		28
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

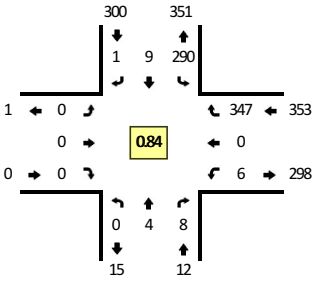
Comments:

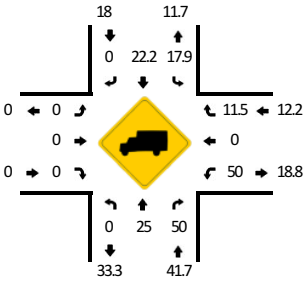
Report generated on 6/4/2019 3:34 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

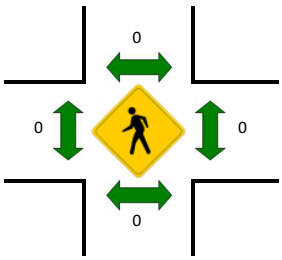
LOCATION: S Lammers Rd -- Valpico Rd | **QC JOB #:** 14993035
CITY/STATE: San Joaquin, CA | **DATE:** Thu, May 23 2019

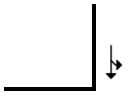
Peak-Hour: 7:30 AM -- 8:30 AM
Peak 15-Min: 7:55 AM -- 8:10 AM

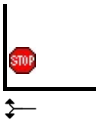


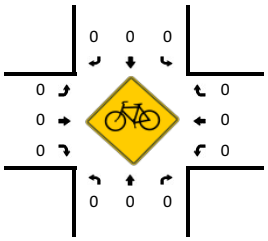


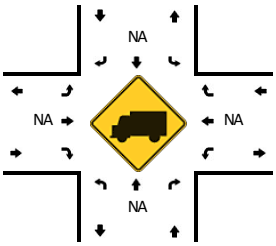
Quality Counts
DATA THAT DRIVES COMMUNITIES

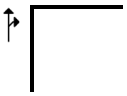


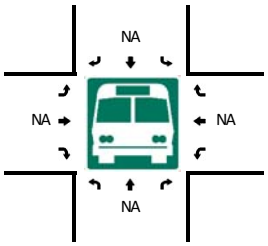












5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				Valpico Rd (Eastbound)				Valpico Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	0	0	0	0	8	2	0	0	0	0	0	0	2	0	15	0	27	
7:05 AM	0	0	0	0	7	0	0	0	0	0	0	0	2	0	15	0	24	
7:10 AM	0	1	1	0	13	0	0	0	0	0	0	0	0	0	27	0	42	
7:15 AM	0	3	1	0	10	0	0	0	1	0	0	0	0	0	13	0	28	
7:20 AM	0	0	0	0	17	0	0	0	0	0	0	0	0	0	20	0	37	
7:25 AM	0	0	1	0	14	1	0	0	0	0	0	0	1	0	22	0	39	
7:30 AM	0	0	0	0	17	0	0	0	0	0	0	0	1	0	25	0	43	
7:35 AM	0	1	2	0	21	0	0	0	0	0	0	0	0	0	32	0	56	
7:40 AM	0	0	1	0	26	0	0	0	0	0	0	0	0	0	27	0	54	
7:45 AM	0	0	1	0	30	2	0	0	0	0	0	0	0	0	40	0	73	
7:50 AM	0	0	1	0	27	0	0	0	0	0	0	0	0	0	28	0	56	
7:55 AM	0	1	0	0	26	1	0	0	0	0	0	0	1	0	38	0	67	546
8:00 AM	0	0	0	0	28	1	1	0	0	0	0	0	0	0	34	0	64	583
8:05 AM	0	0	1	0	22	3	0	0	0	0	0	0	0	0	42	0	68	627
8:10 AM	0	0	2	0	28	0	0	0	0	0	0	0	0	0	15	0	45	630
8:15 AM	0	0	0	0	15	2	0	0	0	0	0	0	0	0	25	0	42	644
8:20 AM	0	1	0	0	32	0	0	0	0	0	0	0	3	0	21	0	57	664
8:25 AM	0	1	0	0	18	0	0	0	0	0	0	0	1	0	20	0	40	665
8:30 AM	0	1	1	0	12	0	0	0	0	0	0	0	0	0	16	0	30	652
8:35 AM	0	1	2	0	12	2	0	0	0	0	0	0	1	0	25	0	43	639
8:40 AM	0	2	1	0	16	2	0	0	0	0	0	0	0	0	23	0	44	629
8:45 AM	0	0	1	0	11	2	0	0	0	0	0	0	0	0	19	0	33	589
8:50 AM	0	0	1	0	13	0	0	0	0	0	0	0	1	0	20	0	35	568
8:55 AM	0	2	2	0	18	1	0	0	0	0	0	0	4	0	13	0	40	541

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	4	4	0	304	20	4	0	0	0	0	0	4	0	456	0	796
Heavy Trucks	0	4	0		44	4	0		0	0	0		0	0	20		72
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

Comments:

Report generated on 6/4/2019 3:34 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

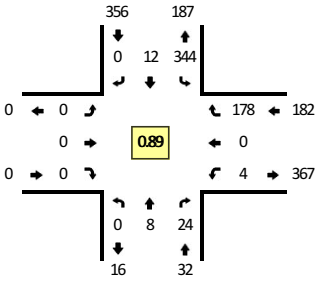
Type of peak hour being reported: Intersection Peak

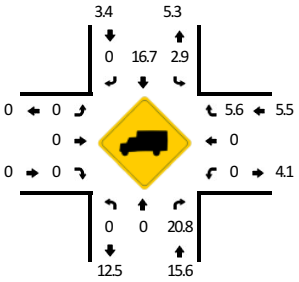
Method for determining peak hour: Total Entering Volume

LOCATION: S Lammers Rd -- Valpico Rd
CITY/STATE: San Joaquin, CA

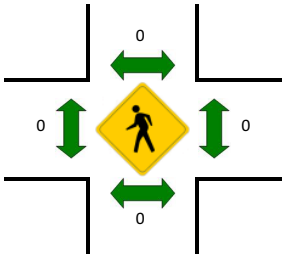
QC JOB #: 14993036
DATE: Thu, May 23 2019

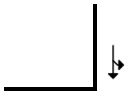
Peak-Hour: 4:35 PM -- 5:35 PM
Peak 15-Min: 4:35 PM -- 4:50 PM

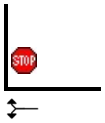


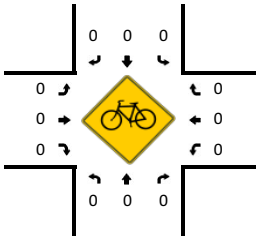


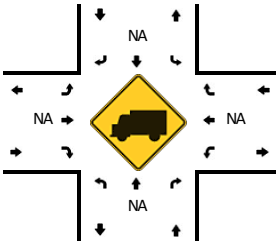
Quality Counts
DATA THAT DRIVES COMMUNITIES

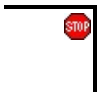


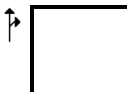


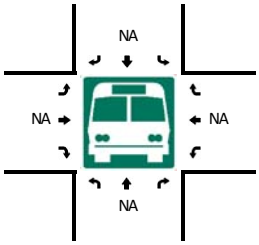












5-Min Count Period Beginning At	S Lammers Rd (Northbound)				S Lammers Rd (Southbound)				Valpico Rd (Eastbound)				Valpico Rd (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	0	1	1	0	22	0	0	0	0	0	0	0	1	0	5	0	30	
4:05 PM	0	4	1	0	28	2	0	0	0	0	0	0	0	0	18	0	53	
4:10 PM	0	1	0	0	21	2	0	0	0	0	0	0	0	0	15	0	39	
4:15 PM	0	0	0	0	30	1	0	0	0	0	0	0	0	0	12	0	43	
4:20 PM	0	1	0	0	24	2	0	0	0	0	0	0	3	0	17	0	47	
4:25 PM	0	0	2	0	28	2	0	0	0	0	0	0	1	0	11	0	44	
4:30 PM	0	6	2	0	22	1	0	0	0	0	0	0	0	0	11	0	42	
4:35 PM	0	1	0	0	36	1	0	0	0	0	0	0	0	0	18	0	56	
4:40 PM	0	0	2	0	34	1	0	0	0	0	0	0	0	0	23	0	60	
4:45 PM	0	1	0	0	28	0	0	0	0	0	0	0	0	0	16	0	45	
4:50 PM	0	1	1	0	29	1	0	0	0	0	0	0	0	0	15	0	47	
4:55 PM	0	0	2	0	24	5	0	0	0	0	0	0	1	0	9	0	41	547
5:00 PM	0	1	5	0	32	0	0	0	0	0	0	0	0	0	14	0	52	569
5:05 PM	0	4	11	0	25	1	0	0	0	0	0	0	1	0	8	0	50	566
5:10 PM	0	0	0	0	23	1	0	0	0	0	0	0	0	0	16	0	40	567
5:15 PM	0	0	0	0	31	1	0	0	0	0	0	0	1	0	10	0	43	567
5:20 PM	0	0	0	0	20	0	0	1	0	0	0	0	0	0	18	0	39	559
5:25 PM	0	0	1	0	22	1	0	0	0	0	0	0	0	0	14	0	38	553
5:30 PM	0	0	2	0	39	0	0	0	0	0	0	0	1	0	17	0	59	570
5:35 PM	0	2	0	0	24	0	0	0	0	0	0	0	0	0	16	0	42	556
5:40 PM	0	0	0	0	25	0	0	0	0	0	0	0	2	0	19	0	46	542
5:45 PM	0	0	2	0	25	2	0	0	0	0	0	0	0	0	17	0	46	543
5:50 PM	0	1	0	0	20	2	0	0	0	0	0	0	0	0	14	0	37	533
5:55 PM	0	0	0	0	32	0	0	0	0	0	0	0	0	0	16	0	48	540

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	0	8	8	0	392	8	0	0	0	0	0	0	0	0	228	0	644
Heavy Trucks	0	0	4		4	0	0		0	0	0		0	0	12		20
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Railroad																	
Stopped Buses																	

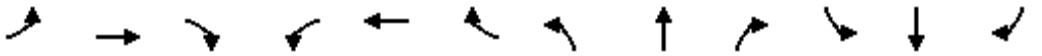
Comments:

Report generated on 6/4/2019 3:34 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Kimley»Horn

C. Background Conditions Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	764	323	178	24	239	0	0	768	656
Future Volume (veh/h)	0	0	0	764	323	178	24	239	0	0	768	656
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				840	355	196	26	263	0	0	844	721
Peak Hour Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				426	180	936	73	1478	0	0	1603	498
Arrive On Green				0.39	0.37	0.37	0.05	0.46	0.00	0.00	0.35	0.35
Sat Flow, veh/h				1139	481	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				1195	0	196	26	263	0	0	844	721
Grp Sat Flow(s),veh/h/ln				1621	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	9.8	23.3
Cycle Q Clear(g_c), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	9.8	23.3
Prop In Lane				0.70		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				606	0	936	73	1478	0	0	1603	498
V/C Ratio(X)				1.97	0.00	0.21	0.35	0.18	0.00	0.00	0.53	1.45
Avail Cap(c_a), veh/h				606	0	936	396	2122	0	0	1603	498
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.4	0.0	14.1	30.8	10.4	0.0	0.0	17.2	21.6
Incr Delay (d2), s/veh				442.8	0.0	0.1	1.1	0.0	0.0	0.0	0.2	212.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				82.8	0.0	0.9	0.4	1.0	0.0	0.0	3.2	36.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				463.2	0.0	14.2	31.9	10.5	0.0	0.0	17.4	234.5
LnGrp LOS				F	A	B	C	B	A	A	B	F
Approach Vol, veh/h					1391			289			1565	
Approach Delay, s/veh					399.9			12.4			117.4	
Approach LOS					F			B			F	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		36.6			7.6	29.0		30.0				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		5.2			3.1	25.3		26.9				
Green Ext Time (p_c), s		0.7			0.0	0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			229.2									
HCM 6th LOS			F									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	0	73	0	0	0	0	218	368	0	1228	0
Future Volume (veh/h)	48	0	73	0	0	0	0	218	368	0	1228	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	51	0	77				0	229	387	0	1293	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	345	0	153				0	2333	1040	0	2333	0
Arrive On Green	0.11	0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00
Sat Flow, veh/h	3196	0	1422				0	3272	1422	0	3355	0
Grp Volume(v), veh/h	51	0	77				0	229	387	0	1293	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1594	1422	0	1594	0
Q Serve(g_s), s	1.0	0.0	3.4				0.0	1.4	6.8	0.0	12.3	0.0
Cycle Q Clear(g_c), s	1.0	0.0	3.4				0.0	1.4	6.8	0.0	12.3	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	345	0	153				0	2333	1040	0	2333	0
V/C Ratio(X)	0.15	0.00	0.50				0.00	0.10	0.37	0.00	0.55	0.00
Avail Cap(c_a), veh/h	944	0	420				0	2333	1040	0	2333	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.2	0.0	28.3				0.0	2.6	3.3	0.0	4.1	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.9				0.0	0.1	1.0	0.0	1.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	1.2				0.0	0.3	1.4	0.0	2.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.3	0.0	29.3				0.0	2.7	4.4	0.0	5.0	0.0
LnGrp LOS	C	A	C				A	A	A	A	A	A
Approach Vol, veh/h		128						616			1293	
Approach Delay, s/veh		28.5						3.7			5.0	
Approach LOS		C						A			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	12.4	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	8.8	5.4	14.3
Green Ext Time (p_c), s	1.8	0.1	4.7

Intersection Summary	
HCM 6th Ctrl Delay	6.1
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	22	219	806	74	250	66	267	267	181	924	27
Future Volume (veh/h)	29	22	219	806	74	250	66	267	267	181	924	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1060	1589	1678	1060	1589	1678	1060	1589	1678	1060	1589	1678
Adj Flow Rate, veh/h	31	24	235	867	80	269	71	287	287	195	994	29
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	62	412	194	534	553	494	80	860	404	225	968	456
Arrive On Green	0.06	0.14	0.14	0.27	0.35	0.35	0.08	0.28	0.28	0.11	0.32	0.32
Sat Flow, veh/h	1009	3020	1422	1958	1589	1419	1009	3020	1417	1958	3020	1422
Grp Volume(v), veh/h	31	24	235	867	80	269	71	287	287	195	994	29
Grp Sat Flow(s),veh/h/ln	1009	1510	1422	979	1589	1419	1009	1510	1417	979	1510	1422
Q Serve(g_s), s	4.4	1.0	20.0	40.0	5.1	22.4	10.2	11.0	26.6	14.4	47.0	2.1
Cycle Q Clear(g_c), s	4.4	1.0	20.0	40.0	5.1	22.4	10.2	11.0	26.6	14.4	47.0	2.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	412	194	534	553	494	80	860	404	225	968	456
V/C Ratio(X)	0.50	0.06	1.21	1.62	0.14	0.54	0.89	0.33	0.71	0.87	1.03	0.06
Avail Cap(c_a), veh/h	138	412	194	534	553	494	138	968	454	334	968	456
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	66.6	55.1	63.3	53.3	32.8	38.5	66.8	41.4	47.0	63.8	49.8	34.6
Incr Delay (d2), s/veh	6.1	0.1	133.3	289.1	0.1	1.2	27.6	0.2	4.5	14.5	36.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.4	14.3	31.0	2.0	7.8	3.3	4.2	9.7	4.0	22.5	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.8	55.2	196.6	342.4	33.0	39.7	94.4	41.7	51.5	78.3	85.8	34.6
LnGrp LOS	E	E	F	F	C	D	F	D	D	E	F	C
Approach Vol, veh/h		290			1216			645			1218	
Approach Delay, s/veh		171.7			255.1			51.8			83.4	
Approach LOS		F			F			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.9	48.8	47.0	27.0	18.6	54.0	16.0	58.0
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	25.0	47.0	40.0	20.0	20.0	47.0	20.0	47.0
Max Q Clear Time (g_c+I1), s	16.4	28.6	42.0	22.0	12.2	49.0	6.4	24.4
Green Ext Time (p_c), s	0.5	2.6	0.0	0.0	0.1	0.0	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	146.9
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	381	1	510	2	99	0	0	1166	809
Future Volume (veh/h)	0	0	0	381	1	510	2	99	0	0	1166	809
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				410	1	0	2	106	0	0	1254	870
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				719	2		2	130	0	0	624	529
Arrive On Green				0.45	0.45	0.00	0.08	0.08	0.00	0.00	0.37	0.37
Sat Flow, veh/h				1594	4	1422	31	1645	0	0	1678	1422
Grp Volume(v), veh/h				411	0	0	108	0	0	0	1254	870
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1676	0	0	0	1678	1422
Q Serve(g_s), s				32.3	0.0	0.0	10.8	0.0	0.0	0.0	63.2	63.2
Cycle Q Clear(g_c), s				32.3	0.0	0.0	10.8	0.0	0.0	0.0	63.2	63.2
Prop In Lane				1.00		1.00	0.02		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				721	0		132	0	0	0	624	529
V/C Ratio(X)				0.57	0.00		0.82	0.00	0.00	0.00	2.01	1.65
Avail Cap(c_a), veh/h				721	0		288	0	0	0	624	529
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.99	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				34.5	0.0	0.0	77.1	0.0	0.0	0.0	53.4	53.4
Incr Delay (d2), s/veh				3.3	0.0	0.0	22.1	0.0	0.0	0.0	460.4	299.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				13.4	0.0	0.0	5.5	0.0	0.0	0.0	106.3	66.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				37.7	0.0	0.0	99.2	0.0	0.0	0.0	513.8	352.5
LnGrp LOS				D	A		F	A	A	A	F	F
Approach Vol, veh/h					411	A		108			2124	
Approach Delay, s/veh					37.7			99.2			447.7	
Approach LOS					D			F			F	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	19.2		69.0		81.8	
Change Period (Y+Rc), s	5.8		5.8		5.1	
Max Green Setting (Gmax), s	29.2		63.2		60.9	
Max Q Clear Time (g_c+I1), s	12.8		65.2		34.3	
Green Ext Time (p_c), s	0.6		0.0		1.8	

Intersection Summary		
HCM 6th Ctrl Delay	369.7	
HCM 6th LOS	F	

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	2	14	0	0	0	0	12	11	280	1266	0
Future Volume (veh/h)	92	2	14	0	0	0	0	12	11	280	1266	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0
Adj Flow Rate, veh/h	99	2	0				0	13	12	301	1361	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0
Cap, veh/h	118	2					0	161	137	220	995	0
Arrive On Green	0.07	0.07	0.00				0.00	0.10	0.10	1.00	1.00	0.00
Sat Flow, veh/h	1568	32	1422				0	1678	1422	301	1362	0
Grp Volume(v), veh/h	101	0	0				0	13	12	1662	0	0
Grp Sat Flow(s),veh/h/ln	1599	0	1422				0	1678	1422	1663	0	0
Q Serve(g_s), s	10.6	0.0	0.0				0.0	1.2	1.3	116.7	0.0	0.0
Cycle Q Clear(g_c), s	10.6	0.0	0.0				0.0	1.2	1.3	116.7	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	0.18		0.00
Lane Grp Cap(c), veh/h	120	0					0	161	137	1215	0	0
V/C Ratio(X)	0.84	0.00					0.00	0.08	0.09	1.37	0.00	0.00
Avail Cap(c_a), veh/h	215	0					0	161	137	1215	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00
Uniform Delay (d), s/veh	77.6	0.0	0.0				0.0	70.0	70.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	16.9	0.0	0.0				0.0	0.2	0.3	166.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	0.0	0.0				0.0	0.5	0.5	56.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	94.6	0.0	0.0				0.0	70.2	70.3	166.2	0.0	0.0
LnGrp LOS	F	A					A	E	E	F	A	A
Approach Vol, veh/h		101	A					25			1662	
Approach Delay, s/veh		94.6						70.2			166.2	
Approach LOS		F						E			F	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	22.2	17.8	130.0
Change Period (Y+Rc), s	5.8	5.1	5.8
Max Green Setting (Gmax), s	6.2	22.9	124.2
Max Q Clear Time (g_c+I1), s	3.3	12.6	118.7
Green Ext Time (p_c), s	0.0	0.3	5.4

Intersection Summary	
HCM 6th Ctrl Delay	160.8
HCM 6th LOS	F

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

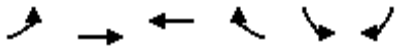
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	114	19	8	644	150	15	5	10	97	9	184
Future Volume (veh/h)	116	114	19	8	644	150	15	5	10	97	9	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	138	136	23	10	767	179	18	6	12	115	11	219
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	168	867	735	35	728	617	58	54	108	148	276	234
Arrive On Green	0.11	0.52	0.52	0.02	0.43	0.43	0.04	0.11	0.11	0.09	0.16	0.16
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	499	999	1598	1678	1422
Grp Volume(v), veh/h	138	136	23	10	767	179	18	0	18	115	11	219
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	0	1498	1598	1678	1422
Q Serve(g_s), s	7.8	3.9	0.7	0.6	40.0	7.5	1.0	0.0	1.0	6.5	0.5	14.0
Cycle Q Clear(g_c), s	7.8	3.9	0.7	0.6	40.0	7.5	1.0	0.0	1.0	6.5	0.5	14.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.67	1.00		1.00
Lane Grp Cap(c), veh/h	168	867	735	35	728	617	58	0	162	148	276	234
V/C Ratio(X)	0.82	0.16	0.03	0.28	1.05	0.29	0.31	0.00	0.11	0.78	0.04	0.93
Avail Cap(c_a), veh/h	260	867	735	260	728	617	260	0	244	260	276	234
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.4	11.7	10.9	44.4	26.1	16.9	43.3	0.0	37.1	40.9	32.4	38.0
Incr Delay (d2), s/veh	11.5	0.1	0.0	4.3	48.4	0.4	3.0	0.0	0.4	8.5	0.1	41.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	1.3	0.2	0.3	23.8	2.4	0.4	0.0	0.4	2.9	0.2	7.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.9	11.8	11.0	48.7	74.5	17.3	46.4	0.0	37.5	49.4	32.5	79.5
LnGrp LOS	D	B	B	D	F	B	D	A	D	D	C	E
Approach Vol, veh/h		297			956			36			345	
Approach Delay, s/veh		30.4			63.5			41.9			68.0	
Approach LOS		C			E			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	54.2	14.0	15.5	16.2	46.5	8.8	20.7
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	15.0	40.0	15.0	15.0	15.0	40.0	15.0	15.0
Max Q Clear Time (g_c+I1), s	2.0	5.9	8.5	3.0	9.8	42.0	3.0	16.0
Green Ext Time (p_c), s	0.0	0.9	0.2	0.0	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	58.0
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	31	190	794	77	22	13
Future Volume (veh/h)	31	190	794	77	22	13
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	37	226	945	92	26	15
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15
Cap, veh/h	56	931	788	668	119	106
Arrive On Green	0.04	0.56	0.47	0.47	0.07	0.07
Sat Flow, veh/h	1598	1678	1678	1422	1598	1422
Grp Volume(v), veh/h	37	226	945	92	26	15
Grp Sat Flow(s),veh/h/ln	1598	1678	1678	1422	1598	1422
Q Serve(g_s), s	1.8	5.5	37.6	2.9	1.2	0.8
Cycle Q Clear(g_c), s	1.8	5.5	37.6	2.9	1.2	0.8
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	56	931	788	668	119	106
V/C Ratio(X)	0.66	0.24	1.20	0.14	0.22	0.14
Avail Cap(c_a), veh/h	168	931	788	668	489	435
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.96	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.1	9.2	21.2	12.0	34.8	34.6
Incr Delay (d2), s/veh	12.1	0.6	101.5	0.4	0.9	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.8	34.5	0.9	0.5	0.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	50.2	9.7	122.7	12.4	35.7	35.2
LnGrp LOS	D	A	F	B	D	D
Approach Vol, veh/h		263	1037		41	
Approach Delay, s/veh		15.4	112.9		35.5	
Approach LOS		B	F		D	

Timer - Assigned Phs	2		5	6	8
Phs Duration (G+Y+Rc), s	50.9		6.8	44.1	10.6
Change Period (Y+Rc), s	6.5		4.0	6.5	4.6
Max Green Setting (Gmax), s	44.4		8.4	32.0	24.5
Max Q Clear Time (g_c+I1), s	7.5		3.8	39.6	3.2
Green Ext Time (p_c), s	1.2		0.0	0.0	0.1

Intersection Summary	
HCM 6th Ctrl Delay	91.4
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	224	2	0	832	13	1	0	2	34	0	2
Future Volume (veh/h)	8	224	2	0	832	13	1	0	2	34	0	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	11	303	3	0	1124	18	1	0	3	46	0	3
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	18	1329	13	2	1196	19	21	0	64	87	0	6
Arrive On Green	0.01	0.72	0.72	0.00	0.65	0.65	0.06	0.00	0.06	0.06	0.00	0.06
Sat Flow, veh/h	1668	1849	18	1668	1836	29	382	0	1145	1554	0	101
Grp Volume(v), veh/h	11	0	306	0	0	1142	4	0	0	49	0	0
Grp Sat Flow(s),veh/h/ln	1668	0	1867	1668	0	1865	1527	0	0	1656	0	0
Q Serve(g_s), s	0.5	0.0	3.9	0.0	0.0	39.1	0.2	0.0	0.0	2.0	0.0	0.0
Cycle Q Clear(g_c), s	0.5	0.0	3.9	0.0	0.0	39.1	0.2	0.0	0.0	2.0	0.0	0.0
Prop In Lane	1.00		0.01	1.00		0.02	0.25		0.75	0.94		0.06
Lane Grp Cap(c), veh/h	18	0	1342	2	0	1215	86	0	0	93	0	0
V/C Ratio(X)	0.60	0.00	0.23	0.00	0.00	0.94	0.05	0.00	0.00	0.53	0.00	0.00
Avail Cap(c_a), veh/h	94	0	1365	94	0	1364	86	0	0	93	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	35.0	0.0	3.4	0.0	0.0	11.1	31.8	0.0	0.0	32.6	0.0	0.0
Incr Delay (d2), s/veh	27.6	0.0	0.1	0.0	0.0	12.0	0.2	0.0	0.0	5.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	1.0	0.0	0.0	15.8	0.1	0.0	0.0	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	62.6	0.0	3.4	0.0	0.0	23.1	32.0	0.0	0.0	38.0	0.0	0.0
LnGrp LOS	E	A	A	A	A	C	C	A	A	D	A	A
Approach Vol, veh/h		317			1142			4			49	
Approach Delay, s/veh		5.5			23.1			32.0			38.0	
Approach LOS		A			C			C			D	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	55.1		8.0	4.8	50.3		8.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	4.0	52.0		4.0	4.0	52.0		4.0
Max Q Clear Time (g_c+I1), s	10.0	5.9		2.2	2.5	41.1		4.0
Green Ext Time (p_c), s	0.0	1.3		0.0	0.0	5.2		0.0

Intersection Summary	
HCM 6th Ctrl Delay	19.9
HCM 6th LOS	B

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	69	203	442	393	308	270
Future Volume (veh/h)	69	203	442	393	308	270
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	78	228	497	442	346	303
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	250	222	530	1396	361	316
Arrive On Green	0.14	0.14	0.30	0.75	0.39	0.39
Sat Flow, veh/h	1781	1585	1781	1870	920	806
Grp Volume(v), veh/h	78	228	497	442	0	649
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1725
Q Serve(g_s), s	4.5	16.1	31.2	9.0	0.0	42.0
Cycle Q Clear(g_c), s	4.5	16.1	31.2	9.0	0.0	42.0
Prop In Lane	1.00	1.00	1.00			0.47
Lane Grp Cap(c), veh/h	250	222	530	1396	0	677
V/C Ratio(X)	0.31	1.03	0.94	0.32	0.00	0.96
Avail Cap(c_a), veh/h	250	222	582	1482	0	705
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	44.3	49.3	39.3	4.8	0.0	34.0
Incr Delay (d2), s/veh	0.7	67.0	22.1	0.1	0.0	23.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	4.1	16.7	3.0	0.0	21.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	45.0	116.3	61.4	5.0	0.0	57.7
LnGrp LOS	D	F	E	A	A	E
Approach Vol, veh/h	306			939	649	
Approach Delay, s/veh	98.2			34.8	57.7	
Approach LOS	F			C	E	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		92.1		22.6	40.6	51.5
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s		90.9		16.1	37.5	46.9
Max Q Clear Time (g_c+I1), s		11.0		18.1	33.2	44.0
Green Ext Time (p_c), s		2.0		0.0	0.9	1.0

Intersection Summary		
HCM 6th Ctrl Delay		52.9
HCM 6th LOS		D

Intersection	
Int Delay, s/veh	30.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	53	296	497	1	125	386
Future Vol, veh/h	53	296	497	1	125	386
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	62	344	578	1	145	449

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1318	579	0	0	579	0
Stage 1	579	-	-	-	-	-
Stage 2	739	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	173	515	-	-	995	-
Stage 1	560	-	-	-	-	-
Stage 2	472	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	139	515	-	-	995	-
Mov Cap-2 Maneuver	139	-	-	-	-	-
Stage 1	560	-	-	-	-	-
Stage 2	380	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	114.6	0	2.3
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	365	995	-
HCM Lane V/C Ratio	-	-	1.112	0.146	-
HCM Control Delay (s)	-	-	114.6	9.2	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	15.1	0.5	-

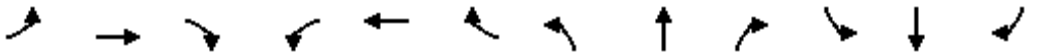
Intersection	
Int Delay, s/veh	53.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	108	0	381	0	16	8	369	17	1
Future Vol, veh/h	0	0	0	108	0	381	0	16	8	369	17	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	129	0	454	0	19	10	439	20	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1150	928	21	923	923	24	-	0	0	29	0	0
Stage 1	899	899	-	24	24	-	-	-	-	-	-	-
Stage 2	251	29	-	899	899	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	175	268	1056	250	270	1052	0	-	-	1584	-	-
Stage 1	334	358	-	994	875	-	0	-	-	-	-	-
Stage 2	753	871	-	334	358	-	0	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	78	193	1056	196	194	1052	-	-	-	1584	-	-
Mov Cap-2 Maneuver	78	193	-	196	194	-	-	-	-	-	-	-
Stage 1	334	257	-	994	875	-	-	-	-	-	-	-
Stage 2	428	871	-	240	257	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	92.3	0	7.8
HCM LOS	A	F		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	-	-	-	535	1584	-	-
HCM Lane V/C Ratio	-	-	-	1.088	0.277	-	-
HCM Control Delay (s)	-	-	0	92.3	8.1	0	-
HCM Lane LOS	-	-	A	F	A	A	-
HCM 95th %tile Q(veh)	-	-	-	18	1.1	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	423	4	301	34	449	0	0	530	34
Future Volume (veh/h)	0	0	0	423	4	301	34	449	0	0	530	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				460	4	327	37	488	0	0	576	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				558	5	882	104	1330	0	0	1172	
Arrive On Green				0.38	0.35	0.35	0.07	0.42	0.00	0.00	0.26	0.00
Sat Flow, veh/h				1585	14	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				464	0	327	37	488	0	0	576	0
Grp Sat Flow(s),veh/h/ln				1598	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				12.3	0.0	4.6	1.0	4.9	0.0	0.0	5.0	0.0
Cycle Q Clear(g_c), s				12.3	0.0	4.6	1.0	4.9	0.0	0.0	5.0	0.0
Prop In Lane				0.99		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				563	0	882	104	1330	0	0	1172	
V/C Ratio(X)				0.82	0.00	0.37	0.35	0.37	0.00	0.00	0.49	
Avail Cap(c_a), veh/h				849	0	1330	563	3013	0	0	2277	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				13.3	0.0	11.3	21.0	9.4	0.0	0.0	14.8	0.0
Incr Delay (d2), s/veh				3.1	0.0	0.2	0.8	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				3.9	0.0	1.1	0.4	1.4	0.0	0.0	1.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				16.4	0.0	11.5	21.7	9.5	0.0	0.0	15.0	0.0
LnGrp LOS				B	A	B	C	A	A	A	B	
Approach Vol, veh/h					791			525			576	A
Approach Delay, s/veh					14.3			10.3			15.0	
Approach LOS					B			B			B	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		25.3			7.6	17.7		21.6				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		6.9			3.0	7.0		14.3				
Green Ext Time (p_c), s		1.4			0.0	1.6		2.2				

Intersection Summary												
HCM 6th Ctrl Delay			13.4									
HCM 6th LOS			B									

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	112	1	54	0	0	0	0	370	844	0	675	0
Future Volume (veh/h)	112	1	54	0	0	0	0	370	844	0	675	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	125	0	60				0	411	938	0	750	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	365	0	162				0	2316	1033	0	2316	0
Arrive On Green	0.11	0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00
Sat Flow, veh/h	3196	0	1422				0	3272	1422	0	3355	0
Grp Volume(v), veh/h	125	0	60				0	411	938	0	750	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1594	1422	0	1594	0
Q Serve(g_s), s	2.4	0.0	2.6				0.0	2.7	36.0	0.0	5.7	0.0
Cycle Q Clear(g_c), s	2.4	0.0	2.6				0.0	2.7	36.0	0.0	5.7	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	365	0	162				0	2316	1033	0	2316	0
V/C Ratio(X)	0.34	0.00	0.37				0.00	0.18	0.91	0.00	0.32	0.00
Avail Cap(c_a), veh/h	937	0	417				0	2316	1033	0	2316	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.7	0.0	27.8				0.0	2.9	7.5	0.0	3.3	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.5				0.0	0.2	13.1	0.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.9				0.0	0.6	10.0	0.0	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.9	0.0	28.3				0.0	3.1	20.5	0.0	3.7	0.0
LnGrp LOS	C	A	C				A	A	C	A	A	A
Approach Vol, veh/h		185						1349			750	
Approach Delay, s/veh		28.0						15.2			3.7	
Approach LOS		C						B			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	12.9	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	38.0	4.6	7.7
Green Ext Time (p_c), s	4.0	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	12.5
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	43	77	624	36	275	121	834	508	213	979	23
Future Volume (veh/h)	45	43	77	624	36	275	121	834	508	213	979	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1060	1589	1324	1060	1589	1324	1060	1589	1324	1060	1589	1324
Adj Flow Rate, veh/h	51	48	87	701	40	309	136	937	571	239	1100	26
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	64	275	102	526	470	332	136	953	354	267	960	357
Arrive On Green	0.06	0.09	0.09	0.27	0.30	0.30	0.13	0.32	0.32	0.14	0.32	0.32
Sat Flow, veh/h	1009	3020	1122	1958	1589	1122	1009	3020	1122	1958	3020	1122
Grp Volume(v), veh/h	51	48	87	701	40	309	136	937	571	239	1100	26
Grp Sat Flow(s),veh/h/ln	1009	1510	1122	979	1589	1122	1009	1510	1122	979	1510	1122
Q Serve(g_s), s	7.4	2.2	11.4	40.0	2.7	39.8	20.0	45.8	47.0	17.9	47.3	2.4
Cycle Q Clear(g_c), s	7.4	2.2	11.4	40.0	2.7	39.8	20.0	45.8	47.0	17.9	47.3	2.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	64	275	102	526	470	332	136	953	354	267	960	357
V/C Ratio(X)	0.79	0.17	0.85	1.33	0.09	0.93	1.00	0.98	1.61	0.89	1.15	0.07
Avail Cap(c_a), veh/h	136	406	151	526	502	354	136	953	354	329	960	357
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	68.7	62.5	66.7	54.4	37.9	50.9	64.4	50.6	50.9	63.2	50.8	35.5
Incr Delay (d2), s/veh	19.2	0.3	24.7	162.4	0.1	29.7	78.2	24.9	288.0	22.2	78.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.9	3.9	21.5	1.1	13.6	8.1	20.6	41.1	5.3	28.2	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	87.9	62.8	91.4	216.9	37.9	80.6	142.6	75.5	339.0	85.4	128.8	35.5
LnGrp LOS	F	E	F	F	D	F	F	E	F	F	F	D
Approach Vol, veh/h		186			1050			1644			1365	
Approach Delay, s/veh		83.1			170.0			172.6			119.4	
Approach LOS		F			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	54.0	47.0	20.6	27.0	54.3	16.5	51.1
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	25.0	47.0	40.0	20.0	20.0	47.0	20.0	47.0
Max Q Clear Time (g_c+I1), s	19.9	49.0	42.0	13.4	22.0	49.3	9.4	41.8
Green Ext Time (p_c), s	0.5	0.0	0.0	0.2	0.0	0.0	0.1	0.7

Intersection Summary	
HCM 6th Ctrl Delay	150.9
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	5	0	442	10	1030	0	0	1295	396
Future Volume (veh/h)	0	0	0	5	0	442	10	1030	0	0	1295	396
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				5	0	0	11	1084	0	0	1363	417
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				12	0		10	975	0	0	515	437
Arrive On Green				0.01	0.00	0.00	0.59	0.59	0.00	0.00	0.31	0.31
Sat Flow, veh/h				1598	0	1422	17	1660	0	0	1678	1422
Grp Volume(v), veh/h				5	0	0	1095	0	0	0	1363	417
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1677	0	0	0	1678	1422
Q Serve(g_s), s				0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	48.9
Cycle Q Clear(g_c), s				0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	48.9
Prop In Lane				1.00		1.00	0.01		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				12	0		985	0	0	0	515	437
V/C Ratio(X)				0.42	0.00		1.11	0.00	0.00	0.00	2.65	0.96
Avail Cap(c_a), veh/h				131	0		985	0	0	0	515	437
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.09	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				84.0	0.0	0.0	35.1	0.0	0.0	0.0	58.9	57.8
Incr Delay (d2), s/veh				22.0	0.0	0.0	51.9	0.0	0.0	0.0	746.2	32.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.3	0.0	0.0	53.8	0.0	0.0	0.0	128.9	21.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				106.0	0.0	0.0	87.0	0.0	0.0	0.0	805.1	90.6
LnGrp LOS				F	A		F	A	A	A	F	F
Approach Vol, veh/h					5	A		1095			1780	
Approach Delay, s/veh					106.0			87.0			637.7	
Approach LOS					F			F			F	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	105.6		58.0		6.4			
Change Period (Y+Rc), s	5.8		5.8		5.1			
Max Green Setting (Gmax), s	87.2		52.2		13.9			
Max Q Clear Time (g_c+I1), s	101.8		54.2		2.5			
Green Ext Time (p_c), s	0.0		0.0		0.0			

Intersection Summary		
HCM 6th Ctrl Delay	427.4	
HCM 6th LOS	F	

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	188	4	66	0	0	0	0	859	433	1237	55	0
Future Volume (veh/h)	188	4	66	0	0	0	0	859	433	1237	55	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0
Adj Flow Rate, veh/h	200	4	0				0	914	461	1316	59	0
Peak Hour Factor	0.94	0.94	0.94				0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0
Cap, veh/h	221	4					0	712	603	516	23	0
Arrive On Green	0.14	0.14	0.00				0.00	0.42	0.42	0.34	0.34	0.00
Sat Flow, veh/h	1568	31	1422				0	1678	1422	1532	69	0
Grp Volume(v), veh/h	204	0	0				0	914	461	1375	0	0
Grp Sat Flow(s),veh/h/ln	1599	0	1422				0	1678	1422	1601	0	0
Q Serve(g_s), s	21.3	0.0	0.0				0.0	72.1	47.0	57.2	0.0	0.0
Cycle Q Clear(g_c), s	21.3	0.0	0.0				0.0	72.1	47.0	57.2	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	0.96		0.00
Lane Grp Cap(c), veh/h	226	0					0	712	603	539	0	0
V/C Ratio(X)	0.90	0.00					0.00	1.28	0.76	2.55	0.00	0.00
Avail Cap(c_a), veh/h	310	0					0	712	603	539	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00
Uniform Delay (d), s/veh	71.9	0.0	0.0				0.0	48.9	41.7	56.4	0.0	0.0
Incr Delay (d2), s/veh	24.0	0.0	0.0				0.0	138.4	8.9	699.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	0.0	0.0				0.0	57.4	18.1	127.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	95.9	0.0	0.0				0.0	187.4	50.6	755.5	0.0	0.0
LnGrp LOS	F	A					A	F	D	F	A	A
Approach Vol, veh/h		204	A					1375			1375	
Approach Delay, s/veh		95.9						141.5			755.5	
Approach LOS		F						F			F	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	77.9	29.1	63.0
Change Period (Y+Rc), s	5.8	5.1	5.8
Max Green Setting (Gmax), s	63.2	32.9	57.2
Max Q Clear Time (g_c+I1), s	74.1	23.3	59.2
Green Ext Time (p_c), s	0.0	0.6	0.0

Intersection Summary	
HCM 6th Ctrl Delay	424.1
HCM 6th LOS	F

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

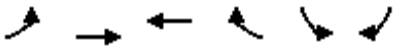
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	159	501	26	8	143	91	20	6	15	193	2	185
Future Volume (veh/h)	159	501	26	8	143	91	20	6	15	193	2	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	189	596	31	10	170	108	24	7	18	230	2	220
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	224	663	562	36	465	394	74	51	131	265	406	344
Arrive On Green	0.14	0.39	0.39	0.02	0.28	0.28	0.05	0.12	0.12	0.17	0.24	0.24
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	416	1069	1598	1678	1422
Grp Volume(v), veh/h	189	596	31	10	170	108	24	0	25	230	2	220
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	0	1485	1598	1678	1422
Q Serve(g_s), s	9.4	27.2	1.1	0.5	6.6	4.8	1.2	0.0	1.2	11.4	0.1	11.3
Cycle Q Clear(g_c), s	9.4	27.2	1.1	0.5	6.6	4.8	1.2	0.0	1.2	11.4	0.1	11.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	224	663	562	36	465	394	74	0	182	265	406	344
V/C Ratio(X)	0.84	0.90	0.06	0.28	0.37	0.27	0.32	0.00	0.14	0.87	0.00	0.64
Avail Cap(c_a), veh/h	294	824	698	294	824	698	294	0	273	294	406	344
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	23.1	15.2	39.2	23.7	23.1	37.6	0.0	31.9	33.1	23.4	27.7
Incr Delay (d2), s/veh	15.5	11.9	0.1	4.2	0.7	0.5	2.5	0.0	0.5	21.7	0.0	4.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	11.6	0.4	0.2	2.5	1.6	0.5	0.0	0.5	5.9	0.0	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.6	35.0	15.3	43.4	24.4	23.6	40.1	0.0	32.4	54.8	23.5	32.2
LnGrp LOS	D	D	B	D	C	C	D	A	C	D	C	C
Approach Vol, veh/h		816			288			49			452	
Approach Delay, s/veh		37.6			24.7			36.2			43.7	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	38.7	19.0	15.5	17.9	29.1	9.3	25.2
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	15.0	40.0	15.0	15.0	15.0	40.0	15.0	15.0
Max Q Clear Time (g_c+I1), s	2.5	29.2	13.4	3.2	11.4	8.6	3.2	13.3
Green Ext Time (p_c), s	0.0	3.0	0.1	0.0	0.2	1.7	0.0	0.2

Intersection Summary	
HCM 6th Ctrl Delay	37.0
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	20	689	210	64	84	28
Future Volume (veh/h)	20	689	210	64	84	28
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	22	749	228	70	91	30
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	104	1305	1108	939	194	173
Arrive On Green	0.06	0.74	0.63	0.63	0.12	0.12
Sat Flow, veh/h	1668	1752	1752	1485	1668	1485
Grp Volume(v), veh/h	22	749	228	70	91	30
Grp Sat Flow(s),veh/h/ln	1668	1752	1752	1485	1668	1485
Q Serve(g_s), s	1.0	15.3	4.4	1.5	4.1	1.5
Cycle Q Clear(g_c), s	1.0	15.3	4.4	1.5	4.1	1.5
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	104	1305	1108	939	194	173
V/C Ratio(X)	0.21	0.57	0.21	0.07	0.47	0.17
Avail Cap(c_a), veh/h	167	1305	1108	939	511	455
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.69	0.69	0.99	0.99	1.00	1.00
Uniform Delay (d), s/veh	35.6	4.6	6.2	5.7	33.0	31.9
Incr Delay (d2), s/veh	0.7	1.3	0.4	0.2	1.7	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	3.2	1.3	0.4	1.7	0.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	36.3	5.8	6.6	5.8	34.8	32.3
LnGrp LOS	D	A	A	A	C	C
Approach Vol, veh/h		771	298		121	
Approach Delay, s/veh		6.7	6.4		34.2	
Approach LOS		A	A		C	

Timer - Assigned Phs	2			5	6	8
Phs Duration (G+Y+Rc), s	66.1			9.0	57.1	13.9
Change Period (Y+Rc), s	6.5			4.0	6.5	4.6
Max Green Setting (Gmax), s	44.4			8.0	32.0	24.5
Max Q Clear Time (g_c+I1), s	17.3			3.0	6.4	6.1
Green Ext Time (p_c), s	5.3			0.0	1.4	0.3

Intersection Summary	
HCM 6th Ctrl Delay	9.4
HCM 6th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	709	1	4	257	25	2	0	1	14	0	1
Future Volume (veh/h)	16	709	1	4	257	25	2	0	1	14	0	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	19	854	1	5	310	30	2	0	1	17	0	1
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	32	992	1	9	869	84	4	0	2	28	0	2
Arrive On Green	0.02	0.53	0.53	0.01	0.52	0.52	0.00	0.00	0.00	0.02	0.00	0.02
Sat Flow, veh/h	1668	1868	2	1668	1679	162	1068	0	534	1565	0	92
Grp Volume(v), veh/h	19	0	855	5	0	340	3	0	0	18	0	0
Grp Sat Flow(s),veh/h/ln	1668	0	1870	1668	0	1841	1602	0	0	1657	0	0
Q Serve(g_s), s	0.5	0.0	16.1	0.1	0.0	4.4	0.1	0.0	0.0	0.4	0.0	0.0
Cycle Q Clear(g_c), s	0.5	0.0	16.1	0.1	0.0	4.4	0.1	0.0	0.0	0.4	0.0	0.0
Prop In Lane	1.00		0.00	1.00		0.09	0.67		0.33	0.94		0.06
Lane Grp Cap(c), veh/h	32	0	993	9	0	953	5	0	0	30	0	0
V/C Ratio(X)	0.60	0.00	0.86	0.55	0.00	0.36	0.57	0.00	0.00	0.60	0.00	0.00
Avail Cap(c_a), veh/h	164	0	1378	164	0	1356	157	0	0	163	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	19.8	0.0	8.2	20.2	0.0	5.8	20.3	0.0	0.0	19.8	0.0	0.0
Incr Delay (d2), s/veh	16.8	0.0	4.2	44.1	0.0	0.2	71.9	0.0	0.0	17.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	5.0	0.2	0.0	1.1	0.1	0.0	0.0	0.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.6	0.0	12.5	64.3	0.0	6.0	92.2	0.0	0.0	37.6	0.0	0.0
LnGrp LOS	D	A	B	E	A	A	F	A	A	D	A	A
Approach Vol, veh/h		874			345			3			18	
Approach Delay, s/veh		13.0			6.9			92.2			37.6	
Approach LOS		B			A			F			D	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	4.2	27.6		4.1	4.8	27.1		4.7
Change Period (Y+Rc), s	4.0	6.0		4.0	4.0	6.0		4.0
Max Green Setting (Gmax), s	4.0	30.0		4.0	4.0	30.0		4.0
Max Q Clear Time (g_c+I2), s	2.1	18.1		2.1	2.5	6.4		2.4
Green Ext Time (p_c), s	0.0	3.6		0.0	0.0	1.4		0.0

Intersection Summary	
HCM 6th Ctrl Delay	11.9
HCM 6th LOS	B

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	199	520	227	172	199	59
Future Volume (veh/h)	199	520	227	172	199	59
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	219	571	249	189	219	65
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	689	613	301	830	263	78
Arrive On Green	0.39	0.39	0.17	0.44	0.19	0.19
Sat Flow, veh/h	1781	1585	1781	1870	1385	411
Grp Volume(v), veh/h	219	571	249	189	0	284
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1796
Q Serve(g_s), s	6.6	26.5	10.4	4.8	0.0	11.7
Cycle Q Clear(g_c), s	6.6	26.5	10.4	4.8	0.0	11.7
Prop In Lane	1.00	1.00	1.00			0.23
Lane Grp Cap(c), veh/h	689	613	301	830	0	341
V/C Ratio(X)	0.32	0.93	0.83	0.23	0.00	0.83
Avail Cap(c_a), veh/h	731	650	522	1352	0	620
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.4	22.5	30.8	13.2	0.0	29.9
Incr Delay (d2), s/veh	0.3	19.6	5.7	0.1	0.0	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	23.0	4.8	1.9	0.0	5.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	16.7	42.2	36.6	13.4	0.0	35.2
LnGrp LOS	B	D	D	B	A	D
Approach Vol, veh/h	790			438	284	
Approach Delay, s/veh	35.1			26.5	35.2	
Approach LOS	D			C	D	

Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	40.6		36.2	19.5	21.1
Change Period (Y+Rc), s	6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s	55.5		31.5	22.5	26.5
Max Q Clear Time (g_c+I1), s	6.8		28.5	12.4	13.7
Green Ext Time (p_c), s	0.7		1.2	0.7	0.9

Intersection Summary	
HCM 6th Ctrl Delay	32.6
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	3.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	26	75	301	0	225	497
Future Vol, veh/h	26	75	301	0	225	497
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	83	334	0	250	552

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1386	334	0	0	334	0
Stage 1	334	-	-	-	-	-
Stage 2	1052	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	158	708	-	-	1225	-
Stage 1	725	-	-	-	-	-
Stage 2	336	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	112	708	-	-	1225	-
Mov Cap-2 Maneuver	112	-	-	-	-	-
Stage 1	725	-	-	-	-	-
Stage 2	237	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	24.1	0	2.7
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	299	1225	-
HCM Lane V/C Ratio	-	-	0.375	0.204	-
HCM Control Delay (s)	-	-	24.1	8.7	0
HCM Lane LOS	-	-	C	A	A
HCM 95th %tile Q(veh)	-	-	1.7	0.8	-

Intersection	
Int Delay, s/veh	14

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	48	0	229	0	19	24	480	24	0
Future Vol, veh/h	0	0	0	48	0	229	0	19	24	480	24	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	54	0	257	0	21	27	539	27	0

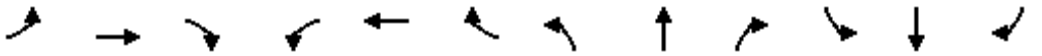
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1268	1153	27	1140	1140	35	-	0	0	48	0	0
Stage 1	1105	1105	-	35	35	-	-	-	-	-	-	-
Stage 2	163	48	-	1105	1105	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	145	197	1048	178	201	1038	0	-	-	1559	-	0
Stage 1	256	286	-	981	866	-	0	-	-	-	-	0
Stage 2	839	855	-	256	286	-	0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	79	128	1048	129	130	1038	-	-	-	1559	-	-
Mov Cap-2 Maneuver	79	128	-	129	130	-	-	-	-	-	-	-
Stage 1	256	186	-	981	866	-	-	-	-	-	-	-
Stage 2	631	855	-	166	186	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	26.8	0	8.1
HCM LOS	A	D		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	467	1559	-
HCM Lane V/C Ratio	-	-	-	0.666	0.346	-
HCM Control Delay (s)	-	-	0	26.8	8.5	0
HCM Lane LOS	-	-	A	D	A	A
HCM 95th %tile Q(veh)	-	-	-	4.8	1.6	-

Kimley»Horn

D. Background Plus Project Conditions Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Future Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				957	355	196	27	265	0	0	887	721
Peak Hour Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				441	164	935	75	1480	0	0	1601	497
Arrive On Green				0.39	0.37	0.37	0.05	0.46	0.00	0.00	0.35	0.35
Sat Flow, veh/h				1181	438	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				1312	0	196	27	265	0	0	887	721
Grp Sat Flow(s),veh/h/ln				1619	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	10.4	23.3
Cycle Q Clear(g_c), s				24.9	0.0	3.5	1.1	3.2	0.0	0.0	10.4	23.3
Prop In Lane				0.73		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				605	0	935	75	1480	0	0	1601	497
V/C Ratio(X)				2.17	0.00	0.21	0.36	0.18	0.00	0.00	0.55	1.45
Avail Cap(c_a), veh/h				605	0	935	396	2119	0	0	1601	497
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				20.5	0.0	14.2	30.8	10.4	0.0	0.0	17.5	21.7
Incr Delay (d2), s/veh				531.7	0.0	0.1	1.1	0.0	0.0	0.0	0.3	213.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				97.6	0.0	0.9	0.4	1.0	0.0	0.0	3.4	36.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				552.2	0.0	14.3	31.8	10.4	0.0	0.0	17.7	235.5
LnGrp LOS				F	A	B	C	B	A	A	B	F
Approach Vol, veh/h					1508			292			1608	
Approach Delay, s/veh					482.3			12.4			115.4	
Approach LOS					F			B			F	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		36.6			7.6	29.0		30.0				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		5.2			3.1	25.3		26.9				
Green Ext Time (p_c), s		0.7			0.0	0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			268.9									
HCM 6th LOS			F									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	0	91	0	0	0	0	221	376	0	1374	0
Future Volume (veh/h)	48	0	91	0	0	0	0	221	376	0	1374	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	51	0	96				0	233	396	0	1446	0
Peak Hour Factor	0.95	0.95	0.95				0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	354	0	158				0	2325	1037	0	2325	0
Arrive On Green	0.11	0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00
Sat Flow, veh/h	3196	0	1422				0	3272	1422	0	3355	0
Grp Volume(v), veh/h	51	0	96				0	233	396	0	1446	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1594	1422	0	1594	0
Q Serve(g_s), s	1.0	0.0	4.4				0.0	1.4	7.1	0.0	15.2	0.0
Cycle Q Clear(g_c), s	1.0	0.0	4.4				0.0	1.4	7.1	0.0	15.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	354	0	158				0	2325	1037	0	2325	0
V/C Ratio(X)	0.14	0.00	0.61				0.00	0.10	0.38	0.00	0.62	0.00
Avail Cap(c_a), veh/h	941	0	419				0	2325	1037	0	2325	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.2	0.0	28.7				0.0	2.7	3.4	0.0	4.5	0.0
Incr Delay (d2), s/veh	0.1	0.0	1.4				0.0	0.1	1.1	0.0	1.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	1.5				0.0	0.3	1.5	0.0	3.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.2	0.0	30.1				0.0	2.8	4.5	0.0	5.8	0.0
LnGrp LOS	C	A	C				A	A	A	A	A	A
Approach Vol, veh/h		147						629			1446	
Approach Delay, s/veh		29.1						3.9			5.8	
Approach LOS		C						A			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	12.6	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	9.1	6.4	17.2
Green Ext Time (p_c), s	1.8	0.1	5.5

Intersection Summary	
HCM 6th Ctrl Delay	6.8
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	22	219	814	74	260	66	267	400	329	924	27
Future Volume (veh/h)	29	22	219	814	74	260	66	267	400	329	924	27
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1060	1589	1678	1060	1589	1678	1060	1589	1678	1060	1589	1678
Adj Flow Rate, veh/h	31	24	235	875	80	280	71	287	430	354	994	29
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	57	377	178	489	507	452	80	887	416	306	1120	527
Arrive On Green	0.06	0.13	0.13	0.25	0.32	0.32	0.08	0.29	0.29	0.16	0.37	0.37
Sat Flow, veh/h	1009	3020	1422	1958	1589	1419	1009	3020	1417	1958	3020	1422
Grp Volume(v), veh/h	31	24	235	875	80	280	71	287	430	354	994	29
Grp Sat Flow(s),veh/h/ln	1009	1510	1422	979	1589	1419	1009	1510	1417	979	1510	1422
Q Serve(g_s), s	4.8	1.1	20.0	40.0	5.8	26.8	11.1	11.9	47.0	25.0	49.4	2.1
Cycle Q Clear(g_c), s	4.8	1.1	20.0	40.0	5.8	26.8	11.1	11.9	47.0	25.0	49.4	2.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	57	377	178	489	507	452	80	887	416	306	1120	527
V/C Ratio(X)	0.55	0.06	1.32	1.79	0.16	0.62	0.89	0.32	1.03	1.16	0.89	0.06
Avail Cap(c_a), veh/h	126	377	178	489	507	452	126	887	416	306	1120	527
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	73.5	61.7	70.0	60.0	39.1	46.3	73.0	44.1	56.5	67.5	47.2	32.3
Incr Delay (d2), s/veh	7.9	0.1	178.7	362.7	0.1	2.6	33.7	0.2	52.8	101.1	8.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.4	16.0	34.4	2.3	9.6	3.7	4.5	22.5	10.6	20.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.4	61.8	248.7	422.7	39.2	48.8	106.7	44.3	109.3	168.6	56.1	32.4
LnGrp LOS	F	E	F	F	D	D	F	D	F	F	E	C
Approach Vol, veh/h		290			1235			788			1377	
Approach Delay, s/veh		215.4			313.1			85.4			84.5	
Approach LOS		F			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	54.0	47.0	27.0	19.7	66.3	16.0	58.0
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	25.0	47.0	40.0	20.0	20.0	47.0	20.0	47.0
Max Q Clear Time (g_c+I1), s	27.0	49.0	42.0	22.0	13.1	51.4	6.8	28.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	171.5
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	381	1	613	2	129	0	0	1172	811
Future Volume (veh/h)	0	0	0	381	1	613	2	129	0	0	1172	811
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				410	1	0	2	139	0	0	1260	872
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				687	2		2	164	0	0	624	529
Arrive On Green				0.43	0.43	0.00	0.10	0.10	0.00	0.00	0.37	0.37
Sat Flow, veh/h				1594	4	1422	24	1653	0	0	1678	1422
Grp Volume(v), veh/h				411	0	0	141	0	0	0	1260	872
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1677	0	0	0	1678	1422
Q Serve(g_s), s				33.5	0.0	0.0	14.1	0.0	0.0	0.0	63.2	63.2
Cycle Q Clear(g_c), s				33.5	0.0	0.0	14.1	0.0	0.0	0.0	63.2	63.2
Prop In Lane				1.00		1.00	0.01		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				689	0		166	0	0	0	624	529
V/C Ratio(X)				0.60	0.00		0.85	0.00	0.00	0.00	2.02	1.65
Avail Cap(c_a), veh/h				689	0		288	0	0	0	624	529
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.98	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.0	0.0	0.0	75.4	0.0	0.0	0.0	53.4	53.4
Incr Delay (d2), s/veh				3.8	0.0	0.0	21.2	0.0	0.0	0.0	464.7	300.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				14.0	0.0	0.0	7.1	0.0	0.0	0.0	107.1	66.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				40.8	0.0	0.0	96.6	0.0	0.0	0.0	518.1	354.2
LnGrp LOS				D	A		F	A	A	A	F	F
Approach Vol, veh/h					411	A		141			2132	
Approach Delay, s/veh					40.8			96.6			451.1	
Approach LOS					D			F			F	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	22.6		69.0		78.4	
Change Period (Y+Rc), s	5.8		5.8		5.1	
Max Green Setting (Gmax), s	29.2		63.2		60.9	
Max Q Clear Time (g_c+I1), s	16.1		65.2		35.5	
Green Ext Time (p_c), s	0.8		0.0		1.8	

Intersection Summary		
HCM 6th Ctrl Delay	369.6	
HCM 6th LOS	F	

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	122	2	14	0	0	0	0	12	11	286	1266	0
Future Volume (veh/h)	122	2	14	0	0	0	0	12	11	286	1266	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0
Adj Flow Rate, veh/h	131	2	0				0	13	12	308	1361	0
Peak Hour Factor	0.93	0.93	0.93				0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0
Cap, veh/h	150	2					0	127	108	224	990	0
Arrive On Green	0.10	0.10	0.00				0.00	0.08	0.08	1.00	1.00	0.00
Sat Flow, veh/h	1575	24	1422				0	1678	1422	307	1356	0
Grp Volume(v), veh/h	133	0	0				0	13	12	1669	0	0
Grp Sat Flow(s),veh/h/ln	1599	0	1422				0	1678	1422	1662	0	0
Q Serve(g_s), s	14.0	0.0	0.0				0.0	1.2	1.3	121.3	0.0	0.0
Cycle Q Clear(g_c), s	14.0	0.0	0.0				0.0	1.2	1.3	121.3	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	0.18		0.00
Lane Grp Cap(c), veh/h	152	0					0	127	108	1215	0	0
V/C Ratio(X)	0.87	0.00					0.00	0.10	0.11	1.37	0.00	0.00
Avail Cap(c_a), veh/h	215	0					0	127	108	1215	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00
Uniform Delay (d), s/veh	75.9	0.0	0.0				0.0	73.2	73.2	0.0	0.0	0.0
Incr Delay (d2), s/veh	24.6	0.0	0.0				0.0	0.3	0.5	168.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	0.0	0.0				0.0	0.5	0.5	57.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	100.5	0.0	0.0				0.0	73.5	73.7	168.9	0.0	0.0
LnGrp LOS	F	A					A	E	E	F	A	A
Approach Vol, veh/h		133	A					25			1669	
Approach Delay, s/veh		100.5						73.6			168.9	
Approach LOS		F						E			F	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	18.7	21.3	130.0
Change Period (Y+Rc), s	5.8	5.1	5.8
Max Green Setting (Gmax), s	6.2	22.9	124.2
Max Q Clear Time (g_c+I1), s	3.3	16.0	123.3
Green Ext Time (p_c), s	0.0	0.3	0.9

Intersection Summary	
HCM 6th Ctrl Delay	162.6
HCM 6th LOS	F

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184
Future Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	138	470	23	10	788	180	18	6	12	135	11	219
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	168	857	727	35	718	609	57	53	107	165	292	247
Arrive On Green	0.10	0.51	0.51	0.02	0.43	0.43	0.04	0.11	0.11	0.10	0.17	0.17
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	499	999	1598	1678	1422
Grp Volume(v), veh/h	138	470	23	10	788	180	18	0	18	135	11	219
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	0	1498	1598	1678	1422
Q Serve(g_s), s	7.9	17.8	0.8	0.6	40.0	7.7	1.0	0.0	1.0	7.7	0.5	14.0
Cycle Q Clear(g_c), s	7.9	17.8	0.8	0.6	40.0	7.7	1.0	0.0	1.0	7.7	0.5	14.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.67	1.00		1.00
Lane Grp Cap(c), veh/h	168	857	727	35	718	609	57	0	160	165	292	247
V/C Ratio(X)	0.82	0.55	0.03	0.28	1.10	0.30	0.31	0.00	0.11	0.82	0.04	0.89
Avail Cap(c_a), veh/h	257	857	727	257	718	609	257	0	241	257	292	247
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.0	15.5	11.3	44.9	26.7	17.5	43.9	0.0	37.7	41.0	32.1	37.7
Incr Delay (d2), s/veh	12.0	0.9	0.0	4.3	63.1	0.4	3.1	0.0	0.4	11.3	0.1	29.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	6.2	0.2	0.3	26.8	2.5	0.5	0.0	0.4	3.5	0.2	6.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	53.0	16.5	11.4	49.3	89.8	17.9	47.0	0.0	38.1	52.3	32.1	67.6
LnGrp LOS	D	B	B	D	F	B	D	A	D	D	C	E
Approach Vol, veh/h		631			978			36			365	
Approach Delay, s/veh		24.3			76.2			42.5			60.9	
Approach LOS		C			E			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	54.2	15.1	15.5	16.3	46.5	8.9	21.8
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	15.0	40.0	15.0	15.0	15.0	40.0	15.0	15.0
Max Q Clear Time (g_c+I1), s	2.6	19.8	9.7	3.0	9.9	42.0	3.0	16.0
Green Ext Time (p_c), s	0.0	3.0	0.2	0.0	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	56.5
HCM 6th LOS	E

Notes

User approved pedestrian interval to be less than phase max green.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	31	415	72	80	800	77	13	0	2	22	0	13
Future Volume (veh/h)	31	415	72	80	800	77	13	0	2	22	0	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	34	451	78	87	870	84	14	0	2	24	0	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	53	1076	480	108	1205	537	21	0	86	55	0	116
Arrive On Green	0.03	0.34	0.34	0.07	0.38	0.38	0.01	0.00	0.06	0.03	0.00	0.08
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	0	1422	1598	0	1422
Grp Volume(v), veh/h	34	451	78	87	870	84	14	0	2	24	0	14
Grp Sat Flow(s),veh/h/ln	1598	1594	1422	1598	1594	1422	1598	0	1422	1598	0	1422
Q Serve(g_s), s	1.7	8.7	3.1	4.3	18.7	3.1	0.7	0.0	0.1	1.2	0.0	0.7
Cycle Q Clear(g_c), s	1.7	8.7	3.1	4.3	18.7	3.1	0.7	0.0	0.1	1.2	0.0	0.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	53	1076	480	108	1205	537	21	0	86	55	0	116
V/C Ratio(X)	0.64	0.42	0.16	0.81	0.72	0.16	0.66	0.00	0.02	0.44	0.00	0.12
Avail Cap(c_a), veh/h	100	1076	480	108	1205	537	80	0	427	80	0	427
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	38.2	20.4	18.6	36.8	21.3	16.5	39.3	0.0	35.3	37.9	0.0	34.1
Incr Delay (d2), s/veh	12.2	1.2	0.7	35.0	3.8	0.6	29.2	0.0	0.1	5.4	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	3.1	1.1	2.6	6.8	1.1	0.4	0.0	0.0	0.5	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.5	21.7	19.3	71.8	25.1	17.1	68.4	0.0	35.4	43.3	0.0	34.5
LnGrp LOS	D	C	B	E	C	B	E	A	D	D	A	C
Approach Vol, veh/h		563			1041			16			38	
Approach Delay, s/veh		23.1			28.3			64.3			40.1	
Approach LOS		C			C			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.9	33.5	6.7	9.5	6.7	36.7	5.1	11.1
Change Period (Y+Rc), s	4.5	6.5	4.0	4.6	4.0	6.5	4.0	4.6
Max Green Setting (Gmax), s	5.4	27.0	4.0	24.0	5.0	27.9	4.0	24.0
Max Q Clear Time (g_c+I1), s	5.3	10.7	3.2	2.1	3.7	20.7	2.7	2.7
Green Ext Time (p_c), s	0.0	2.7	0.0	0.0	0.0	3.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	27.2
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	331	108	0	957	0	3
Future Vol, veh/h	331	108	0	957	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	0	0	15	0	0
Mvmt Flow	360	117	0	1040	0	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	239
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	768
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	768
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	768	-	-	-
HCM Lane V/C Ratio	0.004	-	-	-
HCM Control Delay (s)	9.7	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	217	117	0	951	6	0
Future Volume (veh/h)	217	117	0	951	6	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1678	418	418	1678	418	418
Adj Flow Rate, veh/h	236	127	0	1034	127	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	100	100	15	100	100
Cap, veh/h	1612	179	1	1612	9999	9999
Arrive On Green	0.51	0.51	0.00	0.51	0.20	0.20
Sat Flow, veh/h	3272	354	398	4272	1206	1240	3610	1098	240
Grp Volume(v), veh/h	236	127	0	1034	127	1
Grp Sat Flow(s),veh/h/ln	1594	354	398	1594	398	354
Q Serve(g_s), s	1.4	9.9	0.0	8.5	0.0	0.0
Cycle Q Clear(g_c), s	1.4	9.9	0.0	8.5	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1612	179	1	1612	483	3664	1743	1040
V/C Ratio(X)	0.15	0.71	0.00	0.64	0.00	0.00
Avail Cap(c_a), veh/h	2538	282	44	2538	603	3664	1743	1040
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.7	6.8	0.0	6.5	0.0	0.0
Incr Delay (d2), s/veh	0.0	5.1	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.5	0.0	1.1	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	4.8	11.9	0.0	6.9	0.0	0.0
LnGrp LOS	A	B	A	A	A	A
Approach Vol, veh/h	363			1034	128	
Approach Delay, s/veh	7.3			6.9	0.0	
Approach LOS	A			A	A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	24.6		11.2		24.6
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+I1), s	0.0	11.9		2.0		10.5
Green Ext Time (p_c), s	0.0	1.6		0.4		7.6

Intersection Summary	
HCM 6th Ctrl Delay	6.4
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2
Future Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	11	309	3	0	1232	18	1	0	3	46	0	3
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	18	1458	14	2	1325	19	2	0	5	55	0	4
Arrive On Green	0.01	0.79	0.79	0.00	0.72	0.72	0.00	0.00	0.00	0.04	0.00	0.04
Sat Flow, veh/h	1668	1849	18	1668	1839	27	382	0	1145	1554	0	101
Grp Volume(v), veh/h	11	0	312	0	0	1250	4	0	0	49	0	0
Grp Sat Flow(s),veh/h/ln	1668	0	1867	1668	0	1866	1527	0	0	1656	0	0
Q Serve(g_s), s	0.5	0.0	3.0	0.0	0.0	39.7	0.2	0.0	0.0	2.1	0.0	0.0
Cycle Q Clear(g_c), s	0.5	0.0	3.0	0.0	0.0	39.7	0.2	0.0	0.0	2.1	0.0	0.0
Prop In Lane	1.00		0.01	1.00		0.01	0.25		0.75	0.94		0.06
Lane Grp Cap(c), veh/h	18	0	1472	2	0	1344	7	0	0	59	0	0
V/C Ratio(X)	0.60	0.00	0.21	0.00	0.00	0.93	0.61	0.00	0.00	0.83	0.00	0.00
Avail Cap(c_a), veh/h	95	0	1655	95	0	1653	87	0	0	95	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	34.4	0.0	1.9	0.0	0.0	8.3	34.8	0.0	0.0	33.5	0.0	0.0
Incr Delay (d2), s/veh	27.5	0.0	0.1	0.0	0.0	8.6	67.8	0.0	0.0	27.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.5	0.0	0.0	12.9	0.2	0.0	0.0	1.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.9	0.0	1.9	0.0	0.0	16.9	102.6	0.0	0.0	60.5	0.0	0.0
LnGrp LOS	E	A	A	A	A	B	F	A	A	E	A	A
Approach Vol, veh/h		323			1250			4			49	
Approach Delay, s/veh		4.0			16.9			102.6			60.5	
Approach LOS		A			B			F			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.0	59.2		4.3	4.8	54.4		6.5				
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0				
Max Green Setting (Gmax), s	4.0	62.0		4.0	4.0	62.0		4.0				
Max Q Clear Time (g_c+I1), s	10.0	5.0		2.2	2.5	41.7		4.1				
Green Ext Time (p_c), s	0.0	1.3		0.0	0.0	8.7		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	15.9
HCM 6th LOS	B

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	70	207	506	393	308	286
Future Volume (veh/h)	70	207	506	393	308	286
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	233	569	442	346	321
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	239	213	557	1417	349	324
Arrive On Green	0.13	0.13	0.31	0.76	0.39	0.39
Sat Flow, veh/h	1781	1585	1781	1870	893	828
Grp Volume(v), veh/h	79	233	569	442	0	667
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1721
Q Serve(g_s), s	4.8	16.1	37.5	9.0	0.0	46.2
Cycle Q Clear(g_c), s	4.8	16.1	37.5	9.0	0.0	46.2
Prop In Lane	1.00	1.00	1.00			0.48
Lane Grp Cap(c), veh/h	239	213	557	1417	0	673
V/C Ratio(X)	0.33	1.10	1.02	0.31	0.00	0.99
Avail Cap(c_a), veh/h	239	213	557	1417	0	673
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.1	52.0	41.3	4.6	0.0	36.4
Incr Delay (d2), s/veh	0.8	89.6	43.9	0.1	0.0	32.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	18.5	23.0	3.0	0.0	25.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	47.9	141.6	85.1	4.7	0.0	68.8
LnGrp LOS	D	F	F	A	A	E
Approach Vol, veh/h	312			1011	667	
Approach Delay, s/veh	117.8			50.0	68.8	
Approach LOS	F			D	E	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		97.4		22.6	44.0	53.4
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s		90.9		16.1	37.5	46.9
Max Q Clear Time (g_c+I1), s		11.0		18.1	39.5	48.2
Green Ext Time (p_c), s		2.0		0.0	0.0	0.0

Intersection Summary		
HCM 6th Ctrl Delay		66.9
HCM 6th LOS		E

Intersection	
Int Delay, s/veh	40.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	53	296	561	1	125	390
Future Vol, veh/h	53	296	561	1	125	390
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	62	344	652	1	145	453

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1396	653	0	0	653	0
Stage 1	653	-	-	-	-	-
Stage 2	743	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	156	467	-	-	934	-
Stage 1	518	-	-	-	-	-
Stage 2	470	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	124	467	-	-	934	-
Mov Cap-2 Maneuver	124	-	-	-	-	-
Stage 1	518	-	-	-	-	-
Stage 2	372	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	162.5	0	2.3
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	329	934	-
HCM Lane V/C Ratio	-	-	1.233	0.156	-
HCM Control Delay (s)	-	-	162.5	9.6	0
HCM Lane LOS	-	-	F	A	A
HCM 95th %tile Q(veh)	-	-	18	0.6	-

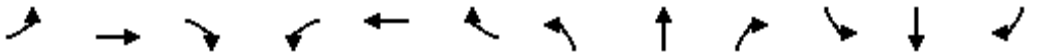
Intersection	
Int Delay, s/veh	72.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	108	0	441	0	20	8	373	17	1
Future Vol, veh/h	0	0	0	108	0	441	0	20	8	373	17	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	84	84	84	84	84	84	84	84	84	84	84	84
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	129	0	525	0	24	10	444	20	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1201	943	21	938	938	29	-	0	0	34	0	0
Stage 1	909	909	-	29	29	-	-	-	-	-	-	-
Stage 2	292	34	-	909	909	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	162	263	1056	244	264	1046	0	-	-	1578	-	-
Stage 1	329	354	-	988	871	-	0	-	-	-	-	-
Stage 2	716	867	-	329	354	-	0	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	63	188	1056	190	189	1046	-	-	-	1578	-	-
Mov Cap-2 Maneuver	63	188	-	190	189	-	-	-	-	-	-	-
Stage 1	329	253	-	988	871	-	-	-	-	-	-	-
Stage 2	357	867	-	235	253	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	122.4	0	7.8
HCM LOS	A	F		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	-	-	-	555	1578	-	-
HCM Lane V/C Ratio	-	-	-	1.178	0.281	-	-
HCM Control Delay (s)	-	-	0	122.4	8.2	0	-
HCM Lane LOS	-	-	A	F	A	A	-
HCM 95th %tile Q(veh)	-	-	-	23	1.2	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Future Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				465	4	327	40	497	0	0	578	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				562	5	887	110	1331	0	0	1160	
Arrive On Green				0.38	0.35	0.35	0.07	0.42	0.00	0.00	0.25	0.00
Sat Flow, veh/h				1585	14	2502	1598	3272	0	0	4731	1422
Grp Volume(v), veh/h				469	0	327	40	497	0	0	578	0
Grp Sat Flow(s),veh/h/ln				1598	0	1251	1598	1594	0	0	1527	1422
Q Serve(g_s), s				12.6	0.0	4.6	1.1	5.1	0.0	0.0	5.1	0.0
Cycle Q Clear(g_c), s				12.6	0.0	4.6	1.1	5.1	0.0	0.0	5.1	0.0
Prop In Lane				0.99		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				566	0	887	110	1331	0	0	1160	
V/C Ratio(X)				0.83	0.00	0.37	0.36	0.37	0.00	0.00	0.50	
Avail Cap(c_a), veh/h				841	0	1316	557	2983	0	0	2254	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				13.4	0.0	11.4	21.0	9.5	0.0	0.0	15.1	0.0
Incr Delay (d2), s/veh				3.4	0.0	0.2	0.7	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.1	0.0	1.1	0.4	1.4	0.0	0.0	1.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				16.8	0.0	11.5	21.8	9.6	0.0	0.0	15.2	0.0
LnGrp LOS				B	A	B	C	A	A	A	B	
Approach Vol, veh/h					796			537			578	A
Approach Delay, s/veh					14.6			10.5			15.2	
Approach LOS					B			B			B	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		25.5			7.8	17.7		21.9				
Change Period (Y+Rc), s		5.7			4.5	5.7		5.1				
Max Green Setting (Gmax), s		44.3			16.5	23.3		24.9				
Max Q Clear Time (g_c+I1), s		7.1			3.1	7.1		14.6				
Green Ext Time (p_c), s		1.4			0.0	1.6		2.2				

Intersection Summary												
HCM 6th Ctrl Delay			13.7									
HCM 6th LOS			B									

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	112	1	54	0	0	0	0	381	863	0	682	0
Future Volume (veh/h)	112	1	54	0	0	0	0	381	863	0	682	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	125	0	60				0	423	959	0	758	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	365	0	162				0	2316	1033	0	2316	0
Arrive On Green	0.11	0.00	0.11				0.00	0.73	0.73	0.00	0.73	0.00
Sat Flow, veh/h	3196	0	1422				0	3272	1422	0	3355	0
Grp Volume(v), veh/h	125	0	60				0	423	959	0	758	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1594	1422	0	1594	0
Q Serve(g_s), s	2.4	0.0	2.6				0.0	2.8	38.5	0.0	5.8	0.0
Cycle Q Clear(g_c), s	2.4	0.0	2.6				0.0	2.8	38.5	0.0	5.8	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	365	0	162				0	2316	1033	0	2316	0
V/C Ratio(X)	0.34	0.00	0.37				0.00	0.18	0.93	0.00	0.33	0.00
Avail Cap(c_a), veh/h	937	0	417				0	2316	1033	0	2316	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.7	0.0	27.8				0.0	2.9	7.8	0.0	3.3	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.5				0.0	0.2	15.3	0.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.9				0.0	0.6	11.1	0.0	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.9	0.0	28.3				0.0	3.1	23.1	0.0	3.7	0.0
LnGrp LOS	C	A	C				A	A	C	A	A	A
Approach Vol, veh/h		185						1382			758	
Approach Delay, s/veh		28.0						17.0			3.7	
Approach LOS		C						B			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	12.9	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	40.5	4.6	7.8
Green Ext Time (p_c), s	3.6	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	13.5
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	43	77	646	36	302	121	834	514	219	979	23
Future Volume (veh/h)	45	43	77	646	36	302	121	834	514	219	979	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1060	1589	1324	1060	1589	1324	1060	1589	1324	1060	1589	1324
Adj Flow Rate, veh/h	51	48	87	726	40	339	136	937	578	246	1100	26
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	64	330	123	512	488	345	132	928	345	273	954	354
Arrive On Green	0.06	0.11	0.11	0.26	0.31	0.31	0.13	0.31	0.31	0.14	0.32	0.32
Sat Flow, veh/h	1009	3020	1122	1958	1589	1122	1009	3020	1122	1958	3020	1122
Grp Volume(v), veh/h	51	48	87	726	40	339	136	937	578	246	1100	26
Grp Sat Flow(s),veh/h/ln	1009	1510	1122	979	1589	1122	1009	1510	1122	979	1510	1122
Q Serve(g_s), s	7.6	2.2	11.5	40.0	2.7	45.9	20.0	47.0	47.0	18.9	48.3	2.5
Cycle Q Clear(g_c), s	7.6	2.2	11.5	40.0	2.7	45.9	20.0	47.0	47.0	18.9	48.3	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	64	330	123	512	488	345	132	928	345	273	954	354
V/C Ratio(X)	0.80	0.15	0.71	1.42	0.08	0.98	1.03	1.01	1.68	0.90	1.15	0.07
Avail Cap(c_a), veh/h	132	395	147	512	488	345	132	928	345	320	954	354
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	70.7	61.7	65.8	56.5	37.7	52.6	66.5	53.0	53.0	64.8	52.4	36.7
Incr Delay (d2), s/veh	19.6	0.2	11.9	199.7	0.1	43.8	86.9	32.1	316.9	24.8	81.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.9	3.6	23.8	1.1	16.8	8.4	21.9	43.2	5.7	29.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	90.3	61.9	77.8	256.2	37.7	96.5	153.4	85.1	369.9	89.6	133.5	36.8
LnGrp LOS	F	E	E	F	D	F	F	F	F	F	F	D
Approach Vol, veh/h		186			1105			1651			1372	
Approach Delay, s/veh		77.1			199.3			190.4			123.8	
Approach LOS		E			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.3	54.0	47.0	23.7	27.0	55.3	16.7	54.0
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	25.0	47.0	40.0	20.0	20.0	47.0	20.0	47.0
Max Q Clear Time (g_c+I1), s	20.9	49.0	42.0	13.5	22.0	50.3	9.6	47.9
Green Ext Time (p_c), s	0.4	0.0	0.0	0.2	0.0	0.0	0.1	0.0

Intersection Summary	
HCM 6th Ctrl Delay	166.6
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	5	0	447	10	1031	0	0	1312	401
Future Volume (veh/h)	0	0	0	5	0	447	10	1031	0	0	1312	401
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				5	0	0	11	1085	0	0	1381	422
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				12	0		10	975	0	0	515	437
Arrive On Green				0.01	0.00	0.00	0.59	0.59	0.00	0.00	0.31	0.31
Sat Flow, veh/h				1598	0	1422	17	1660	0	0	1678	1422
Grp Volume(v), veh/h				5	0	0	1096	0	0	0	1381	422
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1677	0	0	0	1678	1422
Q Serve(g_s), s				0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	49.7
Cycle Q Clear(g_c), s				0.5	0.0	0.0	99.8	0.0	0.0	0.0	52.2	49.7
Prop In Lane				1.00		1.00	0.01		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				12	0		985	0	0	0	515	437
V/C Ratio(X)				0.42	0.00		1.11	0.00	0.00	0.00	2.68	0.97
Avail Cap(c_a), veh/h				131	0		985	0	0	0	515	437
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.09	0.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				84.0	0.0	0.0	35.1	0.0	0.0	0.0	58.9	58.0
Incr Delay (d2), s/veh				22.0	0.0	0.0	52.4	0.0	0.0	0.0	761.9	35.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.3	0.0	0.0	53.9	0.0	0.0	0.0	131.2	22.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				106.0	0.0	0.0	87.5	0.0	0.0	0.0	820.8	93.2
LnGrp LOS				F	A		F	A	A	A	F	F
Approach Vol, veh/h					5	A		1096			1803	
Approach Delay, s/veh					106.0			87.5			650.5	
Approach LOS					F			F			F	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	105.6		58.0		6.4			
Change Period (Y+Rc), s	5.8		5.8		5.1			
Max Green Setting (Gmax), s	87.2		52.2		13.9			
Max Q Clear Time (g_c+I1), s	101.8		54.2		2.5			
Green Ext Time (p_c), s	0.0		0.0		0.0			

Intersection Summary		
HCM 6th Ctrl Delay	437.1	
HCM 6th LOS	F	

Notes

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	4	66	0	0	0	0	859	433	1254	55	0
Future Volume (veh/h)	189	4	66	0	0	0	0	859	433	1254	55	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	1678	1678	0
Adj Flow Rate, veh/h	201	4	0				0	914	461	1334	59	0
Peak Hour Factor	0.94	0.94	0.94				0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	15	15	15				0	15	15	15	15	0
Cap, veh/h	222	4					0	711	602	516	23	0
Arrive On Green	0.14	0.14	0.00				0.00	0.42	0.42	0.34	0.34	0.00
Sat Flow, veh/h	1568	31	1422				0	1678	1422	1533	68	0
Grp Volume(v), veh/h	205	0	0				0	914	461	1393	0	0
Grp Sat Flow(s),veh/h/ln	1599	0	1422				0	1678	1422	1601	0	0
Q Serve(g_s), s	21.5	0.0	0.0				0.0	72.0	47.0	57.2	0.0	0.0
Cycle Q Clear(g_c), s	21.5	0.0	0.0				0.0	72.0	47.0	57.2	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	0.96		0.00
Lane Grp Cap(c), veh/h	227	0					0	711	602	539	0	0
V/C Ratio(X)	0.90	0.00					0.00	1.29	0.77	2.59	0.00	0.00
Avail Cap(c_a), veh/h	310	0					0	711	602	539	0	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.09	0.00	0.00
Uniform Delay (d), s/veh	71.8	0.0	0.0				0.0	49.0	41.8	56.4	0.0	0.0
Incr Delay (d2), s/veh	24.2	0.0	0.0				0.0	139.2	9.0	714.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	0.0	0.0				0.0	57.5	18.1	129.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.0	0.0	0.0				0.0	188.2	50.8	770.5	0.0	0.0
LnGrp LOS	F	A					A	F	D	F	A	A
Approach Vol, veh/h		205	A					1375			1393	
Approach Delay, s/veh		96.0						142.1			770.5	
Approach LOS		F						F			F	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	77.8	29.2	63.0
Change Period (Y+Rc), s	5.8	5.1	5.8
Max Green Setting (Gmax), s	63.2	32.9	57.2
Max Q Clear Time (g_c+I1), s	74.0	23.5	59.2
Green Ext Time (p_c), s	0.0	0.6	0.0

Intersection Summary	
HCM 6th Ctrl Delay	433.4
HCM 6th LOS	F

Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Future Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	189	611	31	10	229	112	24	7	18	231	2	220
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	224	674	571	36	477	404	74	50	129	265	403	341
Arrive On Green	0.14	0.40	0.40	0.02	0.28	0.28	0.05	0.12	0.12	0.17	0.24	0.24
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	416	1069	1598	1678	1422
Grp Volume(v), veh/h	189	611	31	10	229	112	24	0	25	231	2	220
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	0	1485	1598	1678	1422
Q Serve(g_s), s	9.6	28.4	1.1	0.5	9.4	5.1	1.2	0.0	1.2	11.7	0.1	11.5
Cycle Q Clear(g_c), s	9.6	28.4	1.1	0.5	9.4	5.1	1.2	0.0	1.2	11.7	0.1	11.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	224	674	571	36	477	404	74	0	179	265	403	341
V/C Ratio(X)	0.84	0.91	0.05	0.28	0.48	0.28	0.33	0.00	0.14	0.87	0.00	0.64
Avail Cap(c_a), veh/h	289	810	686	289	810	686	289	0	269	289	403	341
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.7	23.3	15.2	39.8	24.6	23.0	38.3	0.0	32.6	33.7	23.9	28.3
Incr Delay (d2), s/veh	16.2	13.0	0.1	4.2	1.1	0.5	2.5	0.0	0.5	22.7	0.0	4.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	12.2	0.4	0.2	3.6	1.7	0.5	0.0	0.5	6.1	0.0	4.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.0	36.4	15.2	44.0	25.7	23.6	40.8	0.0	33.1	56.4	24.0	33.0
LnGrp LOS	D	D	B	D	C	C	D	A	C	E	C	C
Approach Vol, veh/h		831			351			49			453	
Approach Delay, s/veh		38.9			25.5			36.9			44.9	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.4	39.8	19.2	15.5	18.1	30.0	9.3	25.4
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	15.0	40.0	15.0	15.0	15.0	40.0	15.0	15.0
Max Q Clear Time (g_c+I2), s	2.5	30.4	13.7	3.2	11.6	11.4	3.2	13.5
Green Ext Time (p_c), s	0.0	2.9	0.1	0.0	0.2	2.1	0.0	0.2

Intersection Summary	
HCM 6th Ctrl Delay	37.7
HCM 6th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	698	4	6	222	64	40	0	6	84	0	28
Future Volume (veh/h)	20	698	4	6	222	64	40	0	6	84	0	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	22	759	4	7	241	70	43	0	7	91	0	30
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	100	1887	842	14	1737	775	51	0	148	80	0	173
Arrive On Green	0.06	0.59	0.59	0.01	0.54	0.54	0.03	0.00	0.10	0.05	0.00	0.12
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	0	1422	1598	0	1422
Grp Volume(v), veh/h	22	759	4	7	241	70	43	0	7	91	0	30
Grp Sat Flow(s),veh/h/ln	1598	1594	1422	1598	1594	1422	1598	0	1422	1598	0	1422
Q Serve(g_s), s	1.0	10.2	0.1	0.3	3.0	1.9	2.1	0.0	0.4	4.0	0.0	1.5
Cycle Q Clear(g_c), s	1.0	10.2	0.1	0.3	3.0	1.9	2.1	0.0	0.4	4.0	0.0	1.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	100	1887	842	14	1737	775	51	0	148	80	0	173
V/C Ratio(X)	0.22	0.40	0.00	0.49	0.14	0.09	0.84	0.00	0.05	1.14	0.00	0.17
Avail Cap(c_a), veh/h	100	1887	842	100	1737	775	80	0	427	80	0	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	35.6	8.7	6.7	39.5	9.0	8.7	38.5	0.0	32.3	38.0	0.0	31.5
Incr Delay (d2), s/veh	1.1	0.6	0.0	23.3	0.2	0.2	35.3	0.0	0.1	143.2	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	2.9	0.0	0.2	0.9	0.6	1.3	0.0	0.1	4.7	0.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.7	9.4	6.7	62.7	9.1	8.9	73.8	0.0	32.4	181.2	0.0	32.0
LnGrp LOS	D	A	A	E	A	A	E	A	C	F	A	C
Approach Vol, veh/h		785			318			50			121	
Approach Delay, s/veh		10.1			10.3			68.0			144.2	
Approach LOS		B			B			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.2	53.9	8.0	12.9	9.0	50.1	6.5	14.4
Change Period (Y+Rc), s	4.5	6.5	4.0	4.6	4.0	6.5	4.0	* 4.6
Max Green Setting (Gmax), s	5.0	27.4	4.0	24.0	5.0	27.9	4.0	* 24
Max Q Clear Time (g_c+I1), s	2.3	12.2	6.0	2.4	3.0	5.0	4.1	3.5
Green Ext Time (p_c), s	0.0	4.3	0.0	0.0	0.0	1.6	0.0	0.1

Intersection Summary	
HCM 6th Ctrl Delay	25.2
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	783	5	0	292	0	10
Future Vol, veh/h	783	5	0	292	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	15	0	0	15	0	0
Mvmt Flow	851	5	0	317	0	11

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	428
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.9
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	581
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	581
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	581	-	-	-
HCM Lane V/C Ratio	0.019	-	-	-
HCM Control Delay (s)	11.3	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	789	4	0	280	12	0
Future Volume (veh/h)	789	4	0	280	12	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1678	418	418	1678	418	418
Adj Flow Rate, veh/h	858	4	0	304	4	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	15	100	100	15	100	100
Cap, veh/h	1677	186	2	1677	9999	9999
Arrive On Green	0.53	0.53	0.00	0.53	0.01	0.01
Sat Flow, veh/h	3272	354	398	4272	1206	1247	0	205	440
Grp Volume(v), veh/h	858	4	0	304	4	1
Grp Sat Flow(s),veh/h/ln	1594	354	398	1594	398	354
Q Serve(g_s), s	4.0	0.1	0.0	1.1	0.0	0.0
Cycle Q Clear(g_c), s	4.0	0.1	0.0	1.1	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1677	186	2	1677	1076	1483	64	800
V/C Ratio(X)	0.51	0.02	0.00	0.18	0.00	0.00
Avail Cap(c_a), veh/h	3982	443	70	3982	1165	1262	405	976
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.5	2.6	0.0	2.8	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	3.7	2.6	0.0	2.9	0.0	0.0
LnGrp LOS	A	A	A	A	A	A
Approach Vol, veh/h	862			304	5	
Approach Delay, s/veh	3.7			2.9	0.0	
Approach LOS	A			A	A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	18.5		4.3		18.5
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+I1), s	0.0	6.0		2.0		3.1
Green Ext Time (p_c), s	0.0	5.8		0.0		1.9

Intersection Summary	
HCM 6th Ctrl Delay	3.5
HCM 6th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1
Future Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	19	873	1	5	317	30	2	0	1	17	0	1
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	32	1006	1	9	884	84	3	0	2	28	0	2
Arrive On Green	0.02	0.54	0.54	0.01	0.53	0.53	0.00	0.00	0.00	0.02	0.00	0.02
Sat Flow, veh/h	1668	1868	2	1668	1682	159	1068	0	534	1565	0	92
Grp Volume(v), veh/h	19	0	874	5	0	347	3	0	0	18	0	0
Grp Sat Flow(s),veh/h/ln	1668	0	1870	1668	0	1842	1602	0	0	1657	0	0
Q Serve(g_s), s	0.5	0.0	16.8	0.1	0.0	4.6	0.1	0.0	0.0	0.4	0.0	0.0
Cycle Q Clear(g_c), s	0.5	0.0	16.8	0.1	0.0	4.6	0.1	0.0	0.0	0.4	0.0	0.0
Prop In Lane	1.00		0.00	1.00		0.09	0.67		0.33	0.94		0.06
Lane Grp Cap(c), veh/h	32	0	1007	9	0	967	5	0	0	30	0	0
V/C Ratio(X)	0.60	0.00	0.87	0.56	0.00	0.36	0.57	0.00	0.00	0.60	0.00	0.00
Avail Cap(c_a), veh/h	161	0	1354	161	0	1334	155	0	0	160	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	20.2	0.0	8.3	20.6	0.0	5.8	20.6	0.0	0.0	20.2	0.0	0.0
Incr Delay (d2), s/veh	16.9	0.0	4.8	44.1	0.0	0.2	71.9	0.0	0.0	17.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	5.4	0.2	0.0	1.2	0.1	0.0	0.0	0.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.1	0.0	13.1	64.7	0.0	6.0	92.6	0.0	0.0	38.0	0.0	0.0
LnGrp LOS	D	A	B	E	A	A	F	A	A	D	A	A
Approach Vol, veh/h		893			352			3			18	
Approach Delay, s/veh		13.6			6.8			92.6			38.0	
Approach LOS		B			A			F			D	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	4.2	28.3		4.1	4.8	27.8		4.7
Change Period (Y+Rc), s	4.0	6.0		4.0	4.0	6.0		4.0
Max Green Setting (Gmax), s	4.0	30.0		4.0	4.0	30.0		4.0
Max Q Clear Time (g_c+I2), s	2.1	18.8		2.1	2.5	6.6		2.4
Green Ext Time (p_c), s	0.0	3.6		0.0	0.0	1.4		0.0

Intersection Summary	
HCM 6th Ctrl Delay	12.2
HCM 6th LOS	B

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	202	533	232	172	199	60
Future Volume (veh/h)	202	533	232	172	199	60
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	222	586	255	189	219	66
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	696	619	306	831	262	79
Arrive On Green	0.39	0.39	0.17	0.44	0.19	0.19
Sat Flow, veh/h	1781	1585	1781	1870	1380	416
Grp Volume(v), veh/h	222	586	255	189	0	285
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1796
Q Serve(g_s), s	6.8	28.1	10.9	4.9	0.0	12.0
Cycle Q Clear(g_c), s	6.8	28.1	10.9	4.9	0.0	12.0
Prop In Lane	1.00	1.00	1.00			0.23
Lane Grp Cap(c), veh/h	696	619	306	831	0	341
V/C Ratio(X)	0.32	0.95	0.83	0.23	0.00	0.84
Avail Cap(c_a), veh/h	713	635	509	1319	0	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.7	23.2	31.5	13.5	0.0	30.7
Incr Delay (d2), s/veh	0.3	23.1	5.9	0.1	0.0	5.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	24.6	5.0	2.0	0.0	5.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	16.9	46.2	37.4	13.7	0.0	36.2
LnGrp LOS	B	D	D	B	A	D
Approach Vol, veh/h	808			444	285	
Approach Delay, s/veh	38.2			27.3	36.2	
Approach LOS	D			C	D	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		41.4		37.2	20.0	21.4
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s		55.5		31.5	22.5	26.5
Max Q Clear Time (g_c+I1), s		6.9		30.1	12.9	14.0
Green Ext Time (p_c), s		0.7		0.6	0.7	0.9

Intersection Summary		
HCM 6th Ctrl Delay		34.7
HCM 6th LOS		C

Intersection	
Int Delay, s/veh	4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	26	75	306	0	225	510
Future Vol, veh/h	26	75	306	0	225	510
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	83	340	0	250	567

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1407	340	0	0	340	0
Stage 1	340	-	-	-	-	-
Stage 2	1067	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	153	702	-	-	1219	-
Stage 1	721	-	-	-	-	-
Stage 2	331	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	107	702	-	-	1219	-
Mov Cap-2 Maneuver	107	-	-	-	-	-
Stage 1	721	-	-	-	-	-
Stage 2	232	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	25.2	0	2.7
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	289	1219	-
HCM Lane V/C Ratio	-	-	0.388	0.205	-
HCM Control Delay (s)	-	-	25.2	8.7	0
HCM Lane LOS	-	-	D	A	A
HCM 95th %tile Q(veh)	-	-	1.8	0.8	-

Intersection	
Int Delay, s/veh	14.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	48	0	233	0	20	24	492	25	0
Future Vol, veh/h	0	0	0	48	0	233	0	20	24	492	25	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	54	0	262	0	22	27	553	28	0

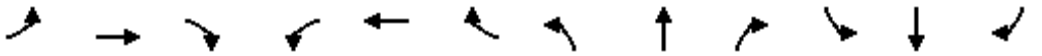
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1301	1183	28	1170	1170	36	-	0	0	49	0	0
Stage 1	1134	1134	-	36	36	-	-	-	-	-	-	-
Stage 2	167	49	-	1134	1134	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	138	189	1047	170	193	1037	0	-	-	1558	-	0
Stage 1	246	278	-	980	865	-	0	-	-	-	-	0
Stage 2	835	854	-	246	278	-	0	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	74	121	1047	122	123	1037	-	-	-	1558	-	-
Mov Cap-2 Maneuver	74	121	-	122	123	-	-	-	-	-	-	-
Stage 1	246	178	-	980	865	-	-	-	-	-	-	-
Stage 2	624	854	-	157	178	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0	29	0	8.2
HCM LOS	A	D		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	455	1558	-
HCM Lane V/C Ratio	-	-	-	0.694	0.355	-
HCM Control Delay (s)	-	-	0	29	8.6	0
HCM Lane LOS	-	-	A	D	A	A
HCM 95th %tile Q(veh)	-	-	-	5.2	1.6	-

Kimley»Horn

E. Background Plus Project Conditions (Mitigated) Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Future Volume (veh/h)	0	0	0	871	323	178	25	241	0	0	807	656
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	1678	0	1678	1678
Adj Flow Rate, veh/h				916	413	0	27	265	0	0	887	0
Peak Hour Factor				0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %				15	15	15	15	15	15	0	15	15
Cap, veh/h				1365	668		144	894		0	1828	
Arrive On Green				0.43	0.40	0.00	0.32	0.32	0.00	0.00	0.32	0.00
Sat Flow, veh/h				3196	1678	2844	102	2824	2502	0	6006	1422
Grp Volume(v), veh/h				916	413	0	154	138	0	0	887	0
Grp Sat Flow(s),veh/h/ln				1598	1678	1422	1475	1450	1251	0	1443	1422
Q Serve(g_s), s				8.7	7.4	0.0	0.0	2.7	0.0	0.0	4.7	0.0
Cycle Q Clear(g_c), s				8.7	7.4	0.0	2.6	2.7	0.0	0.0	4.7	0.0
Prop In Lane				1.00		1.00	0.18		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1365	668		579	459		0	1828	
V/C Ratio(X)				0.67	0.62		0.27	0.30		0.00	0.49	
Avail Cap(c_a), veh/h				2193	1103		1640	1696		0	3550	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				8.7	9.1	0.0	9.7	9.8	0.0	0.0	10.4	0.0
Incr Delay (d2), s/veh				0.4	0.6	0.0	0.1	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				2.1	2.0	0.0	0.7	0.7	0.0	0.0	1.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				9.1	9.7	0.0	9.8	9.9	0.0	0.0	10.5	0.0
LnGrp LOS				A	A		A	A		A	B	
Approach Vol, veh/h					1329	A		292	A		887	A
Approach Delay, s/veh					9.3			9.9			10.5	
Approach LOS					A			A			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	17.7		17.7		20.2			
Change Period (Y+Rc), s	5.7		5.7		5.1			
Max Green Setting (Gmax), s	44.3		23.3		24.9			
Max Q Clear Time (g_c+I1), s	4.7		6.7		10.7			
Green Ext Time (p_c), s	0.8		2.6		4.4			

Intersection Summary		
HCM 6th Ctrl Delay	9.8	
HCM 6th LOS	A	

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184
Future Volume (veh/h)	116	395	19	8	662	151	15	5	10	113	9	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	138	470	23	10	788	180	18	6	12	135	11	219
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	180	1320	589	36	1033	461	60	66	132	180	347	294
Arrive On Green	0.11	0.41	0.41	0.02	0.32	0.32	0.04	0.13	0.13	0.11	0.21	0.21
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	499	999	1598	1678	1422
Grp Volume(v), veh/h	138	470	23	10	788	180	18	0	18	135	11	219
Grp Sat Flow(s),veh/h/ln	1598	1594	1422	1598	1594	1422	1598	0	1498	1598	1678	1422
Q Serve(g_s), s	6.3	7.6	0.7	0.5	16.7	7.4	0.8	0.0	0.8	6.2	0.4	10.9
Cycle Q Clear(g_c), s	6.3	7.6	0.7	0.5	16.7	7.4	0.8	0.0	0.8	6.2	0.4	10.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.67	1.00		1.00
Lane Grp Cap(c), veh/h	180	1320	589	36	1033	461	60	0	198	180	347	294
V/C Ratio(X)	0.77	0.36	0.04	0.28	0.76	0.39	0.30	0.00	0.09	0.75	0.03	0.74
Avail Cap(c_a), veh/h	201	1439	642	191	1418	632	191	0	573	301	757	642
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.5	15.2	13.1	36.2	22.9	19.7	35.3	0.0	28.7	32.4	23.8	28.0
Incr Delay (d2), s/veh	14.5	0.2	0.0	4.1	2.1	0.8	2.8	0.0	0.3	6.2	0.1	5.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	2.4	0.2	0.2	5.8	2.4	0.4	0.0	0.3	2.6	0.2	4.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	47.0	15.4	13.2	40.3	25.0	20.5	38.1	0.0	29.0	38.6	23.9	33.2
LnGrp LOS	D	B	B	D	C	C	D	A	C	D	C	C
Approach Vol, veh/h		631			978			36			365	
Approach Delay, s/veh		22.2			24.3			33.5			34.9	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	37.7	14.0	15.5	15.0	30.9	8.3	21.1
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	9.6	34.0	14.2	28.8	9.5	33.5	9.0	34.0
Max Q Clear Time (g_c+I1), s	2.5	9.6	8.2	2.8	8.3	18.7	2.8	12.9
Green Ext Time (p_c), s	0.0	3.3	0.2	0.0	0.0	5.7	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	25.7
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2
Future Volume (veh/h)	8	229	2	0	912	13	1	0	2	34	0	2
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	11	309	3	0	1232	18	1	0	3	46	0	3
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	253	1392	14	148	1384	20	255	0	122	255	0	122
Arrive On Green	0.75	0.75	0.75	0.00	0.75	0.75	0.08	0.00	0.08	0.08	0.00	0.08
Sat Flow, veh/h	416	1849	18	1000	1839	27	1324	0	1485	1324	0	1485
Grp Volume(v), veh/h	11	0	312	0	0	1250	1	0	3	46	0	3
Grp Sat Flow(s),veh/h/ln	416	0	1867	1000	0	1866	1324	0	1485	1324	0	1485
Q Serve(g_s), s	1.0	0.0	2.4	0.0	0.0	24.4	0.0	0.0	0.1	1.6	0.0	0.1
Cycle Q Clear(g_c), s	25.4	0.0	2.4	0.0	0.0	24.4	0.1	0.0	0.1	1.7	0.0	0.1
Prop In Lane	1.00		0.01	1.00		0.01	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	253	0	1405	148	0	1404	255	0	122	255	0	122
V/C Ratio(X)	0.04	0.00	0.22	0.00	0.00	0.89	0.00	0.00	0.02	0.18	0.00	0.02
Avail Cap(c_a), veh/h	420	0	2154	549	0	2152	582	0	489	582	0	489
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.0	0.0	1.8	0.0	0.0	4.5	20.5	0.0	20.5	21.3	0.0	20.5
Incr Delay (d2), s/veh	0.1	0.0	0.1	0.0	0.0	3.3	0.0	0.0	0.1	0.3	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.2	0.0	0.0	3.0	0.0	0.0	0.0	0.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.1	0.0	1.9	0.0	0.0	7.8	20.5	0.0	20.6	21.6	0.0	20.6
LnGrp LOS	B	A	A	A	A	A	C	A	C	C	A	C
Approach Vol, veh/h		323			1250			4			49	
Approach Delay, s/veh		2.3			7.8			20.5			21.5	
Approach LOS		A			A			C			C	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	8.0	40.5	8.0	40.5
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	16.0	56.0	16.0	56.0
Max Q Clear Time (g_c+I1), s	2.1	27.4	3.7	26.4
Green Ext Time (p_c), s	0.0	1.4	0.1	10.2

Intersection Summary	
HCM 6th Ctrl Delay	7.2
HCM 6th LOS	A

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	70	207	506	393	308	286
Future Volume (veh/h)	70	207	506	393	308	286
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	79	233	569	442	346	321
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	206	710	593	1446	344	319
Arrive On Green	0.12	0.12	0.33	0.77	0.39	0.39
Sat Flow, veh/h	1781	1585	1781	1870	893	828
Grp Volume(v), veh/h	79	233	569	442	0	667
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1721
Q Serve(g_s), s	4.8	11.1	36.6	8.2	0.0	45.0
Cycle Q Clear(g_c), s	4.8	11.1	36.6	8.2	0.0	45.0
Prop In Lane	1.00	1.00	1.00			0.48
Lane Grp Cap(c), veh/h	206	710	593	1446	0	663
V/C Ratio(X)	0.38	0.33	0.96	0.31	0.00	1.01
Avail Cap(c_a), veh/h	244	744	602	1456	0	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.8	20.9	38.2	3.9	0.0	35.9
Incr Delay (d2), s/veh	1.2	0.3	26.8	0.1	0.0	36.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	11.8	20.1	2.6	0.0	25.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	49.0	21.1	65.0	4.1	0.0	72.5
LnGrp LOS	D	C	E	A	A	F
Approach Vol, veh/h	312			1011	667	
Approach Delay, s/veh	28.2			38.4	72.5	
Approach LOS	C			D	E	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		96.9		20.0	45.4	51.5
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s		91.0		16.0	39.5	45.0
Max Q Clear Time (g_c+I1), s		10.2		13.1	38.6	47.0
Green Ext Time (p_c), s		2.0		0.4	0.3	0.0

Intersection Summary			
HCM 6th Ctrl Delay		48.2	
HCM 6th LOS		D	

Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	53	296	561	1	125	390	
Future Volume (veh/h)	53	296	561	1	125	390	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	62	344	652	1	145	453	
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	69	385	732	620	185	1065	
Arrive On Green	0.28	0.28	0.39	0.39	0.10	0.57	
Sat Flow, veh/h	246	1363	1870	1585	1781	1870	
Grp Volume(v), veh/h	407	0	652	1	145	453	
Grp Sat Flow(s),veh/h/ln	1613	0	1870	1585	1781	1870	
Q Serve(g_s), s	13.1	0.0	17.6	0.0	4.3	7.4	
Cycle Q Clear(g_c), s	13.1	0.0	17.6	0.0	4.3	7.4	
Prop In Lane	0.15	0.85		1.00	1.00		
Lane Grp Cap(c), veh/h	456	0	732	620	185	1065	
V/C Ratio(X)	0.89	0.00	0.89	0.00	0.78	0.43	
Avail Cap(c_a), veh/h	479	0	867	735	231	1249	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	18.6	0.0	15.3	10.0	23.6	6.6	
Incr Delay (d2), s/veh	18.4	0.0	10.2	0.0	13.0	0.3	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	6.6	0.0	8.3	0.0	2.3	2.2	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	36.9	0.0	25.5	10.0	36.5	6.9	
LnGrp LOS	D	A	C	A	D	A	
Approach Vol, veh/h	407		653			598	
Approach Delay, s/veh	36.9		25.5			14.1	
Approach LOS	D		C			B	

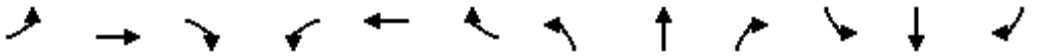
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.6	25.1				34.7	19.2
Change Period (Y+Rc), s	4.0	4.0				4.0	4.0
Max Green Setting (Gmax), s	7.6	25.0				36.0	16.0
Max Q Clear Time (g_c+I1), s	6.3	19.6				9.4	15.1
Green Ext Time (p_c), s	0.0	1.5				1.9	0.2

Intersection Summary	
HCM 6th Ctrl Delay	24.2
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	108	0	441	0	20	8	373	17	1
Future Volume (veh/h)	0	0	0	108	0	441	0	20	8	373	17	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	0	0	129	0	525	0	24	10	444	20	1
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	721	0	183	23	485	0	102	42	516	798	40
Arrive On Green	0.00	0.00	0.00	0.39	0.00	0.39	0.00	0.08	0.08	0.29	0.45	0.45
Sat Flow, veh/h	0	1870	0	248	60	1256	0	1254	522	1781	1766	88
Grp Volume(v), veh/h	0	0	0	654	0	0	0	0	34	444	0	21
Grp Sat Flow(s),veh/h/ln	0	1870	0	1565	0	0	0	0	1776	1781	0	1854
Q Serve(g_s), s	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.9	11.6	0.0	0.3
Cycle Q Clear(g_c), s	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.9	11.6	0.0	0.3
Prop In Lane	0.00		0.00	0.20		0.80	0.00		0.29	1.00		0.05
Lane Grp Cap(c), veh/h	0	721	0	691	0	0	0	0	144	516	0	838
V/C Ratio(X)	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.24	0.86	0.00	0.03
Avail Cap(c_a), veh/h	0	721	0	691	0	0	0	0	613	615	0	1431
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	21.2	16.6	0.0	7.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.8	10.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.4	5.5	0.0	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	0.0	0.0	37.8	0.0	0.0	0.0	0.0	22.0	27.0	0.0	7.5
LnGrp LOS	A	A	A	D	A	A	A	A	C	C	A	A
Approach Vol, veh/h		0			654			34			465	
Approach Delay, s/veh		0.0			37.8			22.0			26.2	
Approach LOS					D			C			C	

Timer - Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	8.3	8.0		23.0		26.3		23.0				
Change Period (Y+Rc), s	4.0	4.0		4.0		4.0		4.0				
Max Green Setting (Gmax), s	7.3	17.0		19.0		38.0		19.0				
Max Q Clear Time (g_c+I1), s	3.6	2.9		0.0		2.3		21.0				
Green Ext Time (p_c), s	0.7	0.0		0.0		0.0		0.0				

Intersection Summary	
HCM 6th Ctrl Delay	32.6
HCM 6th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Future Volume (veh/h)	0	0	0	428	4	301	37	457	0	0	532	34
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	1678	0	1678	1678
Adj Flow Rate, veh/h				468	0	0	40	497	0	0	578	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				15	15	15	15	15	15	0	15	15
Cap, veh/h				1400	0		174	1136		0	2259	
Arrive On Green				0.29	0.00	0.00	0.39	0.39	0.00	0.00	0.39	0.00
Sat Flow, veh/h				4793	0	2844	101	2902	2502	0	6006	1422
Grp Volume(v), veh/h				468	0	0	284	253	0	0	578	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1553	1450	1251	0	1443	1422
Q Serve(g_s), s				2.3	0.0	0.0	0.0	3.9	0.0	0.0	2.1	0.0
Cycle Q Clear(g_c), s				2.3	0.0	0.0	3.8	3.9	0.0	0.0	2.1	0.0
Prop In Lane				1.00		1.00	0.14		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1400	0		742	568		0	2259	
V/C Ratio(X)				0.33	0.00		0.38	0.45		0.00	0.26	
Avail Cap(c_a), veh/h				4066	0		2247	2096		0	4387	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				8.5	0.0	0.0	6.8	6.9	0.0	0.0	6.3	0.0
Incr Delay (d2), s/veh				0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.6	0.0	0.0	0.8	0.7	0.0	0.0	0.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				8.6	0.0	0.0	6.9	7.1	0.0	0.0	6.3	0.0
LnGrp LOS				A	A		A	A		A	A	
Approach Vol, veh/h					468	A		537	A		578	A
Approach Delay, s/veh					8.6			7.0			6.3	
Approach LOS					A			A			A	

Timer - Assigned Phs	2			6		8						
Phs Duration (G+Y+Rc), s	17.7			17.7		13.0						
Change Period (Y+Rc), s	5.7			5.7		5.1						
Max Green Setting (Gmax), s	44.3			23.3		24.9						
Max Q Clear Time (g_c+I1), s	5.9			4.1		4.3						
Green Ext Time (p_c), s	1.3			1.7		1.7						

Intersection Summary												
HCM 6th Ctrl Delay			7.2									
HCM 6th LOS			A									

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Future Volume (veh/h)	159	513	26	8	192	94	20	6	15	194	2	185
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	189	611	31	10	229	112	24	7	18	231	2	220
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	225	943	421	36	567	253	77	61	158	284	465	394
Arrive On Green	0.14	0.30	0.30	0.02	0.18	0.18	0.05	0.15	0.15	0.18	0.28	0.28
Sat Flow, veh/h	1598	3188	1422	1598	3188	1422	1598	416	1069	1598	1678	1422
Grp Volume(v), veh/h	189	611	31	10	229	112	24	0	25	231	2	220
Grp Sat Flow(s),veh/h/ln	1598	1594	1422	1598	1594	1422	1598	0	1485	1598	1678	1422
Q Serve(g_s), s	7.8	11.3	1.1	0.4	4.3	4.7	1.0	0.0	1.0	9.4	0.1	8.9
Cycle Q Clear(g_c), s	7.8	11.3	1.1	0.4	4.3	4.7	1.0	0.0	1.0	9.4	0.1	8.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	225	943	421	36	567	253	77	0	219	284	465	394
V/C Ratio(X)	0.84	0.65	0.07	0.27	0.40	0.44	0.31	0.00	0.11	0.81	0.00	0.56
Avail Cap(c_a), veh/h	225	1608	717	213	1584	707	213	0	361	631	846	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.2	20.7	17.1	32.4	24.5	24.7	31.0	0.0	24.9	26.6	17.6	20.9
Incr Delay (d2), s/veh	23.7	1.1	0.1	4.0	0.7	1.7	2.3	0.0	0.3	5.6	0.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	3.8	0.3	0.2	1.5	1.6	0.4	0.0	0.4	3.8	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.9	21.7	17.2	36.4	25.2	26.4	33.2	0.0	25.2	32.2	17.7	22.6
LnGrp LOS	D	C	B	D	C	C	C	A	C	C	B	C
Approach Vol, veh/h		831			351			49			453	
Approach Delay, s/veh		28.4			25.9			29.2			27.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	26.4	17.5	15.4	16.0	18.5	8.8	24.2
Change Period (Y+Rc), s	6.5	6.5	5.5	5.5	6.5	6.5	5.5	5.5
Max Green Setting (Gmax), s	9.6	34.0	26.6	16.4	9.5	33.5	9.0	34.0
Max Q Clear Time (g_c+I1), s	2.4	13.3	11.4	3.0	9.8	6.7	3.0	10.9
Green Ext Time (p_c), s	0.0	4.2	0.8	0.0	0.0	2.2	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	27.7
HCM 6th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1
Future Volume (veh/h)	16	725	1	4	263	25	2	0	1	14	0	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	19	873	1	5	317	30	2	0	1	17	0	1
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	726	1105	1	384	995	94	425	0	202	425	0	202
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.14	0.00	0.14	0.14	0.00	0.14
Sat Flow, veh/h	968	1868	2	594	1682	159	1326	0	1485	1326	0	1485
Grp Volume(v), veh/h	19	0	874	5	0	347	2	0	1	17	0	1
Grp Sat Flow(s),veh/h/ln	968	0	1870	594	0	1842	1326	0	1485	1326	0	1485
Q Serve(g_s), s	0.3	0.0	10.5	0.2	0.0	2.8	0.0	0.0	0.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	3.1	0.0	10.5	10.7	0.0	2.8	0.1	0.0	0.0	0.3	0.0	0.0
Prop In Lane	1.00		0.00	1.00		0.09	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	726	0	1106	384	0	1090	425	0	202	425	0	202
V/C Ratio(X)	0.03	0.00	0.79	0.01	0.00	0.32	0.00	0.00	0.00	0.04	0.00	0.00
Avail Cap(c_a), veh/h	1340	0	2291	760	0	2257	967	0	808	967	0	808
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	3.8	0.0	4.6	8.7	0.0	3.0	11.0	0.0	11.0	11.1	0.0	11.0
Incr Delay (d2), s/veh	0.0	0.0	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	3.8	0.0	5.9	8.7	0.0	3.2	11.0	0.0	11.0	11.2	0.0	11.0
LnGrp LOS	A	A	A	A	A	A	B	A	B	B	A	B
Approach Vol, veh/h		893			352			3			18	
Approach Delay, s/veh		5.9			3.3			11.0			11.1	
Approach LOS		A			A			B			B	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	8.0	21.4	8.0	21.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	16.0	36.0	16.0	36.0
Max Q Clear Time (g_c+I1), s	2.1	12.5	2.3	12.7
Green Ext Time (p_c), s	0.0	4.9	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	5.2
HCM 6th LOS	A

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	202	533	232	172	199	60
Future Volume (veh/h)	202	533	232	172	199	60
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	222	586	255	189	219	66
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	504	726	312	911	272	82
Arrive On Green	0.28	0.28	0.17	0.49	0.20	0.20
Sat Flow, veh/h	1781	1585	1781	1870	1380	416
Grp Volume(v), veh/h	222	586	255	189	0	285
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1870	0	1796
Q Serve(g_s), s	5.8	16.0	7.8	3.3	0.0	8.6
Cycle Q Clear(g_c), s	5.8	16.0	7.8	3.3	0.0	8.6
Prop In Lane	1.00	1.00	1.00			0.23
Lane Grp Cap(c), veh/h	504	726	312	911	0	354
V/C Ratio(X)	0.44	0.81	0.82	0.21	0.00	0.80
Avail Cap(c_a), veh/h	504	726	400	1191	0	533
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.6	13.2	22.5	8.3	0.0	21.7
Incr Delay (d2), s/veh	0.6	6.7	10.0	0.1	0.0	5.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	1.4	3.9	1.1	0.0	3.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.2	19.9	32.5	8.4	0.0	27.0
LnGrp LOS	B	B	C	A	A	C
Approach Vol, veh/h	808			444	285	
Approach Delay, s/veh	19.2			22.2	27.0	
Approach LOS	B			C	C	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		34.0		22.5	16.4	17.7
Change Period (Y+Rc), s		6.5		6.5	6.5	6.5
Max Green Setting (Gmax), s		36.0		16.0	12.7	16.8
Max Q Clear Time (g_c+I1), s		5.3		18.0	9.8	10.6
Green Ext Time (p_c), s		0.7		0.0	0.3	0.6

Intersection Summary		
HCM 6th Ctrl Delay		21.5
HCM 6th LOS		C

Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	26	75	306	0	225	510	
Future Volume (veh/h)	26	75	306	0	225	510	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	29	83	340	0	250	567	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	37	104	513	435	345	1152	
Arrive On Green	0.09	0.09	0.27	0.00	0.19	0.62	
Sat Flow, veh/h	419	1200	1870	1585	1781	1870	
Grp Volume(v), veh/h	113	0	340	0	250	567	
Grp Sat Flow(s),veh/h/ln	1633	0	1870	1585	1781	1870	
Q Serve(g_s), s	1.8	0.0	4.3	0.0	3.5	4.5	
Cycle Q Clear(g_c), s	1.8	0.0	4.3	0.0	3.5	4.5	
Prop In Lane	0.26	0.73		1.00	1.00		
Lane Grp Cap(c), veh/h	142	0	513	435	345	1152	
V/C Ratio(X)	0.79	0.00	0.66	0.00	0.73	0.49	
Avail Cap(c_a), veh/h	970	0	1249	1059	925	2498	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	12.1	0.0	8.7	0.0	10.2	2.9	
Incr Delay (d2), s/veh	9.6	0.0	1.5	0.0	2.9	0.3	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	0.9	0.0	1.3	0.0	1.2	0.1	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	21.6	0.0	10.2	0.0	13.1	3.2	
LnGrp LOS	C	A	B	A	B	A	
Approach Vol, veh/h	113		340			817	
Approach Delay, s/veh	21.6		10.2			6.2	
Approach LOS	C		B			A	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.2	11.4				20.6	6.3
Change Period (Y+Rc), s	4.0	4.0				4.0	4.0
Max Green Setting (Gmax), s	14.0	18.0				36.0	16.0
Max Q Clear Time (g_c+I1), s	5.5	6.3				6.5	3.8
Green Ext Time (p_c), s	0.6	1.0				2.6	0.3

Intersection Summary	
HCM 6th Ctrl Delay	8.6
HCM 6th LOS	A

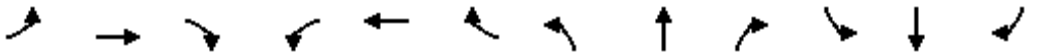
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	48	0	233	0	20	24	492	25	0
Future Volume (veh/h)	0	0	0	48	0	233	0	20	24	492	25	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	0	0	54	0	262	0	22	27	553	28	0
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	0	470	0	145	23	329	0	73	89	655	1044	0
Arrive On Green	0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.10	0.10	0.37	0.56	0.00
Sat Flow, veh/h	0	1870	0	176	93	1309	0	764	938	1781	1870	0
Grp Volume(v), veh/h	0	0	0	316	0	0	0	0	49	553	28	0
Grp Sat Flow(s),veh/h/ln	0	1870	0	1578	0	0	0	0	1702	1781	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	1.1	12.0	0.3	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	1.1	12.0	0.3	0.0
Prop In Lane	0.00		0.00	0.17		0.83	0.00		0.55	1.00		0.00
Lane Grp Cap(c), veh/h	0	470	0	497	0	0	0	0	162	655	1044	0
V/C Ratio(X)	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.30	0.84	0.03	0.00
Avail Cap(c_a), veh/h	0	712	0	698	0	0	0	0	648	890	1825	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	14.7	0.0	0.0	0.0	0.0	17.7	12.2	4.2	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.0	5.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.4	4.6	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	18.7	17.7	4.2	0.0
LnGrp LOS	A	A	A	B	A	A	A	A	B	B	A	A
Approach Vol, veh/h		0			316			49			581	
Approach Delay, s/veh		0.0			16.0			18.7			17.1	
Approach LOS					B			B			B	

Timer - Assigned Phs	1	2		4		6		8				
Phs Duration (G+Y+Rc), s	9.5	8.0		14.6		27.5		14.6				
Change Period (Y+Rc), s	4.0	4.0		4.0		4.0		4.0				
Max Green Setting (Gmax), s	21.0	16.0		16.0		41.0		16.0				
Max Q Clear Time (g_c+I1), s	14.0	3.1		0.0		2.3		9.8				
Green Ext Time (p_c), s	1.5	0.1		0.0		0.1		1.0				

Intersection Summary		
HCM 6th Ctrl Delay		16.8
HCM 6th LOS		B

Kimley»Horn

F. Cumulative Conditions Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1393	381	919	0	468	0	0	1066	700
Future Volume (veh/h)	0	0	0	1393	381	919	0	468	0	0	1066	700
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	0	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1288	528	0	0	468	0	0	1066	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	0	15	0	0	15	15
Cap, veh/h				1570	785		0	961	0	0	1741	
Arrive On Green				0.49	0.47	0.00	0.00	0.30	0.00	0.00	0.30	0.00
Sat Flow, veh/h				3196	1678	2844	0	3355	0	0	6006	1422
Grp Volume(v), veh/h				1288	528	0	0	468	0	0	1066	0
Grp Sat Flow(s),veh/h/ln				1598	1678	1422	0	1594	0	0	1443	1422
Q Serve(g_s), s				16.1	11.5	0.0	0.0	5.6	0.0	0.0	7.4	0.0
Cycle Q Clear(g_c), s				16.1	11.5	0.0	0.0	5.6	0.0	0.0	7.4	0.0
Prop In Lane				1.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1570	785		0	961	0	0	1741	
V/C Ratio(X)				0.82	0.67		0.00	0.49	0.00	0.00	0.61	
Avail Cap(c_a), veh/h				1773	891		0	3013	0	0	2869	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				10.2	9.7	0.0	0.0	13.4	0.0	0.0	14.0	0.0
Incr Delay (d2), s/veh				2.7	1.4	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.6	3.4	0.0	0.0	1.7	0.0	0.0	2.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				12.8	11.0	0.0	0.0	13.5	0.0	0.0	14.2	0.0
LnGrp LOS				B	B		A	B	A	A	B	
Approach Vol, veh/h					1816	A		468			1066	A
Approach Delay, s/veh					12.3			13.5			14.2	
Approach LOS					B			B			B	

Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		19.8				19.8		27.0				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+I1), s		7.6				9.4		18.1				
Green Ext Time (p_c), s		2.3				4.7		3.8				

Intersection Summary		
HCM 6th Ctrl Delay	13.1	
HCM 6th LOS	B	

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	126	0	204	0	0	0	0	392	981	0	1557	0
Future Volume (veh/h)	126	0	204	0	0	0	0	392	981	0	1557	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	84	0	249				0	392	981	0	1557	0
Peak Hour Factor	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	187	0	334				0	3316	1812	0	3316	0
Arrive On Green	0.12	0.00	0.12				0.00	0.72	0.72	0.00	0.72	0.00
Sat Flow, veh/h	1598	0	2844				0	4731	2502	0	4882	0
Grp Volume(v), veh/h	84	0	249				0	392	981	0	1557	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1527	1251	0	1527	0
Q Serve(g_s), s	3.3	0.0	5.8				0.0	1.8	12.1	0.0	9.7	0.0
Cycle Q Clear(g_c), s	3.3	0.0	5.8				0.0	1.8	12.1	0.0	9.7	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	187	0	334				0	3316	1812	0	3316	0
V/C Ratio(X)	0.45	0.00	0.75				0.00	0.12	0.54	0.00	0.47	0.00
Avail Cap(c_a), veh/h	467	0	831				0	3316	1812	0	3316	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	28.0	0.0	29.1				0.0	2.8	4.3	0.0	3.9	0.0
Incr Delay (d2), s/veh	0.6	0.0	1.3				0.0	0.1	1.2	0.0	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.0	1.9				0.0	0.4	2.2	0.0	2.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.6	0.0	30.3				0.0	2.9	5.4	0.0	4.4	0.0
LnGrp LOS	C	A	C				A	A	A	A	A	A
Approach Vol, veh/h		333						1373			1557	
Approach Delay, s/veh		29.9						4.7			4.4	
Approach LOS		C						A			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	13.1	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	14.1	7.8	11.7
Green Ext Time (p_c), s	5.0	0.1	10.8

Intersection Summary	
HCM 6th Ctrl Delay	7.1
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	25	257	874	85	299	77	322	360	219	1092	31
Future Volume (veh/h)	33	25	257	874	85	299	77	322	360	219	1092	31
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678
Adj Flow Rate, veh/h	33	25	257	874	85	299	77	322	360	219	1092	31
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	2	2	15	15	2	2	2	15	2	15
Cap, veh/h	107	200	189	945	546	462	113	1177	924	208	1191	476
Arrive On Green	0.07	0.12	0.12	0.27	0.33	0.33	0.06	0.33	0.33	0.07	0.34	0.34
Sat Flow, veh/h	1598	1678	1585	3456	1678	1419	1781	3554	2790	3100	3554	1422
Grp Volume(v), veh/h	33	25	257	874	85	299	77	322	360	219	1092	31
Grp Sat Flow(s),veh/h/ln	1598	1678	1585	1728	1678	1419	1781	1777	1395	1550	1777	1422
Q Serve(g_s), s	2.6	1.8	16.0	33.0	4.8	24.1	5.7	8.9	13.3	9.0	39.5	2.0
Cycle Q Clear(g_c), s	2.6	1.8	16.0	33.0	4.8	24.1	5.7	8.9	13.3	9.0	39.5	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	107	200	189	945	546	462	113	1177	924	208	1191	476
V/C Ratio(X)	0.31	0.12	1.36	0.93	0.16	0.65	0.68	0.27	0.39	1.05	0.92	0.07
Avail Cap(c_a), veh/h	107	200	189	1031	588	498	120	1246	978	208	1246	499
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.5	52.8	59.0	47.4	32.1	38.6	61.5	33.0	34.4	62.5	42.8	30.3
Incr Delay (d2), s/veh	1.6	0.3	191.6	13.0	0.1	2.6	13.8	0.1	0.3	76.8	10.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.8	16.3	15.4	1.9	8.5	3.0	3.9	4.4	5.8	19.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.1	53.0	250.6	60.3	32.2	41.2	75.3	33.1	34.7	139.3	53.3	30.3
LnGrp LOS	E	D	F	E	C	D	E	C	C	F	D	C
Approach Vol, veh/h		315			1258			759			1342	
Approach Delay, s/veh		215.0			53.9			38.1			66.8	
Approach LOS		F			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	51.4	43.6	23.0	15.5	51.9	16.0	50.6
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	9.0	47.0	40.0	16.0	9.0	47.0	9.0	47.0
Max Q Clear Time (g_c+I1), s	11.0	15.3	35.0	18.0	7.7	41.5	4.6	26.1
Green Ext Time (p_c), s	0.0	3.9	1.7	0.0	0.0	3.4	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	69.2
HCM 6th LOS	E

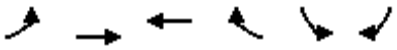
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	213	48	33	19	438	346	163	176	80	127	68	269
Future Volume (veh/h)	213	48	33	19	438	346	163	176	80	127	68	269
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	213	48	33	19	438	346	163	176	80	127	68	269
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	226	206	175	466	495	420	194	515	224	156	341	304
Arrive On Green	0.14	0.12	0.12	0.29	0.30	0.30	0.12	0.24	0.24	0.10	0.21	0.21
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2160	942	1598	1594	1422
Grp Volume(v), veh/h	213	48	33	19	438	346	163	128	128	127	68	269
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	1594	1508	1598	1594	1422
Q Serve(g_s), s	10.7	2.1	1.3	0.7	20.2	18.4	8.1	5.4	5.7	6.3	2.8	14.9
Cycle Q Clear(g_c), s	10.7	2.1	1.3	0.7	20.2	18.4	8.1	5.4	5.7	6.3	2.8	14.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.62	1.00		1.00
Lane Grp Cap(c), veh/h	226	206	175	466	495	420	194	380	359	156	341	304
V/C Ratio(X)	0.94	0.23	0.19	0.04	0.88	0.82	0.84	0.34	0.36	0.82	0.20	0.88
Avail Cap(c_a), veh/h	226	531	450	466	531	450	206	380	359	206	369	329
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.6	32.2	18.1	20.6	27.3	26.7	34.9	25.6	25.8	36.0	26.2	31.0
Incr Delay (d2), s/veh	43.9	0.8	0.7	0.0	16.1	11.9	24.4	0.7	0.9	16.9	0.4	23.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	0.8	0.6	0.2	9.5	7.3	4.4	2.1	2.1	3.1	1.1	6.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.5	33.0	18.8	20.7	43.4	38.6	59.3	26.4	26.6	52.9	26.6	54.2
LnGrp LOS	E	C	B	C	D	D	E	C	C	D	C	D
Approach Vol, veh/h		294			803			419			464	
Approach Delay, s/veh		64.3			40.8			39.3			49.8	
Approach LOS		E			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.5	15.8	11.9	24.1	15.5	29.8	13.9	22.1
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	24.5	* 26	10.5	* 19	11.5	25.7	10.5	* 19
Max Q Clear Time (g_c+I2), s	12.7	4.1	8.3	7.7	12.7	22.2	10.1	16.9
Green Ext Time (p_c), s	0.0	0.4	0.1	1.4	0.0	1.8	0.0	0.5

Intersection Summary	
HCM 6th Ctrl Delay	46.1
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	21	234	775	66	15	28
Future Volume (veh/h)	21	234	775	66	15	28
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	21	234	775	66	15	28
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	39	972	844	715	511	455
Arrive On Green	0.02	0.56	0.48	0.48	0.31	0.31
Sat Flow, veh/h	1668	1752	1752	1485	1668	1485
Grp Volume(v), veh/h	21	234	775	66	15	28
Grp Sat Flow(s),veh/h/ln	1668	1752	1752	1485	1668	1485
Q Serve(g_s), s	1.0	5.5	32.9	1.9	0.5	1.1
Cycle Q Clear(g_c), s	1.0	5.5	32.9	1.9	0.5	1.1
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	39	972	844	715	511	455
V/C Ratio(X)	0.54	0.24	0.92	0.09	0.03	0.06
Avail Cap(c_a), veh/h	175	972	844	715	511	455
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.35	0.35	1.00	1.00
Uniform Delay (d), s/veh	38.6	9.1	19.3	11.2	19.4	19.6
Incr Delay (d2), s/veh	9.8	0.5	7.1	0.1	0.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.0	13.6	0.6	0.2	0.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	48.4	9.7	26.3	11.3	19.5	19.9
LnGrp LOS	D	A	C	B	B	B
Approach Vol, veh/h		255	841		43	
Approach Delay, s/veh		12.8	25.1		19.8	
Approach LOS		B	C		B	

Timer - Assigned Phs	2			5	6	8
Phs Duration (G+Y+Rc), s	50.9			5.9	45.0	29.1
Change Period (Y+Rc), s	6.5			4.0	6.5	4.6
Max Green Setting (Gmax), s	44.4			8.4	32.0	24.5
Max Q Clear Time (g_c+I1), s	7.5			3.0	34.9	3.1
Green Ext Time (p_c), s	1.5			0.0	0.0	0.1

Intersection Summary		
HCM 6th Ctrl Delay		22.2
HCM 6th LOS		C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	155	93	80	929	22	38	32	10	87	1	49
Future Volume (veh/h)	77	155	93	80	929	22	38	32	10	87	1	49
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	77	155	93	80	929	22	38	32	10	87	1	49
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	97	597	358	100	985	23	58	385	172	109	487	217
Arrive On Green	0.06	0.54	0.54	0.06	0.54	0.54	0.03	0.12	0.12	0.07	0.15	0.15
Sat Flow, veh/h	1668	1095	657	1668	1820	43	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	77	0	248	80	0	951	38	32	10	87	1	49
Grp Sat Flow(s),veh/h/ln	1668	0	1752	1668	0	1863	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	3.9	0.0	6.5	4.1	0.0	41.4	1.9	0.7	0.5	4.4	0.0	2.5
Cycle Q Clear(g_c), s	3.9	0.0	6.5	4.1	0.0	41.4	1.9	0.7	0.5	4.4	0.0	2.5
Prop In Lane	1.00		0.38	1.00		0.02	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	97	0	954	100	0	1008	58	385	172	109	487	217
V/C Ratio(X)	0.80	0.00	0.26	0.80	0.00	0.94	0.66	0.08	0.06	0.80	0.00	0.23
Avail Cap(c_a), veh/h	112	0	1016	106	0	1062	108	755	337	122	782	349
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.2	0.0	10.4	40.1	0.0	18.6	41.2	34.1	34.0	39.8	31.5	32.6
Incr Delay (d2), s/veh	28.5	0.0	0.1	32.0	0.0	15.5	12.0	0.1	0.1	27.7	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	2.4	2.5	0.0	20.1	1.0	0.3	0.2	2.6	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.7	0.0	10.6	72.1	0.0	34.0	53.2	34.2	34.2	67.5	31.5	33.1
LnGrp LOS	E	A	B	E	A	C	D	C	C	E	C	C
Approach Vol, veh/h		325			1031			80			137	
Approach Delay, s/veh		24.3			37.0			43.2			55.0	
Approach LOS		C			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.6	15.8	9.2	51.8	7.0	18.5	9.5	51.5
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	6.3	19.6	5.5	* 50	5.6	20.3	5.8	* 49
Max Q Clear Time (g_c+I1), s	5.4	2.7	6.1	8.5	3.9	4.5	5.9	43.4
Green Ext Time (p_c), s	0.0	0.1	0.0	1.7	0.0	0.1	0.0	3.4

Intersection Summary	
HCM 6th Ctrl Delay	36.3
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	82	174	463	1569	1154	343
Future Volume (veh/h)	82	174	463	1569	1154	343
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	82	174	463	1569	1154	343
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	268	238	529	3415	1547	480
Arrive On Green	0.15	0.15	0.30	0.67	0.30	0.30
Sat Flow, veh/h	1781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	82	174	463	1569	1154	343
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1702	1702	1585
Q Serve(g_s), s	2.4	6.1	14.3	8.5	11.8	11.2
Cycle Q Clear(g_c), s	2.4	6.1	14.3	8.5	11.8	11.2
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	268	238	529	3415	1547	480
V/C Ratio(X)	0.31	0.73	0.88	0.46	0.75	0.71
Avail Cap(c_a), veh/h	952	847	706	4269	1892	587
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.0	23.5	19.4	4.6	18.2	18.0
Incr Delay (d2), s/veh	0.6	4.3	9.4	0.1	1.3	3.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.3	6.7	1.9	4.3	4.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	22.6	27.8	28.8	4.7	19.5	21.2
LnGrp LOS	C	C	C	A	B	C
Approach Vol, veh/h	256			2032	1497	
Approach Delay, s/veh	26.1			10.2	19.9	
Approach LOS	C			B	B	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		44.6		13.4	21.2	23.4
Change Period (Y+Rc), s		5.8		* 4.7	4.0	5.8
Max Green Setting (Gmax), s		48.5		* 31	23.0	21.5
Max Q Clear Time (g_c+I1), s		10.5		8.1	16.3	13.8
Green Ext Time (p_c), s		16.5		0.8	0.9	3.8

Intersection Summary	
HCM 6th Ctrl Delay	15.1
HCM 6th LOS	B

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	74	313	1990	28	116	1218	
Future Volume (veh/h)	74	313	1990	28	116	1218	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	74	313	1990	28	116	1218	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	414	368	2480	770	147	3184	
Arrive On Green	0.23	0.23	0.49	0.49	0.08	0.62	
Sat Flow, veh/h	1781	1585	5274	1585	1781	5274	
Grp Volume(v), veh/h	74	313	1990	28	116	1218	
Grp Sat Flow(s),veh/h/ln	1781	1585	1702	1585	1781	1702	
Q Serve(g_s), s	2.4	13.7	23.9	0.7	4.6	8.6	
Cycle Q Clear(g_c), s	2.4	13.7	23.9	0.7	4.6	8.6	
Prop In Lane	1.00	1.00		1.00	1.00		
Lane Grp Cap(c), veh/h	414	368	2480	770	147	3184	
V/C Ratio(X)	0.18	0.85	0.80	0.04	0.79	0.38	
Avail Cap(c_a), veh/h	759	675	2631	817	171	3403	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	22.4	26.7	15.8	9.8	32.7	6.8	
Incr Delay (d2), s/veh	0.2	5.5	1.8	0.0	18.7	0.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	1.0	5.5	8.6	0.2	2.7	2.5	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	22.6	32.3	17.5	9.8	51.4	6.9	
LnGrp LOS	C	C	B	A	D	A	
Approach Vol, veh/h	387		2018			1334	
Approach Delay, s/veh	30.4		17.4			10.7	
Approach LOS	C		B			B	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	10.0	41.2				51.2	21.6
Change Period (Y+Rc), s	4.0	5.8				5.8	4.7
Max Green Setting (Gmax), s	7.0	37.5				48.5	31.0
Max Q Clear Time (g_c+I1), s	5.6	25.9				10.6	15.7
Green Ext Time (p_c), s	0.0	9.5				11.5	1.2

Intersection Summary	
HCM 6th Ctrl Delay	16.4
HCM 6th LOS	B

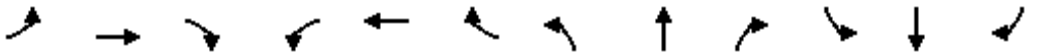
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	3	17	204	1	410	127	1697	20	250	1019	48
Future Volume (veh/h)	7	3	17	204	1	410	127	1697	20	250	1019	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	3	17	204	1	410	127	1697	20	250	1019	48
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	16	139	118	240	374	317	160	2119	658	286	2578	800
Arrive On Green	0.01	0.07	0.07	0.13	0.20	0.20	0.09	0.41	0.41	0.16	0.50	0.50
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h	7	3	17	204	1	410	127	1697	20	250	1019	48
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s	0.4	0.1	0.9	10.5	0.0	12.4	6.6	27.4	0.4	12.9	11.6	1.5
Cycle Q Clear(g_c), s	0.4	0.1	0.9	10.5	0.0	12.4	6.6	27.4	0.4	12.9	11.6	1.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	16	139	118	240	374	317	160	2119	658	286	2578	800
V/C Ratio(X)	0.44	0.02	0.14	0.85	0.00	1.29	0.79	0.80	0.03	0.87	0.40	0.06
Avail Cap(c_a), veh/h	104	695	589	284	883	749	331	2336	725	348	2578	800
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	40.4	40.8	39.8	30.2	16.4	42.0	24.1	5.7	38.6	14.4	11.9
Incr Delay (d2), s/veh	18.2	0.1	0.6	18.7	0.0	138.9	8.6	1.9	0.0	18.4	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.1	0.4	5.8	0.0	16.6	3.2	10.9	0.3	7.0	4.3	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.6	40.5	41.4	58.6	30.2	155.3	50.6	26.1	5.7	57.0	14.5	11.9
LnGrp LOS	E	D	D	E	C	F	D	C	A	E	B	B
Approach Vol, veh/h		27			615			1844			1317	
Approach Delay, s/veh		47.3			123.0			27.5			22.5	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.9	44.9	16.7	11.7	12.5	53.4	4.8	23.5
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	15.1	* 43	15.0	* 35	17.5	44.0	5.5	* 45
Max Q Clear Time (g_c+I1), s	14.9	29.4	12.5	2.9	8.6	13.6	2.4	14.4
Green Ext Time (p_c), s	0.2	9.7	0.1	0.0	0.2	8.8	0.0	1.5

Intersection Summary	
HCM 6th Ctrl Delay	41.4
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1021	9	1367	0	697	0	0	1456	88
Future Volume (veh/h)	0	0	0	1021	9	1367	0	697	0	0	1456	88
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	0	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1027	0	0	0	697	0	0	1456	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	0	15	0	0	15	15
Cap, veh/h				1596	0		0	1330	0	0	2408	
Arrive On Green				0.33	0.00	0.00	0.00	0.42	0.00	0.00	0.42	0.00
Sat Flow, veh/h				4793	0	2844	0	3355	0	0	6006	1422
Grp Volume(v), veh/h				1027	0	0	0	697	0	0	1456	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	0	1594	0	0	1443	1422
Q Serve(g_s), s				7.1	0.0	0.0	0.0	6.3	0.0	0.0	7.6	0.0
Cycle Q Clear(g_c), s				7.1	0.0	0.0	0.0	6.3	0.0	0.0	7.6	0.0
Prop In Lane				1.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1596	0		0	1330	0	0	2408	
V/C Ratio(X)				0.64	0.00		0.00	0.52	0.00	0.00	0.60	
Avail Cap(c_a), veh/h				3210	0		0	3637	0	0	3463	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				11.0	0.0	0.0	0.0	8.4	0.0	0.0	8.8	0.0
Incr Delay (d2), s/veh				0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.9	0.0	0.0	0.0	1.5	0.0	0.0	1.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				11.3	0.0	0.0	0.0	8.6	0.0	0.0	8.9	0.0
LnGrp LOS				B	A		A	A	A	A	A	
Approach Vol, veh/h					1027	A		697			1456	A
Approach Delay, s/veh					11.3			8.6			8.9	
Approach LOS					B			A			A	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	21.9		21.9		16.9			
Change Period (Y+Rc), s	5.7		5.7		5.1			
Max Green Setting (Gmax), s	44.3		23.3		24.9			
Max Q Clear Time (g_c+I1), s	8.3		9.6		9.1			
Green Ext Time (p_c), s	3.6		6.6		2.8			

Intersection Summary	
HCM 6th Ctrl Delay	9.6
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	182	0	86	0	0	0	0	538	1946	0	1485	0
Future Volume (veh/h)	182	0	86	0	0	0	0	538	1946	0	1485	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	209	0	57				0	538	1946	0	1485	0
Peak Hour Factor	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	425	0	189				0	3433	1875	0	3433	0
Arrive On Green	0.13	0.00	0.13				0.00	0.75	0.75	0.00	0.75	0.00
Sat Flow, veh/h	3196	0	1422				0	4731	2502	0	4882	0
Grp Volume(v), veh/h	209	0	57				0	538	1946	0	1485	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1527	1251	0	1527	0
Q Serve(g_s), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0
Cycle Q Clear(g_c), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	425	0	189				0	3433	1875	0	3433	0
V/C Ratio(X)	0.49	0.00	0.30				0.00	0.16	1.04	0.00	0.43	0.00
Avail Cap(c_a), veh/h	986	0	439				0	3433	1875	0	3433	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.4	0.0	26.6				0.0	2.4	8.5	0.0	3.2	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.3				0.0	0.1	31.3	0.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.8				0.0	0.4	15.1	0.0	1.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.7	0.0	27.0				0.0	2.5	39.8	0.0	3.6	0.0
LnGrp LOS	C	A	C				A	A	F	A	A	A
Approach Vol, veh/h		266						2484			1485	
Approach Delay, s/veh		27.5						31.7			3.6	
Approach LOS		C						C			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	13.0	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	53.0	6.1	10.2
Green Ext Time (p_c), s	0.0	0.1	10.1

Intersection Summary	
HCM 6th Ctrl Delay	21.6
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

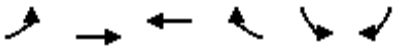
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	338	550	372	169	200	286	49	366	61	506	728	353
Future Volume (veh/h)	338	550	372	169	200	286	49	366	61	506	728	353
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	338	550	372	169	200	286	49	366	61	506	728	353
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	327	574	457	167	406	315	80	441	73	487	865	419
Arrive On Green	0.20	0.34	0.32	0.10	0.24	0.22	0.05	0.16	0.15	0.30	0.42	0.40
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2738	452	1598	2082	1008
Grp Volume(v), veh/h	338	550	372	169	200	286	49	212	215	506	557	524
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	1594	1596	1598	1594	1496
Q Serve(g_s), s	24.5	38.4	28.8	12.5	12.3	23.5	3.6	15.4	15.7	36.5	37.6	37.8
Cycle Q Clear(g_c), s	24.5	38.4	28.8	12.5	12.3	23.5	3.6	15.4	15.7	36.5	37.6	37.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.28	1.00		0.67
Lane Grp Cap(c), veh/h	327	574	457	167	406	315	80	257	257	487	662	622
V/C Ratio(X)	1.03	0.96	0.81	1.01	0.49	0.91	0.61	0.82	0.84	1.04	0.84	0.84
Avail Cap(c_a), veh/h	327	574	457	167	406	315	87	259	260	487	662	622
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.6	38.6	37.4	53.6	39.1	45.5	55.8	48.6	48.9	41.6	31.4	32.0
Incr Delay (d2), s/veh	58.9	27.4	11.3	73.3	1.3	29.2	10.6	19.7	21.3	51.4	9.9	10.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.8	19.4	11.4	8.3	5.1	10.8	1.7	7.5	7.8	21.1	16.0	15.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	106.6	66.0	48.6	127.0	40.4	74.7	66.4	68.3	70.3	93.0	41.3	42.5
LnGrp LOS	F	E	D	F	D	E	E	E	E	F	D	D
Approach Vol, veh/h		1260			655			476			1587	
Approach Delay, s/veh		71.8			77.7			69.0			58.2	
Approach LOS		E			E			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	44.3	39.0	22.5	26.0	32.3	8.5	53.0
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	10.0	38.5	35.0	* 18	22.0	26.5	5.0	* 48
Max Q Clear Time (g_c+I1), s	14.5	40.4	38.5	17.7	26.5	25.5	5.6	39.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.1	0.0	0.3	0.0	5.4

Intersection Summary	
HCM 6th Ctrl Delay	67.0
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	50	1050	497	57	67	100
Future Volume (veh/h)	50	1050	497	57	67	100
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	54	1141	540	62	73	109
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	10	10	10	10
Cap, veh/h	83	1012	848	718	526	468
Arrive On Green	0.05	0.58	0.48	0.48	0.31	0.31
Sat Flow, veh/h	1668	1752	1752	1485	1668	1485
Grp Volume(v), veh/h	54	1141	540	62	73	109
Grp Sat Flow(s),veh/h/ln	1668	1752	1752	1485	1668	1485
Q Serve(g_s), s	2.5	46.2	18.4	1.8	2.5	4.3
Cycle Q Clear(g_c), s	2.5	46.2	18.4	1.8	2.5	4.3
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	83	1012	848	718	526	468
V/C Ratio(X)	0.65	1.13	0.64	0.09	0.14	0.23
Avail Cap(c_a), veh/h	177	1012	848	718	526	468
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.09	0.09	0.80	0.80	1.00	1.00
Uniform Delay (d), s/veh	37.3	16.9	15.4	11.1	19.6	20.3
Incr Delay (d2), s/veh	0.8	58.9	2.9	0.2	0.6	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	32.1	7.4	0.6	1.0	1.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	38.1	75.8	18.3	11.3	20.2	21.4
LnGrp LOS	D	F	B	B	C	C
Approach Vol, veh/h		1195	602		182	
Approach Delay, s/veh		74.1	17.6		20.9	
Approach LOS		E	B		C	

Timer - Assigned Phs	2			5	6	8
Phs Duration (G+Y+Rc), s	50.9			7.5	43.4	29.1
Change Period (Y+Rc), s	6.5			4.0	6.5	4.6
Max Green Setting (Gmax), s	44.4			8.0	32.0	24.5
Max Q Clear Time (g_c+I1), s	48.2			4.5	20.4	6.3
Green Ext Time (p_c), s	0.0			0.0	2.9	0.5

Intersection Summary		
HCM 6th Ctrl Delay		52.0
HCM 6th LOS		D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	267	376	344	138	164	107	93	61	86	378	345	408
Future Volume (veh/h)	267	376	344	138	164	107	93	61	86	378	345	408
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	267	376	344	138	164	107	93	61	86	378	345	408
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	299	378	346	155	353	230	113	434	194	398	1002	447
Arrive On Green	0.18	0.42	0.42	0.09	0.33	0.33	0.07	0.13	0.13	0.24	0.30	0.30
Sat Flow, veh/h	1668	899	823	1668	1057	689	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	267	0	720	138	0	271	93	61	86	378	345	408
Grp Sat Flow(s),veh/h/ln	1668	0	1722	1668	0	1746	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	21.2	0.0	56.5	11.1	0.0	16.6	7.5	2.2	7.3	30.3	11.0	35.9
Cycle Q Clear(g_c), s	21.2	0.0	56.5	11.1	0.0	16.6	7.5	2.2	7.3	30.3	11.0	35.9
Prop In Lane	1.00		0.48	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	299	0	724	155	0	583	113	434	194	398	1002	447
V/C Ratio(X)	0.89	0.00	0.99	0.89	0.00	0.46	0.82	0.14	0.44	0.95	0.34	0.91
Avail Cap(c_a), veh/h	428	0	724	155	0	583	146	525	234	406	1043	465
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.4	0.0	39.3	60.8	0.0	35.7	62.4	52.3	54.4	50.8	37.0	45.7
Incr Delay (d2), s/veh	15.6	0.0	32.1	42.2	0.0	0.6	23.9	0.1	1.6	31.7	0.2	21.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.2	0.0	30.0	6.5	0.0	7.2	3.9	0.9	2.8	16.1	4.5	15.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	70.0	0.0	71.5	103.0	0.0	36.3	86.3	52.4	56.0	82.5	37.2	67.6
LnGrp LOS	E	A	E	F	A	D	F	D	E	F	D	E
Approach Vol, veh/h		987			409			240			1131	
Approach Delay, s/veh		71.1			58.8			66.9			63.3	
Approach LOS		E			E			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.4	21.7	16.6	61.0	13.2	44.8	28.3	49.3
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	33.0	19.6	12.6	* 56	11.9	40.7	34.3	* 34
Max Q Clear Time (g_c+I2), s	12.3	9.3	13.1	58.5	9.5	37.9	23.2	18.6
Green Ext Time (p_c), s	0.1	0.4	0.0	0.0	0.0	1.1	0.6	1.4

Intersection Summary	
HCM 6th Ctrl Delay	65.7
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	273	562	305	1615	1725	92
Future Volume (veh/h)	273	562	305	1615	1725	92
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	273	562	305	1615	1725	92
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	627	558	297	2854	1776	551
Arrive On Green	0.35	0.35	0.17	0.56	0.35	0.35
Sat Flow, veh/h	1781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	273	562	305	1615	1725	92
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1702	1702	1585
Q Serve(g_s), s	10.6	31.7	15.0	18.4	29.9	3.6
Cycle Q Clear(g_c), s	10.6	31.7	15.0	18.4	29.9	3.6
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	627	558	297	2854	1776	551
V/C Ratio(X)	0.44	1.01	1.03	0.57	0.97	0.17
Avail Cap(c_a), veh/h	627	558	297	2854	1776	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.3	29.1	37.5	12.8	28.9	20.3
Incr Delay (d2), s/veh	0.5	39.7	59.5	0.3	15.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	29.1	11.3	6.5	14.1	1.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	22.8	68.9	97.0	13.1	44.0	20.5
LnGrp LOS	C	F	F	B	D	C
Approach Vol, veh/h	835			1920	1817	
Approach Delay, s/veh	53.8			26.4	42.8	
Approach LOS	D			C	D	

Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	54.3		35.7	19.0	35.3
Change Period (Y+Rc), s	5.8		* 4.7	4.0	5.8
Max Green Setting (Gmax), s	48.5		* 31	15.0	29.5
Max Q Clear Time (g_c+I1), s	20.4		33.7	17.0	31.9
Green Ext Time (p_c), s	14.9		0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	37.9
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations							
Traffic Volume (veh/h)	206	100	1917	302	300	1900	
Future Volume (veh/h)	206	100	1917	302	300	1900	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	206	100	1917	302	300	1900	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	280	250	2504	777	344	3761	
Arrive On Green	0.16	0.16	0.49	0.49	0.19	0.74	
Sat Flow, veh/h	1781	1585	5274	1585	1781	5274	
Grp Volume(v), veh/h	206	100	1917	302	300	1900	
Grp Sat Flow(s),veh/h/ln	1781	1585	1702	1585	1781	1702	
Q Serve(g_s), s	8.3	4.3	23.1	9.0	12.3	11.8	
Cycle Q Clear(g_c), s	8.3	4.3	23.1	9.0	12.3	11.8	
Prop In Lane	1.00	1.00		1.00	1.00		
Lane Grp Cap(c), veh/h	280	250	2504	777	344	3761	
V/C Ratio(X)	0.73	0.40	0.77	0.39	0.87	0.51	
Avail Cap(c_a), veh/h	748	666	2653	823	404	4080	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	30.3	28.6	15.7	12.1	29.5	4.2	
Incr Delay (d2), s/veh	3.7	1.0	1.3	0.3	16.6	0.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln	3.7	1.6	8.3	3.0	6.6	2.7	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	34.0	29.6	17.0	12.4	46.1	4.3	
LnGrp LOS	C	C	B	B	D	A	
Approach Vol, veh/h	306		2219			2200	
Approach Delay, s/veh	32.6		16.4			10.0	
Approach LOS	C		B			A	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	18.6	41.0				59.6	15.9
Change Period (Y+Rc), s	4.0	5.8				5.8	4.7
Max Green Setting (Gmax), s	17.1	37.4				58.5	31.0
Max Q Clear Time (g_c+I1), s	14.3	25.1				13.8	10.3
Green Ext Time (p_c), s	0.3	10.1				23.6	0.9

Intersection Summary	
HCM 6th Ctrl Delay	14.4
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	244	322	285	172	3	343	177	1572	179	368	1884	47
Future Volume (veh/h)	244	322	285	172	3	343	177	1572	179	368	1884	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	244	322	285	172	3	343	177	1572	179	368	1884	47
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	239	481	407	195	433	367	192	1658	515	359	2138	664
Arrive On Green	0.13	0.26	0.26	0.11	0.23	0.23	0.11	0.32	0.32	0.20	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h	244	322	285	172	3	343	177	1572	179	368	1884	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s	20.0	23.0	24.2	14.2	0.2	31.6	14.6	44.7	12.8	30.0	50.6	2.6
Cycle Q Clear(g_c), s	20.0	23.0	24.2	14.2	0.2	31.6	14.6	44.7	12.8	30.0	50.6	2.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	239	481	407	195	433	367	192	1658	515	359	2138	664
V/C Ratio(X)	1.02	0.67	0.70	0.88	0.01	0.93	0.92	0.95	0.35	1.02	0.88	0.07
Avail Cap(c_a), veh/h	239	481	407	216	449	380	192	1658	515	359	2138	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	64.4	49.6	50.1	65.3	44.0	56.0	65.8	49.0	38.2	59.4	39.8	25.9
Incr Delay (d2), s/veh	63.1	3.6	5.3	30.5	0.0	29.5	44.0	12.0	0.4	53.9	4.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.3	11.3	10.3	8.1	0.1	15.6	9.0	20.8	5.1	18.9	21.9	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	127.5	53.2	55.3	95.8	44.0	85.5	109.8	61.1	38.6	113.3	44.5	25.9
LnGrp LOS	F	D	E	F	D	F	F	E	D	F	D	C
Approach Vol, veh/h		851			518			1928			2299	
Approach Delay, s/veh		75.2			88.7			63.4			55.1	
Approach LOS		E			F			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.0	52.3	20.2	42.2	20.0	66.3	24.0	38.5
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	30.0	46.5	18.0	* 37	16.0	60.5	20.0	* 35
Max Q Clear Time (g_c+I2), s	32.0	46.7	16.2	26.2	16.6	52.6	22.0	33.6
Green Ext Time (p_c), s	0.0	0.0	0.1	2.3	0.0	6.6	0.0	0.2

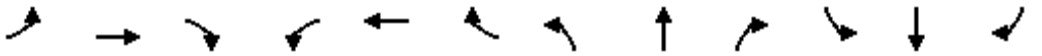
Intersection Summary	
HCM 6th Ctrl Delay	64.1
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Kimley»Horn

G. Cumulative Plus Project Conditions Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1446	381	919	1	470	0	0	1105	700
Future Volume (veh/h)	0	0	0	1446	381	919	1	470	0	0	1105	700
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1332	541	0	1	470	0	0	1105	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				1579	791		75	954	0	0	1762	
Arrive On Green				0.49	0.47	0.00	0.31	0.31	0.00	0.00	0.31	0.00
Sat Flow, veh/h				3196	1678	2844	1	3200	0	0	6006	1422
Grp Volume(v), veh/h				1332	541	0	253	218	0	0	1105	0
Grp Sat Flow(s),veh/h/ln				1598	1678	1422	1675	1450	0	0	1443	1422
Q Serve(g_s), s				17.5	12.2	0.0	0.0	6.0	0.0	0.0	8.0	0.0
Cycle Q Clear(g_c), s				17.5	12.2	0.0	6.0	6.0	0.0	0.0	8.0	0.0
Prop In Lane				1.00		1.00	0.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1579	791		586	443	0	0	1762	
V/C Ratio(X)				0.84	0.68		0.43	0.49	0.00	0.00	0.63	
Avail Cap(c_a), veh/h				1717	863		1599	1328	0	0	2779	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				10.6	10.0	0.0	13.7	13.7	0.0	0.0	14.4	0.0
Incr Delay (d2), s/veh				3.6	1.7	0.0	0.2	0.3	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.2	3.7	0.0	2.0	1.7	0.0	0.0	2.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				14.2	11.7	0.0	13.9	14.1	0.0	0.0	14.6	0.0
LnGrp LOS				B	B		B	B	A	A	B	
Approach Vol, veh/h					1873	A		471			1105	A
Approach Delay, s/veh					13.5			14.0			14.6	
Approach LOS					B			B			B	

Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		20.5				20.5		27.9				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+I1), s		8.0				10.0		19.5				
Green Ext Time (p_c), s		1.9				4.8		3.3				

Intersection Summary		
HCM 6th Ctrl Delay	13.9	
HCM 6th LOS	B	

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	126	0	222	0	0	0	0	395	984	0	1649	0
Future Volume (veh/h)	126	0	222	0	0	0	0	395	984	0	1649	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	84	0	267				0	395	984	0	1649	0
Peak Hour Factor	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	194	0	346				0	3301	1803	0	3301	0
Arrive On Green	0.12	0.00	0.12				0.00	0.72	0.72	0.00	0.72	0.00
Sat Flow, veh/h	1598	0	2844				0	4731	2502	0	4882	0
Grp Volume(v), veh/h	84	0	267				0	395	984	0	1649	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1527	1251	0	1527	0
Q Serve(g_s), s	3.3	0.0	6.2				0.0	1.8	12.4	0.0	10.8	0.0
Cycle Q Clear(g_c), s	3.3	0.0	6.2				0.0	1.8	12.4	0.0	10.8	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	194	0	346				0	3301	1803	0	3301	0
V/C Ratio(X)	0.43	0.00	0.77				0.00	0.12	0.55	0.00	0.50	0.00
Avail Cap(c_a), veh/h	465	0	827				0	3301	1803	0	3301	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.9	0.0	29.1				0.0	2.9	4.4	0.0	4.2	0.0
Incr Delay (d2), s/veh	0.6	0.0	1.4				0.0	0.1	1.2	0.0	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.0	2.1				0.0	0.4	2.3	0.0	2.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.4	0.0	30.5				0.0	3.0	5.6	0.0	4.7	0.0
LnGrp LOS	C	A	C				A	A	A	A	A	A
Approach Vol, veh/h		351						1379			1649	
Approach Delay, s/veh		30.0						4.8			4.7	
Approach LOS		C						A			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	13.4	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	14.4	8.2	12.8
Green Ext Time (p_c), s	5.0	0.1	11.7

Intersection Summary	
HCM 6th Ctrl Delay	7.4
HCM 6th LOS	A

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	25	257	880	85	305	77	322	464	319	1092	31
Future Volume (veh/h)	33	25	257	880	85	305	77	322	464	319	1092	31
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678
Adj Flow Rate, veh/h	33	25	257	880	85	305	77	322	464	319	1092	31
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	2	2	15	15	2	2	2	15	2	15
Cap, veh/h	107	200	189	949	548	464	113	1176	923	208	1189	476
Arrive On Green	0.07	0.12	0.12	0.27	0.33	0.33	0.06	0.33	0.33	0.07	0.33	0.33
Sat Flow, veh/h	1598	1678	1585	3456	1678	1419	1781	3554	2790	3100	3554	1422
Grp Volume(v), veh/h	33	25	257	880	85	305	77	322	464	319	1092	31
Grp Sat Flow(s),veh/h/ln	1598	1678	1585	1728	1678	1419	1781	1777	1395	1550	1777	1422
Q Serve(g_s), s	2.6	1.8	16.0	33.3	4.8	24.8	5.7	9.0	17.9	9.0	39.7	2.0
Cycle Q Clear(g_c), s	2.6	1.8	16.0	33.3	4.8	24.8	5.7	9.0	17.9	9.0	39.7	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	107	200	189	949	548	464	113	1176	923	208	1189	476
V/C Ratio(X)	0.31	0.13	1.36	0.93	0.16	0.66	0.68	0.27	0.50	1.54	0.92	0.07
Avail Cap(c_a), veh/h	107	200	189	1029	587	496	119	1243	976	208	1243	497
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.7	52.9	59.2	47.4	32.1	38.8	61.6	33.1	36.1	62.7	42.9	30.4
Incr Delay (d2), s/veh	1.6	0.3	192.9	13.3	0.1	2.9	14.0	0.1	0.4	264.0	10.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.8	16.4	15.6	1.9	8.7	3.0	3.9	6.0	11.2	19.1	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.3	53.2	252.1	60.7	32.2	41.7	75.6	33.2	36.5	326.7	53.6	30.5
LnGrp LOS	E	D	F	E	C	D	E	C	D	F	D	C
Approach Vol, veh/h		315			1270			863			1442	
Approach Delay, s/veh		216.3			54.2			38.8			113.5	
Approach LOS		F			D			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	51.5	43.9	23.0	15.5	52.0	16.0	50.9
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	9.0	47.0	40.0	16.0	9.0	47.0	9.0	47.0
Max Q Clear Time (g_c+I1), s	11.0	19.9	35.3	18.0	7.7	41.7	4.6	26.8
Green Ext Time (p_c), s	0.0	4.3	1.6	0.0	0.0	3.3	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	85.9
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Future Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	213	252	33	20	450	346	163	176	98	136	68	269
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	224	313	265	368	501	425	194	466	247	165	341	304
Arrive On Green	0.14	0.19	0.19	0.23	0.30	0.30	0.12	0.23	0.23	0.10	0.21	0.21
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2012	1068	1598	1594	1422
Grp Volume(v), veh/h	213	252	33	20	450	346	163	138	136	136	68	269
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	1594	1486	1598	1594	1422
Q Serve(g_s), s	10.8	11.8	1.1	0.8	21.1	18.5	8.2	5.9	6.4	6.8	2.9	15.0
Cycle Q Clear(g_c), s	10.8	11.8	1.1	0.8	21.1	18.5	8.2	5.9	6.4	6.8	2.9	15.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	224	313	265	368	501	425	194	369	344	165	341	304
V/C Ratio(X)	0.95	0.80	0.12	0.05	0.90	0.81	0.84	0.37	0.40	0.82	0.20	0.89
Avail Cap(c_a), veh/h	224	526	446	368	526	446	205	369	344	205	366	326
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.9	31.9	14.6	24.6	27.5	26.6	35.2	26.5	26.6	36.0	26.4	31.2
Incr Delay (d2), s/veh	45.9	6.8	0.3	0.1	18.1	11.3	24.7	0.9	1.1	19.2	0.4	23.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	5.0	0.5	0.3	10.1	7.3	4.4	2.3	2.3	3.5	1.1	7.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	80.8	38.6	14.9	24.6	45.6	37.9	59.9	27.4	27.7	55.1	26.9	55.0
LnGrp LOS	F	D	B	C	D	D	E	C	C	E	C	D
Approach Vol, veh/h		498			816			437			473	
Approach Delay, s/veh		55.1			41.9			39.6			51.0	
Approach LOS		E			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.7	21.1	12.5	23.7	15.5	30.3	13.9	22.2
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	14.5	* 26	10.5	* 19	11.5	25.7	10.5	* 19
Max Q Clear Time (g_c+I2), s	12.8	13.8	8.8	8.4	12.8	23.1	10.2	17.0
Green Ext Time (p_c), s	0.0	1.5	0.1	1.5	0.0	1.4	0.0	0.5

Intersection Summary	
HCM 6th Ctrl Delay	46.3
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	420	46	145	781	66	7	0	4	15	0	28
Future Volume (veh/h)	21	420	46	145	781	66	7	0	4	15	0	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1752	1870	1870	1752	1752	1870	1870	1870	1752	1870	1752
Adj Flow Rate, veh/h	21	420	50	158	781	66	8	0	4	15	0	28
Peak Hour Factor	1.00	1.00	0.92	0.92	1.00	1.00	0.92	0.92	0.92	1.00	0.92	1.00
Percent Heavy Veh, %	10	10	2	2	10	10	2	2	2	10	2	10
Cap, veh/h	39	1877	894	120	2045	912	15	0	117	83	0	183
Arrive On Green	0.02	0.56	0.56	0.07	0.61	0.61	0.01	0.00	0.07	0.05	0.00	0.12
Sat Flow, veh/h	1668	3328	1585	1781	3328	1485	1781	0	1585	1668	0	1585
Grp Volume(v), veh/h	21	420	50	158	781	66	8	0	4	15	0	28
Grp Sat Flow(s),veh/h/ln	1668	1664	1585	1781	1664	1485	1781	0	1585	1668	0	1585
Q Serve(g_s), s	1.0	5.0	1.1	5.4	9.5	1.4	0.4	0.0	0.2	0.7	0.0	1.3
Cycle Q Clear(g_c), s	1.0	5.0	1.1	5.4	9.5	1.4	0.4	0.0	0.2	0.7	0.0	1.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	39	1877	894	120	2045	912	15	0	117	83	0	183
V/C Ratio(X)	0.54	0.22	0.06	1.31	0.38	0.07	0.55	0.00	0.03	0.18	0.00	0.15
Avail Cap(c_a), veh/h	104	1877	894	120	2045	912	89	0	476	83	0	476
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	38.6	8.7	7.9	37.3	7.8	6.2	39.5	0.0	34.4	36.4	0.0	31.9
Incr Delay (d2), s/veh	11.1	0.3	0.1	188.3	0.5	0.2	28.8	0.0	0.1	4.7	0.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.5	0.4	8.5	2.7	0.4	0.3	0.0	0.1	0.4	0.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.8	9.0	8.0	225.6	8.3	6.4	68.4	0.0	34.5	41.1	0.0	32.2
LnGrp LOS	D	A	A	F	A	A	E	A	C	D	A	C
Approach Vol, veh/h		491			1005			12			43	
Approach Delay, s/veh		10.6			42.4			57.1			35.3	
Approach LOS		B			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.9	51.6	8.0	10.5	5.9	55.6	4.7	13.8
Change Period (Y+Rc), s	4.5	6.5	4.0	4.6	4.0	6.5	4.0	4.6
Max Green Setting (Gmax), s	5.4	27.0	4.0	24.0	5.0	27.9	4.0	24.0
Max Q Clear Time (g_c+I1), s	7.4	7.0	2.7	2.2	3.0	11.5	2.4	3.3
Green Ext Time (p_c), s	0.0	2.5	0.0	0.0	0.0	4.7	0.0	0.1

Intersection Summary	
HCM 6th Ctrl Delay	32.2
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	370	69	0	992	0	7
Future Vol, veh/h	370	69	0	992	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	402	75	0	1078	0	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	239
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	762
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	762
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	762	-	-	-
HCM Lane V/C Ratio	0.01	-	-	-
HCM Control Delay (s)	9.8	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	260	117	0	986	6	0
Future Volume (veh/h)	260	117	0	986	6	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	283	127	0	1072	127	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	2149	959	4	2149	9999	9999
Arrive On Green	0.60	0.60	0.00	0.60	0.17	0.17
Sat Flow, veh/h	3647	1585	1781	1836	5086	4462592
Grp Volume(v), veh/h	283	127	0	1072	127	1
Grp Sat Flow(s),veh/h/ln	1777	1585	1781	1777	1781	1585
Q Serve(g_s), s	1.6	1.6	0.0	8.0	0.0	0.0
Cycle Q Clear(g_c), s	1.6	1.6	0.0	8.0	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2149	959	4	2149	9999	9036544
V/C Ratio(X)	0.13	0.13	0.00	0.50	0.00	0.00
Avail Cap(c_a), veh/h	2149	959	151	2149	9999	9036544
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.0	4.0	0.0	5.3	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.3	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.4	0.0	1.3	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	4.1	4.3	0.0	5.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A
Approach Vol, veh/h	410			1072	128	
Approach Delay, s/veh	4.2			5.5	0.0	
Approach LOS	A			A	A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	35.0		12.1		35.0
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+I1), s	0.0	3.6		2.0		10.0
Green Ext Time (p_c), s	0.0	2.3		0.3		7.9

Intersection Summary			
HCM 6th Ctrl Delay		4.7	
HCM 6th LOS		A	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129
Future Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	84	159	93	80	994	22	38	32	10	87	1	129
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	105	617	361	100	1000	22	57	371	165	109	474	212
Arrive On Green	0.06	0.56	0.56	0.06	0.55	0.55	0.03	0.11	0.11	0.07	0.14	0.14
Sat Flow, veh/h	1668	1107	647	1668	1823	40	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	84	0	252	80	0	1016	38	32	10	87	1	129
Grp Sat Flow(s),veh/h/ln	1668	0	1754	1668	0	1863	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	4.5	0.0	6.7	4.3	0.0	48.6	2.0	0.8	0.5	4.6	0.0	7.3
Cycle Q Clear(g_c), s	4.5	0.0	6.7	4.3	0.0	48.6	2.0	0.8	0.5	4.6	0.0	7.3
Prop In Lane	1.00		0.37	1.00		0.02	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	105	0	977	100	0	1022	57	371	165	109	474	212
V/C Ratio(X)	0.80	0.00	0.26	0.80	0.00	0.99	0.67	0.09	0.06	0.80	0.00	0.61
Avail Cap(c_a), veh/h	108	0	978	102	0	1022	104	726	324	117	752	335
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	0.0	10.3	41.7	0.0	20.1	42.9	35.8	35.7	41.4	33.0	36.2
Incr Delay (d2), s/veh	32.6	0.0	0.1	33.9	0.0	26.5	12.7	0.1	0.2	29.6	0.0	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	2.4	2.7	0.0	26.3	1.0	0.3	0.2	2.8	0.0	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.1	0.0	10.4	75.6	0.0	46.6	55.6	35.9	35.9	71.0	33.0	39.0
LnGrp LOS	E	A	B	E	A	D	E	D	D	E	C	D
Approach Vol, veh/h		336			1096			80			217	
Approach Delay, s/veh		26.3			48.8			45.2			51.8	
Approach LOS		C			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.9	15.8	9.4	54.8	7.1	18.6	10.2	54.0
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	6.3	19.6	5.5	* 50	5.6	20.3	5.8	* 49
Max Q Clear Time (g_c+I1), s	6.6	2.8	6.3	8.7	4.0	9.3	6.5	50.6
Green Ext Time (p_c), s	0.0	0.1	0.0	1.7	0.0	0.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	44.6
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	84	176	502	1569	1154	369
Future Volume (veh/h)	84	176	502	1569	1154	369
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	84	176	502	1569	1154	369
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	267	237	560	3469	1532	476
Arrive On Green	0.15	0.15	0.31	0.68	0.30	0.30
Sat Flow, veh/h	1781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	84	176	502	1569	1154	369
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1702	1702	1585
Q Serve(g_s), s	2.6	6.5	16.5	8.7	12.6	13.0
Cycle Q Clear(g_c), s	2.6	6.5	16.5	8.7	12.6	13.0
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	267	237	560	3469	1532	476
V/C Ratio(X)	0.31	0.74	0.90	0.45	0.75	0.78
Avail Cap(c_a), veh/h	899	800	667	4031	1787	555
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.3	25.0	20.1	4.6	19.4	19.6
Incr Delay (d2), s/veh	0.7	4.5	13.3	0.1	1.6	5.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.3	8.2	2.0	4.7	5.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	24.0	29.5	33.4	4.7	21.0	25.5
LnGrp LOS	C	C	C	A	C	C
Approach Vol, veh/h	260			2071	1523	
Approach Delay, s/veh	27.7			11.6	22.1	
Approach LOS	C			B	C	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		47.5		13.9	23.3	24.2
Change Period (Y+Rc), s		5.8		* 4.7	4.0	5.8
Max Green Setting (Gmax), s		48.5		* 31	23.0	21.5
Max Q Clear Time (g_c+I1), s		10.7		8.5	18.5	15.0
Green Ext Time (p_c), s		16.5		0.8	0.8	3.4

Intersection Summary		
HCM 6th Ctrl Delay		16.9
HCM 6th LOS		B

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	74	313	2029	28	116	1220
Future Volume (veh/h)	74	313	2029	28	116	1220
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	74	313	2029	28	116	1220
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	413	368	2489	773	147	3190
Arrive On Green	0.23	0.23	0.49	0.49	0.08	0.62
Sat Flow, veh/h	1781	1585	5274	1585	1781	5274
Grp Volume(v), veh/h	74	313	2029	28	116	1220
Grp Sat Flow(s),veh/h/ln	1781	1585	1702	1585	1781	1702
Q Serve(g_s), s	2.4	13.8	24.8	0.7	4.7	8.6
Cycle Q Clear(g_c), s	2.4	13.8	24.8	0.7	4.7	8.6
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	413	368	2489	773	147	3190
V/C Ratio(X)	0.18	0.85	0.82	0.04	0.79	0.38
Avail Cap(c_a), veh/h	754	671	2614	811	170	3381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.5	26.9	16.0	9.8	33.0	6.8
Incr Delay (d2), s/veh	0.2	5.6	2.0	0.0	18.9	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	5.5	8.9	0.2	2.7	2.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	22.7	32.5	18.0	9.8	51.9	6.9
LnGrp LOS	C	C	B	A	D	A
Approach Vol, veh/h	387		2057			1336
Approach Delay, s/veh	30.6		17.9			10.8
Approach LOS	C		B			B

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	10.1	41.5				51.6	21.7
Change Period (Y+Rc), s	4.0	5.8				5.8	4.7
Max Green Setting (Gmax), s	7.0	37.5				48.5	31.0
Max Q Clear Time (g_c+I1), s	6.7	26.8				10.6	15.8
Green Ext Time (p_c), s	0.0	8.9				11.5	1.2

Intersection Summary	
HCM 6th Ctrl Delay	16.7
HCM 6th LOS	B

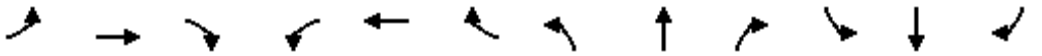
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48
Future Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	3	17	204	1	433	127	1713	20	251	1020	48
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	16	138	117	240	373	316	160	2124	659	287	2586	803
Arrive On Green	0.01	0.07	0.07	0.13	0.20	0.20	0.09	0.42	0.42	0.16	0.51	0.51
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h	7	3	17	204	1	433	127	1713	20	251	1020	48
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s	0.4	0.1	1.0	10.6	0.0	12.5	6.6	27.9	0.4	13.0	11.7	1.5
Cycle Q Clear(g_c), s	0.4	0.1	1.0	10.6	0.0	12.5	6.6	27.9	0.4	13.0	11.7	1.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	16	138	117	240	373	316	160	2124	659	287	2586	803
V/C Ratio(X)	0.44	0.02	0.15	0.85	0.00	1.37	0.79	0.81	0.03	0.87	0.39	0.06
Avail Cap(c_a), veh/h	104	692	586	282	879	745	329	2325	722	346	2586	803
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.7	40.6	41.0	40.0	30.3	16.5	42.2	24.3	5.7	38.8	14.4	11.9
Incr Delay (d2), s/veh	18.2	0.1	0.6	19.0	0.0	173.0	8.6	2.0	0.0	18.7	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.1	0.4	5.8	0.0	19.5	3.3	11.1	0.3	7.1	4.3	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.9	40.7	41.6	59.0	30.3	189.5	50.8	26.3	5.8	57.5	14.5	11.9
LnGrp LOS	E	D	D	E	C	F	D	C	A	E	B	B
Approach Vol, veh/h		27			638			1860			1319	
Approach Delay, s/veh		47.5			147.5			27.8			22.6	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	45.2	16.7	11.7	12.5	53.7	4.8	23.6
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	10.4	* 43	15.0	* 35	17.5	44.0	5.5	* 45
Max Q Clear Time (g_c+I1), s	15.0	29.9	12.6	3.0	8.6	13.7	2.4	14.5
Green Ext Time (p_c), s	0.2	9.5	0.1	0.0	0.2	8.8	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	46.0
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	1023	9	1367	3	705	0	0	1458	88
Future Volume (veh/h)	0	0	0	1023	9	1367	3	705	0	0	1458	88
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1678	1678	1678	1678	1678	0	0	1678	1678
Adj Flow Rate, veh/h				1029	0	0	3	705	0	0	1458	0
Peak Hour Factor				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %				15	15	15	15	15	0	0	15	15
Cap, veh/h				1597	0		94	1300	0	0	2408	
Arrive On Green				0.33	0.00	0.00	0.42	0.42	0.00	0.00	0.42	0.00
Sat Flow, veh/h				4793	0	2844	3	3191	0	0	6006	1422
Grp Volume(v), veh/h				1029	0	0	379	329	0	0	1458	0
Grp Sat Flow(s),veh/h/ln				1598	0	1422	1667	1450	0	0	1443	1422
Q Serve(g_s), s				7.1	0.0	0.0	0.0	6.7	0.0	0.0	7.7	0.0
Cycle Q Clear(g_c), s				7.1	0.0	0.0	6.6	6.7	0.0	0.0	7.7	0.0
Prop In Lane				1.00		1.00	0.01		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1597	0		789	605	0	0	2408	
V/C Ratio(X)				0.64	0.00		0.48	0.54	0.00	0.00	0.61	
Avail Cap(c_a), veh/h				3205	0		1962	1652	0	0	3458	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				11.0	0.0	0.0	8.5	8.5	0.0	0.0	8.8	0.0
Incr Delay (d2), s/veh				0.3	0.0	0.0	0.2	0.3	0.0	0.0	0.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.9	0.0	0.0	1.7	1.5	0.0	0.0	1.7	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				11.3	0.0	0.0	8.7	8.8	0.0	0.0	8.9	0.0
LnGrp LOS				B	A		A	A	A	A	A	
Approach Vol, veh/h					1029	A		708			1458	A
Approach Delay, s/veh					11.3			8.8			8.9	
Approach LOS					B			A			A	

Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		21.9				21.9		17.0				
Change Period (Y+Rc), s		5.7				5.7		5.1				
Max Green Setting (Gmax), s		44.3				23.3		24.9				
Max Q Clear Time (g_c+I1), s		8.7				9.7		9.1				
Green Ext Time (p_c), s		3.2				6.6		2.8				

Intersection Summary		
HCM 6th Ctrl Delay	9.6	
HCM 6th LOS	A	

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	182	0	86	0	0	0	0	549	1951	0	1489	0
Future Volume (veh/h)	182	0	86	0	0	0	0	549	1951	0	1489	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678				0	1678	1678	0	1678	0
Adj Flow Rate, veh/h	209	0	57				0	549	1951	0	1489	0
Peak Hour Factor	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15				0	15	15	0	15	0
Cap, veh/h	425	0	189				0	3433	1875	0	3433	0
Arrive On Green	0.13	0.00	0.13				0.00	0.75	0.75	0.00	0.75	0.00
Sat Flow, veh/h	3196	0	1422				0	4731	2502	0	4882	0
Grp Volume(v), veh/h	209	0	57				0	549	1951	0	1489	0
Grp Sat Flow(s),veh/h/ln	1598	0	1422				0	1527	1251	0	1527	0
Q Serve(g_s), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0
Cycle Q Clear(g_c), s	4.1	0.0	2.5				0.0	2.3	51.0	0.0	8.2	0.0
Prop In Lane	1.00		1.00				0.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	425	0	189				0	3433	1875	0	3433	0
V/C Ratio(X)	0.49	0.00	0.30				0.00	0.16	1.04	0.00	0.43	0.00
Avail Cap(c_a), veh/h	986	0	439				0	3433	1875	0	3433	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh	27.4	0.0	26.6				0.0	2.4	8.5	0.0	3.2	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.3				0.0	0.1	32.1	0.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.8				0.0	0.4	15.3	0.0	1.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.7	0.0	27.0				0.0	2.5	40.6	0.0	3.6	0.0
LnGrp LOS	C	A	C				A	A	F	A	A	A
Approach Vol, veh/h		266						2500			1489	
Approach Delay, s/veh		27.5						32.3			3.6	
Approach LOS		C						C			A	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	55.0	13.0	55.0
Change Period (Y+Rc), s	5.7	5.1	5.7
Max Green Setting (Gmax), s	49.3	19.9	49.3
Max Q Clear Time (g_c+I1), s	53.0	6.1	10.2
Green Ext Time (p_c), s	0.0	0.1	10.1

Intersection Summary	
HCM 6th Ctrl Delay	21.9
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	52	50	94	777	41	333	141	974	598	251	1194	26
Future Volume (veh/h)	52	50	94	777	41	333	141	974	598	251	1194	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1870	1870	1678	1678	1870	1870	1870	1678	1870	1678
Adj Flow Rate, veh/h	52	50	94	777	41	333	141	974	598	251	1194	26
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	2	2	15	15	2	2	2	15	2	15
Cap, veh/h	113	124	163	940	461	390	178	1390	1092	310	1390	556
Arrive On Green	0.07	0.07	0.10	0.27	0.27	0.27	0.10	0.39	0.39	0.10	0.39	0.39
Sat Flow, veh/h	1598	1678	1585	3456	1678	1419	1781	3554	2790	3100	3554	1422
Grp Volume(v), veh/h	52	50	94	777	41	333	141	974	598	251	1194	26
Grp Sat Flow(s),veh/h/ln	1598	1678	1585	1728	1678	1419	1781	1777	1395	1550	1777	1422
Q Serve(g_s), s	3.7	3.4	6.8	25.3	2.2	26.6	9.3	27.5	19.9	9.5	36.9	1.4
Cycle Q Clear(g_c), s	3.7	3.4	6.8	25.3	2.2	26.6	9.3	27.5	19.9	9.5	36.9	1.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	113	124	163	940	461	390	178	1390	1092	310	1390	556
V/C Ratio(X)	0.46	0.40	0.58	0.83	0.09	0.85	0.79	0.70	0.55	0.81	0.86	0.05
Avail Cap(c_a), veh/h	113	245	278	1183	700	592	178	1483	1164	310	1483	593
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.4	53.0	51.2	41.0	32.3	41.2	52.7	30.6	28.3	52.8	33.4	22.6
Incr Delay (d2), s/veh	2.9	2.1	3.2	4.0	0.1	7.6	20.9	1.4	0.5	14.6	5.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	1.5	2.8	10.9	0.9	9.8	5.2	11.9	6.4	4.3	16.6	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	56.3	55.1	54.4	45.0	32.4	48.8	73.6	32.0	28.7	67.4	38.5	22.6
LnGrp LOS	E	E	D	D	C	D	E	C	C	E	D	C
Approach Vol, veh/h		196			1151			1713			1471	
Approach Delay, s/veh		55.1			45.6			34.3			43.1	
Approach LOS		E			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	50.9	36.6	16.3	16.0	50.9	16.0	36.9
Change Period (Y+Rc), s	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Max Green Setting (Gmax), s	9.0	47.0	38.0	18.0	9.0	47.0	9.0	47.0
Max Q Clear Time (g_c+I1), s	11.5	29.5	27.3	8.8	11.3	38.9	5.7	28.6
Green Ext Time (p_c), s	0.0	9.2	2.3	0.3	0.0	5.0	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	40.9
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Future Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	338	559	372	173	230	288	49	366	62	506	728	353
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	327	574	457	167	406	314	80	440	74	487	866	419
Arrive On Green	0.20	0.34	0.32	0.10	0.24	0.22	0.05	0.16	0.15	0.30	0.42	0.40
Sat Flow, veh/h	1598	1678	1422	1598	1678	1422	1598	2731	458	1598	2082	1008
Grp Volume(v), veh/h	338	559	372	173	230	288	49	212	216	506	557	524
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1598	1678	1422	1598	1594	1595	1598	1594	1496
Q Serve(g_s), s	24.5	39.4	28.8	12.5	14.4	23.7	3.6	15.4	15.7	36.5	37.6	37.8
Cycle Q Clear(g_c), s	24.5	39.4	28.8	12.5	14.4	23.7	3.6	15.4	15.7	36.5	37.6	37.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.29	1.00		0.67
Lane Grp Cap(c), veh/h	327	574	457	167	406	314	80	257	257	487	663	622
V/C Ratio(X)	1.03	0.97	0.81	1.04	0.57	0.92	0.61	0.83	0.84	1.04	0.84	0.84
Avail Cap(c_a), veh/h	327	574	457	167	406	314	87	259	260	487	663	622
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.7	38.9	37.4	53.7	39.9	45.6	55.8	48.6	49.0	41.7	31.4	32.0
Incr Delay (d2), s/veh	59.0	31.0	11.3	80.1	2.3	30.5	10.6	19.8	21.5	51.5	9.8	10.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.8	20.3	11.4	8.6	6.0	11.0	1.7	7.5	7.8	21.1	16.0	15.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	106.7	69.8	48.7	133.7	42.2	76.1	66.4	68.4	70.4	93.1	41.3	42.5
LnGrp LOS	F	E	D	F	D	E	E	E	E	F	D	D
Approach Vol, veh/h		1269			691			477			1587	
Approach Delay, s/veh		73.5			79.2			69.1			58.2	
Approach LOS		E			E			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	44.3	39.0	22.5	26.0	32.3	8.5	53.0
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	10.0	38.5	35.0	* 18	22.0	26.5	5.0	* 48
Max Q Clear Time (g_c+I1), s	14.5	41.4	38.5	17.7	26.5	25.7	5.6	39.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.1	0.0	0.3	0.0	5.3

Intersection Summary	
HCM 6th Ctrl Delay	67.9
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1058	2	9	509	57	24	0	13	67	0	100
Future Volume (veh/h)	50	1058	2	9	509	57	24	0	13	67	0	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1752	1870	1870	1752	1752	1870	1870	1870	1752	1870	1752
Adj Flow Rate, veh/h	54	1150	2	10	553	62	26	0	14	73	0	109
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	10	10	2	2	10	10	2	2	2	10	2	10
Cap, veh/h	83	1813	827	111	1896	846	39	0	191	98	0	235
Arrive On Green	0.05	0.54	0.52	0.06	0.57	0.57	0.02	0.00	0.12	0.06	0.00	0.16
Sat Flow, veh/h	1668	3328	1585	1781	3328	1485	1781	0	1585	1668	0	1585
Grp Volume(v), veh/h	54	1150	2	10	553	62	26	0	14	73	0	109
Grp Sat Flow(s),veh/h/ln	1668	1664	1585	1781	1664	1485	1781	0	1585	1668	0	1585
Q Serve(g_s), s	2.5	19.2	0.0	0.4	6.9	1.5	1.2	0.0	0.6	3.4	0.0	5.0
Cycle Q Clear(g_c), s	2.5	19.2	0.0	0.4	6.9	1.5	1.2	0.0	0.6	3.4	0.0	5.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	83	1813	827	111	1896	846	39	0	191	98	0	235
V/C Ratio(X)	0.65	0.63	0.00	0.09	0.29	0.07	0.67	0.00	0.07	0.74	0.00	0.46
Avail Cap(c_a), veh/h	115	1813	827	111	1896	846	89	0	476	98	0	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	37.3	12.7	9.1	35.4	8.9	7.7	38.8	0.0	31.2	37.1	0.0	30.8
Incr Delay (d2), s/veh	8.2	1.7	0.0	0.3	0.4	0.2	17.7	0.0	0.2	26.2	0.0	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	6.8	0.0	0.2	2.3	0.5	0.7	0.0	0.2	2.1	0.0	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.5	14.4	9.2	35.7	9.3	7.9	56.5	0.0	31.4	63.2	0.0	32.2
LnGrp LOS	D	B	A	D	A	A	E	A	C	E	A	C
Approach Vol, veh/h		1206			625			40			182	
Approach Delay, s/veh		15.8			9.6			47.7			44.7	
Approach LOS		B			A			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	48.3	8.0	14.2	7.5	50.3	5.8	16.5
Change Period (Y+Rc), s	4.5	6.5	4.0	4.6	4.0	6.5	4.0	* 4.6
Max Green Setting (Gmax), s	5.0	27.4	4.0	24.0	5.0	27.9	4.0	* 24
Max Q Clear Time (g_c+I1), s	2.4	21.2	5.4	2.6	4.5	8.9	3.2	7.0
Green Ext Time (p_c), s	0.0	3.9	0.0	0.0	0.0	3.9	0.0	0.5

Intersection Summary	
HCM 6th Ctrl Delay	17.1
HCM 6th LOS	B

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1134	4	0	575	0	19
Future Vol, veh/h	1134	4	0	575	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1233	4	0	625	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	619
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	-	-	0	-	0	432
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	432
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	13.8
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	432	-	-	-
HCM Lane V/C Ratio	0.048	-	-	-
HCM Control Delay (s)	13.8	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	1149	4	0	563	12	0
Future Volume (veh/h)	1149	4	0	563	12	0
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1249	4	0	612	4	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	2193	978	6	2193	9999	9999
Arrive On Green	0.62	0.62	0.00	0.62	0.01	0.01
Sat Flow, veh/h	3647	1585	1781	1896	1781	1585
Grp Volume(v), veh/h	1249	4	0	612	4	1
Grp Sat Flow(s),veh/h/ln	1777	1585	1781	1777	1781	1585
Q Serve(g_s), s	5.9	0.0	0.0	2.3	0.0	0.0
Cycle Q Clear(g_c), s	5.9	0.0	0.0	2.3	0.0	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2193	978	6	2193	9999	9999
V/C Ratio(X)	0.57	0.00	0.00	0.28	0.00	0.00
Avail Cap(c_a), veh/h	3561	1588	251	1240	1781	1585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	3.2	2.1	0.0	2.5	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.1	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	3.4	2.1	0.0	2.6	0.0	0.0
LnGrp LOS	A	A	A	A	A	A
Approach Vol, veh/h	1253			612	5	
Approach Delay, s/veh	3.4			2.6	0.0	
Approach LOS	A			A	A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	0.0	24.1		4.4		24.1
Change Period (Y+Rc), s	4.0	6.5		4.0		6.5
Max Green Setting (Gmax), s	4.0	28.5		18.0		36.5
Max Q Clear Time (g_c+I1), s	0.0	7.9		2.0		4.3
Green Ext Time (p_c), s	0.0	9.7		0.0		4.7

Intersection Summary			
HCM 6th Ctrl Delay		3.2	
HCM 6th LOS		A	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Future Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	286	389	344	138	168	107	93	61	86	378	345	413
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	318	383	339	154	343	218	113	441	197	398	1009	450
Arrive On Green	0.19	0.42	0.41	0.09	0.32	0.32	0.07	0.13	0.13	0.24	0.30	0.30
Sat Flow, veh/h	1668	915	809	1668	1068	680	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	286	0	733	138	0	275	93	61	86	378	345	413
Grp Sat Flow(s),veh/h/ln	1668	0	1725	1668	0	1748	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	22.8	0.0	57.0	11.1	0.0	17.3	7.5	2.2	7.3	30.4	11.0	36.6
Cycle Q Clear(g_c), s	22.8	0.0	57.0	11.1	0.0	17.3	7.5	2.2	7.3	30.4	11.0	36.6
Prop In Lane	1.00		0.47	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	318	0	722	154	0	561	113	441	197	398	1009	450
V/C Ratio(X)	0.90	0.00	1.01	0.89	0.00	0.49	0.82	0.14	0.44	0.95	0.34	0.92
Avail Cap(c_a), veh/h	427	0	722	154	0	561	146	523	233	405	1039	464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.8	0.0	39.7	61.1	0.0	37.3	62.6	52.2	54.4	51.0	36.9	45.8
Incr Delay (d2), s/veh	17.8	0.0	37.2	42.9	0.0	0.7	24.1	0.1	1.5	31.9	0.2	22.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.1	0.0	31.2	6.6	0.0	7.6	3.9	0.9	2.8	16.2	4.5	16.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.6	0.0	76.9	104.0	0.0	38.0	86.7	52.3	55.9	82.9	37.1	68.7
LnGrp LOS	E	A	F	F	A	D	F	D	E	F	D	E
Approach Vol, veh/h		1019			413			240			1136	
Approach Delay, s/veh		75.4			60.0			66.9			63.8	
Approach LOS		E			E			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.5	22.0	16.6	61.0	13.2	45.2	29.9	47.7
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	33.0	19.6	12.6	* 56	11.9	40.7	34.3	* 34
Max Q Clear Time (g_c+I1), s	32.4	9.3	13.1	59.0	9.5	38.6	24.8	19.3
Green Ext Time (p_c), s	0.1	0.4	0.0	0.0	0.0	0.9	0.6	1.4

Intersection Summary	
HCM 6th Ctrl Delay	67.7
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	278	570	307	1615	1725	94
Future Volume (veh/h)	278	570	307	1615	1725	94
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	278	570	307	1615	1725	94
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	627	558	297	2854	1776	551
Arrive On Green	0.35	0.35	0.17	0.56	0.35	0.35
Sat Flow, veh/h	1781	1585	1781	5274	5274	1585
Grp Volume(v), veh/h	278	570	307	1615	1725	94
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1702	1702	1585
Q Serve(g_s), s	10.8	31.7	15.0	18.4	29.9	3.7
Cycle Q Clear(g_c), s	10.8	31.7	15.0	18.4	29.9	3.7
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	627	558	297	2854	1776	551
V/C Ratio(X)	0.44	1.02	1.03	0.57	0.97	0.17
Avail Cap(c_a), veh/h	627	558	297	2854	1776	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	29.1	37.5	12.8	28.9	20.3
Incr Delay (d2), s/veh	0.5	43.5	61.3	0.3	15.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	29.7	11.4	6.5	14.1	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	22.9	72.6	98.8	13.1	44.0	20.5
LnGrp LOS	C	F	F	B	D	C
Approach Vol, veh/h	848			1922	1819	
Approach Delay, s/veh	56.3			26.8	42.8	
Approach LOS	E			C	D	

Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		54.3		35.7	19.0	35.3
Change Period (Y+Rc), s		5.8		* 4.7	4.0	5.8
Max Green Setting (Gmax), s		48.5		* 31	15.0	29.5
Max Q Clear Time (g_c+I1), s		20.4		33.7	17.0	31.9
Green Ext Time (p_c), s		14.9		0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	38.6
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	206	100	1919	302	300	1908
Future Volume (veh/h)	206	100	1919	302	300	1908
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	206	100	1919	302	300	1908
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	280	250	2505	778	344	3761
Arrive On Green	0.16	0.16	0.49	0.49	0.19	0.74
Sat Flow, veh/h	1781	1585	5274	1585	1781	5274
Grp Volume(v), veh/h	206	100	1919	302	300	1908
Grp Sat Flow(s),veh/h/ln	1781	1585	1702	1585	1781	1702
Q Serve(g_s), s	8.3	4.3	23.2	9.1	12.3	11.9
Cycle Q Clear(g_c), s	8.3	4.3	23.2	9.1	12.3	11.9
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	280	250	2505	778	344	3761
V/C Ratio(X)	0.73	0.40	0.77	0.39	0.87	0.51
Avail Cap(c_a), veh/h	748	666	2652	823	404	4079
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.3	28.6	15.7	12.1	29.6	4.2
Incr Delay (d2), s/veh	3.7	1.0	1.3	0.3	16.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	1.6	8.3	3.0	6.7	2.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	34.0	29.6	17.0	12.4	46.2	4.3
LnGrp LOS	C	C	B	B	D	A
Approach Vol, veh/h	306		2221			2208
Approach Delay, s/veh	32.6		16.4			10.0
Approach LOS	C		B			A

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	18.6	41.0				59.6	15.9
Change Period (Y+Rc), s	4.0	5.8				5.8	4.7
Max Green Setting (Gmax), s	17.1	37.4				58.5	31.0
Max Q Clear Time (g_c+I1), s	14.3	25.2				13.9	10.3
Green Ext Time (p_c), s	0.3	10.1				23.7	0.9

Intersection Summary	
HCM 6th Ctrl Delay	14.4
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47
Future Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	239	481	408	194	434	368	191	1657	514	359	2137	663
Arrive On Green	0.13	0.26	0.26	0.11	0.23	0.23	0.11	0.32	0.32	0.20	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	1781	5106	1585
Grp Volume(v), veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1702	1585	1781	1702	1585
Q Serve(g_s), s	20.0	23.0	24.2	14.2	0.2	31.7	14.7	44.8	12.8	30.0	50.7	2.6
Cycle Q Clear(g_c), s	20.0	23.0	24.2	14.2	0.2	31.7	14.7	44.8	12.8	30.0	50.7	2.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	239	481	408	194	434	368	191	1657	514	359	2137	663
V/C Ratio(X)	1.02	0.67	0.70	0.88	0.01	0.93	0.92	0.95	0.35	1.04	0.88	0.07
Avail Cap(c_a), veh/h	239	481	408	215	449	380	191	1657	514	359	2137	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	64.4	49.6	50.0	65.4	44.0	56.0	65.8	49.1	38.3	59.4	39.9	25.9
Incr Delay (d2), s/veh	63.3	3.5	5.2	30.5	0.0	29.6	44.1	12.2	0.4	58.0	4.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.3	11.3	10.3	8.1	0.1	15.7	9.0	20.9	5.1	19.3	22.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	127.8	53.1	55.2	95.9	44.0	85.7	110.0	61.3	38.7	117.4	44.7	26.0
LnGrp LOS	F	D	E	F	D	F	F	E	D	F	D	C
Approach Vol, veh/h		851			519			1929			2307	
Approach Delay, s/veh		75.2			88.8			63.7			56.1	
Approach LOS		E			F			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.0	52.3	20.3	42.3	20.0	66.3	24.0	38.6
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	30.0	46.5	18.0	* 37	16.0	60.5	20.0	* 35
Max Q Clear Time (g_c+I2), s	32.0	46.8	16.2	26.2	16.7	52.7	22.0	33.7
Green Ext Time (p_c), s	0.0	0.0	0.1	2.3	0.0	6.5	0.0	0.2

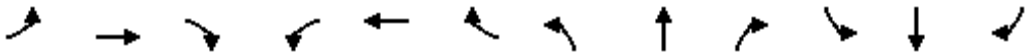
Intersection Summary	
HCM 6th Ctrl Delay	64.6
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Kimley»Horn

H. Cumulative Plus Project (Mitigated) Conditions Synchro Outputs



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Future Volume (veh/h)	213	252	33	20	450	346	163	176	98	136	68	269
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	213	252	33	20	450	346	163	176	98	136	68	269
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	300	444	198	372	957	427	197	558	296	211	354	316
Arrive On Green	0.10	0.14	0.14	0.23	0.30	0.30	0.12	0.28	0.28	0.07	0.22	0.22
Sat Flow, veh/h	3100	3188	1422	1598	3188	1422	1598	2012	1068	3100	1594	1422
Grp Volume(v), veh/h	213	252	33	20	450	346	163	138	136	136	68	269
Grp Sat Flow(s),veh/h/ln	1550	1594	1422	1598	1594	1422	1598	1594	1486	1550	1594	1422
Q Serve(g_s), s	4.8	5.3	1.1	0.7	8.3	16.2	7.2	4.9	5.2	3.1	2.5	13.0
Cycle Q Clear(g_c), s	4.8	5.3	1.1	0.7	8.3	16.2	7.2	4.9	5.2	3.1	2.5	13.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.72	1.00		1.00
Lane Grp Cap(c), veh/h	300	444	198	372	957	427	197	442	412	211	354	316
V/C Ratio(X)	0.71	0.57	0.17	0.05	0.47	0.81	0.83	0.31	0.33	0.64	0.19	0.85
Avail Cap(c_a), veh/h	496	1140	509	372	1140	509	233	442	412	453	417	372
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.5	28.9	15.8	21.4	20.5	23.3	30.8	20.5	20.7	32.6	22.7	26.8
Incr Delay (d2), s/veh	3.1	1.6	0.6	0.1	0.5	9.1	18.6	0.6	0.7	3.3	0.4	16.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	2.0	0.5	0.2	2.8	6.1	3.7	1.8	1.8	1.2	0.9	5.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.5	30.5	16.4	21.5	21.0	32.4	49.4	21.1	21.3	35.9	23.1	43.0
LnGrp LOS	C	C	B	C	C	C	D	C	C	D	C	D
Approach Vol, veh/h		498			816			437			473	
Approach Delay, s/veh		31.3			25.8			31.7			38.1	
Approach LOS		C			C			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.5	15.8	8.9	24.6	11.0	27.4	12.9	20.7
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	11.5	* 26	10.5	* 19	11.5	25.7	10.5	* 19
Max Q Clear Time (g_c+I1), s	2.7	7.3	5.1	7.2	6.8	18.2	9.2	15.0
Green Ext Time (p_c), s	0.0	2.0	0.2	1.6	0.3	3.4	0.1	0.9

Intersection Summary	
HCM 6th Ctrl Delay	30.8
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129
Future Volume (veh/h)	84	159	93	80	994	22	38	32	10	87	1	129
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	84	159	93	80	994	22	38	32	10	87	1	129
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	105	1084	860	96	1064	844	55	348	155	109	454	203
Arrive On Green	0.06	0.58	0.58	0.06	0.57	0.57	0.03	0.10	0.10	0.07	0.14	0.14
Sat Flow, veh/h	1668	1870	1485	1668	1870	1485	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	84	159	93	80	994	22	38	32	10	87	1	129
Grp Sat Flow(s),veh/h/ln	1668	1870	1485	1668	1870	1485	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	4.8	3.7	2.7	4.5	46.8	0.6	2.2	0.8	0.6	4.9	0.0	7.9
Cycle Q Clear(g_c), s	4.8	3.7	2.7	4.5	46.8	0.6	2.2	0.8	0.6	4.9	0.0	7.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	105	1084	860	96	1064	844	55	348	155	109	454	203
V/C Ratio(X)	0.80	0.15	0.11	0.83	0.93	0.03	0.69	0.09	0.06	0.80	0.00	0.64
Avail Cap(c_a), veh/h	110	1184	940	96	1159	920	98	654	292	115	689	307
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	9.2	9.0	44.6	19.0	9.0	45.8	38.7	38.6	44.1	35.7	39.1
Incr Delay (d2), s/veh	31.8	0.1	0.1	44.0	13.0	0.0	13.9	0.1	0.2	30.6	0.0	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	1.5	0.8	3.0	22.0	0.2	1.1	0.3	0.2	2.9	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.0	9.3	9.1	88.6	32.0	9.0	59.7	38.9	38.8	74.7	35.7	42.4
LnGrp LOS	E	A	A	F	C	A	E	D	D	E	D	D
Approach Vol, veh/h		336			1096			80			217	
Approach Delay, s/veh		25.9			35.7			48.7			55.3	
Approach LOS		C			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	15.8	9.5	60.2	7.2	18.9	10.5	59.1
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	6.6	18.8	5.5	* 61	5.6	19.8	6.3	* 59
Max Q Clear Time (g_c+I1), s	6.9	2.8	6.5	5.7	4.2	9.9	6.8	48.8
Green Ext Time (p_c), s	0.0	0.1	0.0	1.3	0.0	0.2	0.0	5.6

Intersection Summary	
HCM 6th Ctrl Delay	36.8
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48
Future Volume (veh/h)	7	3	17	204	1	433	127	1713	20	251	1020	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	3	17	204	1	433	127	1713	20	251	1020	48
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	16	22	122	245	406	344	161	2146	666	334	2295	712
Arrive On Green	0.01	0.09	0.09	0.14	0.22	0.22	0.09	0.42	0.42	0.10	0.45	0.45
Sat Flow, veh/h	1781	243	1379	1781	1870	1585	1781	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	7	0	20	204	1	433	127	1713	20	251	1020	48
Grp Sat Flow(s),veh/h/ln	1781	0	1622	1781	1870	1585	1781	1702	1585	1728	1702	1585
Q Serve(g_s), s	0.3	0.0	0.9	8.8	0.0	12.1	5.5	23.1	0.3	5.6	10.9	1.4
Cycle Q Clear(g_c), s	0.3	0.0	0.9	8.8	0.0	12.1	5.5	23.1	0.3	5.6	10.9	1.4
Prop In Lane	1.00		0.85	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	16	0	144	245	406	344	161	2146	666	334	2295	712
V/C Ratio(X)	0.44	0.00	0.14	0.83	0.00	1.26	0.79	0.80	0.03	0.75	0.44	0.07
Avail Cap(c_a), veh/h	124	0	718	270	982	832	255	2325	722	371	2295	712
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.0	0.0	33.3	33.2	24.2	15.5	35.2	20.0	4.0	34.8	15.0	12.4
Incr Delay (d2), s/veh	17.5	0.0	0.4	18.0	0.0	122.0	8.3	1.9	0.0	7.5	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.4	4.9	0.0	15.7	2.7	8.8	0.2	2.6	3.9	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	56.5	0.0	33.7	51.2	24.2	137.4	43.5	21.9	4.1	42.3	15.1	12.4
LnGrp LOS	E	A	C	D	C	F	D	C	A	D	B	B
Approach Vol, veh/h		27			638			1860			1319	
Approach Delay, s/veh		39.6			109.7			23.2			20.2	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	39.0	14.9	11.7	11.1	41.3	4.7	21.9
Change Period (Y+Rc), s	5.8	* 5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	8.5	* 36	12.0	* 35	11.3	33.2	5.5	* 42
Max Q Clear Time (g_c+I1), s	7.6	25.1	10.8	2.9	7.5	12.9	2.3	14.1
Green Ext Time (p_c), s	0.1	8.1	0.1	0.1	0.1	7.6	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	36.6
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	12	15	25	10	214	113	452	98	321	1127	91
Future Volume (veh/h)	24	12	15	25	10	214	113	452	98	321	1127	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	24	12	15	25	10	214	113	452	98	321	1127	91
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	44	316	268	89	317	269	141	1054	470	385	1680	522
Arrive On Green	0.03	0.19	0.19	0.03	0.19	0.19	0.09	0.33	0.33	0.12	0.37	0.37
Sat Flow, veh/h	1598	1678	1422	3100	1678	1422	1598	3188	1422	3100	4580	1422
Grp Volume(v), veh/h	24	12	15	25	10	214	113	452	98	321	1127	91
Grp Sat Flow(s),veh/h/ln	1598	1678	1422	1550	1678	1422	1598	1594	1422	1550	1527	1422
Q Serve(g_s), s	0.8	0.3	0.5	0.4	0.3	8.1	3.9	6.2	2.8	5.7	11.6	2.4
Cycle Q Clear(g_c), s	0.8	0.3	0.5	0.4	0.3	8.1	3.9	6.2	2.8	5.7	11.6	2.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	44	316	268	89	317	269	141	1054	470	385	1680	522
V/C Ratio(X)	0.54	0.04	0.06	0.28	0.03	0.80	0.80	0.43	0.21	0.83	0.67	0.17
Avail Cap(c_a), veh/h	170	893	757	275	863	731	255	1668	744	385	2234	694
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.0	18.7	18.8	26.8	18.6	21.8	25.2	14.7	13.6	24.1	15.0	12.1
Incr Delay (d2), s/veh	9.8	0.0	0.1	1.7	0.0	5.3	10.1	0.3	0.2	14.5	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.1	0.2	0.2	0.1	2.9	1.8	2.0	0.8	2.7	3.6	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.9	18.8	18.9	28.5	18.7	27.1	35.4	15.0	13.8	38.7	15.5	12.2
LnGrp LOS	D	B	B	C	B	C	D	B	B	D	B	B
Approach Vol, veh/h		51			249			663			1539	
Approach Delay, s/veh		27.3			26.9			18.3			20.1	
Approach LOS		C			C			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	26.5	5.6	15.3	11.0	24.4	5.6	15.4
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	5.0	27.5	5.0	* 30	7.0	29.5	6.0	* 29
Max Q Clear Time (g_c+I1), s	5.9	13.6	2.4	2.5	7.7	8.2	2.8	10.1
Green Ext Time (p_c), s	0.1	7.0	0.0	0.1	0.0	3.4	0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	20.5
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	344	270	180	200	277	320	284	709	210	217	1139	405
Future Volume (veh/h)	344	270	180	200	277	320	284	709	210	217	1139	405
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	344	270	180	200	277	320	284	709	210	217	1139	405
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	350	721	465	258	416	352	286	1477	364	242	1317	324
Arrive On Green	0.21	0.37	0.37	0.08	0.24	0.24	0.17	0.25	0.25	0.14	0.22	0.22
Sat Flow, veh/h	1668	1939	1252	3237	1752	1485	1668	6026	1485	1668	6026	1485
Grp Volume(v), veh/h	344	230	220	200	277	320	284	709	210	217	1139	405
Grp Sat Flow(s),veh/h/ln	1668	1664	1527	1618	1752	1485	1668	1507	1485	1668	1507	1485
Q Serve(g_s), s	23.9	11.8	12.3	7.1	16.7	24.5	19.8	11.7	14.5	14.9	21.3	25.5
Cycle Q Clear(g_c), s	23.9	11.8	12.3	7.1	16.7	24.5	19.8	11.7	14.5	14.9	21.3	25.5
Prop In Lane	1.00		0.82	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	350	619	568	258	416	352	286	1477	364	242	1317	324
V/C Ratio(X)	0.98	0.37	0.39	0.78	0.67	0.91	0.99	0.48	0.58	0.90	0.86	1.25
Avail Cap(c_a), veh/h	350	619	568	369	465	394	286	1477	364	242	1317	324
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.9	26.7	26.9	52.7	40.3	43.3	48.3	37.7	38.7	49.1	43.9	45.6
Incr Delay (d2), s/veh	43.1	0.4	0.4	6.4	3.1	22.9	51.3	0.2	2.2	32.4	6.3	134.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.0	4.7	4.6	3.1	7.5	11.1	12.3	4.4	5.5	8.4	8.5	21.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	89.0	27.1	27.3	59.1	43.4	66.2	99.5	37.9	41.0	81.4	50.2	180.5
LnGrp LOS	F	C	C	E	D	E	F	D	D	F	D	F
Approach Vol, veh/h		794			797			1203			1761	
Approach Delay, s/veh		54.0			56.5			53.0			84.0	
Approach LOS		D			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.9	34.4	13.3	48.1	24.0	31.3	29.0	32.4
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	16.9	28.6	13.3	* 43	20.0	25.5	24.5	* 31
Max Q Clear Time (g_c+I1), s	18.9	16.5	9.1	14.3	21.8	27.5	25.9	26.5
Green Ext Time (p_c), s	0.0	4.5	0.2	3.0	0.0	0.0	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	65.8
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	600	70	180	1350	10	70	60	130	10	130	10
Future Volume (veh/h)	10	600	70	180	1350	10	70	60	130	10	130	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1870	1870	1870	1752	1752	1870	1870	1752	1752
Adj Flow Rate, veh/h	10	600	70	180	1350	10	70	60	130	10	130	10
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	2	2	2	10	10	2	2	10	10
Cap, veh/h	21	1460	425	229	2005	622	210	797	379	23	420	187
Arrive On Green	0.01	0.29	0.29	0.13	0.39	0.39	0.13	0.24	0.24	0.01	0.13	0.13
Sat Flow, veh/h	1668	5106	1485	1781	5106	1585	1668	3328	1585	1781	3328	1485
Grp Volume(v), veh/h	10	600	70	180	1350	10	70	60	130	10	130	10
Grp Sat Flow(s),veh/h/ln	1668	1702	1485	1781	1702	1585	1668	1664	1585	1781	1664	1485
Q Serve(g_s), s	0.3	5.3	2.0	5.4	12.1	0.2	2.1	0.8	3.8	0.3	2.0	0.3
Cycle Q Clear(g_c), s	0.3	5.3	2.0	5.4	12.1	0.2	2.1	0.8	3.8	0.3	2.0	0.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	21	1460	425	229	2005	622	210	797	379	23	420	187
V/C Ratio(X)	0.47	0.41	0.16	0.79	0.67	0.02	0.33	0.08	0.34	0.44	0.31	0.05
Avail Cap(c_a), veh/h	150	1950	567	369	2502	777	863	3496	1665	176	2105	939
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.2	16.0	14.9	23.4	13.9	10.3	22.1	16.4	17.5	27.2	22.1	21.3
Incr Delay (d2), s/veh	14.9	0.2	0.2	5.9	0.5	0.0	0.9	0.0	0.5	12.5	0.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	1.9	0.6	2.5	4.1	0.1	0.8	0.3	1.3	0.2	0.7	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.1	16.2	15.0	29.3	14.4	10.3	23.0	16.4	18.0	39.7	22.5	21.5
LnGrp LOS	D	B	B	C	B	B	C	B	B	D	C	C
Approach Vol, veh/h		680			1540			260			150	
Approach Delay, s/veh		16.5			16.1			19.0			23.6	
Approach LOS		B			B			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.7	18.0	11.1	21.7	11.0	11.7	5.2	27.6
Change Period (Y+Rc), s	4.0	* 4.7	4.0	5.8	4.0	* 4.7	4.5	5.8
Max Green Setting (Gmax), s	5.5	* 58	11.5	21.2	28.7	* 35	5.0	27.2
Max Q Clear Time (g_c+I1), s	2.3	5.8	7.4	7.3	4.1	4.0	2.3	14.1
Green Ext Time (p_c), s	0.0	0.8	0.2	3.7	0.2	0.8	0.0	7.7

Intersection Summary	
HCM 6th Ctrl Delay	16.9
HCM 6th LOS	B

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	200	183	528	753	106	307	157	418	20	250	13
Future Volume (veh/h)	37	200	183	528	753	106	307	157	418	20	250	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	37	200	183	528	753	106	307	157	418	20	250	13
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	10	10	10	10	10	10	10	10	10	10	10
Cap, veh/h	62	606	270	631	996	140	397	570	483	39	395	335
Arrive On Green	0.04	0.18	0.18	0.19	0.34	0.34	0.12	0.33	0.33	0.02	0.23	0.23
Sat Flow, veh/h	1668	3328	1485	3237	2930	412	3237	1752	1485	1668	1752	1485
Grp Volume(v), veh/h	37	200	183	528	428	431	307	157	418	20	250	13
Grp Sat Flow(s),veh/h/ln	1668	1664	1485	1618	1664	1678	1618	1752	1485	1668	1752	1485
Q Serve(g_s), s	1.5	3.5	7.7	10.6	15.4	15.4	6.2	4.5	17.8	0.8	8.7	0.5
Cycle Q Clear(g_c), s	1.5	3.5	7.7	10.6	15.4	15.4	6.2	4.5	17.8	0.8	8.7	0.5
Prop In Lane	1.00		1.00	1.00		0.25	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	606	270	631	566	570	397	570	483	39	395	335
V/C Ratio(X)	0.60	0.33	0.68	0.84	0.76	0.76	0.77	0.28	0.87	0.52	0.63	0.04
Avail Cap(c_a), veh/h	168	1384	617	721	894	902	432	850	721	144	767	650
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.9	24.0	25.7	26.1	19.7	19.8	28.6	16.8	21.3	32.5	23.6	20.4
Incr Delay (d2), s/veh	8.9	0.3	2.9	7.7	2.1	2.1	7.8	0.3	7.3	10.3	1.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	1.3	2.8	4.5	5.8	5.8	2.7	1.7	6.6	0.4	3.6	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.9	24.3	28.6	33.8	21.8	21.8	36.5	17.1	28.7	42.8	25.2	20.4
LnGrp LOS	D	C	C	C	C	C	D	B	C	D	C	C
Approach Vol, veh/h		420			1387			882			283	
Approach Delay, s/veh		27.6			26.4			29.3			26.3	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.6	27.7	17.1	17.0	12.3	21.0	6.5	27.6
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	5.8	32.7	15.0	* 28	9.0	29.5	6.8	* 36
Max Q Clear Time (g_c+I2), s	2.8	19.8	12.6	9.7	8.2	10.7	3.5	17.4
Green Ext Time (p_c), s	0.0	2.1	0.6	1.8	0.1	1.4	0.0	5.5

Intersection Summary	
HCM 6th Ctrl Delay	27.4
HCM 6th LOS	C

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	120	13	147	437	142	357	471	1184	130	78	875	284
Future Volume (veh/h)	120	13	147	437	142	357	471	1184	130	78	875	284
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1870	1870	1870	1752	1752	1870	1870	1752	1752
Adj Flow Rate, veh/h	120	13	147	437	142	357	471	1184	130	78	875	284
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	2	2	2	10	10	2	2	10	10
Cap, veh/h	156	439	183	476	1029	459	542	1735	575	161	1157	359
Arrive On Green	0.09	0.12	0.12	0.27	0.29	0.29	0.17	0.36	0.36	0.05	0.24	0.24
Sat Flow, veh/h	1668	3554	1485	1781	3554	1585	3237	4782	1585	3456	4782	1485
Grp Volume(v), veh/h	120	13	147	437	142	357	471	1184	130	78	875	284
Grp Sat Flow(s),veh/h/ln	1668	1777	1485	1781	1777	1585	1618	1594	1585	1728	1594	1485
Q Serve(g_s), s	6.5	0.3	8.9	22.1	2.7	19.1	13.1	19.4	5.3	2.0	15.7	16.6
Cycle Q Clear(g_c), s	6.5	0.3	8.9	22.1	2.7	19.1	13.1	19.4	5.3	2.0	15.7	16.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	156	439	183	476	1029	459	542	1735	575	161	1157	359
V/C Ratio(X)	0.77	0.03	0.80	0.92	0.14	0.78	0.87	0.68	0.23	0.48	0.76	0.79
Avail Cap(c_a), veh/h	308	1343	561	558	1772	791	594	1936	642	187	1316	409
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.0	35.7	39.5	33.0	24.4	30.2	37.6	25.0	20.5	43.1	32.6	32.9
Incr Delay (d2), s/veh	7.7	0.0	7.9	18.6	0.1	2.9	12.3	0.9	0.2	2.2	2.2	9.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.1	3.6	11.7	1.1	7.5	6.0	7.2	1.9	0.9	6.2	6.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.7	35.7	47.4	51.6	24.4	33.1	49.9	25.9	20.7	45.3	34.8	41.9
LnGrp LOS	D	D	D	D	C	C	D	C	C	D	C	D
Approach Vol, veh/h		280			936			1785			1237	
Approach Delay, s/veh		47.4			40.4			31.8			37.1	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	39.4	28.8	16.1	19.5	28.2	13.4	31.5
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	* 4.7	* 4.7
Max Green Setting (Gmax), s	5.0	37.5	29.0	* 35	17.0	25.5	* 17	* 46
Max Q Clear Time (g_c+I1), s	4.0	21.4	24.1	10.9	15.1	18.6	8.5	21.1
Green Ext Time (p_c), s	0.0	8.2	0.7	0.5	0.4	3.8	0.2	2.2

Intersection Summary	
HCM 6th Ctrl Delay	36.3
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Future Volume (veh/h)	338	559	372	173	230	288	49	366	62	506	728	353
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	338	559	372	173	230	288	49	366	62	506	728	353
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	15	15	15	15	15	15	15	15	15	15	15	15
Cap, veh/h	403	619	484	172	581	452	90	569	95	610	725	351
Arrive On Green	0.13	0.37	0.34	0.11	0.35	0.32	0.06	0.21	0.19	0.20	0.35	0.33
Sat Flow, veh/h	3100	1678	1422	1598	1678	1422	1598	2731	458	3100	2082	1008
Grp Volume(v), veh/h	338	559	372	173	230	288	49	212	216	506	557	524
Grp Sat Flow(s),veh/h/ln	1550	1678	1422	1598	1678	1422	1598	1594	1595	1550	1594	1496
Q Serve(g_s), s	9.4	27.9	20.7	9.5	9.2	15.3	2.6	10.8	11.0	13.9	30.8	30.8
Cycle Q Clear(g_c), s	9.4	27.9	20.7	9.5	9.2	15.3	2.6	10.8	11.0	13.9	30.8	30.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.29	1.00		0.67
Lane Grp Cap(c), veh/h	403	619	484	172	581	452	90	332	332	610	555	521
V/C Ratio(X)	0.84	0.90	0.77	1.01	0.40	0.64	0.54	0.64	0.65	0.83	1.00	1.00
Avail Cap(c_a), veh/h	403	621	486	172	583	454	117	357	357	614	555	521
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.5	26.4	26.0	39.4	21.9	25.8	40.6	32.0	32.2	34.1	28.8	29.3
Incr Delay (d2), s/veh	14.4	16.9	7.8	70.6	0.6	3.4	5.0	4.1	4.4	9.3	39.0	40.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	12.9	7.7	6.9	3.4	5.4	1.1	4.4	4.6	5.9	17.2	16.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.9	43.3	33.8	110.1	22.5	29.2	45.6	36.1	36.7	43.4	67.8	69.9
LnGrp LOS	D	D	C	F	C	C	D	D	D	D	F	F
Approach Vol, veh/h		1269			691			477			1587	
Approach Delay, s/veh		42.8			47.2			37.3			60.7	
Approach LOS		D			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	35.9	19.9	21.6	13.0	33.9	7.5	34.0
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	7.0	30.2	16.0	* 18	9.0	28.2	5.0	* 29
Max Q Clear Time (g_c+I1), s	11.5	29.9	15.9	13.0	11.4	17.3	4.6	32.8
Green Ext Time (p_c), s	0.0	0.2	0.0	1.5	0.0	2.7	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	50.0
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Future Volume (veh/h)	286	389	344	138	168	107	93	61	86	378	345	413
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1752	1870	1752	1752	1870	1752	1752	1752	1752	1752	1752	1752
Adj Flow Rate, veh/h	286	389	344	138	168	107	93	61	86	378	345	413
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	10	2	10	10	2	10	10	10	10	10	10	10
Cap, veh/h	297	538	414	171	397	302	117	530	236	412	1119	499
Arrive On Green	0.18	0.29	0.28	0.10	0.21	0.20	0.07	0.16	0.16	0.25	0.34	0.34
Sat Flow, veh/h	1668	1870	1485	1668	1870	1485	1668	3328	1485	1668	3328	1485
Grp Volume(v), veh/h	286	389	344	138	168	107	93	61	86	378	345	413
Grp Sat Flow(s),veh/h/ln	1668	1870	1485	1668	1870	1485	1668	1664	1485	1668	1664	1485
Q Serve(g_s), s	13.4	14.7	17.1	6.4	6.1	4.9	4.3	1.2	4.1	17.4	6.0	20.1
Cycle Q Clear(g_c), s	13.4	14.7	17.1	6.4	6.1	4.9	4.3	1.2	4.1	17.4	6.0	20.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	297	538	414	171	397	302	117	530	236	412	1119	499
V/C Ratio(X)	0.96	0.72	0.83	0.81	0.42	0.35	0.79	0.12	0.36	0.92	0.31	0.83
Avail Cap(c_a), veh/h	297	730	566	254	682	528	195	901	402	424	1358	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.1	25.2	26.6	34.6	26.8	26.9	36.0	28.3	29.5	28.8	19.4	24.0
Incr Delay (d2), s/veh	42.3	2.3	7.5	11.1	0.7	0.7	11.3	0.1	0.9	24.2	0.2	7.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.7	6.6	6.6	3.0	2.7	1.7	2.1	0.5	1.5	9.4	2.3	7.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.4	27.5	34.1	45.6	27.5	27.6	47.3	28.4	30.5	53.1	19.5	31.9
LnGrp LOS	E	C	C	D	C	C	D	C	C	D	B	C
Approach Vol, veh/h		1019			413			240			1136	
Approach Delay, s/veh		42.9			33.6			36.5			35.2	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.4	16.5	12.1	26.7	9.5	30.4	18.0	20.7
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.5	* 4.7
Max Green Setting (Gmax), s	20.0	19.5	12.0	* 30	9.2	30.3	13.5	* 28
Max Q Clear Time (g_c+I1), s	19.4	6.1	8.4	19.1	6.3	22.1	15.4	8.1
Green Ext Time (p_c), s	0.1	0.5	0.1	2.8	0.0	2.5	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	37.9
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47
Future Volume (veh/h)	244	322	285	172	3	344	177	1573	179	373	1887	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	259	509	431	199	446	378	187	1909	593	391	1950	605
Arrive On Green	0.15	0.27	0.27	0.11	0.24	0.24	0.10	0.37	0.37	0.11	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	244	322	285	172	3	344	177	1573	179	373	1887	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1702	1585	1728	1702	1585
Q Serve(g_s), s	16.8	18.7	19.8	11.8	0.2	26.1	12.2	34.5	9.9	13.3	44.9	2.3
Cycle Q Clear(g_c), s	16.8	18.7	19.8	11.8	0.2	26.1	12.2	34.5	9.9	13.3	44.9	2.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	259	509	431	199	446	378	187	1909	593	391	1950	605
V/C Ratio(X)	0.94	0.63	0.66	0.86	0.01	0.91	0.95	0.82	0.30	0.95	0.97	0.08
Avail Cap(c_a), veh/h	259	569	482	230	539	457	187	1909	593	391	1950	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.4	39.6	40.0	54.1	36.0	45.8	55.1	35.1	27.4	54.6	37.5	24.4
Incr Delay (d2), s/veh	40.5	1.9	2.9	24.6	0.0	19.7	50.5	3.1	0.3	33.9	13.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	8.9	8.0	6.6	0.1	12.3	8.1	14.7	3.8	7.6	20.8	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	92.9	41.6	42.9	78.7	36.0	65.6	105.6	38.2	27.7	88.5	51.1	24.4
LnGrp LOS	F	D	D	E	D	E	F	D	C	F	D	C
Approach Vol, veh/h		851			519			1929			2307	
Approach Delay, s/veh		56.7			69.8			43.4			56.6	
Approach LOS		E			E			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	50.3	17.9	37.7	17.0	51.3	22.0	33.6
Change Period (Y+Rc), s	4.0	5.8	4.0	* 4.7	4.0	5.8	4.0	* 4.7
Max Green Setting (Gmax), s	14.0	44.5	16.0	* 37	13.0	45.5	18.0	* 35
Max Q Clear Time (g_c+I1), s	15.3	36.5	13.8	21.8	14.2	46.9	18.8	28.1
Green Ext Time (p_c), s	0.0	6.1	0.1	2.6	0.0	0.0	0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	53.3
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Kimley»Horn

I. Truck Queuing Analysis

Truck Entry Queuing with 3 lanes (no bypass lane)

Hour	Arrivals	Cumulative Arrivals	Departures	Cumulative Departures	Queue	Length
-60	0	0	0	0	0	0
-30	6	6	10	6	0	0
0	6	12	10	12	0	0
30	20	32	10	22	10	750
60	20	52	10	32	20	1500
90	14	66	10	42	24	1800
120	14	80	10	52	28	2100
150	10	90	10	62	28	2100
180	10	100	10	72	28	2100

Truck Entry Queuing with 2 lanes plus bypass lane

Hour	Arrivals	Cumulative Arrivals	Departures	Cumulative Departures	Queue	Length
-60	0	0	0	0	0	0
-30	5	5	10	5	0	0
0	5	10	10	10	0	0
30	15	25	10	20	5	375
60	15	40	10	30	10	750
90	10	50	10	40	10	750
120	10	60	10	50	10	750
150	8	68	10	60	8	600
180	8	76	10	70	6	450

Kimley»Horn

J. Old Schulte Road Merge Simtraffic Analysis

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	T	R	L	T	T	R	L	TR	L	T
Maximum Queue (ft)	154	70	61	35	28	250	226	86	66	62	150	46
Average Queue (ft)	73	17	11	4	6	131	97	35	11	11	64	7
95th Queue (ft)	134	51	37	19	22	216	196	68	39	36	127	29
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	SB
Directions Served	R
Maximum Queue (ft)	131
Average Queue (ft)	55
95th Queue (ft)	107
Link Distance (ft)	1033
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Bend

Movement	WB	WB
Directions Served	T	
Maximum Queue (ft)	232	122
Average Queue (ft)	30	11
95th Queue (ft)	148	69
Link Distance (ft)	364	364
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	T	R	L	T	T	R	L	TR	L	T
Maximum Queue (ft)	159	101	97	35	49	264	231	73	53	59	154	53
Average Queue (ft)	72	39	32	4	6	133	91	36	13	11	64	6
95th Queue (ft)	140	82	76	19	29	217	181	64	42	37	129	28
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	SB
Directions Served	R
Maximum Queue (ft)	132
Average Queue (ft)	51
95th Queue (ft)	101
Link Distance (ft)	1033
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Bend

Movement	WB	WB
Directions Served	T	
Maximum Queue (ft)	304	143
Average Queue (ft)	42	13
95th Queue (ft)	174	71
Link Distance (ft)	364	364
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	T	R	L	T	T	R	L	TR	L	T
Maximum Queue (ft)	189	132	128	29	41	269	216	88	61	43	147	42
Average Queue (ft)	80	45	43	3	6	136	96	38	14	11	65	5
95th Queue (ft)	148	99	94	17	26	218	189	69	44	35	121	23
Link Distance (ft)		364	364			1325	1325			655		1033
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	300			300	380			380	435		280	
Storage Blk Time (%)						0						
Queuing Penalty (veh)						0						

Intersection: 6: Old Schulte Road & Iron Horse Parkway

Movement	SB
Directions Served	R
Maximum Queue (ft)	133
Average Queue (ft)	55
95th Queue (ft)	107
Link Distance (ft)	1033
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Bend

Movement	WB	WB
Directions Served	T	
Maximum Queue (ft)	309	270
Average Queue (ft)	39	18
95th Queue (ft)	165	100
Link Distance (ft)	364	364
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 0

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Appendix 3 – AERMOD Output Files:

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/13/2023
** File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\Tracy
Costco V3\Tracy Costco V3.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
  TITLEONE C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C
  MODELOPT CONC
  AVERTIME 1 PERIOD
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL "Tracy Costco V3.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 = SLINE2
** DESCRSRC Off-site Mobile (Exit headed west)
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 631461.238, 4175990.714, 50.99, 4.00, 1.70
** 630318.270, 4175998.025, 62.46, 4.00, 1.70
** ------------------------------------------------------------------
  LOCATION L0003950    VOLUME   631459.410 4175990.726 50.98
  LOCATION L0003951    VOLUME   631455.752 4175990.749 51.01
  LOCATION L0003952    VOLUME   631452.094 4175990.773 51.05
  LOCATION L0003953    VOLUME   631448.437 4175990.796 51.09
  LOCATION L0003954    VOLUME   631444.779 4175990.820 51.13
```

LOCATION L0003955 VOLUME 631441.122 4175990.843 51.16
LOCATION L0003956 VOLUME 631437.464 4175990.866 51.20
LOCATION L0003957 VOLUME 631433.807 4175990.890 51.24
LOCATION L0003958 VOLUME 631430.149 4175990.913 51.28
LOCATION L0003959 VOLUME 631426.492 4175990.937 51.31
LOCATION L0003960 VOLUME 631422.834 4175990.960 51.35
LOCATION L0003961 VOLUME 631419.177 4175990.983 51.39
LOCATION L0003962 VOLUME 631415.519 4175991.007 51.42
LOCATION L0003963 VOLUME 631411.862 4175991.030 51.46
LOCATION L0003964 VOLUME 631408.204 4175991.054 51.50
LOCATION L0003965 VOLUME 631404.547 4175991.077 51.53
LOCATION L0003966 VOLUME 631400.889 4175991.100 51.57
LOCATION L0003967 VOLUME 631397.232 4175991.124 51.61
LOCATION L0003968 VOLUME 631393.574 4175991.147 51.64
LOCATION L0003969 VOLUME 631389.917 4175991.171 51.68
LOCATION L0003970 VOLUME 631386.259 4175991.194 51.71
LOCATION L0003971 VOLUME 631382.602 4175991.217 51.75
LOCATION L0003972 VOLUME 631378.944 4175991.241 51.78
LOCATION L0003973 VOLUME 631375.286 4175991.264 51.82
LOCATION L0003974 VOLUME 631371.629 4175991.287 51.85
LOCATION L0003975 VOLUME 631367.971 4175991.311 51.89
LOCATION L0003976 VOLUME 631364.314 4175991.334 51.92
LOCATION L0003977 VOLUME 631360.656 4175991.358 51.96
LOCATION L0003978 VOLUME 631356.999 4175991.381 51.99
LOCATION L0003979 VOLUME 631353.341 4175991.404 52.03
LOCATION L0003980 VOLUME 631349.684 4175991.428 52.06
LOCATION L0003981 VOLUME 631346.026 4175991.451 52.10
LOCATION L0003982 VOLUME 631342.369 4175991.475 52.13
LOCATION L0003983 VOLUME 631338.711 4175991.498 52.16
LOCATION L0003984 VOLUME 631335.054 4175991.521 52.20
LOCATION L0003985 VOLUME 631331.396 4175991.545 52.23
LOCATION L0003986 VOLUME 631327.739 4175991.568 52.26
LOCATION L0003987 VOLUME 631324.081 4175991.592 52.30
LOCATION L0003988 VOLUME 631320.424 4175991.615 52.33
LOCATION L0003989 VOLUME 631316.766 4175991.638 52.37
LOCATION L0003990 VOLUME 631313.109 4175991.662 52.40
LOCATION L0003991 VOLUME 631309.451 4175991.685 52.43
LOCATION L0003992 VOLUME 631305.793 4175991.709 52.47
LOCATION L0003993 VOLUME 631302.136 4175991.732 52.50
LOCATION L0003994 VOLUME 631298.478 4175991.755 52.54
LOCATION L0003995 VOLUME 631294.821 4175991.779 52.58
LOCATION L0003996 VOLUME 631291.163 4175991.802 52.62
LOCATION L0003997 VOLUME 631287.506 4175991.826 52.67
LOCATION L0003998 VOLUME 631283.848 4175991.849 52.71
LOCATION L0003999 VOLUME 631280.191 4175991.872 52.75
LOCATION L0004000 VOLUME 631276.533 4175991.896 52.78
LOCATION L0004001 VOLUME 631272.876 4175991.919 52.80
LOCATION L0004002 VOLUME 631269.218 4175991.943 52.82
LOCATION L0004003 VOLUME 631265.561 4175991.966 52.84
LOCATION L0004004 VOLUME 631261.903 4175991.989 52.86
LOCATION L0004005 VOLUME 631258.246 4175992.013 52.88
LOCATION L0004006 VOLUME 631254.588 4175992.036 52.90
LOCATION L0004007 VOLUME 631250.931 4175992.060 52.91
LOCATION L0004008 VOLUME 631247.273 4175992.083 52.91
LOCATION L0004009 VOLUME 631243.616 4175992.106 52.91
LOCATION L0004010 VOLUME 631239.958 4175992.130 52.91

LOCATION L0004011 VOLUME 631236.301 4175992.153 52.92
LOCATION L0004012 VOLUME 631232.643 4175992.177 52.92
LOCATION L0004013 VOLUME 631228.985 4175992.200 52.92
LOCATION L0004014 VOLUME 631225.328 4175992.223 52.94
LOCATION L0004015 VOLUME 631221.670 4175992.247 52.95
LOCATION L0004016 VOLUME 631218.013 4175992.270 52.97
LOCATION L0004017 VOLUME 631214.355 4175992.293 52.98
LOCATION L0004018 VOLUME 631210.698 4175992.317 53.00
LOCATION L0004019 VOLUME 631207.040 4175992.340 53.02
LOCATION L0004020 VOLUME 631203.383 4175992.364 53.03
LOCATION L0004021 VOLUME 631199.725 4175992.387 53.06
LOCATION L0004022 VOLUME 631196.068 4175992.410 53.08
LOCATION L0004023 VOLUME 631192.410 4175992.434 53.11
LOCATION L0004024 VOLUME 631188.753 4175992.457 53.13
LOCATION L0004025 VOLUME 631185.095 4175992.481 53.15
LOCATION L0004026 VOLUME 631181.438 4175992.504 53.18
LOCATION L0004027 VOLUME 631177.780 4175992.527 53.19
LOCATION L0004028 VOLUME 631174.123 4175992.551 53.21
LOCATION L0004029 VOLUME 631170.465 4175992.574 53.22
LOCATION L0004030 VOLUME 631166.808 4175992.598 53.24
LOCATION L0004031 VOLUME 631163.150 4175992.621 53.25
LOCATION L0004032 VOLUME 631159.492 4175992.644 53.27
LOCATION L0004033 VOLUME 631155.835 4175992.668 53.28
LOCATION L0004034 VOLUME 631152.177 4175992.691 53.30
LOCATION L0004035 VOLUME 631148.520 4175992.715 53.31
LOCATION L0004036 VOLUME 631144.862 4175992.738 53.33
LOCATION L0004037 VOLUME 631141.205 4175992.761 53.34
LOCATION L0004038 VOLUME 631137.547 4175992.785 53.36
LOCATION L0004039 VOLUME 631133.890 4175992.808 53.37
LOCATION L0004040 VOLUME 631130.232 4175992.832 53.38
LOCATION L0004041 VOLUME 631126.575 4175992.855 53.39
LOCATION L0004042 VOLUME 631122.917 4175992.878 53.41
LOCATION L0004043 VOLUME 631119.260 4175992.902 53.42
LOCATION L0004044 VOLUME 631115.602 4175992.925 53.43
LOCATION L0004045 VOLUME 631111.945 4175992.949 53.44
LOCATION L0004046 VOLUME 631108.287 4175992.972 53.45
LOCATION L0004047 VOLUME 631104.630 4175992.995 53.47
LOCATION L0004048 VOLUME 631100.972 4175993.019 53.49
LOCATION L0004049 VOLUME 631097.315 4175993.042 53.52
LOCATION L0004050 VOLUME 631093.657 4175993.066 53.54
LOCATION L0004051 VOLUME 631089.999 4175993.089 53.57
LOCATION L0004052 VOLUME 631086.342 4175993.112 53.59
LOCATION L0004053 VOLUME 631082.684 4175993.136 53.62
LOCATION L0004054 VOLUME 631079.027 4175993.159 53.72
LOCATION L0004055 VOLUME 631075.369 4175993.183 53.85
LOCATION L0004056 VOLUME 631071.712 4175993.206 53.98
LOCATION L0004057 VOLUME 631068.054 4175993.229 54.11
LOCATION L0004058 VOLUME 631064.397 4175993.253 54.24
LOCATION L0004059 VOLUME 631060.739 4175993.276 54.37
LOCATION L0004060 VOLUME 631057.082 4175993.300 54.49
LOCATION L0004061 VOLUME 631053.424 4175993.323 54.60
LOCATION L0004062 VOLUME 631049.767 4175993.346 54.71
LOCATION L0004063 VOLUME 631046.109 4175993.370 54.82
LOCATION L0004064 VOLUME 631042.452 4175993.393 54.93
LOCATION L0004065 VOLUME 631038.794 4175993.416 55.04
LOCATION L0004066 VOLUME 631035.137 4175993.440 55.15

LOCATION L0004067 VOLUME 631031.479 4175993.463 55.24
LOCATION L0004068 VOLUME 631027.822 4175993.487 55.31
LOCATION L0004069 VOLUME 631024.164 4175993.510 55.37
LOCATION L0004070 VOLUME 631020.507 4175993.533 55.44
LOCATION L0004071 VOLUME 631016.849 4175993.557 55.50
LOCATION L0004072 VOLUME 631013.191 4175993.580 55.56
LOCATION L0004073 VOLUME 631009.534 4175993.604 55.63
LOCATION L0004074 VOLUME 631005.876 4175993.627 55.68
LOCATION L0004075 VOLUME 631002.219 4175993.650 55.72
LOCATION L0004076 VOLUME 630998.561 4175993.674 55.77
LOCATION L0004077 VOLUME 630994.904 4175993.697 55.81
LOCATION L0004078 VOLUME 630991.246 4175993.721 55.86
LOCATION L0004079 VOLUME 630987.589 4175993.744 55.90
LOCATION L0004080 VOLUME 630983.931 4175993.767 55.94
LOCATION L0004081 VOLUME 630980.274 4175993.791 56.03
LOCATION L0004082 VOLUME 630976.616 4175993.814 56.11
LOCATION L0004083 VOLUME 630972.959 4175993.838 56.19
LOCATION L0004084 VOLUME 630969.301 4175993.861 56.27
LOCATION L0004085 VOLUME 630965.644 4175993.884 56.35
LOCATION L0004086 VOLUME 630961.986 4175993.908 56.44
LOCATION L0004087 VOLUME 630958.329 4175993.931 56.52
LOCATION L0004088 VOLUME 630954.671 4175993.955 56.59
LOCATION L0004089 VOLUME 630951.014 4175993.978 56.67
LOCATION L0004090 VOLUME 630947.356 4175994.001 56.75
LOCATION L0004091 VOLUME 630943.698 4175994.025 56.82
LOCATION L0004092 VOLUME 630940.041 4175994.048 56.90
LOCATION L0004093 VOLUME 630936.383 4175994.072 56.98
LOCATION L0004094 VOLUME 630932.726 4175994.095 57.05
LOCATION L0004095 VOLUME 630929.068 4175994.118 57.13
LOCATION L0004096 VOLUME 630925.411 4175994.142 57.20
LOCATION L0004097 VOLUME 630921.753 4175994.165 57.27
LOCATION L0004098 VOLUME 630918.096 4175994.189 57.35
LOCATION L0004099 VOLUME 630914.438 4175994.212 57.42
LOCATION L0004100 VOLUME 630910.781 4175994.235 57.49
LOCATION L0004101 VOLUME 630907.123 4175994.259 57.57
LOCATION L0004102 VOLUME 630903.466 4175994.282 57.64
LOCATION L0004103 VOLUME 630899.808 4175994.306 57.71
LOCATION L0004104 VOLUME 630896.151 4175994.329 57.78
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LOCATION L0004107 VOLUME 630885.178 4175994.399 58.01
LOCATION L0004108 VOLUME 630881.521 4175994.423 58.08
LOCATION L0004109 VOLUME 630877.863 4175994.446 58.16
LOCATION L0004110 VOLUME 630874.206 4175994.469 58.24
LOCATION L0004111 VOLUME 630870.548 4175994.493 58.32
LOCATION L0004112 VOLUME 630866.890 4175994.516 58.39
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LOCATION L0004117 VOLUME 630848.603 4175994.633 58.86
LOCATION L0004118 VOLUME 630844.945 4175994.656 58.96
LOCATION L0004119 VOLUME 630841.288 4175994.680 59.06
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LOCATION L0004122 VOLUME 630830.315 4175994.750 59.31

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LOCATION L0004125 VOLUME 630819.343 4175994.820 59.54
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LOCATION L0004158 VOLUME 630698.644 4175995.592 58.97
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LOCATION L0004163 VOLUME 630680.357 4175995.709 59.78
LOCATION L0004164 VOLUME 630676.699 4175995.733 60.19
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LOCATION L0004169 VOLUME 630658.412 4175995.850 61.71
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LOCATION L0004212 VOLUME 630501.138 4175996.856 61.34
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LOCATION L0004218 VOLUME 630479.193 4175996.996 61.39
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LOCATION L0004227 VOLUME 630446.275 4175997.207 61.59
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LOCATION L0004231 VOLUME 630431.645 4175997.300 61.67
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LOCATION L0004237 VOLUME 630409.700 4175997.441 61.79
LOCATION L0004238 VOLUME 630406.042 4175997.464 61.81
LOCATION L0004239 VOLUME 630402.385 4175997.487 61.82
LOCATION L0004240 VOLUME 630398.727 4175997.511 61.84
LOCATION L0004241 VOLUME 630395.070 4175997.534 61.86
LOCATION L0004242 VOLUME 630391.412 4175997.558 61.89
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LOCATION L0004246 VOLUME 630376.782 4175997.651 61.99
LOCATION L0004247 VOLUME 630373.125 4175997.675 62.02
LOCATION L0004248 VOLUME 630369.467 4175997.698 62.04
LOCATION L0004249 VOLUME 630365.810 4175997.721 62.07
LOCATION L0004250 VOLUME 630362.152 4175997.745 62.09
LOCATION L0004251 VOLUME 630358.494 4175997.768 62.12
LOCATION L0004252 VOLUME 630354.837 4175997.791 62.15
LOCATION L0004253 VOLUME 630351.179 4175997.815 62.17
LOCATION L0004254 VOLUME 630347.522 4175997.838 62.20
LOCATION L0004255 VOLUME 630343.864 4175997.862 62.23
LOCATION L0004256 VOLUME 630340.207 4175997.885 62.27
LOCATION L0004257 VOLUME 630336.549 4175997.908 62.31
LOCATION L0004258 VOLUME 630332.892 4175997.932 62.34
LOCATION L0004259 VOLUME 630329.234 4175997.955 62.38
LOCATION L0004260 VOLUME 630325.577 4175997.979 62.42
LOCATION L0004261 VOLUME 630321.919 4175998.002 62.46
** End of LINE VOLUME Source ID = SLINE2
** ----------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Off-site Mobile (Entrance from west)
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 2
** 630317.837, 4175984.408, 62.39, 4.00, 1.70
** 631840.270, 4175991.575, 46.78, 4.00, 1.70
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LOCATION L0004263 VOLUME 630323.323 4175984.433 62.38
LOCATION L0004264 VOLUME 630326.981 4175984.451 62.35
LOCATION L0004265 VOLUME 630330.638 4175984.468 62.32
LOCATION L0004266 VOLUME 630334.296 4175984.485 62.29
LOCATION L0004267 VOLUME 630337.953 4175984.502 62.25
LOCATION L0004268 VOLUME 630341.611 4175984.520 62.22
LOCATION L0004269 VOLUME 630345.269 4175984.537 62.19
LOCATION L0004270 VOLUME 630348.926 4175984.554 62.16
LOCATION L0004271 VOLUME 630352.584 4175984.571 62.14
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LOCATION L0004275 VOLUME 630367.214 4175984.640 62.04

LOCATION L0004276 VOLUME 630370.871 4175984.657 62.02
LOCATION L0004277 VOLUME 630374.529 4175984.674 62.00
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LOCATION L0004318 VOLUME 630524.489 4175985.381 61.47
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  LOCATION L0004675     VOLUME   631830.238 4175991.528 46.94
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** End of LINE VOLUME Source ID = SLINE5
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  LOCATION STCK2       POINT     631795.630  4175700.440      50.050
** DESCRSRC Idling Point 2
  LOCATION STCK3       POINT     631795.630  4175600.440      50.880
** DESCRSRC Idling Point 3
  LOCATION STCK4       POINT     631795.630  4175500.440      51.620
** DESCRSRC Idling Point 4
  LOCATION STCK5       POINT     631795.630  4175400.440      52.430
** DESCRSRC Idling Point 5
  LOCATION STCK6       POINT     631520.630  4175800.440      52.040
** DESCRSRC Idling Point 6
  LOCATION STCK7       POINT     631520.630  4175700.440      53.120
** DESCRSRC Idling Point 7
  LOCATION STCK8       POINT     631520.630  4175600.440      54.140
** DESCRSRC Idling Point 8
  LOCATION STCK9       POINT     631520.630  4175500.440      54.970
** DESCRSRC Idling Point 9
  LOCATION STCK10      POINT     631520.630  4175400.440      55.830
** DESCRSRC Idling Point 10
  LOCATION STCK11      POINT     631460.630  4175700.440      53.820
** DESCRSRC Idling Point 11
  LOCATION STCK12      POINT     631460.630  4175600.440      54.860
** DESCRSRC Idling Point 12
  LOCATION STCK13      POINT     631310.630  4175700.440      55.610
** DESCRSRC Idling Point 13
  LOCATION STCK14      POINT     631310.630  4175600.440      56.730
** DESCRSRC Idling Point 14
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC On-site Mobile
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 5
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** 631845.986, 4175258.007, 53.24, 4.00, 1.70
** 631570.162, 4175259.883, 58.84, 4.00, 1.70
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** Source Parameters **
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   SRCPARAM STCK9          1.0    3.840   366.000   57.71     0.1
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BUILDWID STCK1	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK1	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK1	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK1	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK1	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK1	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK2	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK2	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK2	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK2	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK2	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK2	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK3	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK3	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK3	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK3	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK3	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK3	613.14	573.35	517.25	445.44	360.09	275.51

BUILDWID STCK4	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK4	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK4	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK4	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK4	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK4	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK5	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK5	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK5	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK5	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK5	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK5	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK6	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK6	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK6	432.74	386.98	337.60	445.44	360.09	275.51
BUILDWID STCK6	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK6	498.19	692.08	658.44	487.60	483.83	465.35
BUILDWID STCK6	432.74	386.98	337.60	445.44	360.09	275.51
BUILDWID STCK7	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK7	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK7	432.74	386.98	337.60	282.28	360.09	275.51
BUILDWID STCK7	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK7	498.19	493.80	658.44	487.60	483.83	465.35
BUILDWID STCK7	432.74	386.98	337.60	282.28	360.09	275.51
BUILDWID STCK8	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK8	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK8	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK8	384.92	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK8	498.19	493.80	658.44	675.96	483.83	465.35
BUILDWID STCK8	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK9	384.92	482.64	565.69	631.55	461.88	487.44
BUILDWID STCK9	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK9	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK9	384.92	482.64	565.69	631.55	461.88	487.44
BUILDWID STCK9	498.19	493.80	658.44	675.96	672.94	649.47
BUILDWID STCK9	432.74	386.98	337.60	282.28	218.38	275.51
BUILDWID STCK10	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK10	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK10	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK10	384.92	482.64	565.69	631.55	678.23	704.29
BUILDWID STCK10	708.96	692.08	658.44	675.96	672.94	649.47
BUILDWID STCK10	613.14	573.35	517.25	445.44	360.09	275.51
BUILDWID STCK11	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK11	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK11	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK11	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK11	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK11	432.74	386.98	337.60	282.28	218.38	153.18

BUILDWID STCK12	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK12	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK12	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK12	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK12	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK12	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK13	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK13	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK13	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK13	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK13	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK13	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK14	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK14	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK14	432.74	386.98	337.60	282.28	218.38	153.18
BUILDWID STCK14	233.23	306.20	369.86	422.29	461.88	487.44
BUILDWID STCK14	498.19	493.80	477.61	487.60	483.83	465.35
BUILDWID STCK14	432.74	386.98	337.60	282.28	218.38	153.18
BUILDLEN STCK1	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK1	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK1	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK1	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK1	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK1	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK2	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK2	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK2	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK2	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK2	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK2	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK3	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK3	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK3	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK3	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK3	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK3	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK4	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK4	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK4	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK4	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK4	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK4	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK5	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK5	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK5	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK5	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK5	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK5	631.55	678.23	704.29	708.96	692.08	658.44

BUILDLEN STCK6	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK6	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK6	422.29	461.88	487.44	708.96	692.08	658.44
BUILDLEN STCK6	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK6	282.28	360.09	275.51	233.23	306.20	369.86
BUILDLEN STCK6	422.29	461.88	487.44	708.96	692.08	658.44
BUILDLEN STCK7	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK7	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK7	422.29	461.88	487.44	498.19	692.08	658.44
BUILDLEN STCK7	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK7	282.28	218.38	275.51	233.23	306.20	369.86
BUILDLEN STCK7	422.29	461.88	487.44	498.19	692.08	658.44
BUILDLEN STCK8	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK8	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK8	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK8	675.96	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK8	282.28	218.38	275.51	384.92	306.20	369.86
BUILDLEN STCK8	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK9	675.96	672.94	649.47	613.14	386.98	337.60
BUILDLEN STCK9	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK9	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK9	675.96	672.94	649.47	613.14	386.98	337.60
BUILDLEN STCK9	282.28	218.38	275.51	384.92	482.64	565.69
BUILDLEN STCK9	422.29	461.88	487.44	498.19	493.80	658.44
BUILDLEN STCK10	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK10	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK10	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK10	675.96	672.94	649.47	613.14	573.35	517.25
BUILDLEN STCK10	445.44	360.09	275.51	384.92	482.64	565.69
BUILDLEN STCK10	631.55	678.23	704.29	708.96	692.08	658.44
BUILDLEN STCK11	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK11	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK11	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN STCK11	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK11	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK11	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN STCK12	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK12	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK12	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN STCK12	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK12	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK12	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN STCK13	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK13	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK13	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN STCK13	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN STCK13	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN STCK13	422.29	461.88	487.44	498.19	493.80	477.61

BUILDLEN	STCK14	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN	STCK14	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN	STCK14	422.29	461.88	487.44	498.19	493.80	477.61
BUILDLEN	STCK14	487.60	483.83	465.35	432.74	386.98	337.60
BUILDLEN	STCK14	282.28	218.38	153.18	233.23	306.20	369.86
BUILDLEN	STCK14	422.29	461.88	487.44	498.19	493.80	477.61

XBADJ	STCK1	-556.74	-569.31	-564.59	-549.58	-521.44	-477.45
XBADJ	STCK1	-418.96	-347.74	-274.46	-292.33	-301.32	-301.15
XBADJ	STCK1	-291.84	-273.65	-247.15	-213.15	-172.66	-131.19
XBADJ	STCK1	-119.22	-103.63	-84.88	-63.56	-51.91	-39.80
XBADJ	STCK1	-26.48	-12.35	-1.05	-92.59	-181.32	-264.53
XBADJ	STCK1	-339.71	-404.57	-457.14	-495.81	-519.42	-527.25
XBADJ	STCK2	-458.26	-475.34	-477.98	-472.98	-457.16	-427.45
XBADJ	STCK2	-384.76	-330.37	-274.46	-309.70	-335.52	-351.15
XBADJ	STCK2	-356.12	-350.26	-333.76	-307.12	-271.14	-231.19
XBADJ	STCK2	-217.70	-197.60	-171.49	-140.17	-116.19	-89.80
XBADJ	STCK2	-60.68	-29.72	-1.05	-75.23	-147.11	-214.53
XBADJ	STCK2	-275.44	-327.97	-370.53	-401.84	-420.94	-427.25
XBADJ	STCK3	-359.78	-381.37	-391.38	-396.37	-392.88	-377.45
XBADJ	STCK3	-350.56	-313.01	-274.46	-327.06	-369.72	-401.15
XBADJ	STCK3	-420.40	-426.86	-420.36	-401.08	-369.62	-331.19
XBADJ	STCK3	-316.18	-291.56	-258.09	-216.77	-180.47	-139.80
XBADJ	STCK3	-94.88	-47.08	-1.05	-57.86	-112.91	-164.53
XBADJ	STCK3	-211.16	-251.36	-283.93	-307.87	-322.46	-327.25
XBADJ	STCK4	-261.30	-287.40	-304.78	-319.77	-328.60	-327.45
XBADJ	STCK4	-316.36	-295.64	-274.46	-344.43	-403.93	-451.15
XBADJ	STCK4	-484.67	-503.47	-506.96	-495.05	-468.10	-431.19
XBADJ	STCK4	-414.66	-385.53	-344.69	-293.38	-244.75	-189.80
XBADJ	STCK4	-129.08	-64.45	-1.05	-40.50	-78.71	-114.53
XBADJ	STCK4	-146.88	-174.76	-197.33	-213.90	-223.98	-227.25
XBADJ	STCK5	-162.82	-193.44	-218.18	-243.16	-264.33	-277.45
XBADJ	STCK5	-282.15	-278.28	-274.46	-361.79	-438.13	-501.15
XBADJ	STCK5	-548.95	-580.07	-593.56	-589.02	-566.58	-531.19
XBADJ	STCK5	-513.14	-479.50	-431.29	-369.98	-309.02	-239.80
XBADJ	STCK5	-163.28	-81.81	-1.05	-23.13	-44.51	-64.53
XBADJ	STCK5	-82.60	-98.15	-110.73	-119.94	-125.50	-127.25
XBADJ	STCK6	-375.12	-387.09	-387.31	-375.76	-352.79	-327.23
XBADJ	STCK6	-296.06	-255.89	-212.20	-230.83	-242.45	-246.71
XBADJ	STCK6	-243.46	-232.82	-215.11	-119.09	-124.91	-131.19
XBADJ	STCK6	-112.48	-96.73	-78.04	-56.98	-34.19	-10.37
XBADJ	STCK6	13.78	-283.17	-276.05	-2.40	-63.75	-123.16
XBADJ	STCK6	-178.83	-229.06	-272.33	-589.87	-567.18	-527.25
XBADJ	STCK7	-410.51	-293.12	-300.71	-299.15	-288.51	-277.23
XBADJ	STCK7	-261.85	-238.52	-212.20	-248.20	-276.65	-296.71
XBADJ	STCK7	-307.74	-309.43	-301.71	-284.82	-223.39	-231.19
XBADJ	STCK7	-265.45	-190.70	-164.65	-133.59	-98.47	-60.37
XBADJ	STCK7	-20.42	20.14	-276.05	14.96	-29.55	-73.16
XBADJ	STCK7	-114.55	-152.46	-185.73	-213.37	-468.69	-427.25

XBADJ	STCK8	-312.02	-199.16	-214.11	-222.55	-224.23	-227.23
XBADJ	STCK8	-227.65	-221.16	-212.20	-265.56	-310.86	-346.71
XBADJ	STCK8	-372.02	-386.03	-388.31	-378.79	-357.77	-331.19
XBADJ	STCK8	-363.93	-284.67	-251.25	-210.19	-162.75	-110.37
XBADJ	STCK8	-54.63	2.77	-276.05	-328.68	4.66	-23.16
XBADJ	STCK8	-50.27	-75.85	-99.13	-119.40	-136.03	-327.25
XBADJ	STCK9	-213.54	-193.35	-167.28	-143.00	-159.95	-177.23
XBADJ	STCK9	-193.45	-203.79	-212.20	-282.93	-345.06	-396.71
XBADJ	STCK9	-436.30	-462.63	-474.91	-472.76	-456.25	-431.19
XBADJ	STCK9	-462.41	-479.59	-482.19	-470.14	-227.03	-160.37
XBADJ	STCK9	-88.83	-14.59	-276.05	-311.32	-337.13	-352.69
XBADJ	STCK9	14.01	0.75	-12.53	-25.43	-37.55	-227.25
XBADJ	STCK10	-115.06	-99.38	-80.68	-66.40	-53.66	-39.30
XBADJ	STCK10	-23.74	-7.46	0.54	-90.97	-179.71	-263.00
XBADJ	STCK10	-338.29	-403.30	-456.06	-494.97	-518.83	-531.19
XBADJ	STCK10	-560.90	-573.56	-568.79	-546.75	-519.69	-477.95
XBADJ	STCK10	-421.70	-352.63	-276.05	-293.95	-302.92	-302.69
XBADJ	STCK10	-293.26	-274.92	-248.23	-213.99	-173.25	-127.25
XBADJ	STCK11	-266.22	-272.60	-270.71	-260.59	-242.55	-225.27
XBADJ	STCK11	-205.47	-179.43	-152.20	-189.11	-220.27	-244.74
XBADJ	STCK11	-261.78	-270.86	-271.71	-264.30	-248.87	-225.87
XBADJ	STCK11	-221.38	-211.22	-194.65	-172.16	-144.44	-112.33
XBADJ	STCK11	-76.80	-38.95	-0.98	-44.12	-85.93	-125.12
XBADJ	STCK11	-160.51	-191.02	-215.73	-233.89	-244.93	-251.74
XBADJ	STCK12	-167.74	-178.63	-184.11	-183.98	-178.27	-175.27
XBADJ	STCK12	-171.27	-162.07	-152.20	-206.47	-254.48	-294.74
XBADJ	STCK12	-326.06	-347.46	-358.31	-358.27	-347.35	-325.87
XBADJ	STCK12	-319.86	-305.19	-281.25	-248.76	-208.71	-162.33
XBADJ	STCK12	-111.01	-56.31	-0.98	-26.76	-51.72	-75.12
XBADJ	STCK12	-96.23	-114.42	-129.13	-139.92	-146.45	-151.74
XBADJ	STCK13	-240.17	-221.30	-195.71	-164.17	-127.64	-95.37
XBADJ	STCK13	-64.52	-31.71	-2.20	-41.39	-79.32	-114.84
XBADJ	STCK13	-146.87	-174.44	-196.71	-213.00	-222.82	-225.87
XBADJ	STCK13	-247.43	-262.52	-269.65	-268.57	-259.34	-242.23
XBADJ	STCK13	-217.76	-186.67	-150.98	-191.84	-226.88	-255.02
XBADJ	STCK13	-275.42	-287.44	-290.73	-285.19	-270.98	-251.74
XBADJ	STCK14	-141.69	-127.33	-109.11	-87.56	-63.36	-45.37
XBADJ	STCK14	-30.32	-14.35	-2.20	-58.75	-113.52	-164.84
XBADJ	STCK14	-211.15	-251.05	-283.31	-306.97	-321.30	-325.87
XBADJ	STCK14	-345.91	-356.49	-356.25	-345.18	-323.62	-292.23
XBADJ	STCK14	-251.96	-204.04	-150.98	-174.48	-192.68	-205.02
XBADJ	STCK14	-211.14	-210.84	-204.13	-191.22	-172.50	-151.74
YBADJ	STCK1	99.87	60.00	18.31	-23.94	-65.46	-104.99
YBADJ	STCK1	-141.33	-173.38	-198.03	-218.76	-232.84	-239.85
YBADJ	STCK1	-243.01	-234.77	-218.83	-196.24	-167.69	-136.70
YBADJ	STCK1	-99.87	-60.00	-18.31	23.94	65.46	104.99
YBADJ	STCK1	141.33	173.38	198.03	218.76	232.84	239.85
YBADJ	STCK1	243.01	234.77	218.83	196.24	167.69	136.70

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YBADJ   STCK2      117.24   94.20   68.31   40.34   11.15  -18.39
YBADJ   STCK2      -47.36  -74.90  -98.03 -120.28 -138.87 -153.25
YBADJ   STCK2     -166.41 -170.49 -168.83 -162.04 -150.33 -136.70
YBADJ   STCK2     -117.24  -94.20  -68.31  -40.34  -11.15   18.39
YBADJ   STCK2       47.36   74.90   98.03  120.28  138.87  153.25
YBADJ   STCK2      166.41  170.49  168.83  162.04  150.33  136.70

YBADJ   STCK3      134.60  128.41  118.31  104.62   87.75   68.21
YBADJ   STCK3       46.61   23.58    1.97  -21.80  -44.90  -66.65
YBADJ   STCK3      -89.80 -106.21 -118.83 -127.84 -132.96 -136.71
YBADJ   STCK3     -134.60 -128.41 -118.31 -104.62  -87.75  -68.21
YBADJ   STCK3      -46.61  -23.58   -1.97   21.80   44.90   66.65
YBADJ   STCK3       89.80  106.21  118.83  127.84  132.96  136.71

YBADJ   STCK4      151.97  162.61  168.31  168.90  164.35  154.82
YBADJ   STCK4      140.57  122.06  101.97   76.68   49.06   19.96
YBADJ   STCK4      -13.20  -41.93  -68.83  -93.64 -115.60 -136.71
YBADJ   STCK4     -151.97 -162.61 -168.31 -168.90 -164.35 -154.82
YBADJ   STCK4     -140.57 -122.06 -101.97  -76.68  -49.06  -19.96
YBADJ   STCK4       13.20   41.93   68.83   93.64  115.60  136.71

YBADJ   STCK5      169.33  196.81  218.31  233.18  240.96  241.42
YBADJ   STCK5      234.54  220.54  201.97  175.16  143.03  106.56
YBADJ   STCK5       63.41   22.35  -18.83  -59.43  -98.23 -136.71
YBADJ   STCK5     -169.33 -196.81 -218.31 -233.18 -240.96 -241.42
YBADJ   STCK5     -234.54 -220.54 -201.97 -175.16 -143.03 -106.56
YBADJ   STCK5      -63.41  -22.35   18.83   59.43   98.23  136.71

YBADJ   STCK6      114.22   89.35   61.77   32.32    1.88  -28.61
YBADJ   STCK6      -58.24  -86.10 -112.94 -131.32 -145.18 -154.63
YBADJ   STCK6     -159.39 -159.30 -158.43   62.17  103.13  138.30
YBADJ   STCK6     -114.22  -89.35  -61.77  -32.32   -1.88   28.61
YBADJ   STCK6       58.24  221.13  198.03  131.32  145.18  154.63
YBADJ   STCK6      159.39  159.30  158.43  -62.17 -103.13 -138.30

YBADJ   STCK7     -153.59  123.55  111.77   96.60   78.49   57.99
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YBADJ   STCK7      -82.78  -95.02 -108.43 -120.72  120.49  138.30
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YBADJ   STCK7      -35.73  -12.39   98.03   32.84   51.21   68.03
YBADJ   STCK7       82.78   95.02  108.43  120.72 -120.49 -138.30

YBADJ   STCK8     -136.22  157.76  161.77  160.88  155.09  144.59
YBADJ   STCK8      129.70  110.87   87.07   65.64   42.76   18.57
YBADJ   STCK8       -6.18  -30.74  -58.43  -86.51 -111.97  138.29
YBADJ   STCK8      136.22 -157.76 -161.77 -160.88 -155.09 -144.59
YBADJ   STCK8     -129.70 -110.87   -1.97  -25.95  -42.76  -18.57
YBADJ   STCK8        6.18   30.74   58.43   86.51  111.97 -138.29

YBADJ   STCK9     -118.86  -95.81  -69.85  -41.76  231.69  231.19
YBADJ   STCK9      223.67  209.35  187.07  164.12  136.73  105.17
YBADJ   STCK9       70.43   33.54   -8.43  -52.31  -94.60  138.29
YBADJ   STCK9      118.86   95.81   69.85   41.76 -231.69 -231.19
YBADJ   STCK9     -223.67 -209.35 -101.97 -124.44 -143.12 -157.46
YBADJ   STCK9      -70.43  -33.54    8.43   52.31   94.60 -138.29
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YBADJ   STCK10       240.17  233.01  219.33  198.98  172.59  138.29
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YBADJ   STCK10      -140.49 -172.79 -201.97 -222.92 -237.09 -244.06
YBADJ   STCK10      -240.17 -233.01 -219.33 -198.98 -172.59 -138.29

YBADJ   STCK11       72.49   67.17   59.81   50.63   39.92   27.99
YBADJ   STCK11       15.21    1.97  -12.94  -22.42  -30.69  -38.03
YBADJ   STCK11      -44.22  -49.06  -56.47  -64.33  -70.24  -75.61
YBADJ   STCK11      -72.49  -67.17  -59.81  -50.63  -39.92  -27.99
YBADJ   STCK11      -15.21   -1.97   12.94   22.42   30.69   38.03
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YBADJ   STCK12       89.86  101.38  109.81  114.91  116.52  114.59
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YBADJ   STCK12       32.39   15.22   -6.47  -30.13  -52.88  -75.61
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YBADJ   STCK13       -75.23  -73.78  -70.09  -64.27  -56.50  -47.01
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YBADJ   STCK13        75.23   73.78   70.09   64.27   56.50   47.01
YBADJ   STCK13        36.09   24.08   12.94   -3.63  -20.61  -36.97
YBADJ   STCK13       -52.20  -65.85  -73.43  -76.62  -77.48  -74.39

YBADJ   STCK14       -57.86  -39.58  -20.09    0.01   20.10   39.59
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YBADJ   STCK14       128.81  130.13  123.43  110.82   94.84   74.39
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** AERMOD Receptor Pathway
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RE STARTING
  INCLUDED "Tracy Costco V3.rou"
RE FINISHED
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**********************************
** AERMOD Meteorology Pathway
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  PROFFILE AERMET\Tracy_2004-2008.PFL
  SURFDATA 99008 2004 Tracy,CA
  UAIRDATA 66666 2004
  PROFBASE 158.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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** Auto-Generated Plotfiles
  PLOTFILE 1 SLINE2 1ST "TRACY COSTCO V3.AD\01H1G001.PLT" 31
  PLOTFILE 1 SLINE5 1ST "TRACY COSTCO V3.AD\01H1G002.PLT" 32
  PLOTFILE 1 STCK1 1ST "TRACY COSTCO V3.AD\01H1G003.PLT" 33
  PLOTFILE 1 STCK10 1ST "TRACY COSTCO V3.AD\01H1G004.PLT" 34
  PLOTFILE 1 STCK11 1ST "TRACY COSTCO V3.AD\01H1G005.PLT" 35
  PLOTFILE 1 STCK12 1ST "TRACY COSTCO V3.AD\01H1G006.PLT" 36
  PLOTFILE 1 STCK13 1ST "TRACY COSTCO V3.AD\01H1G007.PLT" 37
  PLOTFILE 1 STCK14 1ST "TRACY COSTCO V3.AD\01H1G008.PLT" 38
  PLOTFILE 1 STCK2 1ST "TRACY COSTCO V3.AD\01H1G009.PLT" 39
  PLOTFILE 1 STCK3 1ST "TRACY COSTCO V3.AD\01H1G010.PLT" 40
  PLOTFILE 1 STCK4 1ST "TRACY COSTCO V3.AD\01H1G011.PLT" 41
  PLOTFILE 1 STCK5 1ST "TRACY COSTCO V3.AD\01H1G012.PLT" 42
  PLOTFILE 1 STCK6 1ST "TRACY COSTCO V3.AD\01H1G013.PLT" 43
  PLOTFILE 1 STCK7 1ST "TRACY COSTCO V3.AD\01H1G014.PLT" 44
  PLOTFILE 1 STCK8 1ST "TRACY COSTCO V3.AD\01H1G015.PLT" 45
  PLOTFILE 1 STCK9 1ST "TRACY COSTCO V3.AD\01H1G016.PLT" 46
  PLOTFILE 1 SLINE6 1ST "TRACY COSTCO V3.AD\01H1G017.PLT" 47
  PLOTFILE PERIOD SLINE2 "TRACY COSTCO V3.AD\PE00G001.PLT" 48
  PLOTFILE PERIOD SLINE5 "TRACY COSTCO V3.AD\PE00G002.PLT" 49
  PLOTFILE PERIOD STCK1 "TRACY COSTCO V3.AD\PE00G003.PLT" 50
  PLOTFILE PERIOD STCK10 "TRACY COSTCO V3.AD\PE00G004.PLT" 51
  PLOTFILE PERIOD STCK11 "TRACY COSTCO V3.AD\PE00G005.PLT" 52
  PLOTFILE PERIOD STCK12 "TRACY COSTCO V3.AD\PE00G006.PLT" 53
  PLOTFILE PERIOD STCK13 "TRACY COSTCO V3.AD\PE00G007.PLT" 54
  PLOTFILE PERIOD STCK14 "TRACY COSTCO V3.AD\PE00G008.PLT" 55
  PLOTFILE PERIOD STCK2 "TRACY COSTCO V3.AD\PE00G009.PLT" 56
  PLOTFILE PERIOD STCK3 "TRACY COSTCO V3.AD\PE00G010.PLT" 57
  PLOTFILE PERIOD STCK4 "TRACY COSTCO V3.AD\PE00G011.PLT" 58
  PLOTFILE PERIOD STCK5 "TRACY COSTCO V3.AD\PE00G012.PLT" 59
  PLOTFILE PERIOD STCK6 "TRACY COSTCO V3.AD\PE00G013.PLT" 60
  PLOTFILE PERIOD STCK7 "TRACY COSTCO V3.AD\PE00G014.PLT" 61
  PLOTFILE PERIOD STCK8 "TRACY COSTCO V3.AD\PE00G015.PLT" 62
  PLOTFILE PERIOD STCK9 "TRACY COSTCO V3.AD\PE00G016.PLT" 63
  PLOTFILE PERIOD SLINE6 "TRACY COSTCO V3.AD\PE00G017.PLT" 64
  SUMMFILE "Tracy Costco V3.sum"
OU FINISHED


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

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

A Total of         0 Fatal Error Message(s)
A Total of        15 Warning Message(s)
A Total of         0 Informational Message(s)


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

```
  ********   WARNING MESSAGES   ********
SO W320    2061      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2062      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2063      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2064      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2065      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2066      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2067      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2068      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2069      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2070      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2071      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2072      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2073      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
SO W320    2074      PPARM: Input Parameter May Be Out-of-Range for Parameter         VS
ME W187    3298      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

   *** AERMOD - VERSION  19191 ***   *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***       12/13/23
*** AERMET - VERSION  18081 ***   ***                                          ***       15:02:10
                                                                      PAGE   1
*** MODELOPTs:    CONC  ELEV  RURAL  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 RURAL Dispersion Only.

**Model Allows User-Specified 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.

**Other Options Specified:
      ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      CCVR_Sub - Meteorological data includes CCVR substitutions
      TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.
```

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 1231 Source(s); 17 Source Group(s); and 426 Receptor(s)

with: 14 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 1217 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: 18081

**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) = 158.00 ; 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 = 6.1 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Tracy Costco V3.err
**File for Summary of Results: Tracy Costco V3.sum
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23
*** AERMET - VERSION 18081 *** *** *** 15:02:10
PAGE 2
*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR

VARY BY

STCK1	0	0.10000E+01	631795.6	4175800.4	49.0	3.84	366.00	57.71	0.10	YES	NO	NO
STCK2	0	0.10000E+01	631795.6	4175700.4	50.0	3.84	366.00	57.71	0.10	YES	NO	NO
STCK3	0	0.10000E+01	631795.6	4175600.4	50.9	3.84	366.00	57.71	0.10	YES	NO	NO
STCK4	0	0.10000E+01	631795.6	4175500.4	51.6	3.84	366.00	57.71	0.10	YES	NO	NO
STCK5	0	0.10000E+01	631795.6	4175400.4	52.4	3.84	366.00	57.71	0.10	YES	NO	NO
STCK6	0	0.10000E+01	631520.6	4175800.4	52.0	3.84	366.00	57.71	0.10	YES	NO	NO
STCK7	0	0.10000E+01	631520.6	4175700.4	53.1	3.84	366.00	57.71	0.10	YES	NO	NO
STCK8	0	0.10000E+01	631520.6	4175600.4	54.1	3.84	366.00	57.71	0.10	YES	NO	NO
STCK9	0	0.10000E+01	631520.6	4175500.4	55.0	3.84	366.00	57.71	0.10	YES	NO	NO
STCK10	0	0.10000E+01	631520.6	4175400.4	55.8	3.84	366.00	57.71	0.10	YES	NO	NO
STCK11	0	0.10000E+01	631460.6	4175700.4	53.8	3.84	366.00	57.71	0.10	YES	NO	NO
STCK12	0	0.10000E+01	631460.6	4175600.4	54.9	3.84	366.00	57.71	0.10	YES	NO	NO
STCK13	0	0.10000E+01	631310.6	4175700.4	55.6	3.84	366.00	57.71	0.10	YES	NO	NO
STCK14	0	0.10000E+01	631310.6	4175600.4	56.7	3.84	366.00	57.71	0.10	YES	NO	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0003950	0	0.32051E-02	631459.4	4175990.7	51.0	4.00	1.70	3.16	NO	
L0003951	0	0.32051E-02	631455.8	4175990.7	51.0	4.00	1.70	3.16	NO	
L0003952	0	0.32051E-02	631452.1	4175990.8	51.0	4.00	1.70	3.16	NO	
L0003953	0	0.32051E-02	631448.4	4175990.8	51.1	4.00	1.70	3.16	NO	
L0003954	0	0.32051E-02	631444.8	4175990.8	51.1	4.00	1.70	3.16	NO	
L0003955	0	0.32051E-02	631441.1	4175990.8	51.2	4.00	1.70	3.16	NO	
L0003956	0	0.32051E-02	631437.5	4175990.9	51.2	4.00	1.70	3.16	NO	
L0003957	0	0.32051E-02	631433.8	4175990.9	51.2	4.00	1.70	3.16	NO	
L0003958	0	0.32051E-02	631430.1	4175990.9	51.3	4.00	1.70	3.16	NO	
L0003959	0	0.32051E-02	631426.5	4175990.9	51.3	4.00	1.70	3.16	NO	
L0003960	0	0.32051E-02	631422.8	4175991.0	51.3	4.00	1.70	3.16	NO	
L0003961	0	0.32051E-02	631419.2	4175991.0	51.4	4.00	1.70	3.16	NO	
L0003962	0	0.32051E-02	631415.5	4175991.0	51.4	4.00	1.70	3.16	NO	
L0003963	0	0.32051E-02	631411.9	4175991.0	51.5	4.00	1.70	3.16	NO	
L0003964	0	0.32051E-02	631408.2	4175991.1	51.5	4.00	1.70	3.16	NO	
L0003965	0	0.32051E-02	631404.5	4175991.1	51.5	4.00	1.70	3.16	NO	
L0003966	0	0.32051E-02	631400.9	4175991.1	51.6	4.00	1.70	3.16	NO	
L0003967	0	0.32051E-02	631397.2	4175991.1	51.6	4.00	1.70	3.16	NO	
L0003968	0	0.32051E-02	631393.6	4175991.1	51.6	4.00	1.70	3.16	NO	
L0003969	0	0.32051E-02	631389.9	4175991.2	51.7	4.00	1.70	3.16	NO	
L0003970	0	0.32051E-02	631386.3	4175991.2	51.7	4.00	1.70	3.16	NO	
L0003971	0	0.32051E-02	631382.6	4175991.2	51.8	4.00	1.70	3.16	NO	
L0003972	0	0.32051E-02	631378.9	4175991.2	51.8	4.00	1.70	3.16	NO	
L0003973	0	0.32051E-02	631375.3	4175991.3	51.8	4.00	1.70	3.16	NO	
L0003974	0	0.32051E-02	631371.6	4175991.3	51.8	4.00	1.70	3.16	NO	

L0003975	0	0.32051E-02	631368.0	4175991.3	51.9	4.00	1.70	3.16	NO
L0003976	0	0.32051E-02	631364.3	4175991.3	51.9	4.00	1.70	3.16	NO
L0003977	0	0.32051E-02	631360.7	4175991.4	52.0	4.00	1.70	3.16	NO
L0003978	0	0.32051E-02	631357.0	4175991.4	52.0	4.00	1.70	3.16	NO
L0003979	0	0.32051E-02	631353.3	4175991.4	52.0	4.00	1.70	3.16	NO
L0003980	0	0.32051E-02	631349.7	4175991.4	52.1	4.00	1.70	3.16	NO
L0003981	0	0.32051E-02	631346.0	4175991.5	52.1	4.00	1.70	3.16	NO
L0003982	0	0.32051E-02	631342.4	4175991.5	52.1	4.00	1.70	3.16	NO
L0003983	0	0.32051E-02	631338.7	4175991.5	52.2	4.00	1.70	3.16	NO
L0003984	0	0.32051E-02	631335.1	4175991.5	52.2	4.00	1.70	3.16	NO
L0003985	0	0.32051E-02	631331.4	4175991.5	52.2	4.00	1.70	3.16	NO
L0003986	0	0.32051E-02	631327.7	4175991.6	52.3	4.00	1.70	3.16	NO
L0003987	0	0.32051E-02	631324.1	4175991.6	52.3	4.00	1.70	3.16	NO
L0003988	0	0.32051E-02	631320.4	4175991.6	52.3	4.00	1.70	3.16	NO
L0003989	0	0.32051E-02	631316.8	4175991.6	52.4	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003990	0	0.32051E-02	631313.1	4175991.7	52.4	4.00	1.70	3.16	NO	
L0003991	0	0.32051E-02	631309.5	4175991.7	52.4	4.00	1.70	3.16	NO	
L0003992	0	0.32051E-02	631305.8	4175991.7	52.5	4.00	1.70	3.16	NO	
L0003993	0	0.32051E-02	631302.1	4175991.7	52.5	4.00	1.70	3.16	NO	
L0003994	0	0.32051E-02	631298.5	4175991.8	52.5	4.00	1.70	3.16	NO	
L0003995	0	0.32051E-02	631294.8	4175991.8	52.6	4.00	1.70	3.16	NO	
L0003996	0	0.32051E-02	631291.2	4175991.8	52.6	4.00	1.70	3.16	NO	
L0003997	0	0.32051E-02	631287.5	4175991.8	52.7	4.00	1.70	3.16	NO	
L0003998	0	0.32051E-02	631283.8	4175991.8	52.7	4.00	1.70	3.16	NO	
L0003999	0	0.32051E-02	631280.2	4175991.9	52.8	4.00	1.70	3.16	NO	
L0004000	0	0.32051E-02	631276.5	4175991.9	52.8	4.00	1.70	3.16	NO	
L0004001	0	0.32051E-02	631272.9	4175991.9	52.8	4.00	1.70	3.16	NO	
L0004002	0	0.32051E-02	631269.2	4175991.9	52.8	4.00	1.70	3.16	NO	
L0004003	0	0.32051E-02	631265.6	4175992.0	52.8	4.00	1.70	3.16	NO	
L0004004	0	0.32051E-02	631261.9	4175992.0	52.9	4.00	1.70	3.16	NO	
L0004005	0	0.32051E-02	631258.2	4175992.0	52.9	4.00	1.70	3.16	NO	
L0004006	0	0.32051E-02	631254.6	4175992.0	52.9	4.00	1.70	3.16	NO	
L0004007	0	0.32051E-02	631250.9	4175992.1	52.9	4.00	1.70	3.16	NO	
L0004008	0	0.32051E-02	631247.3	4175992.1	52.9	4.00	1.70	3.16	NO	
L0004009	0	0.32051E-02	631243.6	4175992.1	52.9	4.00	1.70	3.16	NO	
L0004010	0	0.32051E-02	631240.0	4175992.1	52.9	4.00	1.70	3.16	NO	
L0004011	0	0.32051E-02	631236.3	4175992.2	52.9	4.00	1.70	3.16	NO	
L0004012	0	0.32051E-02	631232.6	4175992.2	52.9	4.00	1.70	3.16	NO	
L0004013	0	0.32051E-02	631229.0	4175992.2	52.9	4.00	1.70	3.16	NO	
L0004014	0	0.32051E-02	631225.3	4175992.2	52.9	4.00	1.70	3.16	NO	
L0004015	0	0.32051E-02	631221.7	4175992.2	52.9	4.00	1.70	3.16	NO	
L0004016	0	0.32051E-02	631218.0	4175992.3	53.0	4.00	1.70	3.16	NO	

L0004017	0	0.32051E-02	631214.4	4175992.3	53.0	4.00	1.70	3.16	NO
L0004018	0	0.32051E-02	631210.7	4175992.3	53.0	4.00	1.70	3.16	NO
L0004019	0	0.32051E-02	631207.0	4175992.3	53.0	4.00	1.70	3.16	NO
L0004020	0	0.32051E-02	631203.4	4175992.4	53.0	4.00	1.70	3.16	NO
L0004021	0	0.32051E-02	631199.7	4175992.4	53.1	4.00	1.70	3.16	NO
L0004022	0	0.32051E-02	631196.1	4175992.4	53.1	4.00	1.70	3.16	NO
L0004023	0	0.32051E-02	631192.4	4175992.4	53.1	4.00	1.70	3.16	NO
L0004024	0	0.32051E-02	631188.8	4175992.5	53.1	4.00	1.70	3.16	NO
L0004025	0	0.32051E-02	631185.1	4175992.5	53.1	4.00	1.70	3.16	NO
L0004026	0	0.32051E-02	631181.4	4175992.5	53.2	4.00	1.70	3.16	NO
L0004027	0	0.32051E-02	631177.8	4175992.5	53.2	4.00	1.70	3.16	NO
L0004028	0	0.32051E-02	631174.1	4175992.6	53.2	4.00	1.70	3.16	NO
L0004029	0	0.32051E-02	631170.5	4175992.6	53.2	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004030	0	0.32051E-02	631166.8	4175992.6	53.2	4.00	1.70	3.16	NO	
L0004031	0	0.32051E-02	631163.2	4175992.6	53.2	4.00	1.70	3.16	NO	
L0004032	0	0.32051E-02	631159.5	4175992.6	53.3	4.00	1.70	3.16	NO	
L0004033	0	0.32051E-02	631155.8	4175992.7	53.3	4.00	1.70	3.16	NO	
L0004034	0	0.32051E-02	631152.2	4175992.7	53.3	4.00	1.70	3.16	NO	
L0004035	0	0.32051E-02	631148.5	4175992.7	53.3	4.00	1.70	3.16	NO	
L0004036	0	0.32051E-02	631144.9	4175992.7	53.3	4.00	1.70	3.16	NO	
L0004037	0	0.32051E-02	631141.2	4175992.8	53.3	4.00	1.70	3.16	NO	
L0004038	0	0.32051E-02	631137.5	4175992.8	53.4	4.00	1.70	3.16	NO	
L0004039	0	0.32051E-02	631133.9	4175992.8	53.4	4.00	1.70	3.16	NO	
L0004040	0	0.32051E-02	631130.2	4175992.8	53.4	4.00	1.70	3.16	NO	
L0004041	0	0.32051E-02	631126.6	4175992.9	53.4	4.00	1.70	3.16	NO	
L0004042	0	0.32051E-02	631122.9	4175992.9	53.4	4.00	1.70	3.16	NO	
L0004043	0	0.32051E-02	631119.3	4175992.9	53.4	4.00	1.70	3.16	NO	
L0004044	0	0.32051E-02	631115.6	4175992.9	53.4	4.00	1.70	3.16	NO	
L0004045	0	0.32051E-02	631111.9	4175992.9	53.4	4.00	1.70	3.16	NO	
L0004046	0	0.32051E-02	631108.3	4175993.0	53.4	4.00	1.70	3.16	NO	
L0004047	0	0.32051E-02	631104.6	4175993.0	53.5	4.00	1.70	3.16	NO	
L0004048	0	0.32051E-02	631101.0	4175993.0	53.5	4.00	1.70	3.16	NO	
L0004049	0	0.32051E-02	631097.3	4175993.0	53.5	4.00	1.70	3.16	NO	
L0004050	0	0.32051E-02	631093.7	4175993.1	53.5	4.00	1.70	3.16	NO	
L0004051	0	0.32051E-02	631090.0	4175993.1	53.6	4.00	1.70	3.16	NO	
L0004052	0	0.32051E-02	631086.3	4175993.1	53.6	4.00	1.70	3.16	NO	
L0004053	0	0.32051E-02	631082.7	4175993.1	53.6	4.00	1.70	3.16	NO	
L0004054	0	0.32051E-02	631079.0	4175993.2	53.7	4.00	1.70	3.16	NO	
L0004055	0	0.32051E-02	631075.4	4175993.2	53.8	4.00	1.70	3.16	NO	
L0004056	0	0.32051E-02	631071.7	4175993.2	54.0	4.00	1.70	3.16	NO	
L0004057	0	0.32051E-02	631068.1	4175993.2	54.1	4.00	1.70	3.16	NO	
L0004058	0	0.32051E-02	631064.4	4175993.3	54.2	4.00	1.70	3.16	NO	

L0004059	0	0.32051E-02	631060.7	4175993.3	54.4	4.00	1.70	3.16	NO
L0004060	0	0.32051E-02	631057.1	4175993.3	54.5	4.00	1.70	3.16	NO
L0004061	0	0.32051E-02	631053.4	4175993.3	54.6	4.00	1.70	3.16	NO
L0004062	0	0.32051E-02	631049.8	4175993.3	54.7	4.00	1.70	3.16	NO
L0004063	0	0.32051E-02	631046.1	4175993.4	54.8	4.00	1.70	3.16	NO
L0004064	0	0.32051E-02	631042.5	4175993.4	54.9	4.00	1.70	3.16	NO
L0004065	0	0.32051E-02	631038.8	4175993.4	55.0	4.00	1.70	3.16	NO
L0004066	0	0.32051E-02	631035.1	4175993.4	55.1	4.00	1.70	3.16	NO
L0004067	0	0.32051E-02	631031.5	4175993.5	55.2	4.00	1.70	3.16	NO
L0004068	0	0.32051E-02	631027.8	4175993.5	55.3	4.00	1.70	3.16	NO
L0004069	0	0.32051E-02	631024.2	4175993.5	55.4	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004070	0	0.32051E-02	631020.5	4175993.5	55.4	4.00	1.70	3.16	NO	
L0004071	0	0.32051E-02	631016.8	4175993.6	55.5	4.00	1.70	3.16	NO	
L0004072	0	0.32051E-02	631013.2	4175993.6	55.6	4.00	1.70	3.16	NO	
L0004073	0	0.32051E-02	631009.5	4175993.6	55.6	4.00	1.70	3.16	NO	
L0004074	0	0.32051E-02	631005.9	4175993.6	55.7	4.00	1.70	3.16	NO	
L0004075	0	0.32051E-02	631002.2	4175993.6	55.7	4.00	1.70	3.16	NO	
L0004076	0	0.32051E-02	630998.6	4175993.7	55.8	4.00	1.70	3.16	NO	
L0004077	0	0.32051E-02	630994.9	4175993.7	55.8	4.00	1.70	3.16	NO	
L0004078	0	0.32051E-02	630991.2	4175993.7	55.9	4.00	1.70	3.16	NO	
L0004079	0	0.32051E-02	630987.6	4175993.7	55.9	4.00	1.70	3.16	NO	
L0004080	0	0.32051E-02	630983.9	4175993.8	55.9	4.00	1.70	3.16	NO	
L0004081	0	0.32051E-02	630980.3	4175993.8	56.0	4.00	1.70	3.16	NO	
L0004082	0	0.32051E-02	630976.6	4175993.8	56.1	4.00	1.70	3.16	NO	
L0004083	0	0.32051E-02	630973.0	4175993.8	56.2	4.00	1.70	3.16	NO	
L0004084	0	0.32051E-02	630969.3	4175993.9	56.3	4.00	1.70	3.16	NO	
L0004085	0	0.32051E-02	630965.6	4175993.9	56.3	4.00	1.70	3.16	NO	
L0004086	0	0.32051E-02	630962.0	4175993.9	56.4	4.00	1.70	3.16	NO	
L0004087	0	0.32051E-02	630958.3	4175993.9	56.5	4.00	1.70	3.16	NO	
L0004088	0	0.32051E-02	630954.7	4175994.0	56.6	4.00	1.70	3.16	NO	
L0004089	0	0.32051E-02	630951.0	4175994.0	56.7	4.00	1.70	3.16	NO	
L0004090	0	0.32051E-02	630947.4	4175994.0	56.8	4.00	1.70	3.16	NO	
L0004091	0	0.32051E-02	630943.7	4175994.0	56.8	4.00	1.70	3.16	NO	
L0004092	0	0.32051E-02	630940.0	4175994.0	56.9	4.00	1.70	3.16	NO	
L0004093	0	0.32051E-02	630936.4	4175994.1	57.0	4.00	1.70	3.16	NO	
L0004094	0	0.32051E-02	630932.7	4175994.1	57.0	4.00	1.70	3.16	NO	
L0004095	0	0.32051E-02	630929.1	4175994.1	57.1	4.00	1.70	3.16	NO	
L0004096	0	0.32051E-02	630925.4	4175994.1	57.2	4.00	1.70	3.16	NO	
L0004097	0	0.32051E-02	630921.8	4175994.2	57.3	4.00	1.70	3.16	NO	
L0004098	0	0.32051E-02	630918.1	4175994.2	57.3	4.00	1.70	3.16	NO	
L0004099	0	0.32051E-02	630914.4	4175994.2	57.4	4.00	1.70	3.16	NO	
L0004100	0	0.32051E-02	630910.8	4175994.2	57.5	4.00	1.70	3.16	NO	

L0004101	0	0.32051E-02	630907.1	4175994.3	57.6	4.00	1.70	3.16	NO
L0004102	0	0.32051E-02	630903.5	4175994.3	57.6	4.00	1.70	3.16	NO
L0004103	0	0.32051E-02	630899.8	4175994.3	57.7	4.00	1.70	3.16	NO
L0004104	0	0.32051E-02	630896.2	4175994.3	57.8	4.00	1.70	3.16	NO
L0004105	0	0.32051E-02	630892.5	4175994.4	57.9	4.00	1.70	3.16	NO
L0004106	0	0.32051E-02	630888.8	4175994.4	57.9	4.00	1.70	3.16	NO
L0004107	0	0.32051E-02	630885.2	4175994.4	58.0	4.00	1.70	3.16	NO
L0004108	0	0.32051E-02	630881.5	4175994.4	58.1	4.00	1.70	3.16	NO
L0004109	0	0.32051E-02	630877.9	4175994.4	58.2	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004110	0	0.32051E-02	630874.2	4175994.5	58.2	4.00	1.70	3.16	NO	
L0004111	0	0.32051E-02	630870.5	4175994.5	58.3	4.00	1.70	3.16	NO	
L0004112	0	0.32051E-02	630866.9	4175994.5	58.4	4.00	1.70	3.16	NO	
L0004113	0	0.32051E-02	630863.2	4175994.5	58.5	4.00	1.70	3.16	NO	
L0004114	0	0.32051E-02	630859.6	4175994.6	58.6	4.00	1.70	3.16	NO	
L0004115	0	0.32051E-02	630855.9	4175994.6	58.7	4.00	1.70	3.16	NO	
L0004116	0	0.32051E-02	630852.3	4175994.6	58.8	4.00	1.70	3.16	NO	
L0004117	0	0.32051E-02	630848.6	4175994.6	58.9	4.00	1.70	3.16	NO	
L0004118	0	0.32051E-02	630844.9	4175994.7	59.0	4.00	1.70	3.16	NO	
L0004119	0	0.32051E-02	630841.3	4175994.7	59.1	4.00	1.70	3.16	NO	
L0004120	0	0.32051E-02	630837.6	4175994.7	59.2	4.00	1.70	3.16	NO	
L0004121	0	0.32051E-02	630834.0	4175994.7	59.2	4.00	1.70	3.16	NO	
L0004122	0	0.32051E-02	630830.3	4175994.8	59.3	4.00	1.70	3.16	NO	
L0004123	0	0.32051E-02	630826.7	4175994.8	59.4	4.00	1.70	3.16	NO	
L0004124	0	0.32051E-02	630823.0	4175994.8	59.5	4.00	1.70	3.16	NO	
L0004125	0	0.32051E-02	630819.3	4175994.8	59.5	4.00	1.70	3.16	NO	
L0004126	0	0.32051E-02	630815.7	4175994.8	59.6	4.00	1.70	3.16	NO	
L0004127	0	0.32051E-02	630812.0	4175994.9	59.7	4.00	1.70	3.16	NO	
L0004128	0	0.32051E-02	630808.4	4175994.9	59.8	4.00	1.70	3.16	NO	
L0004129	0	0.32051E-02	630804.7	4175994.9	59.8	4.00	1.70	3.16	NO	
L0004130	0	0.32051E-02	630801.1	4175994.9	59.9	4.00	1.70	3.16	NO	
L0004131	0	0.32051E-02	630797.4	4175995.0	60.0	4.00	1.70	3.16	NO	
L0004132	0	0.32051E-02	630793.7	4175995.0	60.0	4.00	1.70	3.16	NO	
L0004133	0	0.32051E-02	630790.1	4175995.0	60.1	4.00	1.70	3.16	NO	
L0004134	0	0.32051E-02	630786.4	4175995.0	60.2	4.00	1.70	3.16	NO	
L0004135	0	0.32051E-02	630782.8	4175995.1	60.5	4.00	1.70	3.16	NO	
L0004136	0	0.32051E-02	630779.1	4175995.1	60.7	4.00	1.70	3.16	NO	
L0004137	0	0.32051E-02	630775.5	4175995.1	61.0	4.00	1.70	3.16	NO	
L0004138	0	0.32051E-02	630771.8	4175995.1	61.2	4.00	1.70	3.16	NO	
L0004139	0	0.32051E-02	630768.1	4175995.1	61.4	4.00	1.70	3.16	NO	
L0004140	0	0.32051E-02	630764.5	4175995.2	61.7	4.00	1.70	3.16	NO	
L0004141	0	0.32051E-02	630760.8	4175995.2	61.7	4.00	1.70	3.16	NO	
L0004142	0	0.32051E-02	630757.2	4175995.2	61.7	4.00	1.70	3.16	NO	

L0004143	0	0.32051E-02	630753.5	4175995.2	61.6	4.00	1.70	3.16	NO
L0004144	0	0.32051E-02	630749.9	4175995.3	61.6	4.00	1.70	3.16	NO
L0004145	0	0.32051E-02	630746.2	4175995.3	61.5	4.00	1.70	3.16	NO
L0004146	0	0.32051E-02	630742.5	4175995.3	61.5	4.00	1.70	3.16	NO
L0004147	0	0.32051E-02	630738.9	4175995.3	61.5	4.00	1.70	3.16	NO
L0004148	0	0.32051E-02	630735.2	4175995.4	61.2	4.00	1.70	3.16	NO
L0004149	0	0.32051E-02	630731.6	4175995.4	60.9	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004150	0	0.32051E-02	630727.9	4175995.4	60.6	4.00	1.70	3.16	NO	
L0004151	0	0.32051E-02	630724.2	4175995.4	60.3	4.00	1.70	3.16	NO	
L0004152	0	0.32051E-02	630720.6	4175995.5	60.0	4.00	1.70	3.16	NO	
L0004153	0	0.32051E-02	630716.9	4175995.5	59.7	4.00	1.70	3.16	NO	
L0004154	0	0.32051E-02	630713.3	4175995.5	59.4	4.00	1.70	3.16	NO	
L0004155	0	0.32051E-02	630709.6	4175995.5	59.3	4.00	1.70	3.16	NO	
L0004156	0	0.32051E-02	630706.0	4175995.5	59.2	4.00	1.70	3.16	NO	
L0004157	0	0.32051E-02	630702.3	4175995.6	59.1	4.00	1.70	3.16	NO	
L0004158	0	0.32051E-02	630698.6	4175995.6	59.0	4.00	1.70	3.16	NO	
L0004159	0	0.32051E-02	630695.0	4175995.6	58.8	4.00	1.70	3.16	NO	
L0004160	0	0.32051E-02	630691.3	4175995.6	58.7	4.00	1.70	3.16	NO	
L0004161	0	0.32051E-02	630687.7	4175995.7	58.9	4.00	1.70	3.16	NO	
L0004162	0	0.32051E-02	630684.0	4175995.7	59.4	4.00	1.70	3.16	NO	
L0004163	0	0.32051E-02	630680.4	4175995.7	59.8	4.00	1.70	3.16	NO	
L0004164	0	0.32051E-02	630676.7	4175995.7	60.2	4.00	1.70	3.16	NO	
L0004165	0	0.32051E-02	630673.0	4175995.8	60.6	4.00	1.70	3.16	NO	
L0004166	0	0.32051E-02	630669.4	4175995.8	61.0	4.00	1.70	3.16	NO	
L0004167	0	0.32051E-02	630665.7	4175995.8	61.4	4.00	1.70	3.16	NO	
L0004168	0	0.32051E-02	630662.1	4175995.8	61.6	4.00	1.70	3.16	NO	
L0004169	0	0.32051E-02	630658.4	4175995.8	61.7	4.00	1.70	3.16	NO	
L0004170	0	0.32051E-02	630654.8	4175995.9	61.8	4.00	1.70	3.16	NO	
L0004171	0	0.32051E-02	630651.1	4175995.9	62.0	4.00	1.70	3.16	NO	
L0004172	0	0.32051E-02	630647.4	4175995.9	62.1	4.00	1.70	3.16	NO	
L0004173	0	0.32051E-02	630643.8	4175995.9	62.2	4.00	1.70	3.16	NO	
L0004174	0	0.32051E-02	630640.1	4175996.0	62.3	4.00	1.70	3.16	NO	
L0004175	0	0.32051E-02	630636.5	4175996.0	62.3	4.00	1.70	3.16	NO	
L0004176	0	0.32051E-02	630632.8	4175996.0	62.3	4.00	1.70	3.16	NO	
L0004177	0	0.32051E-02	630629.2	4175996.0	62.4	4.00	1.70	3.16	NO	
L0004178	0	0.32051E-02	630625.5	4175996.1	62.4	4.00	1.70	3.16	NO	
L0004179	0	0.32051E-02	630621.8	4175996.1	62.4	4.00	1.70	3.16	NO	
L0004180	0	0.32051E-02	630618.2	4175996.1	62.4	4.00	1.70	3.16	NO	
L0004181	0	0.32051E-02	630614.5	4175996.1	62.4	4.00	1.70	3.16	NO	
L0004182	0	0.32051E-02	630610.9	4175996.2	62.4	4.00	1.70	3.16	NO	
L0004183	0	0.32051E-02	630607.2	4175996.2	62.4	4.00	1.70	3.16	NO	
L0004184	0	0.32051E-02	630603.5	4175996.2	62.3	4.00	1.70	3.16	NO	

L0004185	0	0.32051E-02	630599.9	4175996.2	62.3	4.00	1.70	3.16	NO
L0004186	0	0.32051E-02	630596.2	4175996.2	62.3	4.00	1.70	3.16	NO
L0004187	0	0.32051E-02	630592.6	4175996.3	62.3	4.00	1.70	3.16	NO
L0004188	0	0.32051E-02	630588.9	4175996.3	62.2	4.00	1.70	3.16	NO
L0004189	0	0.32051E-02	630585.3	4175996.3	62.2	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004190	0	0.32051E-02	630581.6	4175996.3	62.1	4.00	1.70	3.16	NO	
L0004191	0	0.32051E-02	630577.9	4175996.4	62.1	4.00	1.70	3.16	NO	
L0004192	0	0.32051E-02	630574.3	4175996.4	62.0	4.00	1.70	3.16	NO	
L0004193	0	0.32051E-02	630570.6	4175996.4	62.0	4.00	1.70	3.16	NO	
L0004194	0	0.32051E-02	630567.0	4175996.4	61.9	4.00	1.70	3.16	NO	
L0004195	0	0.32051E-02	630563.3	4175996.5	61.9	4.00	1.70	3.16	NO	
L0004196	0	0.32051E-02	630559.7	4175996.5	61.8	4.00	1.70	3.16	NO	
L0004197	0	0.32051E-02	630556.0	4175996.5	61.8	4.00	1.70	3.16	NO	
L0004198	0	0.32051E-02	630552.3	4175996.5	61.8	4.00	1.70	3.16	NO	
L0004199	0	0.32051E-02	630548.7	4175996.6	61.7	4.00	1.70	3.16	NO	
L0004200	0	0.32051E-02	630545.0	4175996.6	61.7	4.00	1.70	3.16	NO	
L0004201	0	0.32051E-02	630541.4	4175996.6	61.6	4.00	1.70	3.16	NO	
L0004202	0	0.32051E-02	630537.7	4175996.6	61.6	4.00	1.70	3.16	NO	
L0004203	0	0.32051E-02	630534.1	4175996.6	61.5	4.00	1.70	3.16	NO	
L0004204	0	0.32051E-02	630530.4	4175996.7	61.5	4.00	1.70	3.16	NO	
L0004205	0	0.32051E-02	630526.7	4175996.7	61.5	4.00	1.70	3.16	NO	
L0004206	0	0.32051E-02	630523.1	4175996.7	61.4	4.00	1.70	3.16	NO	
L0004207	0	0.32051E-02	630519.4	4175996.7	61.4	4.00	1.70	3.16	NO	
L0004208	0	0.32051E-02	630515.8	4175996.8	61.4	4.00	1.70	3.16	NO	
L0004209	0	0.32051E-02	630512.1	4175996.8	61.4	4.00	1.70	3.16	NO	
L0004210	0	0.32051E-02	630508.5	4175996.8	61.4	4.00	1.70	3.16	NO	
L0004211	0	0.32051E-02	630504.8	4175996.8	61.3	4.00	1.70	3.16	NO	
L0004212	0	0.32051E-02	630501.1	4175996.9	61.3	4.00	1.70	3.16	NO	
L0004213	0	0.32051E-02	630497.5	4175996.9	61.3	4.00	1.70	3.16	NO	
L0004214	0	0.32051E-02	630493.8	4175996.9	61.3	4.00	1.70	3.16	NO	
L0004215	0	0.32051E-02	630490.2	4175996.9	61.3	4.00	1.70	3.16	NO	
L0004216	0	0.32051E-02	630486.5	4175996.9	61.3	4.00	1.70	3.16	NO	
L0004217	0	0.32051E-02	630482.9	4175997.0	61.4	4.00	1.70	3.16	NO	
L0004218	0	0.32051E-02	630479.2	4175997.0	61.4	4.00	1.70	3.16	NO	
L0004219	0	0.32051E-02	630475.5	4175997.0	61.4	4.00	1.70	3.16	NO	
L0004220	0	0.32051E-02	630471.9	4175997.0	61.4	4.00	1.70	3.16	NO	
L0004221	0	0.32051E-02	630468.2	4175997.1	61.4	4.00	1.70	3.16	NO	
L0004222	0	0.32051E-02	630464.6	4175997.1	61.5	4.00	1.70	3.16	NO	
L0004223	0	0.32051E-02	630460.9	4175997.1	61.5	4.00	1.70	3.16	NO	
L0004224	0	0.32051E-02	630457.2	4175997.1	61.5	4.00	1.70	3.16	NO	
L0004225	0	0.32051E-02	630453.6	4175997.2	61.5	4.00	1.70	3.16	NO	
L0004226	0	0.32051E-02	630449.9	4175997.2	61.6	4.00	1.70	3.16	NO	

L0004227	0	0.32051E-02	630446.3	4175997.2	61.6	4.00	1.70	3.16	NO
L0004228	0	0.32051E-02	630442.6	4175997.2	61.6	4.00	1.70	3.16	NO
L0004229	0	0.32051E-02	630439.0	4175997.3	61.6	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004230	0	0.32051E-02	630435.3	4175997.3	61.6	4.00	1.70	3.16	NO	
L0004231	0	0.32051E-02	630431.6	4175997.3	61.7	4.00	1.70	3.16	NO	
L0004232	0	0.32051E-02	630428.0	4175997.3	61.7	4.00	1.70	3.16	NO	
L0004233	0	0.32051E-02	630424.3	4175997.3	61.7	4.00	1.70	3.16	NO	
L0004234	0	0.32051E-02	630420.7	4175997.4	61.7	4.00	1.70	3.16	NO	
L0004235	0	0.32051E-02	630417.0	4175997.4	61.8	4.00	1.70	3.16	NO	
L0004236	0	0.32051E-02	630413.4	4175997.4	61.8	4.00	1.70	3.16	NO	
L0004237	0	0.32051E-02	630409.7	4175997.4	61.8	4.00	1.70	3.16	NO	
L0004238	0	0.32051E-02	630406.0	4175997.5	61.8	4.00	1.70	3.16	NO	
L0004239	0	0.32051E-02	630402.4	4175997.5	61.8	4.00	1.70	3.16	NO	
L0004240	0	0.32051E-02	630398.7	4175997.5	61.8	4.00	1.70	3.16	NO	
L0004241	0	0.32051E-02	630395.1	4175997.5	61.9	4.00	1.70	3.16	NO	
L0004242	0	0.32051E-02	630391.4	4175997.6	61.9	4.00	1.70	3.16	NO	
L0004243	0	0.32051E-02	630387.8	4175997.6	61.9	4.00	1.70	3.16	NO	
L0004244	0	0.32051E-02	630384.1	4175997.6	61.9	4.00	1.70	3.16	NO	
L0004245	0	0.32051E-02	630380.4	4175997.6	62.0	4.00	1.70	3.16	NO	
L0004246	0	0.32051E-02	630376.8	4175997.7	62.0	4.00	1.70	3.16	NO	
L0004247	0	0.32051E-02	630373.1	4175997.7	62.0	4.00	1.70	3.16	NO	
L0004248	0	0.32051E-02	630369.5	4175997.7	62.0	4.00	1.70	3.16	NO	
L0004249	0	0.32051E-02	630365.8	4175997.7	62.1	4.00	1.70	3.16	NO	
L0004250	0	0.32051E-02	630362.2	4175997.7	62.1	4.00	1.70	3.16	NO	
L0004251	0	0.32051E-02	630358.5	4175997.8	62.1	4.00	1.70	3.16	NO	
L0004252	0	0.32051E-02	630354.8	4175997.8	62.1	4.00	1.70	3.16	NO	
L0004253	0	0.32051E-02	630351.2	4175997.8	62.2	4.00	1.70	3.16	NO	
L0004254	0	0.32051E-02	630347.5	4175997.8	62.2	4.00	1.70	3.16	NO	
L0004255	0	0.32051E-02	630343.9	4175997.9	62.2	4.00	1.70	3.16	NO	
L0004256	0	0.32051E-02	630340.2	4175997.9	62.3	4.00	1.70	3.16	NO	
L0004257	0	0.32051E-02	630336.5	4175997.9	62.3	4.00	1.70	3.16	NO	
L0004258	0	0.32051E-02	630332.9	4175997.9	62.3	4.00	1.70	3.16	NO	
L0004259	0	0.32051E-02	630329.2	4175998.0	62.4	4.00	1.70	3.16	NO	
L0004260	0	0.32051E-02	630325.6	4175998.0	62.4	4.00	1.70	3.16	NO	
L0004261	0	0.32051E-02	630321.9	4175998.0	62.5	4.00	1.70	3.16	NO	
L0004262	0	0.24038E-02	630319.7	4175984.4	62.4	4.00	1.70	3.16	NO	
L0004263	0	0.24038E-02	630323.3	4175984.4	62.4	4.00	1.70	3.16	NO	
L0004264	0	0.24038E-02	630327.0	4175984.5	62.3	4.00	1.70	3.16	NO	
L0004265	0	0.24038E-02	630330.6	4175984.5	62.3	4.00	1.70	3.16	NO	
L0004266	0	0.24038E-02	630334.3	4175984.5	62.3	4.00	1.70	3.16	NO	
L0004267	0	0.24038E-02	630338.0	4175984.5	62.2	4.00	1.70	3.16	NO	
L0004268	0	0.24038E-02	630341.6	4175984.5	62.2	4.00	1.70	3.16	NO	

L0004269 0 0.24038E-02 630345.3 4175984.5 62.2 4.00 1.70 3.16 NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004270	0	0.24038E-02	630348.9	4175984.6	62.2	4.00	1.70	3.16	NO	
L0004271	0	0.24038E-02	630352.6	4175984.6	62.1	4.00	1.70	3.16	NO	
L0004272	0	0.24038E-02	630356.2	4175984.6	62.1	4.00	1.70	3.16	NO	
L0004273	0	0.24038E-02	630359.9	4175984.6	62.1	4.00	1.70	3.16	NO	
L0004274	0	0.24038E-02	630363.6	4175984.6	62.1	4.00	1.70	3.16	NO	
L0004275	0	0.24038E-02	630367.2	4175984.6	62.0	4.00	1.70	3.16	NO	
L0004276	0	0.24038E-02	630370.9	4175984.7	62.0	4.00	1.70	3.16	NO	
L0004277	0	0.24038E-02	630374.5	4175984.7	62.0	4.00	1.70	3.16	NO	
L0004278	0	0.24038E-02	630378.2	4175984.7	62.0	4.00	1.70	3.16	NO	
L0004279	0	0.24038E-02	630381.8	4175984.7	61.9	4.00	1.70	3.16	NO	
L0004280	0	0.24038E-02	630385.5	4175984.7	61.9	4.00	1.70	3.16	NO	
L0004281	0	0.24038E-02	630389.2	4175984.7	61.9	4.00	1.70	3.16	NO	
L0004282	0	0.24038E-02	630392.8	4175984.8	61.9	4.00	1.70	3.16	NO	
L0004283	0	0.24038E-02	630396.5	4175984.8	61.9	4.00	1.70	3.16	NO	
L0004284	0	0.24038E-02	630400.1	4175984.8	61.8	4.00	1.70	3.16	NO	
L0004285	0	0.24038E-02	630403.8	4175984.8	61.8	4.00	1.70	3.16	NO	
L0004286	0	0.24038E-02	630407.4	4175984.8	61.8	4.00	1.70	3.16	NO	
L0004287	0	0.24038E-02	630411.1	4175984.8	61.8	4.00	1.70	3.16	NO	
L0004288	0	0.24038E-02	630414.8	4175984.9	61.8	4.00	1.70	3.16	NO	
L0004289	0	0.24038E-02	630418.4	4175984.9	61.8	4.00	1.70	3.16	NO	
L0004290	0	0.24038E-02	630422.1	4175984.9	61.8	4.00	1.70	3.16	NO	
L0004291	0	0.24038E-02	630425.7	4175984.9	61.7	4.00	1.70	3.16	NO	
L0004292	0	0.24038E-02	630429.4	4175984.9	61.7	4.00	1.70	3.16	NO	
L0004293	0	0.24038E-02	630433.1	4175984.9	61.7	4.00	1.70	3.16	NO	
L0004294	0	0.24038E-02	630436.7	4175985.0	61.7	4.00	1.70	3.16	NO	
L0004295	0	0.24038E-02	630440.4	4175985.0	61.6	4.00	1.70	3.16	NO	
L0004296	0	0.24038E-02	630444.0	4175985.0	61.6	4.00	1.70	3.16	NO	
L0004297	0	0.24038E-02	630447.7	4175985.0	61.6	4.00	1.70	3.16	NO	
L0004298	0	0.24038E-02	630451.3	4175985.0	61.6	4.00	1.70	3.16	NO	
L0004299	0	0.24038E-02	630455.0	4175985.1	61.5	4.00	1.70	3.16	NO	
L0004300	0	0.24038E-02	630458.7	4175985.1	61.5	4.00	1.70	3.16	NO	
L0004301	0	0.24038E-02	630462.3	4175985.1	61.5	4.00	1.70	3.16	NO	
L0004302	0	0.24038E-02	630466.0	4175985.1	61.5	4.00	1.70	3.16	NO	
L0004303	0	0.24038E-02	630469.6	4175985.1	61.4	4.00	1.70	3.16	NO	
L0004304	0	0.24038E-02	630473.3	4175985.1	61.4	4.00	1.70	3.16	NO	
L0004305	0	0.24038E-02	630476.9	4175985.2	61.4	4.00	1.70	3.16	NO	
L0004306	0	0.24038E-02	630480.6	4175985.2	61.4	4.00	1.70	3.16	NO	
L0004307	0	0.24038E-02	630484.3	4175985.2	61.4	4.00	1.70	3.16	NO	
L0004308	0	0.24038E-02	630487.9	4175985.2	61.3	4.00	1.70	3.16	NO	
L0004309	0	0.24038E-02	630491.6	4175985.2	61.3	4.00	1.70	3.16	NO	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004310	0	0.24038E-02	630495.2	4175985.2	61.3	4.00	1.70	3.16	NO	
L0004311	0	0.24038E-02	630498.9	4175985.3	61.3	4.00	1.70	3.16	NO	
L0004312	0	0.24038E-02	630502.5	4175985.3	61.3	4.00	1.70	3.16	NO	
L0004313	0	0.24038E-02	630506.2	4175985.3	61.4	4.00	1.70	3.16	NO	
L0004314	0	0.24038E-02	630509.9	4175985.3	61.4	4.00	1.70	3.16	NO	
L0004315	0	0.24038E-02	630513.5	4175985.3	61.4	4.00	1.70	3.16	NO	
L0004316	0	0.24038E-02	630517.2	4175985.3	61.4	4.00	1.70	3.16	NO	
L0004317	0	0.24038E-02	630520.8	4175985.4	61.4	4.00	1.70	3.16	NO	
L0004318	0	0.24038E-02	630524.5	4175985.4	61.5	4.00	1.70	3.16	NO	
L0004319	0	0.24038E-02	630528.1	4175985.4	61.5	4.00	1.70	3.16	NO	
L0004320	0	0.24038E-02	630531.8	4175985.4	61.5	4.00	1.70	3.16	NO	
L0004321	0	0.24038E-02	630535.5	4175985.4	61.6	4.00	1.70	3.16	NO	
L0004322	0	0.24038E-02	630539.1	4175985.4	61.6	4.00	1.70	3.16	NO	
L0004323	0	0.24038E-02	630542.8	4175985.5	61.7	4.00	1.70	3.16	NO	
L0004324	0	0.24038E-02	630546.4	4175985.5	61.7	4.00	1.70	3.16	NO	
L0004325	0	0.24038E-02	630550.1	4175985.5	61.8	4.00	1.70	3.16	NO	
L0004326	0	0.24038E-02	630553.7	4175985.5	61.8	4.00	1.70	3.16	NO	
L0004327	0	0.24038E-02	630557.4	4175985.5	61.9	4.00	1.70	3.16	NO	
L0004328	0	0.24038E-02	630561.1	4175985.6	61.9	4.00	1.70	3.16	NO	
L0004329	0	0.24038E-02	630564.7	4175985.6	62.0	4.00	1.70	3.16	NO	
L0004330	0	0.24038E-02	630568.4	4175985.6	62.0	4.00	1.70	3.16	NO	
L0004331	0	0.24038E-02	630572.0	4175985.6	62.1	4.00	1.70	3.16	NO	
L0004332	0	0.24038E-02	630575.7	4175985.6	62.1	4.00	1.70	3.16	NO	
L0004333	0	0.24038E-02	630579.4	4175985.6	62.2	4.00	1.70	3.16	NO	
L0004334	0	0.24038E-02	630583.0	4175985.7	62.2	4.00	1.70	3.16	NO	
L0004335	0	0.24038E-02	630586.7	4175985.7	62.3	4.00	1.70	3.16	NO	
L0004336	0	0.24038E-02	630590.3	4175985.7	62.3	4.00	1.70	3.16	NO	
L0004337	0	0.24038E-02	630594.0	4175985.7	62.3	4.00	1.70	3.16	NO	
L0004338	0	0.24038E-02	630597.6	4175985.7	62.4	4.00	1.70	3.16	NO	
L0004339	0	0.24038E-02	630601.3	4175985.7	62.4	4.00	1.70	3.16	NO	
L0004340	0	0.24038E-02	630605.0	4175985.8	62.4	4.00	1.70	3.16	NO	
L0004341	0	0.24038E-02	630608.6	4175985.8	62.4	4.00	1.70	3.16	NO	
L0004342	0	0.24038E-02	630612.3	4175985.8	62.4	4.00	1.70	3.16	NO	
L0004343	0	0.24038E-02	630615.9	4175985.8	62.5	4.00	1.70	3.16	NO	
L0004344	0	0.24038E-02	630619.6	4175985.8	62.5	4.00	1.70	3.16	NO	
L0004345	0	0.24038E-02	630623.2	4175985.8	62.5	4.00	1.70	3.16	NO	
L0004346	0	0.24038E-02	630626.9	4175985.9	62.5	4.00	1.70	3.16	NO	
L0004347	0	0.24038E-02	630630.6	4175985.9	62.5	4.00	1.70	3.16	NO	
L0004348	0	0.24038E-02	630634.2	4175985.9	62.4	4.00	1.70	3.16	NO	
L0004349	0	0.24038E-02	630637.9	4175985.9	62.4	4.00	1.70	3.16	NO	

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004350	0	0.24038E-02	630641.5	4175985.9	62.4	4.00	1.70	3.16	NO	
L0004351	0	0.24038E-02	630645.2	4175985.9	62.3	4.00	1.70	3.16	NO	
L0004352	0	0.24038E-02	630648.8	4175986.0	62.2	4.00	1.70	3.16	NO	
L0004353	0	0.24038E-02	630652.5	4175986.0	62.1	4.00	1.70	3.16	NO	
L0004354	0	0.24038E-02	630656.2	4175986.0	62.0	4.00	1.70	3.16	NO	
L0004355	0	0.24038E-02	630659.8	4175986.0	61.9	4.00	1.70	3.16	NO	
L0004356	0	0.24038E-02	630663.5	4175986.0	61.9	4.00	1.70	3.16	NO	
L0004357	0	0.24038E-02	630667.1	4175986.1	61.6	4.00	1.70	3.16	NO	
L0004358	0	0.24038E-02	630670.8	4175986.1	61.2	4.00	1.70	3.16	NO	
L0004359	0	0.24038E-02	630674.4	4175986.1	60.7	4.00	1.70	3.16	NO	
L0004360	0	0.24038E-02	630678.1	4175986.1	60.3	4.00	1.70	3.16	NO	
L0004361	0	0.24038E-02	630681.8	4175986.1	59.8	4.00	1.70	3.16	NO	
L0004362	0	0.24038E-02	630685.4	4175986.1	59.4	4.00	1.70	3.16	NO	
L0004363	0	0.24038E-02	630689.1	4175986.2	58.9	4.00	1.70	3.16	NO	
L0004364	0	0.24038E-02	630692.7	4175986.2	58.9	4.00	1.70	3.16	NO	
L0004365	0	0.24038E-02	630696.4	4175986.2	58.9	4.00	1.70	3.16	NO	
L0004366	0	0.24038E-02	630700.1	4175986.2	58.9	4.00	1.70	3.16	NO	
L0004367	0	0.24038E-02	630703.7	4175986.2	59.0	4.00	1.70	3.16	NO	
L0004368	0	0.24038E-02	630707.4	4175986.2	59.0	4.00	1.70	3.16	NO	
L0004369	0	0.24038E-02	630711.0	4175986.3	59.1	4.00	1.70	3.16	NO	
L0004370	0	0.24038E-02	630714.7	4175986.3	59.1	4.00	1.70	3.16	NO	
L0004371	0	0.24038E-02	630718.3	4175986.3	59.4	4.00	1.70	3.16	NO	
L0004372	0	0.24038E-02	630722.0	4175986.3	59.7	4.00	1.70	3.16	NO	
L0004373	0	0.24038E-02	630725.7	4175986.3	60.0	4.00	1.70	3.16	NO	
L0004374	0	0.24038E-02	630729.3	4175986.3	60.3	4.00	1.70	3.16	NO	
L0004375	0	0.24038E-02	630733.0	4175986.4	60.6	4.00	1.70	3.16	NO	
L0004376	0	0.24038E-02	630736.6	4175986.4	60.9	4.00	1.70	3.16	NO	
L0004377	0	0.24038E-02	630740.3	4175986.4	61.1	4.00	1.70	3.16	NO	
L0004378	0	0.24038E-02	630743.9	4175986.4	61.2	4.00	1.70	3.16	NO	
L0004379	0	0.24038E-02	630747.6	4175986.4	61.3	4.00	1.70	3.16	NO	
L0004380	0	0.24038E-02	630751.3	4175986.4	61.3	4.00	1.70	3.16	NO	
L0004381	0	0.24038E-02	630754.9	4175986.5	61.4	4.00	1.70	3.16	NO	
L0004382	0	0.24038E-02	630758.6	4175986.5	61.5	4.00	1.70	3.16	NO	
L0004383	0	0.24038E-02	630762.2	4175986.5	61.5	4.00	1.70	3.16	NO	
L0004384	0	0.24038E-02	630765.9	4175986.5	61.4	4.00	1.70	3.16	NO	
L0004385	0	0.24038E-02	630769.5	4175986.5	61.2	4.00	1.70	3.16	NO	
L0004386	0	0.24038E-02	630773.2	4175986.6	60.9	4.00	1.70	3.16	NO	
L0004387	0	0.24038E-02	630776.9	4175986.6	60.7	4.00	1.70	3.16	NO	
L0004388	0	0.24038E-02	630780.5	4175986.6	60.4	4.00	1.70	3.16	NO	
L0004389	0	0.24038E-02	630784.2	4175986.6	60.2	4.00	1.70	3.16	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004390	0	0.24038E-02	630787.8	4175986.6	59.9	4.00	1.70	3.16	NO	
L0004391	0	0.24038E-02	630791.5	4175986.6	59.8	4.00	1.70	3.16	NO	
L0004392	0	0.24038E-02	630795.1	4175986.7	59.8	4.00	1.70	3.16	NO	
L0004393	0	0.24038E-02	630798.8	4175986.7	59.7	4.00	1.70	3.16	NO	
L0004394	0	0.24038E-02	630802.5	4175986.7	59.7	4.00	1.70	3.16	NO	
L0004395	0	0.24038E-02	630806.1	4175986.7	59.6	4.00	1.70	3.16	NO	
L0004396	0	0.24038E-02	630809.8	4175986.7	59.5	4.00	1.70	3.16	NO	
L0004397	0	0.24038E-02	630813.4	4175986.7	59.5	4.00	1.70	3.16	NO	
L0004398	0	0.24038E-02	630817.1	4175986.8	59.4	4.00	1.70	3.16	NO	
L0004399	0	0.24038E-02	630820.8	4175986.8	59.4	4.00	1.70	3.16	NO	
L0004400	0	0.24038E-02	630824.4	4175986.8	59.3	4.00	1.70	3.16	NO	
L0004401	0	0.24038E-02	630828.1	4175986.8	59.2	4.00	1.70	3.16	NO	
L0004402	0	0.24038E-02	630831.7	4175986.8	59.1	4.00	1.70	3.16	NO	
L0004403	0	0.24038E-02	630835.4	4175986.8	59.1	4.00	1.70	3.16	NO	
L0004404	0	0.24038E-02	630839.0	4175986.9	59.0	4.00	1.70	3.16	NO	
L0004405	0	0.24038E-02	630842.7	4175986.9	58.9	4.00	1.70	3.16	NO	
L0004406	0	0.24038E-02	630846.4	4175986.9	58.8	4.00	1.70	3.16	NO	
L0004407	0	0.24038E-02	630850.0	4175986.9	58.7	4.00	1.70	3.16	NO	
L0004408	0	0.24038E-02	630853.7	4175986.9	58.6	4.00	1.70	3.16	NO	
L0004409	0	0.24038E-02	630857.3	4175986.9	58.5	4.00	1.70	3.16	NO	
L0004410	0	0.24038E-02	630861.0	4175987.0	58.4	4.00	1.70	3.16	NO	
L0004411	0	0.24038E-02	630864.6	4175987.0	58.3	4.00	1.70	3.16	NO	
L0004412	0	0.24038E-02	630868.3	4175987.0	58.3	4.00	1.70	3.16	NO	
L0004413	0	0.24038E-02	630872.0	4175987.0	58.2	4.00	1.70	3.16	NO	
L0004414	0	0.24038E-02	630875.6	4175987.0	58.1	4.00	1.70	3.16	NO	
L0004415	0	0.24038E-02	630879.3	4175987.1	58.0	4.00	1.70	3.16	NO	
L0004416	0	0.24038E-02	630882.9	4175987.1	57.9	4.00	1.70	3.16	NO	
L0004417	0	0.24038E-02	630886.6	4175987.1	57.9	4.00	1.70	3.16	NO	
L0004418	0	0.24038E-02	630890.2	4175987.1	57.8	4.00	1.70	3.16	NO	
L0004419	0	0.24038E-02	630893.9	4175987.1	57.7	4.00	1.70	3.16	NO	
L0004420	0	0.24038E-02	630897.6	4175987.1	57.7	4.00	1.70	3.16	NO	
L0004421	0	0.24038E-02	630901.2	4175987.2	57.6	4.00	1.70	3.16	NO	
L0004422	0	0.24038E-02	630904.9	4175987.2	57.5	4.00	1.70	3.16	NO	
L0004423	0	0.24038E-02	630908.5	4175987.2	57.5	4.00	1.70	3.16	NO	
L0004424	0	0.24038E-02	630912.2	4175987.2	57.4	4.00	1.70	3.16	NO	
L0004425	0	0.24038E-02	630915.8	4175987.2	57.3	4.00	1.70	3.16	NO	
L0004426	0	0.24038E-02	630919.5	4175987.2	57.3	4.00	1.70	3.16	NO	
L0004427	0	0.24038E-02	630923.2	4175987.3	57.2	4.00	1.70	3.16	NO	
L0004428	0	0.24038E-02	630926.8	4175987.3	57.1	4.00	1.70	3.16	NO	
L0004429	0	0.24038E-02	630930.5	4175987.3	57.1	4.00	1.70	3.16	NO	

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004430	0	0.24038E-02	630934.1	4175987.3	57.0	4.00	1.70	3.16	NO	
L0004431	0	0.24038E-02	630937.8	4175987.3	56.9	4.00	1.70	3.16	NO	
L0004432	0	0.24038E-02	630941.5	4175987.3	56.9	4.00	1.70	3.16	NO	
L0004433	0	0.24038E-02	630945.1	4175987.4	56.8	4.00	1.70	3.16	NO	
L0004434	0	0.24038E-02	630948.8	4175987.4	56.7	4.00	1.70	3.16	NO	
L0004435	0	0.24038E-02	630952.4	4175987.4	56.6	4.00	1.70	3.16	NO	
L0004436	0	0.24038E-02	630956.1	4175987.4	56.6	4.00	1.70	3.16	NO	
L0004437	0	0.24038E-02	630959.7	4175987.4	56.5	4.00	1.70	3.16	NO	
L0004438	0	0.24038E-02	630963.4	4175987.4	56.4	4.00	1.70	3.16	NO	
L0004439	0	0.24038E-02	630967.1	4175987.5	56.3	4.00	1.70	3.16	NO	
L0004440	0	0.24038E-02	630970.7	4175987.5	56.3	4.00	1.70	3.16	NO	
L0004441	0	0.24038E-02	630974.4	4175987.5	56.2	4.00	1.70	3.16	NO	
L0004442	0	0.24038E-02	630978.0	4175987.5	56.1	4.00	1.70	3.16	NO	
L0004443	0	0.24038E-02	630981.7	4175987.5	56.0	4.00	1.70	3.16	NO	
L0004444	0	0.24038E-02	630985.3	4175987.5	56.0	4.00	1.70	3.16	NO	
L0004445	0	0.24038E-02	630989.0	4175987.6	55.9	4.00	1.70	3.16	NO	
L0004446	0	0.24038E-02	630992.7	4175987.6	55.9	4.00	1.70	3.16	NO	
L0004447	0	0.24038E-02	630996.3	4175987.6	55.8	4.00	1.70	3.16	NO	
L0004448	0	0.24038E-02	631000.0	4175987.6	55.8	4.00	1.70	3.16	NO	
L0004449	0	0.24038E-02	631003.6	4175987.6	55.8	4.00	1.70	3.16	NO	
L0004450	0	0.24038E-02	631007.3	4175987.7	55.7	4.00	1.70	3.16	NO	
L0004451	0	0.24038E-02	631010.9	4175987.7	55.7	4.00	1.70	3.16	NO	
L0004452	0	0.24038E-02	631014.6	4175987.7	55.6	4.00	1.70	3.16	NO	
L0004453	0	0.24038E-02	631018.3	4175987.7	55.5	4.00	1.70	3.16	NO	
L0004454	0	0.24038E-02	631021.9	4175987.7	55.5	4.00	1.70	3.16	NO	
L0004455	0	0.24038E-02	631025.6	4175987.7	55.4	4.00	1.70	3.16	NO	
L0004456	0	0.24038E-02	631029.2	4175987.8	55.3	4.00	1.70	3.16	NO	
L0004457	0	0.24038E-02	631032.9	4175987.8	55.3	4.00	1.70	3.16	NO	
L0004458	0	0.24038E-02	631036.5	4175987.8	55.1	4.00	1.70	3.16	NO	
L0004459	0	0.24038E-02	631040.2	4175987.8	55.0	4.00	1.70	3.16	NO	
L0004460	0	0.24038E-02	631043.9	4175987.8	54.9	4.00	1.70	3.16	NO	
L0004461	0	0.24038E-02	631047.5	4175987.8	54.8	4.00	1.70	3.16	NO	
L0004462	0	0.24038E-02	631051.2	4175987.9	54.6	4.00	1.70	3.16	NO	
L0004463	0	0.24038E-02	631054.8	4175987.9	54.5	4.00	1.70	3.16	NO	
L0004464	0	0.24038E-02	631058.5	4175987.9	54.4	4.00	1.70	3.16	NO	
L0004465	0	0.24038E-02	631062.2	4175987.9	54.3	4.00	1.70	3.16	NO	
L0004466	0	0.24038E-02	631065.8	4175987.9	54.1	4.00	1.70	3.16	NO	
L0004467	0	0.24038E-02	631069.5	4175987.9	54.0	4.00	1.70	3.16	NO	
L0004468	0	0.24038E-02	631073.1	4175988.0	53.9	4.00	1.70	3.16	NO	
L0004469	0	0.24038E-02	631076.8	4175988.0	53.7	4.00	1.70	3.16	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004470	0	0.24038E-02	631080.4	4175988.0	53.6	4.00	1.70	3.16	NO	
L0004471	0	0.24038E-02	631084.1	4175988.0	53.5	4.00	1.70	3.16	NO	
L0004472	0	0.24038E-02	631087.8	4175988.0	53.5	4.00	1.70	3.16	NO	
L0004473	0	0.24038E-02	631091.4	4175988.0	53.5	4.00	1.70	3.16	NO	
L0004474	0	0.24038E-02	631095.1	4175988.1	53.5	4.00	1.70	3.16	NO	
L0004475	0	0.24038E-02	631098.7	4175988.1	53.4	4.00	1.70	3.16	NO	
L0004476	0	0.24038E-02	631102.4	4175988.1	53.4	4.00	1.70	3.16	NO	
L0004477	0	0.24038E-02	631106.0	4175988.1	53.4	4.00	1.70	3.16	NO	
L0004478	0	0.24038E-02	631109.7	4175988.1	53.4	4.00	1.70	3.16	NO	
L0004479	0	0.24038E-02	631113.4	4175988.2	53.4	4.00	1.70	3.16	NO	
L0004480	0	0.24038E-02	631117.0	4175988.2	53.4	4.00	1.70	3.16	NO	
L0004481	0	0.24038E-02	631120.7	4175988.2	53.4	4.00	1.70	3.16	NO	
L0004482	0	0.24038E-02	631124.3	4175988.2	53.4	4.00	1.70	3.16	NO	
L0004483	0	0.24038E-02	631128.0	4175988.2	53.3	4.00	1.70	3.16	NO	
L0004484	0	0.24038E-02	631131.6	4175988.2	53.3	4.00	1.70	3.16	NO	
L0004485	0	0.24038E-02	631135.3	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004486	0	0.24038E-02	631139.0	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004487	0	0.24038E-02	631142.6	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004488	0	0.24038E-02	631146.3	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004489	0	0.24038E-02	631149.9	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004490	0	0.24038E-02	631153.6	4175988.3	53.3	4.00	1.70	3.16	NO	
L0004491	0	0.24038E-02	631157.2	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004492	0	0.24038E-02	631160.9	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004493	0	0.24038E-02	631164.6	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004494	0	0.24038E-02	631168.2	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004495	0	0.24038E-02	631171.9	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004496	0	0.24038E-02	631175.5	4175988.4	53.2	4.00	1.70	3.16	NO	
L0004497	0	0.24038E-02	631179.2	4175988.5	53.2	4.00	1.70	3.16	NO	
L0004498	0	0.24038E-02	631182.9	4175988.5	53.1	4.00	1.70	3.16	NO	
L0004499	0	0.24038E-02	631186.5	4175988.5	53.1	4.00	1.70	3.16	NO	
L0004500	0	0.24038E-02	631190.2	4175988.5	53.1	4.00	1.70	3.16	NO	
L0004501	0	0.24038E-02	631193.8	4175988.5	53.1	4.00	1.70	3.16	NO	
L0004502	0	0.24038E-02	631197.5	4175988.5	53.1	4.00	1.70	3.16	NO	
L0004503	0	0.24038E-02	631201.1	4175988.6	53.0	4.00	1.70	3.16	NO	
L0004504	0	0.24038E-02	631204.8	4175988.6	53.0	4.00	1.70	3.16	NO	
L0004505	0	0.24038E-02	631208.5	4175988.6	53.0	4.00	1.70	3.16	NO	
L0004506	0	0.24038E-02	631212.1	4175988.6	53.0	4.00	1.70	3.16	NO	
L0004507	0	0.24038E-02	631215.8	4175988.6	53.0	4.00	1.70	3.16	NO	
L0004508	0	0.24038E-02	631219.4	4175988.7	53.0	4.00	1.70	3.16	NO	
L0004509	0	0.24038E-02	631223.1	4175988.7	52.9	4.00	1.70	3.16	NO	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0004510	0	0.24038E-02	631226.7	4175988.7	52.9	4.00	1.70	3.16	NO
L0004511	0	0.24038E-02	631230.4	4175988.7	52.9	4.00	1.70	3.16	NO
L0004512	0	0.24038E-02	631234.1	4175988.7	52.9	4.00	1.70	3.16	NO
L0004513	0	0.24038E-02	631237.7	4175988.7	52.9	4.00	1.70	3.16	NO
L0004514	0	0.24038E-02	631241.4	4175988.8	52.9	4.00	1.70	3.16	NO
L0004515	0	0.24038E-02	631245.0	4175988.8	52.9	4.00	1.70	3.16	NO
L0004516	0	0.24038E-02	631248.7	4175988.8	52.9	4.00	1.70	3.16	NO
L0004517	0	0.24038E-02	631252.3	4175988.8	52.9	4.00	1.70	3.16	NO
L0004518	0	0.24038E-02	631256.0	4175988.8	52.9	4.00	1.70	3.16	NO
L0004519	0	0.24038E-02	631259.7	4175988.8	52.9	4.00	1.70	3.16	NO
L0004520	0	0.24038E-02	631263.3	4175988.9	52.9	4.00	1.70	3.16	NO
L0004521	0	0.24038E-02	631267.0	4175988.9	52.8	4.00	1.70	3.16	NO
L0004522	0	0.24038E-02	631270.6	4175988.9	52.8	4.00	1.70	3.16	NO
L0004523	0	0.24038E-02	631274.3	4175988.9	52.8	4.00	1.70	3.16	NO
L0004524	0	0.24038E-02	631277.9	4175988.9	52.8	4.00	1.70	3.16	NO
L0004525	0	0.24038E-02	631281.6	4175988.9	52.7	4.00	1.70	3.16	NO
L0004526	0	0.24038E-02	631285.3	4175989.0	52.7	4.00	1.70	3.16	NO
L0004527	0	0.24038E-02	631288.9	4175989.0	52.7	4.00	1.70	3.16	NO
L0004528	0	0.24038E-02	631292.6	4175989.0	52.6	4.00	1.70	3.16	NO
L0004529	0	0.24038E-02	631296.2	4175989.0	52.6	4.00	1.70	3.16	NO
L0004530	0	0.24038E-02	631299.9	4175989.0	52.5	4.00	1.70	3.16	NO
L0004531	0	0.24038E-02	631303.5	4175989.0	52.5	4.00	1.70	3.16	NO
L0004532	0	0.24038E-02	631307.2	4175989.1	52.5	4.00	1.70	3.16	NO
L0004533	0	0.24038E-02	631310.9	4175989.1	52.4	4.00	1.70	3.16	NO
L0004534	0	0.24038E-02	631314.5	4175989.1	52.4	4.00	1.70	3.16	NO
L0004535	0	0.24038E-02	631318.2	4175989.1	52.4	4.00	1.70	3.16	NO
L0004536	0	0.24038E-02	631321.8	4175989.1	52.3	4.00	1.70	3.16	NO
L0004537	0	0.24038E-02	631325.5	4175989.2	52.3	4.00	1.70	3.16	NO
L0004538	0	0.24038E-02	631329.2	4175989.2	52.3	4.00	1.70	3.16	NO
L0004539	0	0.24038E-02	631332.8	4175989.2	52.2	4.00	1.70	3.16	NO
L0004540	0	0.24038E-02	631336.5	4175989.2	52.2	4.00	1.70	3.16	NO
L0004541	0	0.24038E-02	631340.1	4175989.2	52.2	4.00	1.70	3.16	NO
L0004542	0	0.24038E-02	631343.8	4175989.2	52.1	4.00	1.70	3.16	NO
L0004543	0	0.24038E-02	631347.4	4175989.3	52.1	4.00	1.70	3.16	NO
L0004544	0	0.24038E-02	631351.1	4175989.3	52.1	4.00	1.70	3.16	NO
L0004545	0	0.24038E-02	631354.8	4175989.3	52.0	4.00	1.70	3.16	NO
L0004546	0	0.24038E-02	631358.4	4175989.3	52.0	4.00	1.70	3.16	NO
L0004547	0	0.24038E-02	631362.1	4175989.3	51.9	4.00	1.70	3.16	NO
L0004548	0	0.24038E-02	631365.7	4175989.3	51.9	4.00	1.70	3.16	NO
L0004549	0	0.24038E-02	631369.4	4175989.4	51.9	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY

L0004550	0	0.24038E-02	631373.0	4175989.4	51.8	4.00	1.70	3.16	NO
L0004551	0	0.24038E-02	631376.7	4175989.4	51.8	4.00	1.70	3.16	NO
L0004552	0	0.24038E-02	631380.4	4175989.4	51.8	4.00	1.70	3.16	NO
L0004553	0	0.24038E-02	631384.0	4175989.4	51.7	4.00	1.70	3.16	NO
L0004554	0	0.24038E-02	631387.7	4175989.4	51.7	4.00	1.70	3.16	NO
L0004555	0	0.24038E-02	631391.3	4175989.5	51.7	4.00	1.70	3.16	NO
L0004556	0	0.24038E-02	631395.0	4175989.5	51.6	4.00	1.70	3.16	NO
L0004557	0	0.24038E-02	631398.6	4175989.5	51.6	4.00	1.70	3.16	NO
L0004558	0	0.24038E-02	631402.3	4175989.5	51.6	4.00	1.70	3.16	NO
L0004559	0	0.24038E-02	631406.0	4175989.5	51.5	4.00	1.70	3.16	NO
L0004560	0	0.24038E-02	631409.6	4175989.5	51.5	4.00	1.70	3.16	NO
L0004561	0	0.24038E-02	631413.3	4175989.6	51.4	4.00	1.70	3.16	NO
L0004562	0	0.24038E-02	631416.9	4175989.6	51.4	4.00	1.70	3.16	NO
L0004563	0	0.24038E-02	631420.6	4175989.6	51.4	4.00	1.70	3.16	NO
L0004564	0	0.24038E-02	631424.2	4175989.6	51.3	4.00	1.70	3.16	NO
L0004565	0	0.24038E-02	631427.9	4175989.6	51.3	4.00	1.70	3.16	NO
L0004566	0	0.24038E-02	631431.6	4175989.7	51.3	4.00	1.70	3.16	NO
L0004567	0	0.24038E-02	631435.2	4175989.7	51.2	4.00	1.70	3.16	NO
L0004568	0	0.24038E-02	631438.9	4175989.7	51.2	4.00	1.70	3.16	NO
L0004569	0	0.24038E-02	631442.5	4175989.7	51.1	4.00	1.70	3.16	NO
L0004570	0	0.24038E-02	631446.2	4175989.7	51.1	4.00	1.70	3.16	NO
L0004571	0	0.24038E-02	631449.9	4175989.7	51.1	4.00	1.70	3.16	NO
L0004572	0	0.24038E-02	631453.5	4175989.8	51.0	4.00	1.70	3.16	NO
L0004573	0	0.24038E-02	631457.2	4175989.8	51.0	4.00	1.70	3.16	NO
L0004574	0	0.24038E-02	631460.8	4175989.8	51.0	4.00	1.70	3.16	NO
L0004575	0	0.24038E-02	631464.5	4175989.8	50.9	4.00	1.70	3.16	NO
L0004576	0	0.24038E-02	631468.1	4175989.8	50.9	4.00	1.70	3.16	NO
L0004577	0	0.24038E-02	631471.8	4175989.8	50.8	4.00	1.70	3.16	NO
L0004578	0	0.24038E-02	631475.5	4175989.9	50.8	4.00	1.70	3.16	NO
L0004579	0	0.24038E-02	631479.1	4175989.9	50.8	4.00	1.70	3.16	NO
L0004580	0	0.24038E-02	631482.8	4175989.9	50.7	4.00	1.70	3.16	NO
L0004581	0	0.24038E-02	631486.4	4175989.9	50.7	4.00	1.70	3.16	NO
L0004582	0	0.24038E-02	631490.1	4175989.9	50.6	4.00	1.70	3.16	NO
L0004583	0	0.24038E-02	631493.7	4175989.9	50.6	4.00	1.70	3.16	NO
L0004584	0	0.24038E-02	631497.4	4175990.0	50.6	4.00	1.70	3.16	NO
L0004585	0	0.24038E-02	631501.1	4175990.0	50.5	4.00	1.70	3.16	NO
L0004586	0	0.24038E-02	631504.7	4175990.0	50.5	4.00	1.70	3.16	NO
L0004587	0	0.24038E-02	631508.4	4175990.0	50.4	4.00	1.70	3.16	NO
L0004588	0	0.24038E-02	631512.0	4175990.0	50.4	4.00	1.70	3.16	NO
L0004589	0	0.24038E-02	631515.7	4175990.0	50.4	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004590	0	0.24038E-02	631519.3	4175990.1	50.3	4.00	1.70	3.16	NO	

L0004591	0	0.24038E-02	631523.0	4175990.1	50.3	4.00	1.70	3.16	NO
L0004592	0	0.24038E-02	631526.7	4175990.1	50.2	4.00	1.70	3.16	NO
L0004593	0	0.24038E-02	631530.3	4175990.1	50.2	4.00	1.70	3.16	NO
L0004594	0	0.24038E-02	631534.0	4175990.1	50.1	4.00	1.70	3.16	NO
L0004595	0	0.24038E-02	631537.6	4175990.1	50.1	4.00	1.70	3.16	NO
L0004596	0	0.24038E-02	631541.3	4175990.2	50.1	4.00	1.70	3.16	NO
L0004597	0	0.24038E-02	631544.9	4175990.2	50.0	4.00	1.70	3.16	NO
L0004598	0	0.24038E-02	631548.6	4175990.2	50.0	4.00	1.70	3.16	NO
L0004599	0	0.24038E-02	631552.3	4175990.2	50.0	4.00	1.70	3.16	NO
L0004600	0	0.24038E-02	631555.9	4175990.2	49.9	4.00	1.70	3.16	NO
L0004601	0	0.24038E-02	631559.6	4175990.3	49.9	4.00	1.70	3.16	NO
L0004602	0	0.24038E-02	631563.2	4175990.3	49.8	4.00	1.70	3.16	NO
L0004603	0	0.24038E-02	631566.9	4175990.3	49.8	4.00	1.70	3.16	NO
L0004604	0	0.24038E-02	631570.6	4175990.3	49.8	4.00	1.70	3.16	NO
L0004605	0	0.24038E-02	631574.2	4175990.3	49.7	4.00	1.70	3.16	NO
L0004606	0	0.24038E-02	631577.9	4175990.3	49.7	4.00	1.70	3.16	NO
L0004607	0	0.24038E-02	631581.5	4175990.4	49.6	4.00	1.70	3.16	NO
L0004608	0	0.24038E-02	631585.2	4175990.4	49.6	4.00	1.70	3.16	NO
L0004609	0	0.24038E-02	631588.8	4175990.4	49.6	4.00	1.70	3.16	NO
L0004610	0	0.24038E-02	631592.5	4175990.4	49.5	4.00	1.70	3.16	NO
L0004611	0	0.24038E-02	631596.2	4175990.4	49.5	4.00	1.70	3.16	NO
L0004612	0	0.24038E-02	631599.8	4175990.4	49.4	4.00	1.70	3.16	NO
L0004613	0	0.24038E-02	631603.5	4175990.5	49.4	4.00	1.70	3.16	NO
L0004614	0	0.24038E-02	631607.1	4175990.5	49.4	4.00	1.70	3.16	NO
L0004615	0	0.24038E-02	631610.8	4175990.5	49.3	4.00	1.70	3.16	NO
L0004616	0	0.24038E-02	631614.4	4175990.5	49.3	4.00	1.70	3.16	NO
L0004617	0	0.24038E-02	631618.1	4175990.5	49.2	4.00	1.70	3.16	NO
L0004618	0	0.24038E-02	631621.8	4175990.5	49.2	4.00	1.70	3.16	NO
L0004619	0	0.24038E-02	631625.4	4175990.6	49.2	4.00	1.70	3.16	NO
L0004620	0	0.24038E-02	631629.1	4175990.6	49.1	4.00	1.70	3.16	NO
L0004621	0	0.24038E-02	631632.7	4175990.6	49.1	4.00	1.70	3.16	NO
L0004622	0	0.24038E-02	631636.4	4175990.6	49.0	4.00	1.70	3.16	NO
L0004623	0	0.24038E-02	631640.0	4175990.6	49.0	4.00	1.70	3.16	NO
L0004624	0	0.24038E-02	631643.7	4175990.6	48.9	4.00	1.70	3.16	NO
L0004625	0	0.24038E-02	631647.4	4175990.7	48.9	4.00	1.70	3.16	NO
L0004626	0	0.24038E-02	631651.0	4175990.7	48.8	4.00	1.70	3.16	NO
L0004627	0	0.24038E-02	631654.7	4175990.7	48.8	4.00	1.70	3.16	NO
L0004628	0	0.24038E-02	631658.3	4175990.7	48.8	4.00	1.70	3.16	NO
L0004629	0	0.24038E-02	631662.0	4175990.7	48.7	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004630	0	0.24038E-02	631665.6	4175990.8	48.6	4.00	1.70	3.16	NO	
L0004631	0	0.24038E-02	631669.3	4175990.8	48.6	4.00	1.70	3.16	NO	
L0004632	0	0.24038E-02	631673.0	4175990.8	48.5	4.00	1.70	3.16	NO	

L0004633	0	0.24038E-02	631676.6	4175990.8	48.5	4.00	1.70	3.16	NO
L0004634	0	0.24038E-02	631680.3	4175990.8	48.5	4.00	1.70	3.16	NO
L0004635	0	0.24038E-02	631683.9	4175990.8	48.4	4.00	1.70	3.16	NO
L0004636	0	0.24038E-02	631687.6	4175990.9	48.4	4.00	1.70	3.16	NO
L0004637	0	0.24038E-02	631691.2	4175990.9	48.3	4.00	1.70	3.16	NO
L0004638	0	0.24038E-02	631694.9	4175990.9	48.3	4.00	1.70	3.16	NO
L0004639	0	0.24038E-02	631698.6	4175990.9	48.3	4.00	1.70	3.16	NO
L0004640	0	0.24038E-02	631702.2	4175990.9	48.2	4.00	1.70	3.16	NO
L0004641	0	0.24038E-02	631705.9	4175990.9	48.2	4.00	1.70	3.16	NO
L0004642	0	0.24038E-02	631709.5	4175991.0	48.2	4.00	1.70	3.16	NO
L0004643	0	0.24038E-02	631713.2	4175991.0	48.1	4.00	1.70	3.16	NO
L0004644	0	0.24038E-02	631716.9	4175991.0	48.1	4.00	1.70	3.16	NO
L0004645	0	0.24038E-02	631720.5	4175991.0	48.1	4.00	1.70	3.16	NO
L0004646	0	0.24038E-02	631724.2	4175991.0	48.0	4.00	1.70	3.16	NO
L0004647	0	0.24038E-02	631727.8	4175991.0	48.0	4.00	1.70	3.16	NO
L0004648	0	0.24038E-02	631731.5	4175991.1	48.0	4.00	1.70	3.16	NO
L0004649	0	0.24038E-02	631735.1	4175991.1	47.9	4.00	1.70	3.16	NO
L0004650	0	0.24038E-02	631738.8	4175991.1	47.9	4.00	1.70	3.16	NO
L0004651	0	0.24038E-02	631742.5	4175991.1	47.8	4.00	1.70	3.16	NO
L0004652	0	0.24038E-02	631746.1	4175991.1	47.8	4.00	1.70	3.16	NO
L0004653	0	0.24038E-02	631749.8	4175991.1	47.8	4.00	1.70	3.16	NO
L0004654	0	0.24038E-02	631753.4	4175991.2	47.7	4.00	1.70	3.16	NO
L0004655	0	0.24038E-02	631757.1	4175991.2	47.7	4.00	1.70	3.16	NO
L0004656	0	0.24038E-02	631760.7	4175991.2	47.7	4.00	1.70	3.16	NO
L0004657	0	0.24038E-02	631764.4	4175991.2	47.6	4.00	1.70	3.16	NO
L0004658	0	0.24038E-02	631768.1	4175991.2	47.6	4.00	1.70	3.16	NO
L0004659	0	0.24038E-02	631771.7	4175991.3	47.6	4.00	1.70	3.16	NO
L0004660	0	0.24038E-02	631775.4	4175991.3	47.5	4.00	1.70	3.16	NO
L0004661	0	0.24038E-02	631779.0	4175991.3	47.5	4.00	1.70	3.16	NO
L0004662	0	0.24038E-02	631782.7	4175991.3	47.5	4.00	1.70	3.16	NO
L0004663	0	0.24038E-02	631786.3	4175991.3	47.4	4.00	1.70	3.16	NO
L0004664	0	0.24038E-02	631790.0	4175991.3	47.4	4.00	1.70	3.16	NO
L0004665	0	0.24038E-02	631793.7	4175991.4	47.3	4.00	1.70	3.16	NO
L0004666	0	0.24038E-02	631797.3	4175991.4	47.3	4.00	1.70	3.16	NO
L0004667	0	0.24038E-02	631801.0	4175991.4	47.2	4.00	1.70	3.16	NO
L0004668	0	0.24038E-02	631804.6	4175991.4	47.2	4.00	1.70	3.16	NO
L0004669	0	0.24038E-02	631808.3	4175991.4	47.1	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0004670	0	0.24038E-02	631812.0	4175991.4	47.1	4.00	1.70	3.16	NO	
L0004671	0	0.24038E-02	631815.6	4175991.5	47.0	4.00	1.70	3.16	NO	
L0004672	0	0.24038E-02	631819.3	4175991.5	47.0	4.00	1.70	3.16	NO	
L0004673	0	0.24038E-02	631822.9	4175991.5	47.0	4.00	1.70	3.16	NO	
L0004674	0	0.24038E-02	631826.6	4175991.5	47.0	4.00	1.70	3.16	NO	

L0004675	0	0.24038E-02	631830.2	4175991.5	46.9	4.00	1.70	3.16	NO
L0004676	0	0.24038E-02	631833.9	4175991.5	46.9	4.00	1.70	3.16	NO
L0004677	0	0.24038E-02	631837.6	4175991.6	46.9	4.00	1.70	3.16	NO
L0002348	0	0.20450E-02	631836.6	4175986.1	47.0	4.00	1.70	3.16	NO
L0002349	0	0.20450E-02	631836.7	4175982.4	47.1	4.00	1.70	3.16	NO
L0002350	0	0.20450E-02	631836.7	4175978.8	47.2	4.00	1.70	3.16	NO
L0002351	0	0.20450E-02	631836.8	4175975.1	47.2	4.00	1.70	3.16	NO
L0002352	0	0.20450E-02	631836.8	4175971.5	47.3	4.00	1.70	3.16	NO
L0002353	0	0.20450E-02	631836.9	4175967.8	47.3	4.00	1.70	3.16	NO
L0002354	0	0.20450E-02	631836.9	4175964.1	47.3	4.00	1.70	3.16	NO
L0002355	0	0.20450E-02	631837.0	4175960.5	47.3	4.00	1.70	3.16	NO
L0002356	0	0.20450E-02	631837.0	4175956.8	47.3	4.00	1.70	3.16	NO
L0002357	0	0.20450E-02	631837.1	4175953.2	47.3	4.00	1.70	3.16	NO
L0002358	0	0.20450E-02	631837.1	4175949.5	47.3	4.00	1.70	3.16	NO
L0002359	0	0.20450E-02	631837.1	4175945.8	47.3	4.00	1.70	3.16	NO
L0002360	0	0.20450E-02	631837.2	4175942.2	47.3	4.00	1.70	3.16	NO
L0002361	0	0.20450E-02	631837.2	4175938.5	47.3	4.00	1.70	3.16	NO
L0002362	0	0.20450E-02	631837.3	4175934.9	47.3	4.00	1.70	3.16	NO
L0002363	0	0.20450E-02	631837.3	4175931.2	47.4	4.00	1.70	3.16	NO
L0002364	0	0.20450E-02	631837.4	4175927.6	47.4	4.00	1.70	3.16	NO
L0002365	0	0.20450E-02	631837.4	4175923.9	47.4	4.00	1.70	3.16	NO
L0002366	0	0.20450E-02	631837.5	4175920.2	47.5	4.00	1.70	3.16	NO
L0002367	0	0.20450E-02	631837.5	4175916.6	47.5	4.00	1.70	3.16	NO
L0002368	0	0.20450E-02	631837.6	4175912.9	47.5	4.00	1.70	3.16	NO
L0002369	0	0.20450E-02	631837.6	4175909.3	47.5	4.00	1.70	3.16	NO
L0002370	0	0.20450E-02	631837.7	4175905.6	47.6	4.00	1.70	3.16	NO
L0002371	0	0.20450E-02	631837.7	4175902.0	47.6	4.00	1.70	3.16	NO
L0002372	0	0.20450E-02	631837.8	4175898.3	47.6	4.00	1.70	3.16	NO
L0002373	0	0.20450E-02	631837.8	4175894.6	47.7	4.00	1.70	3.16	NO
L0002374	0	0.20450E-02	631837.9	4175891.0	47.7	4.00	1.70	3.16	NO
L0002375	0	0.20450E-02	631837.9	4175887.3	47.8	4.00	1.70	3.16	NO
L0002376	0	0.20450E-02	631837.9	4175883.7	47.8	4.00	1.70	3.16	NO
L0002377	0	0.20450E-02	631838.0	4175880.0	47.8	4.00	1.70	3.16	NO
L0002378	0	0.20450E-02	631838.0	4175876.4	47.8	4.00	1.70	3.16	NO
L0002379	0	0.20450E-02	631838.1	4175872.7	47.9	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0002380	0	0.20450E-02	631838.1	4175869.0	47.9	4.00	1.70	3.16	NO	
L0002381	0	0.20450E-02	631838.2	4175865.4	47.9	4.00	1.70	3.16	NO	
L0002382	0	0.20450E-02	631838.2	4175861.7	48.0	4.00	1.70	3.16	NO	
L0002383	0	0.20450E-02	631838.3	4175858.1	48.0	4.00	1.70	3.16	NO	
L0002384	0	0.20450E-02	631838.3	4175854.4	48.0	4.00	1.70	3.16	NO	
L0002385	0	0.20450E-02	631838.4	4175850.8	48.1	4.00	1.70	3.16	NO	
L0002386	0	0.20450E-02	631838.4	4175847.1	48.1	4.00	1.70	3.16	NO	

L0002387	0	0.20450E-02	631838.5	4175843.4	48.1	4.00	1.70	3.16	NO
L0002388	0	0.20450E-02	631838.5	4175839.8	48.2	4.00	1.70	3.16	NO
L0002389	0	0.20450E-02	631838.6	4175836.1	48.2	4.00	1.70	3.16	NO
L0002390	0	0.20450E-02	631838.6	4175832.5	48.2	4.00	1.70	3.16	NO
L0002391	0	0.20450E-02	631838.6	4175828.8	48.3	4.00	1.70	3.16	NO
L0002392	0	0.20450E-02	631838.7	4175825.2	48.3	4.00	1.70	3.16	NO
L0002393	0	0.20450E-02	631838.7	4175821.5	48.3	4.00	1.70	3.16	NO
L0002394	0	0.20450E-02	631838.8	4175817.8	48.4	4.00	1.70	3.16	NO
L0002395	0	0.20450E-02	631838.8	4175814.2	48.4	4.00	1.70	3.16	NO
L0002396	0	0.20450E-02	631838.9	4175810.5	48.4	4.00	1.70	3.16	NO
L0002397	0	0.20450E-02	631838.9	4175806.9	48.5	4.00	1.70	3.16	NO
L0002398	0	0.20450E-02	631839.0	4175803.2	48.5	4.00	1.70	3.16	NO
L0002399	0	0.20450E-02	631839.0	4175799.6	48.5	4.00	1.70	3.16	NO
L0002400	0	0.20450E-02	631839.1	4175795.9	48.6	4.00	1.70	3.16	NO
L0002401	0	0.20450E-02	631839.1	4175792.2	48.6	4.00	1.70	3.16	NO
L0002402	0	0.20450E-02	631839.2	4175788.6	48.6	4.00	1.70	3.16	NO
L0002403	0	0.20450E-02	631839.2	4175784.9	48.7	4.00	1.70	3.16	NO
L0002404	0	0.20450E-02	631839.3	4175781.3	48.7	4.00	1.70	3.16	NO
L0002405	0	0.20450E-02	631839.3	4175777.6	48.7	4.00	1.70	3.16	NO
L0002406	0	0.20450E-02	631839.4	4175774.0	48.8	4.00	1.70	3.16	NO
L0002407	0	0.20450E-02	631839.4	4175770.3	48.8	4.00	1.70	3.16	NO
L0002408	0	0.20450E-02	631839.4	4175766.6	48.8	4.00	1.70	3.16	NO
L0002409	0	0.20450E-02	631839.5	4175763.0	48.9	4.00	1.70	3.16	NO
L0002410	0	0.20450E-02	631839.5	4175759.3	48.9	4.00	1.70	3.16	NO
L0002411	0	0.20450E-02	631839.6	4175755.7	49.0	4.00	1.70	3.16	NO
L0002412	0	0.20450E-02	631839.6	4175752.0	49.0	4.00	1.70	3.16	NO
L0002413	0	0.20450E-02	631839.7	4175748.4	49.0	4.00	1.70	3.16	NO
L0002414	0	0.20450E-02	631839.7	4175744.7	49.1	4.00	1.70	3.16	NO
L0002415	0	0.20450E-02	631839.8	4175741.0	49.1	4.00	1.70	3.16	NO
L0002416	0	0.20450E-02	631839.8	4175737.4	49.1	4.00	1.70	3.16	NO
L0002417	0	0.20450E-02	631839.9	4175733.7	49.2	4.00	1.70	3.16	NO
L0002418	0	0.20450E-02	631839.9	4175730.1	49.2	4.00	1.70	3.16	NO
L0002419	0	0.20450E-02	631840.0	4175726.4	49.3	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0002420	0	0.20450E-02	631840.0	4175722.8	49.3	4.00	1.70	3.16	NO	
L0002421	0	0.20450E-02	631840.1	4175719.1	49.3	4.00	1.70	3.16	NO	
L0002422	0	0.20450E-02	631840.1	4175715.4	49.4	4.00	1.70	3.16	NO	
L0002423	0	0.20450E-02	631840.2	4175711.8	49.4	4.00	1.70	3.16	NO	
L0002424	0	0.20450E-02	631840.2	4175708.1	49.4	4.00	1.70	3.16	NO	
L0002425	0	0.20450E-02	631840.2	4175704.5	49.5	4.00	1.70	3.16	NO	
L0002426	0	0.20450E-02	631840.3	4175700.8	49.5	4.00	1.70	3.16	NO	
L0002427	0	0.20450E-02	631840.3	4175697.2	49.5	4.00	1.70	3.16	NO	
L0002428	0	0.20450E-02	631840.4	4175693.5	49.6	4.00	1.70	3.16	NO	

L0002429	0	0.20450E-02	631840.4	4175689.8	49.6	4.00	1.70	3.16	NO
L0002430	0	0.20450E-02	631840.5	4175686.2	49.6	4.00	1.70	3.16	NO
L0002431	0	0.20450E-02	631840.5	4175682.5	49.7	4.00	1.70	3.16	NO
L0002432	0	0.20450E-02	631840.6	4175678.9	49.7	4.00	1.70	3.16	NO
L0002433	0	0.20450E-02	631840.6	4175675.2	49.7	4.00	1.70	3.16	NO
L0002434	0	0.20450E-02	631840.7	4175671.6	49.8	4.00	1.70	3.16	NO
L0002435	0	0.20450E-02	631840.7	4175667.9	49.8	4.00	1.70	3.16	NO
L0002436	0	0.20450E-02	631840.8	4175664.2	49.8	4.00	1.70	3.16	NO
L0002437	0	0.20450E-02	631840.8	4175660.6	49.9	4.00	1.70	3.16	NO
L0002438	0	0.20450E-02	631840.9	4175656.9	49.9	4.00	1.70	3.16	NO
L0002439	0	0.20450E-02	631840.9	4175653.3	49.9	4.00	1.70	3.16	NO
L0002440	0	0.20450E-02	631841.0	4175649.6	49.9	4.00	1.70	3.16	NO
L0002441	0	0.20450E-02	631841.0	4175646.0	50.0	4.00	1.70	3.16	NO
L0002442	0	0.20450E-02	631841.0	4175642.3	50.0	4.00	1.70	3.16	NO
L0002443	0	0.20450E-02	631841.1	4175638.6	50.0	4.00	1.70	3.16	NO
L0002444	0	0.20450E-02	631841.1	4175635.0	50.1	4.00	1.70	3.16	NO
L0002445	0	0.20450E-02	631841.2	4175631.3	50.1	4.00	1.70	3.16	NO
L0002446	0	0.20450E-02	631841.2	4175627.7	50.1	4.00	1.70	3.16	NO
L0002447	0	0.20450E-02	631841.3	4175624.0	50.1	4.00	1.70	3.16	NO
L0002448	0	0.20450E-02	631841.3	4175620.3	50.2	4.00	1.70	3.16	NO
L0002449	0	0.20450E-02	631841.4	4175616.7	50.2	4.00	1.70	3.16	NO
L0002450	0	0.20450E-02	631841.4	4175613.0	50.2	4.00	1.70	3.16	NO
L0002451	0	0.20450E-02	631841.5	4175609.4	50.3	4.00	1.70	3.16	NO
L0002452	0	0.20450E-02	631841.5	4175605.7	50.3	4.00	1.70	3.16	NO
L0002453	0	0.20450E-02	631841.6	4175602.1	50.3	4.00	1.70	3.16	NO
L0002454	0	0.20450E-02	631841.6	4175598.4	50.4	4.00	1.70	3.16	NO
L0002455	0	0.20450E-02	631841.7	4175594.7	50.4	4.00	1.70	3.16	NO
L0002456	0	0.20450E-02	631841.7	4175591.1	50.4	4.00	1.70	3.16	NO
L0002457	0	0.20450E-02	631841.8	4175587.4	50.4	4.00	1.70	3.16	NO
L0002458	0	0.20450E-02	631841.8	4175583.8	50.5	4.00	1.70	3.16	NO
L0002459	0	0.20450E-02	631841.8	4175580.1	50.5	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002460	0	0.20450E-02	631841.9	4175576.5	50.5	4.00	1.70	3.16	NO	
L0002461	0	0.20450E-02	631841.9	4175572.8	50.5	4.00	1.70	3.16	NO	
L0002462	0	0.20450E-02	631842.0	4175569.1	50.6	4.00	1.70	3.16	NO	
L0002463	0	0.20450E-02	631842.0	4175565.5	50.6	4.00	1.70	3.16	NO	
L0002464	0	0.20450E-02	631842.1	4175561.8	50.6	4.00	1.70	3.16	NO	
L0002465	0	0.20450E-02	631842.1	4175558.2	50.6	4.00	1.70	3.16	NO	
L0002466	0	0.20450E-02	631842.2	4175554.5	50.7	4.00	1.70	3.16	NO	
L0002467	0	0.20450E-02	631842.2	4175550.9	50.7	4.00	1.70	3.16	NO	
L0002468	0	0.20450E-02	631842.3	4175547.2	50.7	4.00	1.70	3.16	NO	
L0002469	0	0.20450E-02	631842.3	4175543.5	50.8	4.00	1.70	3.16	NO	
L0002470	0	0.20450E-02	631842.4	4175539.9	50.8	4.00	1.70	3.16	NO	

L0002471	0	0.20450E-02	631842.4	4175536.2	50.8	4.00	1.70	3.16	NO
L0002472	0	0.20450E-02	631842.5	4175532.6	50.8	4.00	1.70	3.16	NO
L0002473	0	0.20450E-02	631842.5	4175528.9	50.9	4.00	1.70	3.16	NO
L0002474	0	0.20450E-02	631842.6	4175525.3	50.9	4.00	1.70	3.16	NO
L0002475	0	0.20450E-02	631842.6	4175521.6	50.9	4.00	1.70	3.16	NO
L0002476	0	0.20450E-02	631842.6	4175517.9	50.9	4.00	1.70	3.16	NO
L0002477	0	0.20450E-02	631842.7	4175514.3	51.0	4.00	1.70	3.16	NO
L0002478	0	0.20450E-02	631842.7	4175510.6	51.0	4.00	1.70	3.16	NO
L0002479	0	0.20450E-02	631842.8	4175507.0	51.0	4.00	1.70	3.16	NO
L0002480	0	0.20450E-02	631842.8	4175503.3	51.0	4.00	1.70	3.16	NO
L0002481	0	0.20450E-02	631842.9	4175499.7	51.1	4.00	1.70	3.16	NO
L0002482	0	0.20450E-02	631842.9	4175496.0	51.1	4.00	1.70	3.16	NO
L0002483	0	0.20450E-02	631843.0	4175492.3	51.1	4.00	1.70	3.16	NO
L0002484	0	0.20450E-02	631843.0	4175488.7	51.1	4.00	1.70	3.16	NO
L0002485	0	0.20450E-02	631843.1	4175485.0	51.2	4.00	1.70	3.16	NO
L0002486	0	0.20450E-02	631843.1	4175481.4	51.2	4.00	1.70	3.16	NO
L0002487	0	0.20450E-02	631843.2	4175477.7	51.2	4.00	1.70	3.16	NO
L0002488	0	0.20450E-02	631843.2	4175474.1	51.3	4.00	1.70	3.16	NO
L0002489	0	0.20450E-02	631843.3	4175470.4	51.3	4.00	1.70	3.16	NO
L0002490	0	0.20450E-02	631843.3	4175466.7	51.3	4.00	1.70	3.16	NO
L0002491	0	0.20450E-02	631843.4	4175463.1	51.3	4.00	1.70	3.16	NO
L0002492	0	0.20450E-02	631843.4	4175459.4	51.4	4.00	1.70	3.16	NO
L0002493	0	0.20450E-02	631843.4	4175455.8	51.4	4.00	1.70	3.16	NO
L0002494	0	0.20450E-02	631843.5	4175452.1	51.4	4.00	1.70	3.16	NO
L0002495	0	0.20450E-02	631843.5	4175448.5	51.5	4.00	1.70	3.16	NO
L0002496	0	0.20450E-02	631843.6	4175444.8	51.5	4.00	1.70	3.16	NO
L0002497	0	0.20450E-02	631843.6	4175441.1	51.5	4.00	1.70	3.16	NO
L0002498	0	0.20450E-02	631843.7	4175437.5	51.5	4.00	1.70	3.16	NO
L0002499	0	0.20450E-02	631843.7	4175433.8	51.6	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0002500	0	0.20450E-02	631843.8	4175430.2	51.6	4.00	1.70	3.16	NO	
L0002501	0	0.20450E-02	631843.8	4175426.5	51.6	4.00	1.70	3.16	NO	
L0002502	0	0.20450E-02	631843.9	4175422.9	51.7	4.00	1.70	3.16	NO	
L0002503	0	0.20450E-02	631843.9	4175419.2	51.7	4.00	1.70	3.16	NO	
L0002504	0	0.20450E-02	631844.0	4175415.5	51.7	4.00	1.70	3.16	NO	
L0002505	0	0.20450E-02	631844.0	4175411.9	51.8	4.00	1.70	3.16	NO	
L0002506	0	0.20450E-02	631844.1	4175408.2	51.8	4.00	1.70	3.16	NO	
L0002507	0	0.20450E-02	631844.1	4175404.6	51.8	4.00	1.70	3.16	NO	
L0002508	0	0.20450E-02	631844.1	4175400.9	51.9	4.00	1.70	3.16	NO	
L0002509	0	0.20450E-02	631844.2	4175397.3	51.9	4.00	1.70	3.16	NO	
L0002510	0	0.20450E-02	631844.2	4175393.6	51.9	4.00	1.70	3.16	NO	
L0002511	0	0.20450E-02	631844.3	4175389.9	51.9	4.00	1.70	3.16	NO	
L0002512	0	0.20450E-02	631844.3	4175386.3	52.0	4.00	1.70	3.16	NO	

L0002513	0	0.20450E-02	631844.4	4175382.6	52.0	4.00	1.70	3.16	NO
L0002514	0	0.20450E-02	631844.4	4175379.0	52.0	4.00	1.70	3.16	NO
L0002515	0	0.20450E-02	631844.5	4175375.3	52.1	4.00	1.70	3.16	NO
L0002516	0	0.20450E-02	631844.5	4175371.7	52.1	4.00	1.70	3.16	NO
L0002517	0	0.20450E-02	631844.6	4175368.0	52.2	4.00	1.70	3.16	NO
L0002518	0	0.20450E-02	631844.6	4175364.3	52.2	4.00	1.70	3.16	NO
L0002519	0	0.20450E-02	631844.7	4175360.7	52.2	4.00	1.70	3.16	NO
L0002520	0	0.20450E-02	631844.7	4175357.0	52.3	4.00	1.70	3.16	NO
L0002521	0	0.20450E-02	631844.8	4175353.4	52.3	4.00	1.70	3.16	NO
L0002522	0	0.20450E-02	631844.8	4175349.7	52.3	4.00	1.70	3.16	NO
L0002523	0	0.20450E-02	631844.9	4175346.1	52.4	4.00	1.70	3.16	NO
L0002524	0	0.20450E-02	631844.9	4175342.4	52.4	4.00	1.70	3.16	NO
L0002525	0	0.20450E-02	631844.9	4175338.7	52.4	4.00	1.70	3.16	NO
L0002526	0	0.20450E-02	631845.0	4175335.1	52.5	4.00	1.70	3.16	NO
L0002527	0	0.20450E-02	631845.0	4175331.4	52.5	4.00	1.70	3.16	NO
L0002528	0	0.20450E-02	631845.1	4175327.8	52.5	4.00	1.70	3.16	NO
L0002529	0	0.20450E-02	631845.1	4175324.1	52.6	4.00	1.70	3.16	NO
L0002530	0	0.20450E-02	631845.2	4175320.5	52.6	4.00	1.70	3.16	NO
L0002531	0	0.20450E-02	631845.2	4175316.8	52.7	4.00	1.70	3.16	NO
L0002532	0	0.20450E-02	631845.3	4175313.1	52.7	4.00	1.70	3.16	NO
L0002533	0	0.20450E-02	631845.3	4175309.5	52.7	4.00	1.70	3.16	NO
L0002534	0	0.20450E-02	631845.4	4175305.8	52.8	4.00	1.70	3.16	NO
L0002535	0	0.20450E-02	631845.4	4175302.2	52.8	4.00	1.70	3.16	NO
L0002536	0	0.20450E-02	631845.5	4175298.5	52.8	4.00	1.70	3.16	NO
L0002537	0	0.20450E-02	631845.5	4175294.8	52.9	4.00	1.70	3.16	NO
L0002538	0	0.20450E-02	631845.6	4175291.2	52.9	4.00	1.70	3.16	NO
L0002539	0	0.20450E-02	631845.6	4175287.5	53.0	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002540	0	0.20450E-02	631845.7	4175283.9	53.0	4.00	1.70	3.16	NO	
L0002541	0	0.20450E-02	631845.7	4175280.2	53.1	4.00	1.70	3.16	NO	
L0002542	0	0.20450E-02	631845.7	4175276.6	53.1	4.00	1.70	3.16	NO	
L0002543	0	0.20450E-02	631845.8	4175272.9	53.1	4.00	1.70	3.16	NO	
L0002544	0	0.20450E-02	631845.8	4175269.2	53.2	4.00	1.70	3.16	NO	
L0002545	0	0.20450E-02	631845.9	4175265.6	53.2	4.00	1.70	3.16	NO	
L0002546	0	0.20450E-02	631845.9	4175261.9	53.3	4.00	1.70	3.16	NO	
L0002547	0	0.20450E-02	631846.0	4175258.3	53.3	4.00	1.70	3.16	NO	
L0002548	0	0.20450E-02	631842.6	4175258.0	53.3	4.00	1.70	3.16	NO	
L0002549	0	0.20450E-02	631838.9	4175258.1	53.4	4.00	1.70	3.16	NO	
L0002550	0	0.20450E-02	631835.3	4175258.1	53.4	4.00	1.70	3.16	NO	
L0002551	0	0.20450E-02	631831.6	4175258.1	53.5	4.00	1.70	3.16	NO	
L0002552	0	0.20450E-02	631828.0	4175258.1	53.5	4.00	1.70	3.16	NO	
L0002553	0	0.20450E-02	631824.3	4175258.2	53.6	4.00	1.70	3.16	NO	
L0002554	0	0.20450E-02	631820.7	4175258.2	53.6	4.00	1.70	3.16	NO	

L0002555	0	0.20450E-02	631817.0	4175258.2	53.7	4.00	1.70	3.16	NO
L0002556	0	0.20450E-02	631813.3	4175258.2	53.7	4.00	1.70	3.16	NO
L0002557	0	0.20450E-02	631809.7	4175258.3	53.8	4.00	1.70	3.16	NO
L0002558	0	0.20450E-02	631806.0	4175258.3	53.8	4.00	1.70	3.16	NO
L0002559	0	0.20450E-02	631802.4	4175258.3	53.9	4.00	1.70	3.16	NO
L0002560	0	0.20450E-02	631798.7	4175258.3	53.9	4.00	1.70	3.16	NO
L0002561	0	0.20450E-02	631795.1	4175258.4	54.0	4.00	1.70	3.16	NO
L0002562	0	0.20450E-02	631791.4	4175258.4	54.0	4.00	1.70	3.16	NO
L0002563	0	0.20450E-02	631787.7	4175258.4	54.1	4.00	1.70	3.16	NO
L0002564	0	0.20450E-02	631784.1	4175258.4	54.1	4.00	1.70	3.16	NO
L0002565	0	0.20450E-02	631780.4	4175258.5	54.2	4.00	1.70	3.16	NO
L0002566	0	0.20450E-02	631776.8	4175258.5	54.2	4.00	1.70	3.16	NO
L0002567	0	0.20450E-02	631773.1	4175258.5	54.3	4.00	1.70	3.16	NO
L0002568	0	0.20450E-02	631769.4	4175258.5	54.3	4.00	1.70	3.16	NO
L0002569	0	0.20450E-02	631765.8	4175258.6	54.4	4.00	1.70	3.16	NO
L0002570	0	0.20450E-02	631762.1	4175258.6	54.4	4.00	1.70	3.16	NO
L0002571	0	0.20450E-02	631758.5	4175258.6	54.4	4.00	1.70	3.16	NO
L0002572	0	0.20450E-02	631754.8	4175258.6	54.5	4.00	1.70	3.16	NO
L0002573	0	0.20450E-02	631751.2	4175258.7	54.5	4.00	1.70	3.16	NO
L0002574	0	0.20450E-02	631747.5	4175258.7	54.6	4.00	1.70	3.16	NO
L0002575	0	0.20450E-02	631743.8	4175258.7	54.6	4.00	1.70	3.16	NO
L0002576	0	0.20450E-02	631740.2	4175258.7	54.7	4.00	1.70	3.16	NO
L0002577	0	0.20450E-02	631736.5	4175258.8	54.7	4.00	1.70	3.16	NO
L0002578	0	0.20450E-02	631732.9	4175258.8	54.8	4.00	1.70	3.16	NO
L0002579	0	0.20450E-02	631729.2	4175258.8	54.8	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002580	0	0.20450E-02	631725.6	4175258.8	54.9	4.00	1.70	3.16	NO	
L0002581	0	0.20450E-02	631721.9	4175258.9	54.9	4.00	1.70	3.16	NO	
L0002582	0	0.20450E-02	631718.2	4175258.9	55.0	4.00	1.70	3.16	NO	
L0002583	0	0.20450E-02	631714.6	4175258.9	55.0	4.00	1.70	3.16	NO	
L0002584	0	0.20450E-02	631710.9	4175258.9	55.1	4.00	1.70	3.16	NO	
L0002585	0	0.20450E-02	631707.3	4175258.9	55.1	4.00	1.70	3.16	NO	
L0002586	0	0.20450E-02	631703.6	4175259.0	55.2	4.00	1.70	3.16	NO	
L0002587	0	0.20450E-02	631700.0	4175259.0	55.2	4.00	1.70	3.16	NO	
L0002588	0	0.20450E-02	631696.3	4175259.0	55.3	4.00	1.70	3.16	NO	
L0002589	0	0.20450E-02	631692.6	4175259.0	55.3	4.00	1.70	3.16	NO	
L0002590	0	0.20450E-02	631689.0	4175259.1	55.3	4.00	1.70	3.16	NO	
L0002591	0	0.20450E-02	631685.3	4175259.1	55.4	4.00	1.70	3.16	NO	
L0002592	0	0.20450E-02	631681.7	4175259.1	55.4	4.00	1.70	3.16	NO	
L0002593	0	0.20450E-02	631678.0	4175259.1	55.5	4.00	1.70	3.16	NO	
L0002594	0	0.20450E-02	631674.4	4175259.2	55.5	4.00	1.70	3.16	NO	
L0002595	0	0.20450E-02	631670.7	4175259.2	55.6	4.00	1.70	3.16	NO	
L0002596	0	0.20450E-02	631667.0	4175259.2	55.6	4.00	1.70	3.16	NO	

L0002597	0	0.20450E-02	631663.4	4175259.2	55.7	4.00	1.70	3.16	NO
L0002598	0	0.20450E-02	631659.7	4175259.3	55.7	4.00	1.70	3.16	NO
L0002599	0	0.20450E-02	631656.1	4175259.3	55.8	4.00	1.70	3.16	NO
L0002600	0	0.20450E-02	631652.4	4175259.3	55.9	4.00	1.70	3.16	NO
L0002601	0	0.20450E-02	631648.8	4175259.3	56.0	4.00	1.70	3.16	NO
L0002602	0	0.20450E-02	631645.1	4175259.4	56.1	4.00	1.70	3.16	NO
L0002603	0	0.20450E-02	631641.4	4175259.4	56.2	4.00	1.70	3.16	NO
L0002604	0	0.20450E-02	631637.8	4175259.4	56.3	4.00	1.70	3.16	NO
L0002605	0	0.20450E-02	631634.1	4175259.4	56.4	4.00	1.70	3.16	NO
L0002606	0	0.20450E-02	631630.5	4175259.5	56.6	4.00	1.70	3.16	NO
L0002607	0	0.20450E-02	631626.8	4175259.5	56.9	4.00	1.70	3.16	NO
L0002608	0	0.20450E-02	631623.1	4175259.5	57.1	4.00	1.70	3.16	NO
L0002609	0	0.20450E-02	631619.5	4175259.5	57.4	4.00	1.70	3.16	NO
L0002610	0	0.20450E-02	631615.8	4175259.6	57.6	4.00	1.70	3.16	NO
L0002611	0	0.20450E-02	631612.2	4175259.6	57.9	4.00	1.70	3.16	NO
L0002612	0	0.20450E-02	631608.5	4175259.6	58.2	4.00	1.70	3.16	NO
L0002613	0	0.20450E-02	631604.9	4175259.6	58.4	4.00	1.70	3.16	NO
L0002614	0	0.20450E-02	631601.2	4175259.7	58.5	4.00	1.70	3.16	NO
L0002615	0	0.20450E-02	631597.5	4175259.7	58.7	4.00	1.70	3.16	NO
L0002616	0	0.20450E-02	631593.9	4175259.7	58.9	4.00	1.70	3.16	NO
L0002617	0	0.20450E-02	631590.2	4175259.7	59.0	4.00	1.70	3.16	NO
L0002618	0	0.20450E-02	631586.6	4175259.8	59.2	4.00	1.70	3.16	NO
L0002619	0	0.20450E-02	631582.9	4175259.8	59.3	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002620	0	0.20450E-02	631579.3	4175259.8	59.2	4.00	1.70	3.16	NO	
L0002621	0	0.20450E-02	631575.6	4175259.8	59.1	4.00	1.70	3.16	NO	
L0002622	0	0.20450E-02	631571.9	4175259.9	59.0	4.00	1.70	3.16	NO	
L0002623	0	0.20450E-02	631568.7	4175261.0	58.9	4.00	1.70	3.16	NO	
L0002624	0	0.20450E-02	631565.8	4175263.3	58.8	4.00	1.70	3.16	NO	
L0002625	0	0.20450E-02	631563.0	4175265.6	58.7	4.00	1.70	3.16	NO	
L0002626	0	0.20450E-02	631560.1	4175267.9	58.7	4.00	1.70	3.16	NO	
L0002627	0	0.20450E-02	631557.2	4175270.1	58.7	4.00	1.70	3.16	NO	
L0002628	0	0.20450E-02	631554.4	4175272.4	58.7	4.00	1.70	3.16	NO	
L0002629	0	0.20450E-02	631551.5	4175274.7	58.8	4.00	1.70	3.16	NO	
L0002630	0	0.20450E-02	631548.6	4175276.9	58.8	4.00	1.70	3.16	NO	
L0002631	0	0.20450E-02	631545.8	4175279.2	58.8	4.00	1.70	3.16	NO	
L0002632	0	0.20450E-02	631542.9	4175281.5	58.9	4.00	1.70	3.16	NO	
L0002633	0	0.20450E-02	631540.0	4175283.8	58.9	4.00	1.70	3.16	NO	
L0002634	0	0.20450E-02	631537.2	4175286.0	59.0	4.00	1.70	3.16	NO	
L0002635	0	0.20450E-02	631534.3	4175288.3	59.0	4.00	1.70	3.16	NO	
L0002636	0	0.20450E-02	631531.4	4175290.6	58.9	4.00	1.70	3.16	NO	
L0002637	0	0.20450E-02	631528.6	4175292.9	58.8	4.00	1.70	3.16	NO	
L0002638	0	0.20450E-02	631525.7	4175295.1	58.7	4.00	1.70	3.16	NO	

L0002639	0	0.20450E-02	631522.8	4175297.4	58.7	4.00	1.70	3.16	NO
L0002640	0	0.20450E-02	631520.0	4175299.7	58.7	4.00	1.70	3.16	NO
L0002641	0	0.20450E-02	631517.1	4175301.9	58.7	4.00	1.70	3.16	NO
L0002642	0	0.20450E-02	631514.2	4175304.2	58.7	4.00	1.70	3.16	NO
L0002643	0	0.20450E-02	631511.4	4175306.5	58.8	4.00	1.70	3.16	NO
L0002644	0	0.20450E-02	631508.5	4175308.8	58.9	4.00	1.70	3.16	NO
L0002645	0	0.20450E-02	631505.6	4175311.0	58.9	4.00	1.70	3.16	NO
L0002646	0	0.20450E-02	631502.8	4175313.3	59.0	4.00	1.70	3.16	NO
L0002647	0	0.20450E-02	631499.9	4175315.6	59.0	4.00	1.70	3.16	NO
L0002648	0	0.20450E-02	631497.0	4175317.8	59.1	4.00	1.70	3.16	NO
L0002649	0	0.20450E-02	631494.2	4175320.1	59.1	4.00	1.70	3.16	NO
L0002650	0	0.20450E-02	631491.3	4175322.4	59.0	4.00	1.70	3.16	NO
L0002651	0	0.20450E-02	631488.4	4175324.7	58.9	4.00	1.70	3.16	NO
L0002652	0	0.20450E-02	631485.6	4175326.9	58.8	4.00	1.70	3.16	NO
L0002653	0	0.20450E-02	631482.7	4175329.2	58.8	4.00	1.70	3.16	NO
L0002654	0	0.20450E-02	631479.8	4175331.5	58.7	4.00	1.70	3.16	NO
L0002655	0	0.20450E-02	631477.0	4175333.7	58.6	4.00	1.70	3.16	NO
L0002656	0	0.20450E-02	631474.1	4175336.0	58.6	4.00	1.70	3.16	NO
L0002657	0	0.20450E-02	631471.2	4175338.3	58.6	4.00	1.70	3.16	NO
L0002658	0	0.20450E-02	631470.7	4175341.7	58.6	4.00	1.70	3.16	NO
L0002659	0	0.20450E-02	631470.7	4175345.4	58.6	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0002660	0	0.20450E-02	631470.7	4175349.0	58.5	4.00	1.70	3.16	NO	
L0002661	0	0.20450E-02	631470.7	4175352.7	58.3	4.00	1.70	3.16	NO	
L0002662	0	0.20450E-02	631470.7	4175356.3	58.1	4.00	1.70	3.16	NO	
L0002663	0	0.20450E-02	631470.7	4175360.0	57.9	4.00	1.70	3.16	NO	
L0002664	0	0.20450E-02	631470.6	4175363.6	57.7	4.00	1.70	3.16	NO	
L0002665	0	0.20450E-02	631470.6	4175367.3	57.5	4.00	1.70	3.16	NO	
L0002666	0	0.20450E-02	631470.6	4175371.0	57.3	4.00	1.70	3.16	NO	
L0002667	0	0.20450E-02	631470.6	4175374.6	57.1	4.00	1.70	3.16	NO	
L0002668	0	0.20450E-02	631470.6	4175378.3	56.9	4.00	1.70	3.16	NO	
L0002669	0	0.20450E-02	631470.6	4175381.9	56.8	4.00	1.70	3.16	NO	
L0002670	0	0.20450E-02	631470.6	4175385.6	56.7	4.00	1.70	3.16	NO	
L0002671	0	0.20450E-02	631470.6	4175389.2	56.6	4.00	1.70	3.16	NO	
L0002672	0	0.20450E-02	631470.6	4175392.9	56.6	4.00	1.70	3.16	NO	
L0002673	0	0.20450E-02	631470.5	4175396.6	56.5	4.00	1.70	3.16	NO	
L0002674	0	0.20450E-02	631470.5	4175400.2	56.5	4.00	1.70	3.16	NO	
L0002675	0	0.20450E-02	631470.5	4175403.9	56.4	4.00	1.70	3.16	NO	
L0002676	0	0.20450E-02	631470.5	4175407.5	56.3	4.00	1.70	3.16	NO	
L0002677	0	0.20450E-02	631470.5	4175411.2	56.3	4.00	1.70	3.16	NO	
L0002678	0	0.20450E-02	631470.5	4175414.8	56.3	4.00	1.70	3.16	NO	
L0002679	0	0.20450E-02	631470.5	4175418.5	56.2	4.00	1.70	3.16	NO	
L0002680	0	0.20450E-02	631470.5	4175422.2	56.2	4.00	1.70	3.16	NO	

L0002681	0	0.20450E-02	631470.5	4175425.8	56.1	4.00	1.70	3.16	NO
L0002682	0	0.20450E-02	631470.5	4175429.5	56.1	4.00	1.70	3.16	NO
L0002683	0	0.20450E-02	631470.4	4175433.1	56.1	4.00	1.70	3.16	NO
L0002684	0	0.20450E-02	631470.4	4175436.8	56.0	4.00	1.70	3.16	NO
L0002685	0	0.20450E-02	631470.4	4175440.5	56.0	4.00	1.70	3.16	NO
L0002686	0	0.20450E-02	631470.4	4175444.1	56.0	4.00	1.70	3.16	NO
L0002687	0	0.20450E-02	631470.4	4175447.8	55.9	4.00	1.70	3.16	NO
L0002688	0	0.20450E-02	631470.4	4175451.4	55.9	4.00	1.70	3.16	NO
L0002689	0	0.20450E-02	631470.4	4175455.1	55.9	4.00	1.70	3.16	NO
L0002690	0	0.20450E-02	631470.4	4175458.7	55.9	4.00	1.70	3.16	NO
L0002691	0	0.20450E-02	631470.4	4175462.4	55.8	4.00	1.70	3.16	NO
L0002692	0	0.20450E-02	631470.4	4175466.1	55.8	4.00	1.70	3.16	NO
L0002693	0	0.20450E-02	631470.3	4175469.7	55.8	4.00	1.70	3.16	NO
L0002694	0	0.20450E-02	631470.3	4175473.4	55.8	4.00	1.70	3.16	NO
L0002695	0	0.20450E-02	631470.3	4175477.0	55.7	4.00	1.70	3.16	NO
L0002696	0	0.20450E-02	631470.3	4175480.7	55.7	4.00	1.70	3.16	NO
L0002697	0	0.20450E-02	631470.3	4175484.3	55.7	4.00	1.70	3.16	NO
L0002698	0	0.20450E-02	631470.3	4175488.0	55.6	4.00	1.70	3.16	NO
L0002699	0	0.20450E-02	631470.3	4175491.7	55.6	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002700	0	0.20450E-02	631470.3	4175495.3	55.6	4.00	1.70	3.16	NO	
L0002701	0	0.20450E-02	631470.3	4175499.0	55.6	4.00	1.70	3.16	NO	
L0002702	0	0.20450E-02	631470.2	4175502.6	55.5	4.00	1.70	3.16	NO	
L0002703	0	0.20450E-02	631470.2	4175506.3	55.5	4.00	1.70	3.16	NO	
L0002704	0	0.20450E-02	631470.2	4175509.9	55.5	4.00	1.70	3.16	NO	
L0002705	0	0.20450E-02	631470.2	4175513.6	55.5	4.00	1.70	3.16	NO	
L0002706	0	0.20450E-02	631470.2	4175517.3	55.4	4.00	1.70	3.16	NO	
L0002707	0	0.20450E-02	631470.2	4175520.9	55.4	4.00	1.70	3.16	NO	
L0002708	0	0.20450E-02	631470.2	4175524.6	55.4	4.00	1.70	3.16	NO	
L0002709	0	0.20450E-02	631470.2	4175528.2	55.3	4.00	1.70	3.16	NO	
L0002710	0	0.20450E-02	631470.2	4175531.9	55.3	4.00	1.70	3.16	NO	
L0002711	0	0.20450E-02	631470.2	4175535.5	55.3	4.00	1.70	3.16	NO	
L0002712	0	0.20450E-02	631470.1	4175539.2	55.3	4.00	1.70	3.16	NO	
L0002713	0	0.20450E-02	631470.1	4175542.9	55.2	4.00	1.70	3.16	NO	
L0002714	0	0.20450E-02	631470.1	4175546.5	55.2	4.00	1.70	3.16	NO	
L0002715	0	0.20450E-02	631470.1	4175550.2	55.2	4.00	1.70	3.16	NO	
L0002716	0	0.20450E-02	631470.1	4175553.8	55.2	4.00	1.70	3.16	NO	
L0002717	0	0.20450E-02	631470.1	4175557.5	55.1	4.00	1.70	3.16	NO	
L0002718	0	0.20450E-02	631470.1	4175561.2	55.1	4.00	1.70	3.16	NO	
L0002719	0	0.20450E-02	631470.1	4175564.8	55.1	4.00	1.70	3.16	NO	
L0002720	0	0.20450E-02	631470.1	4175568.5	55.0	4.00	1.70	3.16	NO	
L0002721	0	0.20450E-02	631470.0	4175572.1	55.0	4.00	1.70	3.16	NO	
L0002722	0	0.20450E-02	631470.0	4175575.8	55.0	4.00	1.70	3.16	NO	

L0002723	0	0.20450E-02	631470.0	4175579.4	54.9	4.00	1.70	3.16	NO
L0002724	0	0.20450E-02	631470.0	4175583.1	54.9	4.00	1.70	3.16	NO
L0002725	0	0.20450E-02	631470.0	4175586.8	54.9	4.00	1.70	3.16	NO
L0002726	0	0.20450E-02	631470.0	4175590.4	54.8	4.00	1.70	3.16	NO
L0002727	0	0.20450E-02	631470.0	4175594.1	54.8	4.00	1.70	3.16	NO
L0002728	0	0.20450E-02	631470.0	4175597.7	54.8	4.00	1.70	3.16	NO
L0002729	0	0.20450E-02	631470.0	4175601.4	54.7	4.00	1.70	3.16	NO
L0002730	0	0.20450E-02	631470.0	4175605.0	54.7	4.00	1.70	3.16	NO
L0002731	0	0.20450E-02	631469.9	4175608.7	54.7	4.00	1.70	3.16	NO
L0002732	0	0.20450E-02	631469.9	4175612.4	54.6	4.00	1.70	3.16	NO
L0002733	0	0.20450E-02	631469.9	4175616.0	54.6	4.00	1.70	3.16	NO
L0002734	0	0.20450E-02	631469.9	4175619.7	54.6	4.00	1.70	3.16	NO
L0002735	0	0.20450E-02	631469.9	4175623.3	54.5	4.00	1.70	3.16	NO
L0002736	0	0.20450E-02	631469.9	4175627.0	54.5	4.00	1.70	3.16	NO
L0002737	0	0.20450E-02	631469.9	4175630.6	54.4	4.00	1.70	3.16	NO
L0002738	0	0.20450E-02	631469.9	4175634.3	54.4	4.00	1.70	3.16	NO
L0002739	0	0.20450E-02	631469.9	4175638.0	54.4	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
L0002740	0	0.20450E-02	631469.8	4175641.6	54.3	4.00	1.70	3.16	NO	
L0002741	0	0.20450E-02	631469.8	4175645.3	54.3	4.00	1.70	3.16	NO	
L0002742	0	0.20450E-02	631469.8	4175648.9	54.3	4.00	1.70	3.16	NO	
L0002743	0	0.20450E-02	631469.8	4175652.6	54.2	4.00	1.70	3.16	NO	
L0002744	0	0.20450E-02	631469.8	4175656.2	54.2	4.00	1.70	3.16	NO	
L0002745	0	0.20450E-02	631469.8	4175659.9	54.1	4.00	1.70	3.16	NO	
L0002746	0	0.20450E-02	631469.8	4175663.6	54.1	4.00	1.70	3.16	NO	
L0002747	0	0.20450E-02	631469.8	4175667.2	54.1	4.00	1.70	3.16	NO	
L0002748	0	0.20450E-02	631469.8	4175670.9	54.0	4.00	1.70	3.16	NO	
L0002749	0	0.20450E-02	631469.8	4175674.5	54.0	4.00	1.70	3.16	NO	
L0002750	0	0.20450E-02	631469.7	4175678.2	53.9	4.00	1.70	3.16	NO	
L0002751	0	0.20450E-02	631469.7	4175681.9	53.9	4.00	1.70	3.16	NO	
L0002752	0	0.20450E-02	631469.7	4175685.5	53.9	4.00	1.70	3.16	NO	
L0002753	0	0.20450E-02	631469.7	4175689.2	53.8	4.00	1.70	3.16	NO	
L0002754	0	0.20450E-02	631469.7	4175692.8	53.8	4.00	1.70	3.16	NO	
L0002755	0	0.20450E-02	631469.7	4175696.5	53.8	4.00	1.70	3.16	NO	
L0002756	0	0.20450E-02	631469.7	4175700.1	53.7	4.00	1.70	3.16	NO	
L0002757	0	0.20450E-02	631469.7	4175703.8	53.7	4.00	1.70	3.16	NO	
L0002758	0	0.20450E-02	631469.7	4175707.5	53.6	4.00	1.70	3.16	NO	
L0002759	0	0.20450E-02	631469.6	4175711.1	53.6	4.00	1.70	3.16	NO	
L0002760	0	0.20450E-02	631469.6	4175714.8	53.6	4.00	1.70	3.16	NO	
L0002761	0	0.20450E-02	631469.6	4175718.4	53.5	4.00	1.70	3.16	NO	
L0002762	0	0.20450E-02	631469.6	4175722.1	53.5	4.00	1.70	3.16	NO	
L0002763	0	0.20450E-02	631469.6	4175725.7	53.5	4.00	1.70	3.16	NO	
L0002764	0	0.20450E-02	631469.6	4175729.4	53.4	4.00	1.70	3.16	NO	

L0002765	0	0.20450E-02	631469.6	4175733.1	53.4	4.00	1.70	3.16	NO
L0002766	0	0.20450E-02	631469.6	4175736.7	53.3	4.00	1.70	3.16	NO
L0002767	0	0.20450E-02	631469.6	4175740.4	53.3	4.00	1.70	3.16	NO
L0002768	0	0.20450E-02	631469.6	4175744.0	53.3	4.00	1.70	3.16	NO
L0002769	0	0.20450E-02	631469.5	4175747.7	53.2	4.00	1.70	3.16	NO
L0002770	0	0.20450E-02	631469.5	4175751.3	53.2	4.00	1.70	3.16	NO
L0002771	0	0.20450E-02	631469.5	4175755.0	53.1	4.00	1.70	3.16	NO
L0002772	0	0.20450E-02	631469.5	4175758.7	53.1	4.00	1.70	3.16	NO
L0002773	0	0.20450E-02	631469.5	4175762.3	53.0	4.00	1.70	3.16	NO
L0002774	0	0.20450E-02	631469.5	4175766.0	53.0	4.00	1.70	3.16	NO
L0002775	0	0.20450E-02	631469.5	4175769.6	53.0	4.00	1.70	3.16	NO
L0002776	0	0.20450E-02	631469.5	4175773.3	52.9	4.00	1.70	3.16	NO
L0002777	0	0.20450E-02	631469.5	4175776.9	52.9	4.00	1.70	3.16	NO
L0002778	0	0.20450E-02	631469.4	4175780.6	52.8	4.00	1.70	3.16	NO
L0002779	0	0.20450E-02	631469.4	4175784.3	52.8	4.00	1.70	3.16	NO

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002780	0	0.20450E-02	631469.4	4175787.9	52.8	4.00	1.70	3.16	NO	
L0002781	0	0.20450E-02	631469.4	4175791.6	52.7	4.00	1.70	3.16	NO	
L0002782	0	0.20450E-02	631469.4	4175795.2	52.7	4.00	1.70	3.16	NO	
L0002783	0	0.20450E-02	631469.4	4175798.9	52.6	4.00	1.70	3.16	NO	
L0002784	0	0.20450E-02	631469.4	4175802.6	52.6	4.00	1.70	3.16	NO	
L0002785	0	0.20450E-02	631469.4	4175806.2	52.5	4.00	1.70	3.16	NO	
L0002786	0	0.20450E-02	631469.4	4175809.9	52.5	4.00	1.70	3.16	NO	
L0002787	0	0.20450E-02	631469.4	4175813.5	52.5	4.00	1.70	3.16	NO	
L0002788	0	0.20450E-02	631469.3	4175817.2	52.4	4.00	1.70	3.16	NO	
L0002789	0	0.20450E-02	631469.3	4175820.8	52.4	4.00	1.70	3.16	NO	
L0002790	0	0.20450E-02	631469.3	4175824.5	52.3	4.00	1.70	3.16	NO	
L0002791	0	0.20450E-02	631469.3	4175828.2	52.3	4.00	1.70	3.16	NO	
L0002792	0	0.20450E-02	631469.3	4175831.8	52.3	4.00	1.70	3.16	NO	
L0002793	0	0.20450E-02	631469.3	4175835.5	52.2	4.00	1.70	3.16	NO	
L0002794	0	0.20450E-02	631469.3	4175839.1	52.2	4.00	1.70	3.16	NO	
L0002795	0	0.20450E-02	631469.3	4175842.8	52.1	4.00	1.70	3.16	NO	
L0002796	0	0.20450E-02	631469.3	4175846.4	52.1	4.00	1.70	3.16	NO	
L0002797	0	0.20450E-02	631469.2	4175850.1	52.1	4.00	1.70	3.16	NO	
L0002798	0	0.20450E-02	631469.2	4175853.8	52.0	4.00	1.70	3.16	NO	
L0002799	0	0.20450E-02	631469.2	4175857.4	52.0	4.00	1.70	3.16	NO	
L0002800	0	0.20450E-02	631469.2	4175861.1	52.0	4.00	1.70	3.16	NO	
L0002801	0	0.20450E-02	631469.2	4175864.7	51.9	4.00	1.70	3.16	NO	
L0002802	0	0.20450E-02	631469.2	4175868.4	51.9	4.00	1.70	3.16	NO	
L0002803	0	0.20450E-02	631469.2	4175872.0	51.8	4.00	1.70	3.16	NO	
L0002804	0	0.20450E-02	631469.2	4175875.7	51.8	4.00	1.70	3.16	NO	
L0002805	0	0.20450E-02	631469.2	4175879.4	51.8	4.00	1.70	3.16	NO	
L0002806	0	0.20450E-02	631469.2	4175883.0	51.7	4.00	1.70	3.16	NO	

L0002807	0	0.20450E-02	631469.1	4175886.7	51.7	4.00	1.70	3.16	NO
L0002808	0	0.20450E-02	631469.1	4175890.3	51.6	4.00	1.70	3.16	NO
L0002809	0	0.20450E-02	631469.1	4175894.0	51.6	4.00	1.70	3.16	NO
L0002810	0	0.20450E-02	631469.1	4175897.6	51.6	4.00	1.70	3.16	NO
L0002811	0	0.20450E-02	631469.1	4175901.3	51.5	4.00	1.70	3.16	NO
L0002812	0	0.20450E-02	631469.1	4175905.0	51.5	4.00	1.70	3.16	NO
L0002813	0	0.20450E-02	631469.1	4175908.6	51.4	4.00	1.70	3.16	NO
L0002814	0	0.20450E-02	631469.1	4175912.3	51.4	4.00	1.70	3.16	NO
L0002815	0	0.20450E-02	631469.1	4175915.9	51.4	4.00	1.70	3.16	NO
L0002816	0	0.20450E-02	631469.1	4175919.6	51.3	4.00	1.70	3.16	NO
L0002817	0	0.20450E-02	631469.0	4175923.3	51.3	4.00	1.70	3.16	NO
L0002818	0	0.20450E-02	631469.0	4175926.9	51.2	4.00	1.70	3.16	NO
L0002819	0	0.20450E-02	631469.0	4175930.6	51.2	4.00	1.70	3.16	NO

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002820	0	0.20450E-02	631469.0	4175934.2	51.2	4.00	1.70	3.16	NO	
L0002821	0	0.20450E-02	631469.0	4175937.9	51.1	4.00	1.70	3.16	NO	
L0002822	0	0.20450E-02	631469.0	4175941.5	51.1	4.00	1.70	3.16	NO	
L0002823	0	0.20450E-02	631469.0	4175945.2	51.1	4.00	1.70	3.16	NO	
L0002824	0	0.20450E-02	631469.0	4175948.9	51.0	4.00	1.70	3.16	NO	
L0002825	0	0.20450E-02	631469.0	4175952.5	51.0	4.00	1.70	3.16	NO	
L0002826	0	0.20450E-02	631468.9	4175956.2	51.0	4.00	1.70	3.16	NO	
L0002827	0	0.20450E-02	631468.9	4175959.8	50.9	4.00	1.70	3.16	NO	
L0002828	0	0.20450E-02	631468.9	4175963.5	50.9	4.00	1.70	3.16	NO	
L0002829	0	0.20450E-02	631468.9	4175967.1	50.9	4.00	1.70	3.16	NO	
L0002830	0	0.20450E-02	631468.9	4175970.8	50.9	4.00	1.70	3.16	NO	
L0002831	0	0.20450E-02	631468.9	4175974.5	50.9	4.00	1.70	3.16	NO	
L0002832	0	0.20450E-02	631468.9	4175978.1	50.9	4.00	1.70	3.16	NO	
L0002833	0	0.20450E-02	631468.9	4175981.8	50.9	4.00	1.70	3.16	NO	
L0002834	0	0.20450E-02	631468.9	4175985.4	50.9	4.00	1.70	3.16	NO	
L0002835	0	0.20450E-02	631468.9	4175989.1	50.9	4.00	1.70	3.16	NO	
L0002836	0	0.20450E-02	631468.8	4175992.7	50.9	4.00	1.70	3.16	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

SLINE2 L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 ,
L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 ,
L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 ,
L0003974 , L0003975 , L0003976 , L0003977 , L0003978 , L0003979 , L0003980 , L0003981 ,
L0003982 , L0003983 , L0003984 , L0003985 , L0003986 , L0003987 , L0003988 , L0003989 ,
L0003990 , L0003991 , L0003992 , L0003993 , L0003994 , L0003995 , L0003996 , L0003997 ,
L0003998 , L0003999 , L0004000 , L0004001 , L0004002 , L0004003 , L0004004 , L0004005 ,
L0004006 , L0004007 , L0004008 , L0004009 , L0004010 , L0004011 , L0004012 , L0004013 ,
L0004014 , L0004015 , L0004016 , L0004017 , L0004018 , L0004019 , L0004020 , L0004021 ,
L0004022 , L0004023 , L0004024 , L0004025 , L0004026 , L0004027 , L0004028 , L0004029 ,
L0004030 , L0004031 , L0004032 , L0004033 , L0004034 , L0004035 , L0004036 , L0004037 ,
L0004038 , L0004039 , L0004040 , L0004041 , L0004042 , L0004043 , L0004044 , L0004045 ,
L0004046 , L0004047 , L0004048 , L0004049 , L0004050 , L0004051 , L0004052 , L0004053 ,
L0004054 , L0004055 , L0004056 , L0004057 , L0004058 , L0004059 , L0004060 , L0004061 ,
L0004062 , L0004063 , L0004064 , L0004065 , L0004066 , L0004067 , L0004068 , L0004069 ,
L0004070 , L0004071 , L0004072 , L0004073 , L0004074 , L0004075 , L0004076 , L0004077 ,
L0004078 , L0004079 , L0004080 , L0004081 , L0004082 , L0004083 , L0004084 , L0004085 ,
L0004086 , L0004087 , L0004088 , L0004089 , L0004090 , L0004091 , L0004092 , L0004093 ,
L0004094 , L0004095 , L0004096 , L0004097 , L0004098 , L0004099 , L0004100 , L0004101 ,
L0004102 , L0004103 , L0004104 , L0004105 , L0004106 , L0004107 , L0004108 , L0004109 ,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0004110 , L0004111 , L0004112 , L0004113 , L0004114 , L0004115 , L0004116 , L0004117 ,
L0004118 , L0004119 , L0004120 , L0004121 , L0004122 , L0004123 , L0004124 , L0004125 ,

L0004126 , L0004127 , L0004128 , L0004129 , L0004130 , L0004131 , L0004132 , L0004133 ,

L0004134 , L0004135 , L0004136 , L0004137 , L0004138 , L0004139 , L0004140 , L0004141 ,

L0004142 , L0004143 , L0004144 , L0004145 , L0004146 , L0004147 , L0004148 , L0004149 ,

L0004150 , L0004151 , L0004152 , L0004153 , L0004154 , L0004155 , L0004156 , L0004157 ,

L0004158 , L0004159 , L0004160 , L0004161 , L0004162 , L0004163 , L0004164 , L0004165 ,

L0004166 , L0004167 , L0004168 , L0004169 , L0004170 , L0004171 , L0004172 , L0004173 ,

L0004174 , L0004175 , L0004176 , L0004177 , L0004178 , L0004179 , L0004180 , L0004181 ,

L0004182 , L0004183 , L0004184 , L0004185 , L0004186 , L0004187 , L0004188 , L0004189 ,

L0004190 , L0004191 , L0004192 , L0004193 , L0004194 , L0004195 , L0004196 , L0004197 ,

L0004198 , L0004199 , L0004200 , L0004201 , L0004202 , L0004203 , L0004204 , L0004205 ,

L0004206 , L0004207 , L0004208 , L0004209 , L0004210 , L0004211 , L0004212 , L0004213 ,

L0004214 , L0004215 , L0004216 , L0004217 , L0004218 , L0004219 , L0004220 , L0004221 ,

L0004222 , L0004223 , L0004224 , L0004225 , L0004226 , L0004227 , L0004228 , L0004229 ,

L0004230 , L0004231 , L0004232 , L0004233 , L0004234 , L0004235 , L0004236 , L0004237 ,

L0004238 , L0004239 , L0004240 , L0004241 , L0004242 , L0004243 , L0004244 , L0004245 ,

L0004246 , L0004247 , L0004248 , L0004249 , L0004250 , L0004251 , L0004252 , L0004253 ,

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0004294 , L0004295 , L0004296 , L0004297 , L0004298 , L0004299 , L0004300 , L0004301 ,

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L0004318 , L0004319 , L0004320 , L0004321 , L0004322 , L0004323 , L0004324 , L0004325 ,
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L0004358 , L0004359 , L0004360 , L0004361 , L0004362 , L0004363 , L0004364 , L0004365 ,
L0004366 , L0004367 , L0004368 , L0004369 , L0004370 , L0004371 , L0004372 , L0004373 ,
L0004374 , L0004375 , L0004376 , L0004377 , L0004378 , L0004379 , L0004380 , L0004381 ,
L0004382 , L0004383 , L0004384 , L0004385 , L0004386 , L0004387 , L0004388 , L0004389 ,
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L0004398 , L0004399 , L0004400 , L0004401 , L0004402 , L0004403 , L0004404 , L0004405 ,
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0004582 , L0004583 , L0004584 , L0004585 , L0004586 , L0004587 , L0004588 , L0004589 ,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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STCK11 STCK11 ,

STCK12 STCK12 ,

STCK13 STCK13 ,

STCK14 STCK14 ,

STCK2 STCK2 ,

STCK3 STCK3 ,

STCK4 STCK4 ,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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STCK7 STCK7 ,

STCK8 STCK8 ,

STCK9 STCK9 ,

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0002828 , L0002829 , L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 ,

L0002836 ,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-556.7,	99.9,	2	13.4,	482.6,	672.9,	-569.3,	60.0,
3	13.4,	565.7,	649.5,	-564.6,	18.3,	4	13.4,	631.5,	613.1,	-549.6,	-23.9,
5	13.4,	678.2,	573.3,	-521.4,	-65.5,	6	13.4,	704.3,	517.2,	-477.4,	-105.0,
7	13.4,	709.0,	445.4,	-419.0,	-141.3,	8	13.4,	692.1,	360.1,	-347.7,	-173.4,
9	13.4,	658.4,	275.5,	-274.5,	-198.0,	10	13.4,	676.0,	384.9,	-292.3,	-218.8,
11	13.4,	672.9,	482.6,	-301.3,	-232.8,	12	13.4,	649.5,	565.7,	-301.2,	-239.9,
13	13.4,	613.1,	631.5,	-291.8,	-243.0,	14	13.4,	573.3,	678.2,	-273.7,	-234.8,

15 13.4, 517.2, 704.3, -247.2, -218.8, 16 13.4, 445.4, 709.0, -213.2, -196.2,
17 13.4, 360.1, 692.1, -172.7, -167.7, 18 13.4, 275.5, 658.4, -131.2, -136.7,
19 13.4, 384.9, 676.0, -119.2, -99.9, 20 13.4, 482.6, 672.9, -103.6, -60.0,
21 13.4, 565.7, 649.5, -84.9, -18.3, 22 13.4, 631.5, 613.1, -63.6, 23.9,
23 13.4, 678.2, 573.3, -51.9, 65.5, 24 13.4, 704.3, 517.2, -39.8, 105.0,
25 13.4, 709.0, 445.4, -26.5, 141.3, 26 13.4, 692.1, 360.1, -12.4, 173.4,
27 13.4, 658.4, 275.5, -1.1, 198.0, 28 13.4, 676.0, 384.9, -92.6, 218.8,
29 13.4, 672.9, 482.6, -181.3, 232.8, 30 13.4, 649.5, 565.7, -264.5, 239.9,
31 13.4, 613.1, 631.5, -339.7, 243.0, 32 13.4, 573.3, 678.2, -404.6, 234.8,
33 13.4, 517.2, 704.3, -457.1, 218.8, 34 13.4, 445.4, 709.0, -495.8, 196.2,
35 13.4, 360.1, 692.1, -519.4, 167.7, 36 13.4, 275.5, 658.4, -527.2, 136.7,

SOURCE ID: STCK2

IFV BH BW BL XADJ YADJ IFV BH BW BL XADJ YADJ
1 13.4, 384.9, 676.0, -458.3, 117.2, 2 13.4, 482.6, 672.9, -475.3, 94.2,
3 13.4, 565.7, 649.5, -478.0, 68.3, 4 13.4, 631.5, 613.1, -473.0, 40.3,
5 13.4, 678.2, 573.3, -457.2, 11.2, 6 13.4, 704.3, 517.2, -427.4, -18.4,
7 13.4, 709.0, 445.4, -384.8, -47.4, 8 13.4, 692.1, 360.1, -330.4, -74.9,
9 13.4, 658.4, 275.5, -274.5, -98.0, 10 13.4, 676.0, 384.9, -309.7, -120.3,
11 13.4, 672.9, 482.6, -335.5, -138.9, 12 13.4, 649.5, 565.7, -351.2, -153.2,
13 13.4, 613.1, 631.5, -356.1, -166.4, 14 13.4, 573.3, 678.2, -350.3, -170.5,
15 13.4, 517.2, 704.3, -333.8, -168.8, 16 13.4, 445.4, 709.0, -307.1, -162.0,
17 13.4, 360.1, 692.1, -271.1, -150.3, 18 13.4, 275.5, 658.4, -231.2, -136.7,
19 13.4, 384.9, 676.0, -217.7, -117.2, 20 13.4, 482.6, 672.9, -197.6, -94.2,
21 13.4, 565.7, 649.5, -171.5, -68.3, 22 13.4, 631.5, 613.1, -140.2, -40.3,
23 13.4, 678.2, 573.3, -116.2, -11.2, 24 13.4, 704.3, 517.2, -89.8, 18.4,
25 13.4, 709.0, 445.4, -60.7, 47.4, 26 13.4, 692.1, 360.1, -29.7, 74.9,
27 13.4, 658.4, 275.5, -1.1, 98.0, 28 13.4, 676.0, 384.9, -75.2, 120.3,
29 13.4, 672.9, 482.6, -147.1, 138.9, 30 13.4, 649.5, 565.7, -214.5, 153.2,
31 13.4, 613.1, 631.5, -275.4, 166.4, 32 13.4, 573.3, 678.2, -328.0, 170.5,
33 13.4, 517.2, 704.3, -370.5, 168.8, 34 13.4, 445.4, 709.0, -401.8, 162.0,
35 13.4, 360.1, 692.1, -420.9, 150.3, 36 13.4, 275.5, 658.4, -427.2, 136.7,

SOURCE ID: STCK3

IFV BH BW BL XADJ YADJ IFV BH BW BL XADJ YADJ
1 13.4, 384.9, 676.0, -359.8, 134.6, 2 13.4, 482.6, 672.9, -381.4, 128.4,
3 13.4, 565.7, 649.5, -391.4, 118.3, 4 13.4, 631.5, 613.1, -396.4, 104.6,
5 13.4, 678.2, 573.3, -392.9, 87.8, 6 13.4, 704.3, 517.2, -377.4, 68.2,
7 13.4, 709.0, 445.4, -350.6, 46.6, 8 13.4, 692.1, 360.1, -313.0, 23.6,
9 13.4, 658.4, 275.5, -274.5, 2.0, 10 13.4, 676.0, 384.9, -327.1, -21.8,
11 13.4, 672.9, 482.6, -369.7, -44.9, 12 13.4, 649.5, 565.7, -401.2, -66.6,
13 13.4, 613.1, 631.5, -420.4, -89.8, 14 13.4, 573.3, 678.2, -426.9, -106.2,
15 13.4, 517.2, 704.3, -420.4, -118.8, 16 13.4, 445.4, 709.0, -401.1, -127.8,
17 13.4, 360.1, 692.1, -369.6, -133.0, 18 13.4, 275.5, 658.4, -331.2, -136.7,
19 13.4, 384.9, 676.0, -316.2, -134.6, 20 13.4, 482.6, 672.9, -291.6, -128.4,
21 13.4, 565.7, 649.5, -258.1, -118.3, 22 13.4, 631.5, 613.1, -216.8, -104.6,
23 13.4, 678.2, 573.3, -180.5, -87.8, 24 13.4, 704.3, 517.2, -139.8, -68.2,
25 13.4, 709.0, 445.4, -94.9, -46.6, 26 13.4, 692.1, 360.1, -47.1, -23.6,
27 13.4, 658.4, 275.5, -1.1, -2.0, 28 13.4, 676.0, 384.9, -57.9, 21.8,
29 13.4, 672.9, 482.6, -112.9, 44.9, 30 13.4, 649.5, 565.7, -164.5, 66.6,
31 13.4, 613.1, 631.5, -211.2, 89.8, 32 13.4, 573.3, 678.2, -251.4, 106.2,
33 13.4, 517.2, 704.3, -283.9, 118.8, 34 13.4, 445.4, 709.0, -307.9, 127.8,
35 13.4, 360.1, 692.1, -322.5, 133.0, 36 13.4, 275.5, 658.4, -327.2, 136.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-261.3,	152.0,	2	13.4,	482.6,	672.9,	-287.4,	162.6,
3	13.4,	565.7,	649.5,	-304.8,	168.3,	4	13.4,	631.5,	613.1,	-319.8,	168.9,
5	13.4,	678.2,	573.3,	-328.6,	164.4,	6	13.4,	704.3,	517.2,	-327.4,	154.8,
7	13.4,	709.0,	445.4,	-316.4,	140.6,	8	13.4,	692.1,	360.1,	-295.6,	122.1,
9	13.4,	658.4,	275.5,	-274.5,	102.0,	10	13.4,	676.0,	384.9,	-344.4,	76.7,
11	13.4,	672.9,	482.6,	-403.9,	49.1,	12	13.4,	649.5,	565.7,	-451.2,	20.0,
13	13.4,	613.1,	631.5,	-484.7,	-13.2,	14	13.4,	573.3,	678.2,	-503.5,	-41.9,
15	13.4,	517.2,	704.3,	-507.0,	-68.8,	16	13.4,	445.4,	709.0,	-495.1,	-93.6,
17	13.4,	360.1,	692.1,	-468.1,	-115.6,	18	13.4,	275.5,	658.4,	-431.2,	-136.7,
19	13.4,	384.9,	676.0,	-414.7,	-152.0,	20	13.4,	482.6,	672.9,	-385.5,	-162.6,
21	13.4,	565.7,	649.5,	-344.7,	-168.3,	22	13.4,	631.5,	613.1,	-293.4,	-168.9,
23	13.4,	678.2,	573.3,	-244.8,	-164.4,	24	13.4,	704.3,	517.2,	-189.8,	-154.8,
25	13.4,	709.0,	445.4,	-129.1,	-140.6,	26	13.4,	692.1,	360.1,	-64.5,	-122.1,
27	13.4,	658.4,	275.5,	-1.1,	-102.0,	28	13.4,	676.0,	384.9,	-40.5,	-76.7,
29	13.4,	672.9,	482.6,	-78.7,	-49.1,	30	13.4,	649.5,	565.7,	-114.5,	-20.0,
31	13.4,	613.1,	631.5,	-146.9,	13.2,	32	13.4,	573.3,	678.2,	-174.8,	41.9,
33	13.4,	517.2,	704.3,	-197.3,	68.8,	34	13.4,	445.4,	709.0,	-213.9,	93.6,
35	13.4,	360.1,	692.1,	-224.0,	115.6,	36	13.4,	275.5,	658.4,	-227.2,	136.7,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-162.8,	169.3,	2	13.4,	482.6,	672.9,	-193.4,	196.8,
3	13.4,	565.7,	649.5,	-218.2,	218.3,	4	13.4,	631.5,	613.1,	-243.2,	233.2,
5	13.4,	678.2,	573.3,	-264.3,	241.0,	6	13.4,	704.3,	517.2,	-277.4,	241.4,
7	13.4,	709.0,	445.4,	-282.2,	234.5,	8	13.4,	692.1,	360.1,	-278.3,	220.5,
9	13.4,	658.4,	275.5,	-274.5,	202.0,	10	13.4,	676.0,	384.9,	-361.8,	175.2,
11	13.4,	672.9,	482.6,	-438.1,	143.0,	12	13.4,	649.5,	565.7,	-501.2,	106.6,
13	13.4,	613.1,	631.5,	-548.9,	63.4,	14	13.4,	573.3,	678.2,	-580.1,	22.4,
15	13.4,	517.2,	704.3,	-593.6,	-18.8,	16	13.4,	445.4,	709.0,	-589.0,	-59.4,
17	13.4,	360.1,	692.1,	-566.6,	-98.2,	18	13.4,	275.5,	658.4,	-531.2,	-136.7,
19	13.4,	384.9,	676.0,	-513.1,	-169.3,	20	13.4,	482.6,	672.9,	-479.5,	-196.8,
21	13.4,	565.7,	649.5,	-431.3,	-218.3,	22	13.4,	631.5,	613.1,	-370.0,	-233.2,
23	13.4,	678.2,	573.3,	-309.0,	-241.0,	24	13.4,	704.3,	517.2,	-239.8,	-241.4,
25	13.4,	709.0,	445.4,	-163.3,	-234.5,	26	13.4,	692.1,	360.1,	-81.8,	-220.5,
27	13.4,	658.4,	275.5,	-1.1,	-202.0,	28	13.4,	676.0,	384.9,	-23.1,	-175.2,
29	13.4,	672.9,	482.6,	-44.5,	-143.0,	30	13.4,	649.5,	565.7,	-64.5,	-106.6,
31	13.4,	613.1,	631.5,	-82.6,	-63.4,	32	13.4,	573.3,	678.2,	-98.1,	-22.4,
33	13.4,	517.2,	704.3,	-110.7,	18.8,	34	13.4,	445.4,	709.0,	-119.9,	59.4,
35	13.4,	360.1,	692.1,	-125.5,	98.2,	36	13.4,	275.5,	658.4,	-127.2,	136.7,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	233.2,	487.6,	-375.1,	114.2,	2	13.4,	306.2,	483.8,	-387.1,	89.3,

3	13.4,	369.9,	465.4,	-387.3,	61.8,	4	13.4,	422.3,	432.7,	-375.8,	32.3,
5	13.4,	461.9,	387.0,	-352.8,	1.9,	6	13.4,	487.4,	337.6,	-327.2,	-28.6,
7	13.4,	498.2,	282.3,	-296.1,	-58.2,	8	13.4,	493.8,	218.4,	-255.9,	-86.1,
9	13.4,	477.6,	153.2,	-212.2,	-112.9,	10	13.4,	487.6,	233.2,	-230.8,	-131.3,
11	13.4,	483.8,	306.2,	-242.5,	-145.2,	12	13.4,	465.4,	369.9,	-246.7,	-154.6,
13	13.4,	432.7,	422.3,	-243.5,	-159.4,	14	13.4,	387.0,	461.9,	-232.8,	-159.3,
15	13.4,	337.6,	487.4,	-215.1,	-158.4,	16	13.4,	445.4,	709.0,	-119.1,	62.2,
17	13.4,	360.1,	692.1,	-124.9,	103.1,	18	13.4,	275.5,	658.4,	-131.2,	138.3,
19	13.4,	233.2,	487.6,	-112.5,	-114.2,	20	13.4,	306.2,	483.8,	-96.7,	-89.3,
21	13.4,	369.9,	465.4,	-78.0,	-61.8,	22	13.4,	422.3,	432.7,	-57.0,	-32.3,
23	13.4,	461.9,	387.0,	-34.2,	-1.9,	24	13.4,	487.4,	337.6,	-10.4,	28.6,
25	13.4,	498.2,	282.3,	13.8,	58.2,	26	13.4,	692.1,	360.1,	-283.2,	221.1,
27	13.4,	658.4,	275.5,	-276.1,	198.0,	28	13.4,	487.6,	233.2,	-2.4,	131.3,
29	13.4,	483.8,	306.2,	-63.8,	145.2,	30	13.4,	465.4,	369.9,	-123.2,	154.6,
31	13.4,	432.7,	422.3,	-178.8,	159.4,	32	13.4,	387.0,	461.9,	-229.1,	159.3,
33	13.4,	337.6,	487.4,	-272.3,	158.4,	34	13.4,	445.4,	709.0,	-589.9,	-62.2,
35	13.4,	360.1,	692.1,	-567.2,	-103.1,	36	13.4,	275.5,	658.4,	-527.2,	-138.3,

SOURCE ID: STCK7

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-410.5,	-153.6,	2	13.4,	306.2,	483.8,	-293.1,	123.5,
3	13.4,	369.9,	465.4,	-300.7,	111.8,	4	13.4,	422.3,	432.7,	-299.2,	96.6,
5	13.4,	461.9,	387.0,	-288.5,	78.5,	6	13.4,	487.4,	337.6,	-277.2,	58.0,
7	13.4,	498.2,	282.3,	-261.9,	35.7,	8	13.4,	493.8,	218.4,	-238.5,	12.4,
9	13.4,	477.6,	153.2,	-212.2,	-12.9,	10	13.4,	487.6,	233.2,	-248.2,	-32.8,
11	13.4,	483.8,	306.2,	-276.7,	-51.2,	12	13.4,	465.4,	369.9,	-296.7,	-68.0,
13	13.4,	432.7,	422.3,	-307.7,	-82.8,	14	13.4,	387.0,	461.9,	-309.4,	-95.0,
15	13.4,	337.6,	487.4,	-301.7,	-108.4,	16	13.4,	282.3,	498.2,	-284.8,	-120.7,
17	13.4,	360.1,	692.1,	-223.4,	120.5,	18	13.4,	275.5,	658.4,	-231.2,	138.3,
19	13.4,	384.9,	676.0,	-265.4,	153.6,	20	13.4,	306.2,	483.8,	-190.7,	-123.5,
21	13.4,	369.9,	465.4,	-164.7,	-111.8,	22	13.4,	422.3,	432.7,	-133.6,	-96.6,
23	13.4,	461.9,	387.0,	-98.5,	-78.5,	24	13.4,	487.4,	337.6,	-60.4,	-58.0,
25	13.4,	498.2,	282.3,	-20.4,	-35.7,	26	13.4,	493.8,	218.4,	20.1,	-12.4,
27	13.4,	658.4,	275.5,	-276.1,	98.0,	28	13.4,	487.6,	233.2,	15.0,	32.8,
29	13.4,	483.8,	306.2,	-29.6,	51.2,	30	13.4,	465.4,	369.9,	-73.2,	68.0,
31	13.4,	432.7,	422.3,	-114.5,	82.8,	32	13.4,	387.0,	461.9,	-152.5,	95.0,
33	13.4,	337.6,	487.4,	-185.7,	108.4,	34	13.4,	282.3,	498.2,	-213.4,	120.7,
35	13.4,	360.1,	692.1,	-468.7,	-120.5,	36	13.4,	275.5,	658.4,	-427.2,	-138.3,

SOURCE ID: STCK8

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-312.0,	-136.2,	2	13.4,	306.2,	483.8,	-199.2,	157.8,
3	13.4,	369.9,	465.4,	-214.1,	161.8,	4	13.4,	422.3,	432.7,	-222.6,	160.9,
5	13.4,	461.9,	387.0,	-224.2,	155.1,	6	13.4,	487.4,	337.6,	-227.2,	144.6,
7	13.4,	498.2,	282.3,	-227.7,	129.7,	8	13.4,	493.8,	218.4,	-221.2,	110.9,
9	13.4,	477.6,	153.2,	-212.2,	87.1,	10	13.4,	487.6,	233.2,	-265.6,	65.6,
11	13.4,	483.8,	306.2,	-310.9,	42.8,	12	13.4,	465.4,	369.9,	-346.7,	18.6,
13	13.4,	432.7,	422.3,	-372.0,	-6.2,	14	13.4,	387.0,	461.9,	-386.0,	-30.7,
15	13.4,	337.6,	487.4,	-388.3,	-58.4,	16	13.4,	282.3,	498.2,	-378.8,	-86.5,
17	13.4,	218.4,	493.8,	-357.8,	-112.0,	18	13.4,	275.5,	658.4,	-331.2,	138.3,
19	13.4,	384.9,	676.0,	-363.9,	136.2,	20	13.4,	306.2,	483.8,	-284.7,	-157.8,
21	13.4,	369.9,	465.4,	-251.2,	-161.8,	22	13.4,	422.3,	432.7,	-210.2,	-160.9,
23	13.4,	461.9,	387.0,	-162.8,	-155.1,	24	13.4,	487.4,	337.6,	-110.4,	-144.6,
25	13.4,	498.2,	282.3,	-54.6,	-129.7,	26	13.4,	493.8,	218.4,	2.8,	-110.9,

27 13.4, 658.4, 275.5, -276.1, -2.0, 28 13.4, 676.0, 384.9, -328.7, -25.9,
29 13.4, 483.8, 306.2, 4.7, -42.8, 30 13.4, 465.4, 369.9, -23.2, -18.6,
31 13.4, 432.7, 422.3, -50.3, 6.2, 32 13.4, 387.0, 461.9, -75.8, 30.7,
33 13.4, 337.6, 487.4, -99.1, 58.4, 34 13.4, 282.3, 498.2, -119.4, 86.5,
35 13.4, 218.4, 493.8, -136.0, 112.0, 36 13.4, 275.5, 658.4, -327.2, -138.3,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK9

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-213.5,	-118.9,	2	13.4,	482.6,	672.9,	-193.4,	-95.8,
3	13.4,	565.7,	649.5,	-167.3,	-69.8,	4	13.4,	631.5,	613.1,	-143.0,	-41.8,
5	13.4,	461.9,	387.0,	-160.0,	231.7,	6	13.4,	487.4,	337.6,	-177.2,	231.2,
7	13.4,	498.2,	282.3,	-193.5,	223.7,	8	13.4,	493.8,	218.4,	-203.8,	209.4,
9	13.4,	477.6,	153.2,	-212.2,	187.1,	10	13.4,	487.6,	233.2,	-282.9,	164.1,
11	13.4,	483.8,	306.2,	-345.1,	136.7,	12	13.4,	465.4,	369.9,	-396.7,	105.2,
13	13.4,	432.7,	422.3,	-436.3,	70.4,	14	13.4,	387.0,	461.9,	-462.6,	33.5,
15	13.4,	337.6,	487.4,	-474.9,	-8.4,	16	13.4,	282.3,	498.2,	-472.8,	-52.3,
17	13.4,	218.4,	493.8,	-456.2,	-94.6,	18	13.4,	275.5,	658.4,	-431.2,	138.3,
19	13.4,	384.9,	676.0,	-462.4,	118.9,	20	13.4,	482.6,	672.9,	-479.6,	95.8,
21	13.4,	565.7,	649.5,	-482.2,	69.8,	22	13.4,	631.5,	613.1,	-470.1,	41.8,
23	13.4,	461.9,	387.0,	-227.0,	-231.7,	24	13.4,	487.4,	337.6,	-160.4,	-231.2,
25	13.4,	498.2,	282.3,	-88.8,	-223.7,	26	13.4,	493.8,	218.4,	-14.6,	-209.4,
27	13.4,	658.4,	275.5,	-276.1,	-102.0,	28	13.4,	676.0,	384.9,	-311.3,	-124.4,
29	13.4,	672.9,	482.6,	-337.1,	-143.1,	30	13.4,	649.5,	565.7,	-352.7,	-157.5,
31	13.4,	432.7,	422.3,	14.0,	-70.4,	32	13.4,	387.0,	461.9,	0.8,	-33.5,
33	13.4,	337.6,	487.4,	-12.5,	8.4,	34	13.4,	282.3,	498.2,	-25.4,	52.3,
35	13.4,	218.4,	493.8,	-37.5,	94.6,	36	13.4,	275.5,	658.4,	-227.2,	-138.3,

SOURCE ID: STCK10

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	384.9,	676.0,	-115.1,	-101.5,	2	13.4,	482.6,	672.9,	-99.4,	-61.6,
3	13.4,	565.7,	649.5,	-80.7,	-19.9,	4	13.4,	631.5,	613.1,	-66.4,	22.5,
5	13.4,	678.2,	573.3,	-53.7,	64.2,	6	13.4,	704.3,	517.2,	-39.3,	103.9,
7	13.4,	709.0,	445.4,	-23.7,	140.5,	8	13.4,	692.1,	360.1,	-7.5,	172.8,
9	13.4,	658.4,	275.5,	0.5,	202.0,	10	13.4,	676.0,	384.9,	-91.0,	222.9,
11	13.4,	672.9,	482.6,	-179.7,	237.1,	12	13.4,	649.5,	565.7,	-263.0,	244.1,
13	13.4,	613.1,	631.5,	-338.3,	240.2,	14	13.4,	573.3,	678.2,	-403.3,	233.0,
15	13.4,	517.2,	704.3,	-456.1,	219.3,	16	13.4,	445.4,	709.0,	-495.0,	199.0,
17	13.4,	360.1,	692.1,	-518.8,	172.6,	18	13.4,	275.5,	658.4,	-531.2,	138.3,
19	13.4,	384.9,	676.0,	-560.9,	101.5,	20	13.4,	482.6,	672.9,	-573.6,	61.6,
21	13.4,	565.7,	649.5,	-568.8,	19.9,	22	13.4,	631.5,	613.1,	-546.8,	-22.5,
23	13.4,	678.2,	573.3,	-519.7,	-64.2,	24	13.4,	704.3,	517.2,	-477.9,	-103.9,
25	13.4,	709.0,	445.4,	-421.7,	-140.5,	26	13.4,	692.1,	360.1,	-352.6,	-172.8,
27	13.4,	658.4,	275.5,	-276.1,	-202.0,	28	13.4,	676.0,	384.9,	-293.9,	-222.9,
29	13.4,	672.9,	482.6,	-302.9,	-237.1,	30	13.4,	649.5,	565.7,	-302.7,	-244.1,
31	13.4,	613.1,	631.5,	-293.3,	-240.2,	32	13.4,	573.3,	678.2,	-274.9,	-233.0,
33	13.4,	517.2,	704.3,	-248.2,	-219.3,	34	13.4,	445.4,	709.0,	-214.0,	-199.0,

35 13.4, 360.1, 692.1, -173.2, -172.6, 36 13.4, 275.5, 658.4, -127.2, -138.3,

SOURCE ID: STCK11

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	233.2,	487.6,	-266.2,	72.5,	2	13.4,	306.2,	483.8,	-272.6,	67.2,
3	13.4,	369.9,	465.4,	-270.7,	59.8,	4	13.4,	422.3,	432.7,	-260.6,	50.6,
5	13.4,	461.9,	387.0,	-242.6,	39.9,	6	13.4,	487.4,	337.6,	-225.3,	28.0,
7	13.4,	498.2,	282.3,	-205.5,	15.2,	8	13.4,	493.8,	218.4,	-179.4,	2.0,
9	13.4,	477.6,	153.2,	-152.2,	-12.9,	10	13.4,	487.6,	233.2,	-189.1,	-22.4,
11	13.4,	483.8,	306.2,	-220.3,	-30.7,	12	13.4,	465.4,	369.9,	-244.7,	-38.0,
13	13.4,	432.7,	422.3,	-261.8,	-44.2,	14	13.4,	387.0,	461.9,	-270.9,	-49.1,
15	13.4,	337.6,	487.4,	-271.7,	-56.5,	16	13.4,	282.3,	498.2,	-264.3,	-64.3,
17	13.4,	218.4,	493.8,	-248.9,	-70.2,	18	13.4,	153.2,	477.6,	-225.9,	-75.6,
19	13.4,	233.2,	487.6,	-221.4,	-72.5,	20	13.4,	306.2,	483.8,	-211.2,	-67.2,
21	13.4,	369.9,	465.4,	-194.7,	-59.8,	22	13.4,	422.3,	432.7,	-172.2,	-50.6,
23	13.4,	461.9,	387.0,	-144.4,	-39.9,	24	13.4,	487.4,	337.6,	-112.3,	-28.0,
25	13.4,	498.2,	282.3,	-76.8,	-15.2,	26	13.4,	493.8,	218.4,	-38.9,	-2.0,
27	13.4,	477.6,	153.2,	-1.0,	12.9,	28	13.4,	487.6,	233.2,	-44.1,	22.4,
29	13.4,	483.8,	306.2,	-85.9,	30.7,	30	13.4,	465.4,	369.9,	-125.1,	38.0,
31	13.4,	432.7,	422.3,	-160.5,	44.2,	32	13.4,	387.0,	461.9,	-191.0,	49.1,
33	13.4,	337.6,	487.4,	-215.7,	56.5,	34	13.4,	282.3,	498.2,	-233.9,	64.3,
35	13.4,	218.4,	493.8,	-244.9,	70.2,	36	13.4,	153.2,	477.6,	-251.7,	75.6,

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	233.2,	487.6,	-167.7,	89.9,	2	13.4,	306.2,	483.8,	-178.6,	101.4,
3	13.4,	369.9,	465.4,	-184.1,	109.8,	4	13.4,	422.3,	432.7,	-184.0,	114.9,
5	13.4,	461.9,	387.0,	-178.3,	116.5,	6	13.4,	487.4,	337.6,	-175.3,	114.6,
7	13.4,	498.2,	282.3,	-171.3,	109.2,	8	13.4,	493.8,	218.4,	-162.1,	100.5,
9	13.4,	477.6,	153.2,	-152.2,	87.1,	10	13.4,	487.6,	233.2,	-206.5,	76.1,
11	13.4,	483.8,	306.2,	-254.5,	63.3,	12	13.4,	465.4,	369.9,	-294.7,	48.6,
13	13.4,	432.7,	422.3,	-326.1,	32.4,	14	13.4,	387.0,	461.9,	-347.5,	15.2,
15	13.4,	337.6,	487.4,	-358.3,	-6.5,	16	13.4,	282.3,	498.2,	-358.3,	-30.1,
17	13.4,	218.4,	493.8,	-347.4,	-52.9,	18	13.4,	153.2,	477.6,	-325.9,	-75.6,
19	13.4,	233.2,	487.6,	-319.9,	-89.9,	20	13.4,	306.2,	483.8,	-305.2,	-101.4,
21	13.4,	369.9,	465.4,	-281.2,	-109.8,	22	13.4,	422.3,	432.7,	-248.8,	-114.9,
23	13.4,	461.9,	387.0,	-208.7,	-116.5,	24	13.4,	487.4,	337.6,	-162.3,	-114.6,
25	13.4,	498.2,	282.3,	-111.0,	-109.2,	26	13.4,	493.8,	218.4,	-56.3,	-100.5,
27	13.4,	477.6,	153.2,	-1.0,	-87.1,	28	13.4,	487.6,	233.2,	-26.8,	-76.1,
29	13.4,	483.8,	306.2,	-51.7,	-63.3,	30	13.4,	465.4,	369.9,	-75.1,	-48.6,
31	13.4,	432.7,	422.3,	-96.2,	-32.4,	32	13.4,	387.0,	461.9,	-114.4,	-15.2,
33	13.4,	337.6,	487.4,	-129.1,	6.5,	34	13.4,	282.3,	498.2,	-139.9,	30.1,
35	13.4,	218.4,	493.8,	-146.5,	52.9,	36	13.4,	153.2,	477.6,	-151.7,	75.6,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK13

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	233.2,	487.6,	-240.2,	-75.2,	2	13.4,	306.2,	483.8,	-221.3,	-73.8,
3	13.4,	369.9,	465.4,	-195.7,	-70.1,	4	13.4,	422.3,	432.7,	-164.2,	-64.3,
5	13.4,	461.9,	387.0,	-127.6,	-56.5,	6	13.4,	487.4,	337.6,	-95.4,	-47.0,
7	13.4,	498.2,	282.3,	-64.5,	-36.1,	8	13.4,	493.8,	218.4,	-31.7,	-24.1,
9	13.4,	477.6,	153.2,	-2.2,	-12.9,	10	13.4,	487.6,	233.2,	-41.4,	3.6,
11	13.4,	483.8,	306.2,	-79.3,	20.6,	12	13.4,	465.4,	369.9,	-114.8,	37.0,
13	13.4,	432.7,	422.3,	-146.9,	52.2,	14	13.4,	387.0,	461.9,	-174.4,	65.8,
15	13.4,	337.6,	487.4,	-196.7,	73.4,	16	13.4,	282.3,	498.2,	-213.0,	76.6,
17	13.4,	218.4,	493.8,	-222.8,	77.5,	18	13.4,	153.2,	477.6,	-225.9,	74.4,
19	13.4,	233.2,	487.6,	-247.4,	75.2,	20	13.4,	306.2,	483.8,	-262.5,	73.8,
21	13.4,	369.9,	465.4,	-269.7,	70.1,	22	13.4,	422.3,	432.7,	-268.6,	64.3,
23	13.4,	461.9,	387.0,	-259.3,	56.5,	24	13.4,	487.4,	337.6,	-242.2,	47.0,
25	13.4,	498.2,	282.3,	-217.8,	36.1,	26	13.4,	493.8,	218.4,	-186.7,	24.1,
27	13.4,	477.6,	153.2,	-151.0,	12.9,	28	13.4,	487.6,	233.2,	-191.8,	-3.6,
29	13.4,	483.8,	306.2,	-226.9,	-20.6,	30	13.4,	465.4,	369.9,	-255.0,	-37.0,
31	13.4,	432.7,	422.3,	-275.4,	-52.2,	32	13.4,	387.0,	461.9,	-287.4,	-65.8,
33	13.4,	337.6,	487.4,	-290.7,	-73.4,	34	13.4,	282.3,	498.2,	-285.2,	-76.6,
35	13.4,	218.4,	493.8,	-271.0,	-77.5,	36	13.4,	153.2,	477.6,	-251.7,	-74.4,

SOURCE ID: STCK14

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.4,	233.2,	487.6,	-141.7,	-57.9,	2	13.4,	306.2,	483.8,	-127.3,	-39.6,
3	13.4,	369.9,	465.4,	-109.1,	-20.1,	4	13.4,	422.3,	432.7,	-87.6,	0.0,
5	13.4,	461.9,	387.0,	-63.4,	20.1,	6	13.4,	487.4,	337.6,	-45.4,	39.6,
7	13.4,	498.2,	282.3,	-30.3,	57.9,	8	13.4,	493.8,	218.4,	-14.4,	74.4,
9	13.4,	477.6,	153.2,	-2.2,	87.1,	10	13.4,	487.6,	233.2,	-58.8,	102.1,
11	13.4,	483.8,	306.2,	-113.5,	114.6,	12	13.4,	465.4,	369.9,	-164.8,	123.6,
13	13.4,	432.7,	422.3,	-211.2,	128.8,	14	13.4,	387.0,	461.9,	-251.1,	130.1,
15	13.4,	337.6,	487.4,	-283.3,	123.4,	16	13.4,	282.3,	498.2,	-307.0,	110.8,
17	13.4,	218.4,	493.8,	-321.3,	94.8,	18	13.4,	153.2,	477.6,	-325.9,	74.4,
19	13.4,	233.2,	487.6,	-345.9,	57.9,	20	13.4,	306.2,	483.8,	-356.5,	39.6,
21	13.4,	369.9,	465.4,	-356.2,	20.1,	22	13.4,	422.3,	432.7,	-345.2,	-0.0,
23	13.4,	461.9,	387.0,	-323.6,	-20.1,	24	13.4,	487.4,	337.6,	-292.2,	-39.6,
25	13.4,	498.2,	282.3,	-252.0,	-57.9,	26	13.4,	493.8,	218.4,	-204.0,	-74.4,
27	13.4,	477.6,	153.2,	-151.0,	-87.1,	28	13.4,	487.6,	233.2,	-174.5,	-102.1,
29	13.4,	483.8,	306.2,	-192.7,	-114.6,	30	13.4,	465.4,	369.9,	-205.0,	-123.6,
31	13.4,	432.7,	422.3,	-211.1,	-128.8,	32	13.4,	387.0,	461.9,	-210.8,	-130.1,
33	13.4,	337.6,	487.4,	-204.1,	-123.4,	34	13.4,	282.3,	498.2,	-191.2,	-110.8,
35	13.4,	218.4,	493.8,	-172.5,	-94.8,	36	13.4,	153.2,	477.6,	-151.7,	-74.4,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	632121.2,	4174952.4,	58.1,	58.1,	0.0);	(	632304.4,	4174354.5,	71.1,	71.1,	0.0);
(	632192.2,	4174956.3,	56.8,	56.8,	0.0);	(	632420.6,	4175510.1,	46.0,	46.0,	0.0);
(	632419.0,	4175552.9,	45.6,	45.6,	0.0);	(	631187.0,	4175727.0,	56.4,	56.4,	0.0);
(	631166.0,	4175729.0,	56.1,	56.1,	0.0);	(	631121.0,	4175719.0,	56.0,	56.0,	0.0);

(631035.0, 4174830.0, 71.6, 71.6, 0.0); (631106.0, 4174825.0, 71.3, 71.3, 0.0);
(631937.0, 4174528.0, 67.1, 67.1, 0.0); (631322.0, 4174522.0, 87.6, 87.6, 0.0);
(629800.6, 4173850.4, 117.9, 261.9, 0.0); (630150.6, 4173850.4, 118.9, 261.9, 0.0);
(630500.6, 4173850.4, 111.9, 261.9, 0.0); (630850.6, 4173850.4, 95.0, 304.8, 0.0);
(631200.6, 4173850.4, 104.5, 104.5, 0.0); (631550.6, 4173850.4, 89.4, 180.1, 0.0);
(631900.6, 4173850.4, 96.9, 105.0, 0.0); (632250.6, 4173850.4, 85.5, 85.5, 0.0);
(632600.6, 4173850.4, 77.2, 77.2, 0.0); (632950.6, 4173850.4, 69.6, 69.6, 0.0);
(633300.6, 4173850.4, 62.8, 62.8, 0.0); (629800.6, 4174200.4, 106.6, 261.9, 0.0);
(630150.6, 4174200.4, 100.2, 261.9, 0.0); (630500.6, 4174200.4, 88.8, 261.9, 0.0);
(630850.6, 4174200.4, 90.2, 90.2, 0.0); (631200.6, 4174200.4, 93.5, 99.0, 0.0);
(631550.6, 4174200.4, 80.9, 80.9, 0.0); (631900.6, 4174200.4, 75.8, 75.8, 0.0);
(632250.6, 4174200.4, 75.2, 75.2, 0.0); (632600.6, 4174200.4, 70.8, 70.8, 0.0);
(632950.6, 4174200.4, 65.2, 65.2, 0.0); (633300.6, 4174200.4, 59.6, 59.6, 0.0);
(629800.6, 4174550.4, 86.6, 247.1, 0.0); (630150.6, 4174550.4, 85.5, 85.5, 0.0);
(630500.6, 4174550.4, 78.0, 85.7, 0.0); (630850.6, 4174550.4, 78.2, 78.2, 0.0);
(631200.6, 4174550.4, 76.2, 91.7, 0.0); (631550.6, 4174550.4, 77.9, 78.4, 0.0);
(631900.6, 4174550.4, 66.3, 66.3, 0.0); (632250.6, 4174550.4, 66.5, 66.5, 0.0);
(632600.6, 4174550.4, 64.5, 64.5, 0.0); (632950.6, 4174550.4, 59.5, 59.5, 0.0);
(633300.6, 4174550.4, 54.6, 54.6, 0.0); (629800.6, 4174900.4, 85.9, 85.9, 0.0);
(630150.6, 4174900.4, 84.0, 88.1, 0.0); (630500.6, 4174900.4, 73.5, 73.5, 0.0);
(630850.6, 4174900.4, 70.7, 70.7, 0.0); (631200.6, 4174900.4, 69.0, 69.0, 0.0);
(631550.6, 4174900.4, 64.3, 64.3, 0.0); (631900.6, 4174900.4, 59.6, 59.6, 0.0);
(632250.6, 4174900.4, 58.2, 58.2, 0.0); (632600.6, 4174900.4, 57.3, 57.3, 0.0);
(632950.6, 4174900.4, 54.1, 54.1, 0.0); (633300.6, 4174900.4, 50.1, 50.1, 0.0);
(629800.6, 4175250.4, 82.6, 82.6, 0.0); (630150.6, 4175250.4, 74.2, 74.2, 0.0);
(630500.6, 4175250.4, 67.4, 67.4, 0.0); (630850.6, 4175250.4, 66.4, 66.4, 0.0);
(631200.6, 4175250.4, 61.6, 61.6, 0.0); (631550.6, 4175250.4, 58.8, 58.8, 0.0);
(631900.6, 4175250.4, 53.5, 53.5, 0.0); (632250.6, 4175250.4, 51.4, 51.4, 0.0);
(632600.6, 4175250.4, 49.6, 49.6, 0.0); (632950.6, 4175250.4, 47.6, 47.6, 0.0);
(633300.6, 4175250.4, 44.6, 44.6, 0.0); (629800.6, 4175600.4, 71.0, 71.0, 0.0);
(630150.6, 4175600.4, 68.8, 68.8, 0.0); (630500.6, 4175600.4, 66.7, 66.7, 0.0);
(630850.6, 4175600.4, 64.6, 64.6, 0.0); (631200.6, 4175600.4, 58.7, 58.7, 0.0);
(631550.6, 4175600.4, 53.8, 53.8, 0.0); (631900.6, 4175600.4, 49.5, 49.5, 0.0);
(632250.6, 4175600.4, 46.2, 46.2, 0.0); (632600.6, 4175600.4, 43.4, 43.4, 0.0);
(632950.6, 4175600.4, 39.7, 47.5, 0.0); (633300.6, 4175600.4, 39.3, 39.3, 0.0);
(629800.6, 4175950.4, 66.5, 66.5, 0.0); (630150.6, 4175950.4, 67.9, 67.9, 0.0);
(630500.6, 4175950.4, 61.8, 61.8, 0.0); (630850.6, 4175950.4, 57.3, 57.3, 0.0);
(631200.6, 4175950.4, 53.0, 53.0, 0.0); (631550.6, 4175950.4, 50.1, 50.1, 0.0);
(631900.6, 4175950.4, 46.2, 46.2, 0.0); (632250.6, 4175950.4, 42.8, 42.8, 0.0);
(632600.6, 4175950.4, 40.5, 40.5, 0.0); (632950.6, 4175950.4, 39.5, 39.5, 0.0);
(633300.6, 4175950.4, 35.3, 35.3, 0.0); (629800.6, 4176300.4, 62.9, 62.9, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(630150.6, 4176300.4, 60.3, 60.3, 0.0); (630500.6, 4176300.4, 56.5, 56.5, 0.0);
(630850.6, 4176300.4, 51.8, 51.8, 0.0); (631200.6, 4176300.4, 49.2, 49.2, 0.0);
(631550.6, 4176300.4, 46.3, 46.3, 0.0); (631900.6, 4176300.4, 42.1, 42.1, 0.0);
(632250.6, 4176300.4, 39.6, 39.6, 0.0); (632600.6, 4176300.4, 37.1, 37.1, 0.0);
(632950.6, 4176300.4, 35.0, 35.0, 0.0); (633300.6, 4176300.4, 32.9, 32.9, 0.0);

(629800.6, 4176650.4, 60.0, 60.0, 0.0); (630150.6, 4176650.4, 54.3, 54.3, 0.0);
(630500.6, 4176650.4, 51.4, 51.4, 0.0); (630850.6, 4176650.4, 49.5, 49.5, 0.0);
(631200.6, 4176650.4, 43.6, 43.6, 0.0); (631550.6, 4176650.4, 42.3, 42.3, 0.0);
(631900.6, 4176650.4, 39.7, 39.7, 0.0); (632250.6, 4176650.4, 36.5, 36.5, 0.0);
(632600.6, 4176650.4, 34.0, 34.0, 0.0); (632950.6, 4176650.4, 31.2, 31.2, 0.0);
(633300.6, 4176650.4, 29.9, 29.9, 0.0); (629800.6, 4177000.4, 54.3, 54.3, 0.0);
(630150.6, 4177000.4, 49.7, 49.7, 0.0); (630500.6, 4177000.4, 48.6, 48.6, 0.0);
(630850.6, 4177000.4, 46.4, 46.4, 0.0); (631200.6, 4177000.4, 40.9, 40.9, 0.0);
(631550.6, 4177000.4, 41.2, 41.2, 0.0); (631900.6, 4177000.4, 35.9, 35.9, 0.0);
(632250.6, 4177000.4, 33.6, 33.6, 0.0); (632600.6, 4177000.4, 31.2, 31.2, 0.0);
(632950.6, 4177000.4, 28.8, 28.8, 0.0); (633300.6, 4177000.4, 27.2, 27.2, 0.0);
(629800.6, 4177350.4, 53.1, 53.1, 0.0); (630150.6, 4177350.4, 47.1, 47.1, 0.0);
(630500.6, 4177350.4, 38.6, 38.6, 0.0); (630850.6, 4177350.4, 41.5, 41.5, 0.0);
(631200.6, 4177350.4, 36.5, 36.5, 0.0); (631550.6, 4177350.4, 36.4, 36.4, 0.0);
(631900.6, 4177350.4, 33.2, 33.2, 0.0); (632250.6, 4177350.4, 30.6, 30.6, 0.0);
(632600.6, 4177350.4, 28.4, 28.4, 0.0); (632950.6, 4177350.4, 26.2, 26.2, 0.0);
(633300.6, 4177350.4, 24.5, 24.5, 0.0); (631670.7, 4175493.6, 53.2, 53.2, 0.0);
(631669.8, 4175641.4, 52.0, 52.0, 0.0); (631665.3, 4175796.4, 50.5, 50.5, 0.0);
(631417.2, 4175826.8, 52.9, 52.9, 0.0); (631417.2, 4175673.7, 54.6, 54.6, 0.0);
(631422.6, 4175484.6, 56.2, 56.2, 0.0); (631268.4, 4175983.7, 52.8, 52.8, 0.0);
(631275.7, 4175524.0, 58.8, 58.8, 0.0); (631345.7, 4175419.5, 58.8, 58.8, 0.0);
(631384.7, 4175441.3, 57.7, 57.7, 0.0); (631491.9, 4175442.2, 55.8, 55.8, 0.0);
(631491.9, 4175414.9, 56.0, 56.0, 0.0); (631385.6, 4175413.1, 59.0, 59.0, 0.0);
(631358.4, 4175395.9, 58.8, 58.8, 0.0); (631409.2, 4175336.8, 58.8, 58.8, 0.0);
(631567.4, 4175236.0, 58.8, 58.8, 0.0); (631756.3, 4175028.8, 58.9, 58.9, 0.0);
(631807.2, 4175003.4, 59.0, 59.0, 0.0); (631867.2, 4174987.9, 58.7, 58.7, 0.0);
(631849.9, 4175988.3, 46.8, 46.8, 0.0); (631268.7, 4175963.8, 52.9, 52.9, 0.0);
(631269.1, 4175943.8, 53.2, 53.2, 0.0); (631269.4, 4175923.8, 53.5, 53.5, 0.0);
(631269.7, 4175903.8, 53.8, 53.8, 0.0); (631270.0, 4175883.8, 54.0, 54.0, 0.0);
(631270.3, 4175863.8, 54.1, 54.1, 0.0); (631270.6, 4175843.8, 53.9, 53.9, 0.0);
(631271.0, 4175823.8, 53.9, 53.9, 0.0); (631271.3, 4175803.8, 54.1, 54.1, 0.0);
(631271.6, 4175783.8, 54.7, 54.7, 0.0); (631271.9, 4175763.9, 55.3, 55.3, 0.0);
(631272.2, 4175743.9, 55.8, 55.8, 0.0); (631272.5, 4175723.9, 56.0, 56.0, 0.0);
(631272.9, 4175703.9, 56.4, 56.4, 0.0); (631273.2, 4175683.9, 56.7, 56.7, 0.0);
(631273.5, 4175663.9, 57.1, 57.1, 0.0); (631273.8, 4175643.9, 57.2, 57.2, 0.0);
(631274.1, 4175623.9, 57.2, 57.2, 0.0); (631274.4, 4175603.9, 57.5, 57.5, 0.0);
(631274.7, 4175584.0, 58.0, 58.0, 0.0); (631275.1, 4175564.0, 58.8, 58.8, 0.0);
(631275.4, 4175544.0, 58.9, 58.9, 0.0); (631285.7, 4175509.1, 58.6, 58.6, 0.0);
(631295.7, 4175494.1, 58.8, 58.8, 0.0); (631305.7, 4175479.2, 58.7, 58.7, 0.0);
(631315.7, 4175464.3, 58.6, 58.6, 0.0); (631325.7, 4175449.3, 58.8, 58.8, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631335.7, 4175434.4, 58.5, 58.5, 0.0); (631358.7, 4175426.8, 58.9, 58.9, 0.0);
(631371.7, 4175434.0, 58.6, 58.6, 0.0); (631402.6, 4175441.4, 57.0, 57.0, 0.0);
(631420.5, 4175441.6, 56.6, 56.6, 0.0); (631438.3, 4175441.8, 56.4, 56.4, 0.0);
(631456.2, 4175441.9, 56.2, 56.2, 0.0); (631474.1, 4175442.1, 55.9, 55.9, 0.0);
(631491.9, 4175428.6, 55.9, 55.9, 0.0); (631474.2, 4175414.6, 56.2, 56.2, 0.0);
(631456.5, 4175414.3, 56.4, 56.4, 0.0); (631438.8, 4175414.0, 56.7, 56.7, 0.0);

(631421.1, 4175413.7, 57.3, 57.3, 0.0); (631403.4, 4175413.4, 58.1, 58.1, 0.0);
(631372.0, 4175404.5, 58.8, 58.8, 0.0); (631371.1, 4175381.1, 58.8, 58.8, 0.0);
(631383.8, 4175366.3, 58.7, 58.7, 0.0); (631396.5, 4175351.6, 58.7, 58.7, 0.0);
(631425.1, 4175326.7, 58.9, 58.9, 0.0); (631440.9, 4175316.6, 58.6, 58.6, 0.0);
(631456.7, 4175306.6, 58.8, 58.8, 0.0); (631472.5, 4175296.5, 58.9, 58.9, 0.0);
(631488.3, 4175286.4, 58.7, 58.7, 0.0); (631504.1, 4175276.3, 58.9, 58.9, 0.0);
(631519.9, 4175266.2, 58.9, 58.9, 0.0); (631535.7, 4175256.1, 58.6, 58.6, 0.0);
(631551.5, 4175246.0, 58.8, 58.8, 0.0); (631580.0, 4175222.1, 58.7, 58.7, 0.0);
(631592.6, 4175208.3, 59.0, 59.0, 0.0); (631605.2, 4175194.5, 58.7, 58.7, 0.0);
(631617.7, 4175180.7, 59.0, 59.0, 0.0); (631630.3, 4175166.9, 58.6, 58.6, 0.0);
(631642.9, 4175153.1, 58.9, 58.9, 0.0); (631655.5, 4175139.3, 58.6, 58.6, 0.0);
(631668.1, 4175125.5, 58.9, 58.9, 0.0); (631680.7, 4175111.7, 58.7, 58.7, 0.0);
(631693.3, 4175097.8, 58.8, 58.8, 0.0); (631705.9, 4175084.0, 58.7, 58.7, 0.0);
(631718.5, 4175070.2, 58.8, 58.8, 0.0); (631731.1, 4175056.4, 58.8, 58.8, 0.0);
(631743.7, 4175042.6, 58.7, 58.7, 0.0); (631773.3, 4175020.3, 58.8, 58.8, 0.0);
(631790.3, 4175011.8, 58.7, 58.7, 0.0); (631822.2, 4174999.5, 59.1, 59.1, 0.0);
(631837.2, 4174995.6, 59.1, 59.1, 0.0); (631852.2, 4174991.8, 58.9, 58.9, 0.0);
(631866.8, 4175007.5, 59.2, 59.2, 0.0); (631866.5, 4175027.1, 58.6, 58.6, 0.0);
(631866.2, 4175046.8, 57.2, 57.2, 0.0); (631865.8, 4175066.4, 56.4, 56.4, 0.0);
(631865.5, 4175086.0, 55.9, 55.9, 0.0); (631865.2, 4175105.6, 55.6, 55.6, 0.0);
(631864.8, 4175125.2, 55.3, 55.3, 0.0); (631864.5, 4175144.8, 55.0, 55.0, 0.0);
(631864.1, 4175164.4, 54.7, 54.7, 0.0); (631863.8, 4175184.1, 54.4, 54.4, 0.0);
(631863.5, 4175203.7, 54.1, 54.1, 0.0); (631863.1, 4175223.3, 53.8, 53.8, 0.0);
(631862.8, 4175242.9, 53.5, 53.5, 0.0); (631862.4, 4175262.5, 53.2, 53.2, 0.0);
(631862.1, 4175282.1, 53.0, 53.0, 0.0); (631861.8, 4175301.8, 52.7, 52.7, 0.0);
(631861.4, 4175321.4, 52.5, 52.5, 0.0); (631861.1, 4175341.0, 52.3, 52.3, 0.0);
(631860.8, 4175360.6, 52.0, 52.0, 0.0); (631860.4, 4175380.2, 51.9, 51.9, 0.0);
(631860.1, 4175399.8, 51.7, 51.7, 0.0); (631859.7, 4175419.4, 51.5, 51.5, 0.0);
(631859.4, 4175439.1, 51.3, 51.3, 0.0); (631859.1, 4175458.7, 51.1, 51.1, 0.0);
(631858.7, 4175478.3, 51.0, 51.0, 0.0); (631858.4, 4175497.9, 50.9, 50.9, 0.0);
(631858.0, 4175517.5, 50.7, 50.7, 0.0); (631857.7, 4175537.1, 50.6, 50.6, 0.0);
(631857.4, 4175556.8, 50.4, 50.4, 0.0); (631857.0, 4175576.4, 50.3, 50.3, 0.0);
(631856.7, 4175596.0, 50.1, 50.1, 0.0); (631856.4, 4175615.6, 50.0, 50.0, 0.0);
(631856.0, 4175635.2, 49.8, 49.8, 0.0); (631855.7, 4175654.8, 49.6, 49.6, 0.0);
(631855.3, 4175674.4, 49.5, 49.5, 0.0); (631855.0, 4175694.0, 49.3, 49.3, 0.0);
(631854.7, 4175713.7, 49.1, 49.1, 0.0); (631854.3, 4175733.3, 49.0, 49.0, 0.0);
(631854.0, 4175752.9, 48.8, 48.8, 0.0); (631853.6, 4175772.5, 48.6, 48.6, 0.0);
(631853.3, 4175792.1, 48.4, 48.4, 0.0); (631853.0, 4175811.7, 48.3, 48.3, 0.0);
(631852.6, 4175831.4, 48.1, 48.1, 0.0); (631852.3, 4175851.0, 48.0, 48.0, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631852.0, 4175870.6, 47.8, 47.8, 0.0); (631851.6, 4175890.2, 47.6, 47.6, 0.0);
(631851.3, 4175909.8, 47.4, 47.4, 0.0); (631850.9, 4175929.4, 47.2, 47.2, 0.0);
(631850.6, 4175949.0, 47.1, 47.1, 0.0); (631850.3, 4175968.7, 47.0, 47.0, 0.0);
(631830.5, 4175988.1, 47.0, 47.0, 0.0); (631811.2, 4175988.0, 47.2, 47.2, 0.0);
(631791.8, 4175987.8, 47.4, 47.4, 0.0); (631772.4, 4175987.7, 47.6, 47.6, 0.0);
(631753.0, 4175987.5, 47.8, 47.8, 0.0); (631733.6, 4175987.4, 48.0, 48.0, 0.0);
(631714.2, 4175987.2, 48.1, 48.1, 0.0); (631694.9, 4175987.1, 48.3, 48.3, 0.0);

(631675.5, 4175986.9, 48.5, 48.5, 0.0); (631656.1, 4175986.8, 48.8, 48.8, 0.0);
(631636.7, 4175986.6, 49.0, 49.0, 0.0); (631617.3, 4175986.5, 49.2, 49.2, 0.0);
(631597.9, 4175986.3, 49.5, 49.5, 0.0); (631578.6, 4175986.2, 49.7, 49.7, 0.0);
(631559.2, 4175986.0, 49.9, 49.9, 0.0); (631539.8, 4175985.9, 50.1, 50.1, 0.0);
(631520.4, 4175985.7, 50.3, 50.3, 0.0); (631501.0, 4175985.6, 50.5, 50.5, 0.0);
(631481.6, 4175985.4, 50.7, 50.7, 0.0); (631462.2, 4175985.2, 50.9, 50.9, 0.0);
(631442.9, 4175985.1, 51.1, 51.1, 0.0); (631423.5, 4175984.9, 51.3, 51.3, 0.0);
(631404.1, 4175984.8, 51.5, 51.5, 0.0); (631384.7, 4175984.6, 51.8, 51.8, 0.0);
(631365.3, 4175984.5, 51.9, 51.9, 0.0); (631346.0, 4175984.3, 52.1, 52.1, 0.0);
(631326.6, 4175984.2, 52.3, 52.3, 0.0); (631307.2, 4175984.0, 52.5, 52.5, 0.0);
(631287.8, 4175983.9, 52.7, 52.7, 0.0); (631050.6, 4175100.5, 65.6, 65.6, 0.0);
(631050.6, 4175200.5, 64.5, 64.5, 0.0); (631050.6, 4175300.5, 63.6, 63.6, 0.0);
(631050.6, 4175400.5, 62.8, 62.8, 0.0); (631050.6, 4175500.5, 62.3, 62.3, 0.0);
(631050.6, 4175600.5, 60.1, 60.1, 0.0); (631050.6, 4175700.5, 60.3, 60.3, 0.0);
(631050.6, 4175800.5, 58.3, 58.3, 0.0); (631050.6, 4175900.5, 55.5, 55.5, 0.0);
(631050.6, 4176000.5, 54.7, 54.7, 0.0); (631050.6, 4176100.5, 53.8, 53.8, 0.0);
(631150.6, 4175100.5, 64.9, 64.9, 0.0); (631150.6, 4175200.5, 62.9, 62.9, 0.0);
(631150.6, 4175300.5, 61.3, 61.3, 0.0); (631150.6, 4175400.5, 60.5, 60.5, 0.0);
(631150.6, 4175500.5, 60.0, 60.0, 0.0); (631150.6, 4175600.5, 58.9, 58.9, 0.0);
(631150.6, 4175700.5, 56.5, 56.5, 0.0); (631150.6, 4175800.5, 54.7, 54.7, 0.0);
(631150.6, 4175900.5, 53.7, 53.7, 0.0); (631150.6, 4176000.5, 53.3, 53.3, 0.0);
(631150.6, 4176100.5, 51.6, 51.6, 0.0); (631250.6, 4175100.5, 64.0, 64.0, 0.0);
(631250.6, 4175200.5, 62.1, 62.1, 0.0); (631250.6, 4175300.5, 60.4, 60.4, 0.0);
(631250.6, 4175400.5, 59.5, 59.5, 0.0); (631250.6, 4175500.5, 59.4, 59.4, 0.0);
(631250.6, 4175600.5, 58.4, 58.4, 0.0); (631250.6, 4175700.5, 56.7, 56.7, 0.0);
(631250.6, 4175800.5, 53.7, 53.7, 0.0); (631250.6, 4175900.5, 53.9, 53.9, 0.0);
(631250.6, 4176000.5, 52.8, 52.8, 0.0); (631250.6, 4176100.5, 51.1, 51.1, 0.0);
(631350.6, 4175100.5, 63.0, 63.0, 0.0); (631350.6, 4175200.5, 61.1, 61.1, 0.0);
(631350.6, 4175300.5, 59.4, 59.4, 0.0); (631350.6, 4175400.5, 58.9, 58.9, 0.0);
(631350.6, 4175500.5, 57.6, 57.6, 0.0); (631350.6, 4175600.5, 56.2, 56.2, 0.0);
(631350.6, 4175700.5, 55.1, 55.1, 0.0); (631350.6, 4175800.5, 54.0, 54.0, 0.0);
(631350.6, 4175900.5, 52.9, 52.9, 0.0); (631350.6, 4176000.5, 52.0, 52.0, 0.0);
(631350.6, 4176100.5, 50.7, 50.7, 0.0); (631450.6, 4175100.5, 61.9, 61.9, 0.0);
(631450.6, 4175200.5, 60.0, 60.0, 0.0); (631450.6, 4175300.5, 59.0, 59.0, 0.0);
(631450.6, 4175400.5, 56.8, 56.8, 0.0); (631450.6, 4175500.5, 55.8, 55.8, 0.0);
(631450.6, 4175600.5, 55.0, 55.0, 0.0); (631450.6, 4175700.5, 53.9, 53.9, 0.0);
(631450.6, 4175800.5, 52.8, 52.8, 0.0); (631450.6, 4175900.5, 51.7, 51.7, 0.0);
(631450.6, 4176000.5, 51.1, 51.1, 0.0); (631450.6, 4176100.5, 50.4, 50.4, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631550.6, 4175100.5, 60.2, 60.2, 0.0); (631550.6, 4175200.5, 59.4, 59.4, 0.0);
(631550.6, 4175300.5, 58.2, 58.2, 0.0); (631550.6, 4175400.5, 55.5, 55.5, 0.0);
(631550.6, 4175500.5, 54.6, 54.6, 0.0); (631550.6, 4175600.5, 53.8, 53.8, 0.0);
(631550.6, 4175700.5, 52.8, 52.8, 0.0); (631550.6, 4175800.5, 51.7, 51.7, 0.0);
(631550.6, 4175900.5, 50.6, 50.6, 0.0); (631550.6, 4176000.5, 50.0, 50.0, 0.0);
(631550.6, 4176100.5, 48.7, 48.7, 0.0); (631650.6, 4175100.5, 59.7, 59.7, 0.0);
(631650.6, 4175200.5, 58.8, 58.8, 0.0); (631650.6, 4175300.5, 55.3, 55.3, 0.0);
(631650.6, 4175400.5, 54.2, 54.2, 0.0); (631650.6, 4175500.5, 53.4, 53.4, 0.0);

(631650.6, 4175600.5, 52.6, 52.6, 0.0); (631650.6, 4175700.5, 51.6, 51.6, 0.0);
(631650.6, 4175800.5, 50.6, 50.6, 0.0); (631650.6, 4175900.5, 49.5, 49.5, 0.0);
(631650.6, 4176000.5, 48.8, 48.8, 0.0); (631650.6, 4176100.5, 47.5, 47.5, 0.0);
(631750.6, 4175100.5, 57.9, 57.9, 0.0); (631750.6, 4175200.5, 55.3, 55.3, 0.0);
(631750.6, 4175300.5, 54.0, 54.0, 0.0); (631750.6, 4175400.5, 53.0, 53.0, 0.0);
(631750.6, 4175500.5, 52.2, 52.2, 0.0); (631750.6, 4175600.5, 51.4, 51.4, 0.0);
(631750.6, 4175700.5, 50.5, 50.5, 0.0); (631750.6, 4175800.5, 49.5, 49.5, 0.0);
(631750.6, 4175900.5, 48.4, 48.4, 0.0); (631750.6, 4176000.5, 47.7, 47.7, 0.0);
(631750.6, 4176100.5, 46.2, 46.2, 0.0); (631850.6, 4175100.5, 55.5, 55.5, 0.0);
(631850.6, 4175200.5, 54.0, 54.0, 0.0); (631850.6, 4175300.5, 52.8, 52.8, 0.0);
(631850.6, 4175400.5, 51.8, 51.8, 0.0); (631850.6, 4175500.5, 51.0, 51.0, 0.0);
(631850.6, 4175600.5, 50.2, 50.2, 0.0); (631850.6, 4175700.5, 49.3, 49.3, 0.0);
(631850.6, 4175800.5, 48.4, 48.4, 0.0); (631850.6, 4175900.5, 47.5, 47.5, 0.0);
(631850.6, 4176000.5, 46.6, 46.6, 0.0); (631850.6, 4176100.5, 44.8, 44.8, 0.0);
(631950.6, 4175100.5, 55.8, 55.8, 0.0); (631950.6, 4175200.5, 54.1, 54.1, 0.0);
(631950.6, 4175300.5, 52.3, 52.3, 0.0); (631950.6, 4175400.5, 50.7, 50.7, 0.0);
(631950.6, 4175500.5, 49.8, 49.8, 0.0); (631950.6, 4175600.5, 49.1, 49.1, 0.0);
(631950.6, 4175700.5, 48.1, 48.1, 0.0); (631950.6, 4175800.5, 47.2, 47.2, 0.0);
(631950.6, 4175900.5, 46.2, 46.2, 0.0); (631950.6, 4176000.5, 45.3, 45.3, 0.0);
(631950.6, 4176100.5, 43.4, 43.4, 0.0); (632050.6, 4175100.5, 55.1, 55.1, 0.0);
(632050.6, 4175200.5, 53.3, 53.3, 0.0); (632050.6, 4175300.5, 51.5, 51.5, 0.0);
(632050.6, 4175400.5, 49.9, 49.9, 0.0); (632050.6, 4175500.5, 48.8, 48.8, 0.0);
(632050.6, 4175600.5, 48.1, 48.1, 0.0); (632050.6, 4175700.5, 47.3, 47.3, 0.0);
(632050.6, 4175800.5, 46.2, 46.2, 0.0); (632050.6, 4175900.5, 45.1, 45.1, 0.0);
(632050.6, 4176000.5, 44.2, 44.2, 0.0); (632050.6, 4176100.5, 42.7, 42.7, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0004569	631442.9	4175985.1	0.96
L0004580	631481.6	4175985.4	0.98
L0004585	631501.0	4175985.6	0.76
L0004590	631520.4	4175985.7	0.82
L0004596	631539.8	4175985.9	0.91
L0004601	631559.2	4175986.0	0.61
L0004606	631578.6	4175986.2	0.58
L0004611	631597.9	4175986.3	0.83
L0004612	631597.9	4175986.3	0.88
L0004617	631617.3	4175986.5	0.49
L0004622	631636.7	4175986.6	0.35
L0004627	631656.1	4175986.8	0.52
L0004628	631656.1	4175986.8	0.89
L0004632	631675.5	4175986.9	0.95
L0004633	631675.5	4175986.9	0.40
L0004638	631694.9	4175987.1	0.17

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              L0004643           631714.2    4175987.2            0.24
              L0004644           631714.2    4175987.2            0.94
              L0004648           631733.6    4175987.4            0.61
              L0004649           631733.6    4175987.4            0.35
              L0004654           631753.0    4175987.5            0.02
              L0004659           631772.4    4175987.7           -0.01
              L0004664           631791.8    4175987.8            0.27
              L0004665           631791.8    4175987.8            0.35
              L0004669           631811.2    4175988.0            0.82
              L0004670           631811.2    4175988.0           -0.10
              L0004675           631830.5    4175988.1           -0.24
              L0002678           631474.2    4175414.6            0.06
              L0002685           631474.1    4175442.1            0.32
              L0002686           631474.1    4175442.1            0.53
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 *** MODELOPTs:    CONC  ELEV  RURAL  ADJ_U*

                         *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                        (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

            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,
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 *** MODELOPTs:    CONC  ELEV  RURAL  ADJ_U*

                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   AERMET\Tracy_2004-2008.SFC                                     Met Version:  18081
   Profile file:   AERMET\Tracy_2004-2008.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    99008            Upper air station no.:    66666
            Name: TRACY,CA                              Name: UNKNOWN
            Year:   2004                          Year:   2004
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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
04	01	01	1	01	-30.2	0.306	-9.000	-9.000	-999.	406.	102.9	0.09	0.77	1.00	4.10	151.	14.0	282.0	2.0
04	01	01	1	02	-35.7	0.362	-9.000	-9.000	-999.	523.	144.2	0.11	0.77	1.00	4.60	148.	14.0	282.0	2.0
04	01	01	1	03	-44.6	0.453	-9.000	-9.000	-999.	731.	225.4	0.11	0.77	1.00	5.70	144.	14.0	281.8	2.0
04	01	01	1	04	-48.8	0.494	-9.000	-9.000	-999.	833.	268.6	0.11	0.77	1.00	6.20	143.	14.0	281.6	2.0
04	01	01	1	05	-52.8	0.536	-9.000	-9.000	-999.	940.	315.8	0.11	0.77	1.00	6.70	143.	14.0	281.5	2.0
04	01	01	1	06	-57.0	0.578	-9.000	-9.000	-999.	1052.	367.0	0.11	0.77	1.00	7.20	142.	14.0	281.4	2.0
04	01	01	1	07	-61.2	0.619	-9.000	-9.000	-999.	1168.	422.1	0.11	0.77	1.00	7.70	135.	14.0	281.2	2.0
04	01	01	1	08	-64.0	0.658	-9.000	-9.000	-999.	1279.	476.0	0.11	0.77	0.73	8.20	143.	14.0	281.2	2.0
04	01	01	1	09	7.0	0.717	0.238	0.005	68.	1454.	-4692.4	0.11	0.77	0.39	8.70	137.	14.0	281.5	2.0
04	01	01	1	10	43.3	0.655	0.675	0.005	251.	1280.	-574.5	0.09	0.77	0.27	8.20	151.	14.0	282.1	2.0
04	01	01	1	11	70.4	0.549	0.930	0.005	405.	989.	-207.5	0.09	0.77	0.23	6.70	164.	14.0	283.1	2.0
04	01	01	1	12	90.7	0.480	1.217	0.005	703.	804.	-107.8	0.09	0.77	0.21	5.70	166.	14.0	284.1	2.0
04	01	01	1	13	92.9	0.395	1.327	0.005	891.	602.	-58.8	0.08	0.77	0.21	4.60	183.	14.0	284.9	2.0
04	01	01	1	14	81.1	0.321	1.332	0.005	1031.	440.	-36.0	0.08	0.77	0.22	3.60	189.	14.0	285.2	2.0
04	01	01	1	15	47.5	0.160	1.139	0.005	1104.	174.	-7.6	0.08	0.77	0.26	1.50	192.	14.0	284.5	2.0
04	01	01	1	16	19.1	0.076	0.847	0.005	1130.	56.	-2.0	0.12	0.77	0.34	0.50	54.	14.0	283.5	2.0
04	01	01	1	17	-5.0	0.110	-9.000	-9.000	-999.	88.	23.5	0.10	0.77	0.59	1.50	341.	14.0	283.1	2.0
04	01	01	1	18	-5.6	0.111	-9.000	-9.000	-999.	89.	21.5	0.11	0.77	1.00	1.50	307.	14.0	282.2	2.0
04	01	01	1	19	-17.3	0.197	-9.000	-9.000	-999.	209.	42.5	0.10	0.77	1.00	2.60	284.	14.0	281.2	2.0
04	01	01	1	20	-27.2	0.273	-9.000	-9.000	-999.	342.	81.8	0.10	0.77	1.00	3.60	267.	14.0	280.4	2.0
04	01	01	1	21	-31.2	0.312	-9.000	-9.000	-999.	419.	107.3	0.10	0.77	1.00	4.10	260.	14.0	279.8	2.0
04	01	01	1	22	-35.2	0.352	-9.000	-9.000	-999.	501.	136.4	0.10	0.77	1.00	4.60	262.	14.0	279.4	2.0
04	01	01	1	23	-35.3	0.352	-9.000	-9.000	-999.	501.	136.4	0.10	0.77	1.00	4.60	250.	14.0	279.2	2.0
04	01	01	1	24	-31.3	0.312	-9.000	-9.000	-999.	420.	107.3	0.10	0.77	1.00	4.10	240.	14.0	279.0	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
04	01	01	01	14.0	1	151.	4.10	282.1	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.30592	632304.44	4174354.52	0.13846

632192.15	4174956.32	0.30290	632420.62	4175510.15	0.61802
632418.97	4175552.92	0.66035	631187.00	4175727.00	3.09770
631166.00	4175729.00	3.13241	631121.00	4175719.00	2.95485
631035.00	4174830.00	0.18554	631106.00	4174825.00	0.19232
631937.00	4174528.00	0.17194	631322.00	4174522.00	0.11434
629800.63	4173850.44	0.02343	630150.63	4173850.44	0.02478
630500.63	4173850.44	0.02909	630850.63	4173850.44	0.04329
631200.63	4173850.44	0.04472	631550.63	4173850.44	0.06321
631900.63	4173850.44	0.06634	632250.63	4173850.44	0.08041
632600.63	4173850.44	0.08741	632950.63	4173850.44	0.08730
633300.63	4173850.44	0.08411	629800.63	4174200.44	0.03275
630150.63	4174200.44	0.04080	630500.63	4174200.44	0.05386
630850.63	4174200.44	0.06127	631200.63	4174200.44	0.06867
631550.63	4174200.44	0.09595	631900.63	4174200.44	0.11191
632250.63	4174200.44	0.11725	632600.63	4174200.44	0.11744
632950.63	4174200.44	0.11212	633300.63	4174200.44	0.10456
629800.63	4174550.44	0.05679	630150.63	4174550.44	0.06821
630500.63	4174550.44	0.08721	630850.63	4174550.44	0.10405
631200.63	4174550.44	0.12667	631550.63	4174550.44	0.15049
631900.63	4174550.44	0.17957	632250.63	4174550.44	0.17515
632600.63	4174550.44	0.16296	632950.63	4174550.44	0.14923
633300.63	4174550.44	0.13983	629800.63	4174900.44	0.07368
630150.63	4174900.44	0.09553	630500.63	4174900.44	0.14121
630850.63	4174900.44	0.18919	631200.63	4174900.44	0.23773
631550.63	4174900.44	0.29080	631900.63	4174900.44	0.29803
632250.63	4174900.44	0.27236	632600.63	4174900.44	0.23915
632950.63	4174900.44	0.21561	633300.63	4174900.44	0.19569
629800.63	4175250.44	0.10650	630150.63	4175250.44	0.17602
630500.63	4175250.44	0.28689	630850.63	4175250.44	0.43126
631200.63	4175250.44	0.55524	631550.63	4175250.44	0.58867
631900.63	4175250.44	0.54694	632250.63	4175250.44	0.44885
632600.63	4175250.44	0.37953	632950.63	4175250.44	0.32587
633300.63	4175250.44	0.28054	629800.63	4175600.44	0.19159
630150.63	4175600.44	0.36164	630500.63	4175600.44	0.81061
630850.63	4175600.44	1.34903	631200.63	4175600.44	1.65523
631550.63	4175600.44	1.61395	631900.63	4175600.44	1.14059
632250.63	4175600.44	0.81794	632600.63	4175600.44	0.61014
632950.63	4175600.44	0.47009	633300.63	4175600.44	0.37507
629800.63	4175950.44	0.29779	630150.63	4175950.44	0.83886

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	17.29403	630850.63	4175950.44	20.91232
631200.63	4175950.44	23.28690	631550.63	4175950.44	9.34165
631900.63	4175950.44	2.28960	632250.63	4175950.44	1.20513
632600.63	4175950.44	0.78081	632950.63	4175950.44	0.56044
633300.63	4175950.44	0.42558	629800.63	4176300.44	0.35253
630150.63	4176300.44	1.01319	630500.63	4176300.44	2.27322
630850.63	4176300.44	2.88219	631200.63	4176300.44	2.90731
631550.63	4176300.44	1.95320	631900.63	4176300.44	1.22426
632250.63	4176300.44	0.84619	632600.63	4176300.44	0.61684
632950.63	4176300.44	0.47094	633300.63	4176300.44	0.37265
629800.63	4176650.44	0.35677	630150.63	4176650.44	0.63210
630500.63	4176650.44	0.91713	630850.63	4176650.44	1.06285
631200.63	4176650.44	0.98069	631550.63	4176650.44	0.78508
631900.63	4176650.44	0.59974	632250.63	4176650.44	0.46797
632600.63	4176650.44	0.38296	632950.63	4176650.44	0.31970
633300.63	4176650.44	0.27135	629800.63	4177000.44	0.30192
630150.63	4177000.44	0.42017	630500.63	4177000.44	0.52127
630850.63	4177000.44	0.55769	631200.63	4177000.44	0.52100
631550.63	4177000.44	0.45412	631900.63	4177000.44	0.37046
632250.63	4177000.44	0.30477	632600.63	4177000.44	0.25544
632950.63	4177000.44	0.22026	633300.63	4177000.44	0.19427
629800.63	4177350.44	0.24093	630150.63	4177350.44	0.29672
630500.63	4177350.44	0.32888	630850.63	4177350.44	0.34690
631200.63	4177350.44	0.32592	631550.63	4177350.44	0.29740
631900.63	4177350.44	0.25786	632250.63	4177350.44	0.22330
632600.63	4177350.44	0.19016	632950.63	4177350.44	0.16482
633300.63	4177350.44	0.14591	631670.70	4175493.59	1.07441
631669.80	4175641.41	1.66099	631665.32	4175796.39	2.86100
631417.17	4175826.85	5.31238	631417.17	4175673.66	2.30671
631422.55	4175484.63	1.14771	631268.42	4175983.74	62.01476
631275.69	4175523.99	1.25261	631345.65	4175419.50	0.90362
631384.72	4175441.30	0.98899	631491.93	4175442.21	1.00295
631491.93	4175414.95	0.92895	631385.63	4175413.14	0.88549
631358.37	4175395.87	0.84609	631409.25	4175336.81	0.72449
631567.35	4175235.96	0.56922	631756.33	4175028.80	0.37441
631807.22	4175003.36	0.35566	631867.18	4174987.91	0.34348
631849.92	4175988.28	2.61600	631268.74	4175963.75	31.69259
631269.05	4175943.76	20.61334	631269.37	4175923.77	14.94133
631269.68	4175903.78	11.55050	631270.00	4175883.79	9.30349
631270.32	4175863.81	7.70848	631270.63	4175843.82	6.51893

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	5.60338	631271.26	4175803.84	4.87804
631271.58	4175783.85	4.29026	631271.90	4175763.86	3.80449
631272.21	4175743.87	3.39789	631272.53	4175723.88	3.05203
631272.85	4175703.89	2.74832	631273.16	4175683.90	2.48475
631273.48	4175663.91	2.25501	631273.79	4175643.92	2.06099
631274.11	4175623.94	1.89624	631274.43	4175603.95	1.73851
631274.74	4175583.96	1.58416	631275.06	4175563.97	1.44282
631275.37	4175543.98	1.34170	631285.68	4175509.06	1.19452
631295.68	4175494.14	1.13459	631305.67	4175479.21	1.08259
631315.67	4175464.28	1.03366	631325.66	4175449.35	0.98655
631335.66	4175434.43	0.94712	631358.67	4175426.77	0.92153
631371.70	4175434.03	0.94398	631402.59	4175441.45	0.99789
631420.46	4175441.60	1.00305	631438.33	4175441.76	1.00509
631456.19	4175441.91	1.00606	631474.06	4175442.06	1.00599
631491.93	4175428.58	0.96512	631474.21	4175414.65	0.92824
631456.50	4175414.35	0.92701	631438.78	4175414.05	0.92479
631421.06	4175413.74	0.91738	631403.35	4175413.44	0.90289
631372.00	4175404.51	0.86626	631371.09	4175381.11	0.81256
631383.81	4175366.34	0.78203	631396.53	4175351.58	0.75266
631425.06	4175326.73	0.70593	631440.87	4175316.64	0.69042
631456.68	4175306.56	0.67232	631472.49	4175296.47	0.65576
631488.30	4175286.39	0.64155	631504.11	4175276.30	0.62524
631519.92	4175266.22	0.61035	631535.73	4175256.13	0.59741
631551.54	4175246.05	0.58277	631579.95	4175222.15	0.55251
631592.55	4175208.34	0.53499	631605.15	4175194.53	0.52032
631617.74	4175180.72	0.50414	631630.34	4175166.91	0.49135
631642.94	4175153.10	0.47590	631655.54	4175139.29	0.46359
631668.14	4175125.47	0.45001	631680.74	4175111.66	0.43851
631693.34	4175097.85	0.42644	631705.94	4175084.04	0.41542
631718.53	4175070.23	0.40458	631731.13	4175056.42	0.39420
631743.73	4175042.61	0.38448	631773.29	4175020.32	0.36842
631790.26	4175011.84	0.36246	631822.21	4174999.50	0.35232
631837.20	4174995.64	0.34919	631852.19	4174991.77	0.34630
631866.84	4175007.53	0.35330	631866.50	4175027.14	0.36558
631866.16	4175046.76	0.38566	631865.83	4175066.37	0.40164
631865.49	4175085.99	0.41682	631865.15	4175105.60	0.43067
631864.81	4175125.22	0.44522	631864.47	4175144.83	0.46049
631864.13	4175164.45	0.47655	631863.80	4175184.06	0.49343
631863.46	4175203.68	0.51119	631863.12	4175223.29	0.52988
631862.78	4175242.91	0.54958	631862.44	4175262.52	0.57034

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 ,

L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	0.59225	631861.77	4175301.75	0.61536
631861.43	4175321.37	0.63979	631861.09	4175340.98	0.66557
631860.75	4175360.60	0.69285	631860.41	4175380.21	0.72171
631860.07	4175399.83	0.75226	631859.73	4175419.44	0.78460
631859.40	4175439.06	0.81889	631859.06	4175458.67	0.85525
631858.72	4175478.29	0.89385	631858.38	4175497.90	0.93483
631858.04	4175517.52	0.97838	631857.70	4175537.13	1.02466
631857.37	4175556.75	1.07392	631857.03	4175576.36	1.12633
631856.69	4175595.98	1.18220	631856.35	4175615.59	1.24170
631856.01	4175635.21	1.30512	631855.67	4175654.82	1.37267
631855.33	4175674.44	1.44458	631855.00	4175694.05	1.52083
631854.66	4175713.67	1.60164	631854.32	4175733.28	1.68673
631853.98	4175752.90	1.77587	631853.64	4175772.51	1.86849
631853.30	4175792.13	1.96384	631852.97	4175811.74	2.06067
631852.63	4175831.36	2.15739	631852.29	4175850.97	2.25186
631851.95	4175870.59	2.34143	631851.61	4175890.20	2.42343
631851.27	4175909.82	2.49483	631850.94	4175929.43	2.55259
631850.60	4175949.05	2.59390	631850.26	4175968.66	2.61633
631830.54	4175988.13	2.75805	631811.15	4175987.98	2.91428
631791.77	4175987.83	3.08870	631772.39	4175987.67	3.28238
631753.00	4175987.52	3.50026	631733.62	4175987.37	3.74680
631714.24	4175987.22	4.02846	631694.85	4175987.07	4.35299
631675.47	4175986.92	4.73240	631656.09	4175986.77	5.18153
631636.70	4175986.62	5.72189	631617.32	4175986.46	6.38272
631597.94	4175986.31	7.21176	631578.55	4175986.16	8.28598
631559.17	4175986.01	9.73061	631539.79	4175985.86	11.78440
631520.40	4175985.71	14.93203	631501.02	4175985.56	20.31090
631481.64	4175985.40	31.10162	631462.25	4175985.25	54.60299
631442.87	4175985.10	64.31292	631423.49	4175984.95	66.10402
631404.10	4175984.80	66.31151	631384.72	4175984.65	66.00761
631365.34	4175984.50	65.47307	631345.95	4175984.35	64.78416
631326.57	4175984.19	64.03887	631307.19	4175984.04	63.29748
631287.80	4175983.89	62.60280	631050.63	4175100.50	0.35423
631050.63	4175200.50	0.45048	631050.63	4175300.50	0.58380
631050.63	4175400.50	0.77512	631050.63	4175500.50	1.06494
631050.63	4175600.50	1.58778	631050.63	4175700.50	2.47427
631050.63	4175800.50	4.56231	631050.63	4175900.50	10.91110
631050.63	4176000.50	62.00392	631050.63	4176100.50	10.05587
631150.63	4175100.50	0.37375	631150.63	4175200.50	0.47946
631150.63	4175300.50	0.62291	631150.63	4175400.50	0.82480

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.12972	631150.63	4175600.50	1.64298
631150.63	4175700.50	2.69115	631150.63	4175800.50	4.77627
631150.63	4175900.50	11.10074	631150.63	4176000.50	61.39626
631150.63	4176100.50	9.94665	631250.63	4175100.50	0.39186
631250.63	4175200.50	0.49723	631250.63	4175300.50	0.64325
631250.63	4175400.50	0.84709	631250.63	4175500.50	1.15072
631250.63	4175600.50	1.66880	631250.63	4175700.50	2.69703
631250.63	4175800.50	4.78544	631250.63	4175900.50	11.14320
631250.63	4176000.50	59.23755	631250.63	4176100.50	9.77973
631350.63	4175100.50	0.40635	631350.63	4175200.50	0.51138
631350.63	4175300.50	0.65709	631350.63	4175400.50	0.85592
631350.63	4175500.50	1.19027	631350.63	4175600.50	1.73512
631350.63	4175700.50	2.67427	631350.63	4175800.50	4.65350
631350.63	4175900.50	10.84181	631350.63	4176000.50	56.44660
631350.63	4176100.50	9.07434	631450.63	4175100.50	0.41855
631450.63	4175200.50	0.52350	631450.63	4175300.50	0.66160
631450.63	4175400.50	0.88854	631450.63	4175500.50	1.20443
631450.63	4175600.50	1.69565	631450.63	4175700.50	2.55598
631450.63	4175800.50	4.31797	631450.63	4175900.50	9.59493
631450.63	4176000.50	45.73807	631450.63	4176100.50	7.10634
631550.63	4175100.50	0.42937	631550.63	4175200.50	0.52649
631550.63	4175300.50	0.66688	631550.63	4175400.50	0.88257
631550.63	4175500.50	1.16887	631550.63	4175600.50	1.61429
631550.63	4175700.50	2.35448	631550.63	4175800.50	3.71432
631550.63	4175900.50	6.66691	631550.63	4176000.50	10.24437
631550.63	4176100.50	4.98622	631650.63	4175100.50	0.42822
631650.63	4175200.50	0.52235	631650.63	4175300.50	0.67334
631650.63	4175400.50	0.85235	631650.63	4175500.50	1.10933
631650.63	4175600.50	1.49005	631650.63	4175700.50	2.07204
631650.63	4175800.50	2.99946	631650.63	4175900.50	4.46238
631650.63	4176000.50	5.26666	631650.63	4176100.50	3.68686
631750.63	4175100.50	0.43164	631750.63	4175200.50	0.53046
631750.63	4175300.50	0.64881	631750.63	4175400.50	0.80939
631750.63	4175500.50	1.03143	631750.63	4175600.50	1.34338
631750.63	4175700.50	1.79012	631750.63	4175800.50	2.43551
631750.63	4175900.50	3.21808	631750.63	4176000.50	3.50527
631750.63	4176100.50	2.82094	631850.63	4175100.50	0.42908
631850.63	4175200.50	0.51101	631850.63	4175300.50	0.61759
631850.63	4175400.50	0.75836	631850.63	4175500.50	0.94690
631850.63	4175600.50	1.20340	631850.63	4175700.50	1.55591

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.01430	631850.63	4175900.50	2.46727
631850.63	4176000.50	2.59819	631850.63	4176100.50	2.23246
631950.63	4175100.50	0.41372	631950.63	4175200.50	0.48810
631950.63	4175300.50	0.58283	631950.63	4175400.50	0.70548
631950.63	4175500.50	0.86749	631950.63	4175600.50	1.08379
631950.63	4175700.50	1.36522	631950.63	4175800.50	1.69295
631950.63	4175900.50	1.97383	631950.63	4176000.50	2.04320
631950.63	4176100.50	1.82147	632050.63	4175100.50	0.39618
632050.63	4175200.50	0.46310	632050.63	4175300.50	0.54760
632050.63	4175400.50	0.65645	632050.63	4175500.50	0.79868
632050.63	4175600.50	0.98284	632050.63	4175700.50	1.20721
632050.63	4175800.50	1.44471	632050.63	4175900.50	1.62963
632050.63	4176000.50	1.67015	632050.63	4176100.50	1.52604

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.30877	632304.44	4174354.52	0.13344
632192.15	4174956.32	0.31095	632420.62	4175510.15	0.73730
632418.97	4175552.92	0.80072	631187.00	4175727.00	2.57581
631166.00	4175729.00	2.59684	631121.00	4175719.00	2.44246
631035.00	4174830.00	0.16741	631106.00	4174825.00	0.17403
631937.00	4174528.00	0.16189	631322.00	4174522.00	0.10241
629800.63	4173850.44	0.02176	630150.63	4173850.44	0.02305
630500.63	4173850.44	0.02748	630850.63	4173850.44	0.04090
631200.63	4173850.44	0.04096	631550.63	4173850.44	0.05664
631900.63	4173850.44	0.06084	632250.63	4173850.44	0.07595

632600.63	4173850.44	0.08373	632950.63	4173850.44	0.08688
633300.63	4173850.44	0.08672	629800.63	4174200.44	0.03012
630150.63	4174200.44	0.03732	630500.63	4174200.44	0.04986
630850.63	4174200.44	0.05717	631200.63	4174200.44	0.06264
631550.63	4174200.44	0.08587	631900.63	4174200.44	0.10403
632250.63	4174200.44	0.11174	632600.63	4174200.44	0.11538
632950.63	4174200.44	0.11563	633300.63	4174200.44	0.10974
629800.63	4174550.44	0.05154	630150.63	4174550.44	0.06164
630500.63	4174550.44	0.07905	630850.63	4174550.44	0.09542
631200.63	4174550.44	0.11602	631550.63	4174550.44	0.13366
631900.63	4174550.44	0.16772	632250.63	4174550.44	0.17032
632600.63	4174550.44	0.16754	632950.63	4174550.44	0.15828
633300.63	4174550.44	0.14673	629800.63	4174900.44	0.06659
630150.63	4174900.44	0.08500	630500.63	4174900.44	0.12524
630850.63	4174900.44	0.16803	631200.63	4174900.44	0.21418
631550.63	4174900.44	0.26013	631900.63	4174900.44	0.28509
632250.63	4174900.44	0.27975	632600.63	4174900.44	0.25749
632950.63	4174900.44	0.23028	633300.63	4174900.44	0.20830
629800.63	4175250.44	0.09483	630150.63	4175250.44	0.15301
630500.63	4175250.44	0.24835	630850.63	4175250.44	0.36660
631200.63	4175250.44	0.48522	631550.63	4175250.44	0.53584
631900.63	4175250.44	0.56862	632250.63	4175250.44	0.51316
632600.63	4175250.44	0.42497	632950.63	4175250.44	0.35947
633300.63	4175250.44	0.30839	629800.63	4175600.44	0.16302
630150.63	4175600.44	0.30270	630500.63	4175600.44	0.67570
630850.63	4175600.44	1.11127	631200.63	4175600.44	1.40095
631550.63	4175600.44	1.57105	631900.63	4175600.44	1.43675
632250.63	4175600.44	1.03282	632600.63	4175600.44	0.74552
632950.63	4175600.44	0.55973	633300.63	4175600.44	0.43618
629800.63	4175950.44	0.24531	630150.63	4175950.44	0.67888

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	17.39917	630850.63	4175950.44	18.57065
631200.63	4175950.44	19.39060	631550.63	4175950.44	18.81471
631900.63	4175950.44	8.99473	632250.63	4175950.44	2.01664
632600.63	4175950.44	1.07478	632950.63	4175950.44	0.70715
633300.63	4175950.44	0.51095	629800.63	4176300.44	0.28839
630150.63	4176300.44	0.78371	630500.63	4176300.44	1.69689
630850.63	4176300.44	2.22615	631200.63	4176300.44	2.52239

631550.63	4176300.44	2.45816	631900.63	4176300.44	1.69579
632250.63	4176300.44	1.08885	632600.63	4176300.44	0.76157
632950.63	4176300.44	0.56165	633300.63	4176300.44	0.43280
629800.63	4176650.44	0.29197	630150.63	4176650.44	0.50951
630500.63	4176650.44	0.74623	630850.63	4176650.44	0.91273
631200.63	4176650.44	0.95563	631550.63	4176650.44	0.88707
631900.63	4176650.44	0.71223	632250.63	4176650.44	0.54928
632600.63	4176650.44	0.43345	632950.63	4176650.44	0.35593
633300.63	4176650.44	0.29969	629800.63	4177000.44	0.25502
630150.63	4177000.44	0.35627	630500.63	4177000.44	0.45365
630850.63	4177000.44	0.51409	631200.63	4177000.44	0.52070
631550.63	4177000.44	0.48892	631900.63	4177000.44	0.41313
632250.63	4177000.44	0.34354	632600.63	4177000.44	0.28583
632950.63	4177000.44	0.24126	633300.63	4177000.44	0.20918
629800.63	4177350.44	0.20998	630150.63	4177350.44	0.26322
630500.63	4177350.44	0.30151	630850.63	4177350.44	0.33121
631200.63	4177350.44	0.32866	631550.63	4177350.44	0.31250
631900.63	4177350.44	0.27864	632250.63	4177350.44	0.24151
632600.63	4177350.44	0.20966	632950.63	4177350.44	0.18007
633300.63	4177350.44	0.15757	631670.70	4175493.59	1.08921
631669.80	4175641.41	1.83282	631665.32	4175796.39	3.85954
631417.17	4175826.85	4.85372	631417.17	4175673.66	2.09477
631422.55	4175484.63	1.02947	631268.42	4175983.74	56.10151
631275.69	4175523.99	1.08369	631345.65	4175419.50	0.79890
631384.72	4175441.30	0.87974	631491.93	4175442.21	0.91702
631491.93	4175414.95	0.84606	631385.63	4175413.14	0.78806
631358.37	4175395.87	0.75062	631409.25	4175336.81	0.64854
631567.35	4175235.96	0.51900	631756.33	4175028.80	0.35014
631807.22	4175003.36	0.33602	631867.18	4174987.91	0.32911
631849.92	4175988.28	32.51812	631268.74	4175963.75	26.46501
631269.05	4175943.76	16.99839	631269.37	4175923.77	12.29141
631269.68	4175903.78	9.52001	631270.00	4175883.79	7.69631
631270.32	4175863.81	6.40588	631270.63	4175843.82	5.44872

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	4.70817	631271.26	4175803.84	4.11591
631271.58	4175783.85	3.62513	631271.90	4175763.86	3.21406
631272.21	4175743.87	2.86801	631272.53	4175723.88	2.57896
631272.85	4175703.89	2.32931	631273.16	4175683.90	2.11113

631273.48	4175663.91	1.92056	631273.79	4175643.92	1.75969
631274.11	4175623.94	1.62311	631274.43	4175603.95	1.49130
631274.74	4175583.96	1.36240	631275.06	4175563.97	1.24310
631275.37	4175543.98	1.15875	631285.68	4175509.06	1.03666
631295.68	4175494.14	0.98845	631305.67	4175479.21	0.94633
631315.67	4175464.28	0.90651	631325.66	4175449.35	0.86759
631335.66	4175434.43	0.83467	631358.67	4175426.77	0.81608
631371.70	4175434.03	0.83783	631402.59	4175441.45	0.89143
631420.46	4175441.60	0.89929	631438.33	4175441.76	0.90470
631456.19	4175441.91	0.90925	631474.06	4175442.06	0.91349
631491.93	4175428.58	0.88047	631474.21	4175414.65	0.84193
631456.50	4175414.35	0.83759	631438.78	4175414.05	0.83241
631421.06	4175413.74	0.82237	631403.35	4175413.44	0.80632
631372.00	4175404.51	0.76979	631371.09	4175381.11	0.72265
631383.81	4175366.34	0.69724	631396.53	4175351.58	0.67249
631425.06	4175326.73	0.63332	631440.87	4175316.64	0.62054
631456.68	4175306.56	0.60525	631472.49	4175296.47	0.59132
631488.30	4175286.39	0.57986	631504.11	4175276.30	0.56581
631519.92	4175266.22	0.55320	631535.73	4175256.13	0.54288
631551.54	4175246.05	0.53033	631579.95	4175222.15	0.50464
631592.55	4175208.34	0.48900	631605.15	4175194.53	0.47665
631617.74	4175180.72	0.46215	631630.34	4175166.91	0.45132
631642.94	4175153.10	0.43764	631655.54	4175139.29	0.42735
631668.14	4175125.47	0.41526	631680.74	4175111.66	0.40556
631693.34	4175097.85	0.39500	631705.94	4175084.04	0.38561
631718.53	4175070.23	0.37623	631731.13	4175056.42	0.36727
631743.73	4175042.61	0.35896	631773.29	4175020.32	0.34582
631790.26	4175011.84	0.34145	631822.21	4174999.50	0.33392
631837.20	4174995.64	0.33211	631852.19	4174991.77	0.33057
631866.84	4175007.53	0.33886	631866.50	4175027.14	0.35172
631866.16	4175046.76	0.37195	631865.83	4175066.37	0.38869
631865.49	4175085.99	0.40513	631865.15	4175105.60	0.42102
631864.81	4175125.22	0.43782	631864.47	4175144.83	0.45562
631864.13	4175164.45	0.47462	631863.80	4175184.06	0.49477
631863.46	4175203.68	0.51601	631863.12	4175223.29	0.53854
631862.78	4175242.91	0.56237	631862.44	4175262.52	0.58789

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	0.61513	631861.77	4175301.75	0.64423

631861.43	4175321.37	0.67540	631861.09	4175340.98	0.70834
631860.75	4175360.60	0.74343	631860.41	4175380.21	0.78200
631860.07	4175399.83	0.82136	631859.73	4175419.44	0.86373
631859.40	4175439.06	0.90944	631859.06	4175458.67	0.95882
631858.72	4175478.29	1.01232	631858.38	4175497.90	1.07034
631858.04	4175517.52	1.13346	631857.70	4175537.13	1.20225
631857.37	4175556.75	1.27748	631857.03	4175576.36	1.35993
631856.69	4175595.98	1.45067	631856.35	4175615.59	1.55079
631856.01	4175635.21	1.66184	631855.67	4175654.82	1.78543
631855.33	4175674.44	1.92384	631855.00	4175694.05	2.07956
631854.66	4175713.67	2.25613	631854.32	4175733.28	2.45764
631853.98	4175752.90	2.68988	631853.64	4175772.51	2.96009
631853.30	4175792.13	3.27870	631852.97	4175811.74	3.65960
631852.63	4175831.36	4.12359	631852.29	4175850.97	4.70092
631851.95	4175870.59	5.44002	631851.61	4175890.20	6.42071
631851.27	4175909.82	7.78856	631850.94	4175929.43	9.83140
631850.60	4175949.05	13.21094	631850.26	4175968.66	19.70464
631830.54	4175988.13	50.45036	631811.15	4175987.98	48.29793
631791.77	4175987.83	50.87342	631772.39	4175987.67	55.55619
631753.00	4175987.52	56.68860	631733.62	4175987.37	51.30993
631714.24	4175987.22	52.52171	631694.85	4175987.07	56.11451
631675.47	4175986.92	50.81757	631656.09	4175986.77	51.74608
631636.70	4175986.62	55.46132	631617.32	4175986.46	56.08109
631597.94	4175986.31	51.19101	631578.55	4175986.16	54.76807
631559.17	4175986.01	55.29050	631539.79	4175985.86	55.79487
631520.40	4175985.71	54.05397	631501.02	4175985.56	54.48771
631481.64	4175985.40	54.95043	631462.25	4175985.25	58.07436
631442.87	4175985.10	53.81047	631423.49	4175984.95	57.61705
631404.10	4175984.80	57.42161	631384.72	4175984.65	57.21055
631365.34	4175984.50	57.01399	631345.95	4175984.35	56.78362
631326.57	4175984.19	56.53693	631307.19	4175984.04	56.31581
631287.80	4175983.89	56.14816	631050.63	4175100.50	0.30939
631050.63	4175200.50	0.38884	631050.63	4175300.50	0.49919
631050.63	4175400.50	0.65606	631050.63	4175500.50	0.89326
631050.63	4175600.50	1.32078	631050.63	4175700.50	2.03886
631050.63	4175800.50	3.72181	631050.63	4175900.50	8.96104
631050.63	4176000.50	36.42386	631050.63	4176100.50	7.33116
631150.63	4175100.50	0.32857	631150.63	4175200.50	0.41817
631150.63	4175300.50	0.53873	631150.63	4175400.50	0.70664

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.95869	631150.63	4175600.50	1.38041
631150.63	4175700.50	2.23533	631150.63	4175800.50	3.93797
631150.63	4175900.50	9.09395	631150.63	4176000.50	38.07155
631150.63	4176100.50	7.43706	631250.63	4175100.50	0.34738
631250.63	4175200.50	0.43839	631250.63	4175300.50	0.56407
631250.63	4175400.50	0.73702	631250.63	4175500.50	0.99217
631250.63	4175600.50	1.42360	631250.63	4175700.50	2.27499
631250.63	4175800.50	4.02379	631250.63	4175900.50	9.16491
631250.63	4176000.50	38.79758	631250.63	4176100.50	7.59206
631350.63	4175100.50	0.36221	631350.63	4175200.50	0.45543
631350.63	4175300.50	0.58403	631350.63	4175400.50	0.75805
631350.63	4175500.50	1.04869	631350.63	4175600.50	1.52066
631350.63	4175700.50	2.34495	631350.63	4175800.50	4.05535
631350.63	4175900.50	9.18739	631350.63	4176000.50	39.32838
631350.63	4176100.50	7.70854	631450.63	4175100.50	0.37474
631450.63	4175200.50	0.46974	631450.63	4175300.50	0.59500
631450.63	4175400.50	0.80095	631450.63	4175500.50	1.09110
631450.63	4175600.50	1.55480	631450.63	4175700.50	2.37878
631450.63	4175800.50	4.08063	631450.63	4175900.50	9.17103
631450.63	4176000.50	40.22355	631450.63	4176100.50	7.80033
631550.63	4175100.50	0.38768	631550.63	4175200.50	0.47765
631550.63	4175300.50	0.60846	631550.63	4175400.50	0.81954
631550.63	4175500.50	1.10896	631550.63	4175600.50	1.57140
631550.63	4175700.50	2.38886	631550.63	4175800.50	4.06830
631550.63	4175900.50	9.08191	631550.63	4176000.50	40.90832
631550.63	4176100.50	7.70339	631650.63	4175100.50	0.39256
631650.63	4175200.50	0.48291	631650.63	4175300.50	0.63603
631650.63	4175400.50	0.82820	631650.63	4175500.50	1.11335
631650.63	4175600.50	1.56968	631650.63	4175700.50	2.36324
631650.63	4175800.50	3.97790	631650.63	4175900.50	8.88535
631650.63	4176000.50	41.47953	631650.63	4176100.50	7.48357
631750.63	4175100.50	0.40552	631750.63	4175200.50	0.50912
631750.63	4175300.50	0.64212	631750.63	4175400.50	0.82971
631750.63	4175500.50	1.10763	631750.63	4175600.50	1.53887
631750.63	4175700.50	2.27618	631750.63	4175800.50	3.78557
631750.63	4175900.50	8.41581	631750.63	4176000.50	41.48262
631750.63	4176100.50	6.75336	631850.63	4175100.50	0.41795
631850.63	4175200.50	0.51371	631850.63	4175300.50	0.64327
631850.63	4175400.50	0.82460	631850.63	4175500.50	1.08125
631850.63	4175600.50	1.47729	631850.63	4175700.50	2.14207

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	3.44368	631850.63	4175900.50	7.09409
631850.63	4176000.50	24.11591	631850.63	4176100.50	5.06376
631950.63	4175100.50	0.41303	631950.63	4175200.50	0.50670
631950.63	4175300.50	0.63354	631950.63	4175400.50	0.80079
631950.63	4175500.50	1.03681	631950.63	4175600.50	1.38904
631950.63	4175700.50	1.94634	631950.63	4175800.50	2.91004
631950.63	4175900.50	4.80201	631950.63	4176000.50	6.59950
631950.63	4176100.50	3.66403	632050.63	4175100.50	0.40917
632050.63	4175200.50	0.49869	632050.63	4175300.50	0.61627
632050.63	4175400.50	0.76725	632050.63	4175500.50	0.97631
632050.63	4175600.50	1.27325	632050.63	4175700.50	1.70655
632050.63	4175800.50	2.36252	632050.63	4175900.50	3.31597
632050.63	4176000.50	3.76936	632050.63	4176100.50	2.78370

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.49593	632304.44	4174354.52	0.15476
632192.15	4174956.32	0.55063	632420.62	4175510.15	2.23876
632418.97	4175552.92	2.61109	631187.00	4175727.00	0.54907
631166.00	4175729.00	0.52146	631121.00	4175719.00	0.46375
631035.00	4174830.00	0.11863	631106.00	4174825.00	0.12601
631937.00	4174528.00	0.15462	631322.00	4174522.00	0.09786
629800.63	4173850.44	0.01655	630150.63	4173850.44	0.01999
630500.63	4173850.44	0.02597	630850.63	4173850.44	0.03992
631200.63	4173850.44	0.04119	631550.63	4173850.44	0.04371
631900.63	4173850.44	0.04948	632250.63	4173850.44	0.07340
632600.63	4173850.44	0.08506	632950.63	4173850.44	0.10102
633300.63	4173850.44	0.11322	629800.63	4174200.44	0.02308
630150.63	4174200.44	0.02953	630500.63	4174200.44	0.04123
630850.63	4174200.44	0.05304	631200.63	4174200.44	0.06259
631550.63	4174200.44	0.06937	631900.63	4174200.44	0.08746
632250.63	4174200.44	0.11844	632600.63	4174200.44	0.13816
632950.63	4174200.44	0.16085	633300.63	4174200.44	0.15690
629800.63	4174550.44	0.03839	630150.63	4174550.44	0.04553
630500.63	4174550.44	0.05961	630850.63	4174550.44	0.07431
631200.63	4174550.44	0.10276	631550.63	4174550.44	0.11277
631900.63	4174550.44	0.15267	632250.63	4174550.44	0.21549
632600.63	4174550.44	0.26380	632950.63	4174550.44	0.25647

633300.63	4174550.44	0.22190	629800.63	4174900.44	0.04576
630150.63	4174900.44	0.05938	630500.63	4174900.44	0.08433
630850.63	4174900.44	0.11085	631200.63	4174900.44	0.15314
631550.63	4174900.44	0.21403	631900.63	4174900.44	0.30525
632250.63	4174900.44	0.49776	632600.63	4174900.44	0.51947
632950.63	4174900.44	0.40762	633300.63	4174900.44	0.36013
629800.63	4175250.44	0.05267	630150.63	4175250.44	0.07934
630500.63	4175250.44	0.11829	630850.63	4175250.44	0.17104
631200.63	4175250.44	0.26267	631550.63	4175250.44	0.45030
631900.63	4175250.44	0.97621	632250.63	4175250.44	1.38522
632600.63	4175250.44	0.99426	632950.63	4175250.44	0.77625
633300.63	4175250.44	0.59866	629800.63	4175600.44	0.06698
630150.63	4175600.44	0.09354	630500.63	4175600.44	0.13974
630850.63	4175600.44	0.22943	631200.63	4175600.44	0.47770
631550.63	4175600.44	1.50501	631900.63	4175600.44	1.98906
632250.63	4175600.44	3.67207	632600.63	4175600.44	2.38452
632950.63	4175600.44	1.34917	633300.63	4175600.44	0.86433
629800.63	4175950.44	0.06868	630150.63	4175950.44	0.09410

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.15181	630850.63	4175950.44	0.27296
631200.63	4175950.44	0.65344	631550.63	4175950.44	1.03187
631900.63	4175950.44	4.57844	632250.63	4175950.44	3.52551
632600.63	4175950.44	2.28549	632950.63	4175950.44	1.32394
633300.63	4175950.44	0.84956	629800.63	4176300.44	0.07792
630150.63	4176300.44	0.11396	630500.63	4176300.44	0.18752
630850.63	4176300.44	0.35818	631200.63	4176300.44	0.72395
631550.63	4176300.44	1.08576	631900.63	4176300.44	1.05076
632250.63	4176300.44	0.96322	632600.63	4176300.44	0.83358
632950.63	4176300.44	0.73768	633300.63	4176300.44	0.57377
629800.63	4176650.44	0.09264	630150.63	4176650.44	0.14238
630500.63	4176650.44	0.22841	630850.63	4176650.44	0.36923
631200.63	4176650.44	0.53167	631550.63	4176650.44	0.58607
631900.63	4176650.44	0.59261	632250.63	4176650.44	0.56240
632600.63	4176650.44	0.49830	632950.63	4176650.44	0.41304
633300.63	4176650.44	0.35825	629800.63	4177000.44	0.10754
630150.63	4177000.44	0.15708	630500.63	4177000.44	0.22441
630850.63	4177000.44	0.30977	631200.63	4177000.44	0.35682
631550.63	4177000.44	0.40543	631900.63	4177000.44	0.38788
632250.63	4177000.44	0.35902	632600.63	4177000.44	0.34958
632950.63	4177000.44	0.29737	633300.63	4177000.44	0.25192
629800.63	4177350.44	0.10985	630150.63	4177350.44	0.14940

630500.63	4177350.44	0.19118	630850.63	4177350.44	0.23516
631200.63	4177350.44	0.25748	631550.63	4177350.44	0.28839
631900.63	4177350.44	0.27432	632250.63	4177350.44	0.26383
632600.63	4177350.44	0.24331	632950.63	4177350.44	0.22790
633300.63	4177350.44	0.19451	631670.70	4175493.59	1.10909
631669.80	4175641.41	3.19861	631665.32	4175796.39	6.51243
631417.17	4175826.85	1.41493	631417.17	4175673.66	0.96271
631422.55	4175484.63	0.57722	631268.42	4175983.74	0.82277
631275.69	4175523.99	0.52174	631345.65	4175419.50	0.50427
631384.72	4175441.30	0.42276	631491.93	4175442.21	0.63335
631491.93	4175414.95	0.56231	631385.63	4175413.14	0.41834
631358.37	4175395.87	0.48573	631409.25	4175336.81	0.42775
631567.35	4175235.96	0.48743	631756.33	4175028.80	0.31884
631807.22	4175003.36	0.32412	631867.18	4174987.91	0.35133
631849.92	4175988.28	3.71093	631268.74	4175963.75	0.81570
631269.05	4175943.76	0.80738	631269.37	4175923.77	0.80117
631269.68	4175903.78	0.79652	631270.00	4175883.79	0.75818
631270.32	4175863.81	0.75825	631270.63	4175843.82	0.80128

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	0.80407	631271.26	4175803.84	0.75913
631271.58	4175783.85	0.75059	631271.90	4175763.86	0.73349
631272.21	4175743.87	0.71577	631272.53	4175723.88	0.70499
631272.85	4175703.89	0.69094	631273.16	4175683.90	0.66513
631273.48	4175663.91	0.64300	631273.79	4175643.92	0.62403
631274.11	4175623.94	0.60782	631274.43	4175603.95	0.58096
631274.74	4175583.96	0.56319	631275.06	4175563.97	0.53852
631275.37	4175543.98	0.52197	631285.68	4175509.06	0.52840
631295.68	4175494.14	0.53152	631305.67	4175479.21	0.53742
631315.67	4175464.28	0.54073	631325.66	4175449.35	0.53396
631335.66	4175434.43	0.51292	631358.67	4175426.77	0.47118
631371.70	4175434.03	0.43368	631402.59	4175441.45	0.45615
631420.46	4175441.60	0.47519	631438.33	4175441.76	0.51085
631456.19	4175441.91	0.55285	631474.06	4175442.06	0.58965
631491.93	4175428.58	0.59770	631474.21	4175414.65	0.53060
631456.50	4175414.35	0.49189	631438.78	4175414.05	0.46710
631421.06	4175413.74	0.43414	631403.35	4175413.44	0.39871
631372.00	4175404.51	0.42872	631371.09	4175381.11	0.46990
631383.81	4175366.34	0.45670	631396.53	4175351.58	0.44068
631425.06	4175326.73	0.41518	631440.87	4175316.64	0.41567
631456.68	4175306.56	0.41144	631472.49	4175296.47	0.41638
631488.30	4175286.39	0.42445	631504.11	4175276.30	0.42291

631519.92	4175266.22	0.43253	631535.73	4175256.13	0.44892
631551.54	4175246.05	0.47565	631579.95	4175222.15	0.53462
631592.55	4175208.34	0.55183	631605.15	4175194.53	0.51331
631617.74	4175180.72	0.45830	631630.34	4175166.91	0.43546
631642.94	4175153.10	0.41676	631655.54	4175139.29	0.40055
631668.14	4175125.47	0.38456	631680.74	4175111.66	0.37226
631693.34	4175097.85	0.36020	631705.94	4175084.04	0.35014
631718.53	4175070.23	0.34145	631731.13	4175056.42	0.33263
631743.73	4175042.61	0.32526	631773.29	4175020.32	0.32007
631790.26	4175011.84	0.32227	631822.21	4174999.50	0.32994
631837.20	4174995.64	0.33665	631852.19	4174991.77	0.34310
631866.84	4175007.53	0.36785	631866.50	4175027.14	0.38751
631866.16	4175046.76	0.41086	631865.83	4175066.37	0.43465
631865.49	4175085.99	0.45970	631865.15	4175105.60	0.48632
631864.81	4175125.22	0.51502	631864.47	4175144.83	0.54556
631864.13	4175164.45	0.57914	631863.80	4175184.06	0.61776
631863.46	4175203.68	0.66266	631863.12	4175223.29	0.76152
631862.78	4175242.91	0.84564	631862.44	4175262.52	0.90109

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	0.93585	631861.77	4175301.75	0.74773
631861.43	4175321.37	0.67831	631861.09	4175340.98	0.70364
631860.75	4175360.60	0.73156	631860.41	4175380.21	0.80345
631860.07	4175399.83	0.84048	631859.73	4175419.44	0.88005
631859.40	4175439.06	0.98874	631859.06	4175458.67	1.04414
631858.72	4175478.29	1.09569	631858.38	4175497.90	1.21793
631858.04	4175517.52	1.25698	631857.70	4175537.13	1.40058
631857.37	4175556.75	1.55106	631857.03	4175576.36	1.78555
631856.69	4175595.98	2.02102	631856.35	4175615.59	2.26211
631856.01	4175635.21	2.42842	631855.67	4175654.82	2.58859
631855.33	4175674.44	2.77361	631855.00	4175694.05	3.59336
631854.66	4175713.67	4.78249	631854.32	4175733.28	6.27314
631853.98	4175752.90	6.78989	631853.64	4175772.51	11.56215
631853.30	4175792.13	29.84603	631852.97	4175811.74	38.85379
631852.63	4175831.36	27.50098	631852.29	4175850.97	17.04760
631851.95	4175870.59	12.42407	631851.61	4175890.20	10.03213
631851.27	4175909.82	7.93468	631850.94	4175929.43	7.19444
631850.60	4175949.05	6.20890	631850.26	4175968.66	4.61454
631830.54	4175988.13	3.87490	631811.15	4175987.98	4.12203
631791.77	4175987.83	4.41383	631772.39	4175987.67	4.47241
631753.00	4175987.52	4.03195	631733.62	4175987.37	3.45718
631714.24	4175987.22	2.86755	631694.85	4175987.07	2.45466

631675.47	4175986.92	2.30249	631656.09	4175986.77	1.92875
631636.70	4175986.62	1.59003	631617.32	4175986.46	1.62618
631597.94	4175986.31	1.45606	631578.55	4175986.16	1.86703
631559.17	4175986.01	2.17527	631539.79	4175985.86	2.66244
631520.40	4175985.71	2.53450	631501.02	4175985.56	2.34537
631481.64	4175985.40	2.09911	631462.25	4175985.25	1.76219
631442.87	4175985.10	1.60461	631423.49	4175984.95	1.47631
631404.10	4175984.80	1.36351	631384.72	4175984.65	1.26078
631365.34	4175984.50	1.16816	631345.95	4175984.35	1.08379
631326.57	4175984.19	1.00784	631307.19	4175984.04	0.93984
631287.80	4175983.89	0.87830	631050.63	4175100.50	0.17312
631050.63	4175200.50	0.20027	631050.63	4175300.50	0.23308
631050.63	4175400.50	0.26722	631050.63	4175500.50	0.30328
631050.63	4175600.50	0.33745	631050.63	4175700.50	0.37537
631050.63	4175800.50	0.40181	631050.63	4175900.50	0.41159
631050.63	4176000.50	0.42981	631050.63	4176100.50	0.48098
631150.63	4175100.50	0.19232	631150.63	4175200.50	0.22548
631150.63	4175300.50	0.26839	631150.63	4175400.50	0.31790

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.36866	631150.63	4175600.50	0.42038
631150.63	4175700.50	0.48353	631150.63	4175800.50	0.53004
631150.63	4175900.50	0.56089	631150.63	4176000.50	0.58310
631150.63	4176100.50	0.62580	631250.63	4175100.50	0.21755
631250.63	4175200.50	0.25799	631250.63	4175300.50	0.31152
631250.63	4175400.50	0.38239	631250.63	4175500.50	0.46102
631250.63	4175600.50	0.54003	631250.63	4175700.50	0.64164
631250.63	4175800.50	0.75236	631250.63	4175900.50	0.74625
631250.63	4176000.50	0.78340	631250.63	4176100.50	0.82124
631350.63	4175100.50	0.24982	631350.63	4175200.50	0.30139
631350.63	4175300.50	0.37743	631350.63	4175400.50	0.48039
631350.63	4175500.50	0.55927	631350.63	4175600.50	0.71942
631350.63	4175700.50	0.91556	631350.63	4175800.50	1.03056
631350.63	4175900.50	1.07401	631350.63	4176000.50	1.10739
631350.63	4176100.50	1.10892	631450.63	4175100.50	0.29001
631450.63	4175200.50	0.35729	631450.63	4175300.50	0.42074
631450.63	4175400.50	0.45932	631450.63	4175500.50	0.68847
631450.63	4175600.50	0.92977	631450.63	4175700.50	1.20297
631450.63	4175800.50	1.49614	631450.63	4175900.50	1.80443
631450.63	4176000.50	1.64534	631450.63	4176100.50	1.50349
631550.63	4175100.50	0.32911	631550.63	4175200.50	0.44050
631550.63	4175300.50	0.30567	631550.63	4175400.50	0.57287

631550.63	4175500.50	0.99128	631550.63	4175600.50	1.50517
631550.63	4175700.50	2.17011	631550.63	4175800.50	1.76049
631550.63	4175900.50	0.86253	631550.63	4176000.50	2.72599
631550.63	4176100.50	1.94706	631650.63	4175100.50	0.35235
631650.63	4175200.50	0.55595	631650.63	4175300.50	0.37046
631650.63	4175400.50	0.64611	631650.63	4175500.50	1.17768
631650.63	4175600.50	2.31053	631650.63	4175700.50	4.28201
631650.63	4175800.50	5.15708	631650.63	4175900.50	1.17565
631650.63	4176000.50	1.92619	631650.63	4176100.50	2.19450
631750.63	4175100.50	0.38173	631750.63	4175200.50	0.58448
631750.63	4175300.50	0.31541	631750.63	4175400.50	0.49412
631750.63	4175500.50	0.84024	631750.63	4175600.50	1.67297
631750.63	4175700.50	4.63154	631750.63	4175800.50	19.42071
631750.63	4175900.50	1.46902	631750.63	4176000.50	3.73740
631750.63	4176100.50	2.21436	631850.63	4175100.50	0.46328
631850.63	4175200.50	0.64297	631850.63	4175300.50	0.62273
631850.63	4175400.50	0.82615	631850.63	4175500.50	1.16659
631850.63	4175600.50	1.84504	631850.63	4175700.50	3.72198

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	36.87385	631850.63	4175900.50	8.76634
631850.63	4176000.50	3.41086	631850.63	4176100.50	2.01659
631950.63	4175100.50	0.58014	631950.63	4175200.50	0.81167
631950.63	4175300.50	1.48086	631950.63	4175400.50	1.19126
631950.63	4175500.50	1.40662	631950.63	4175600.50	2.14141
631950.63	4175700.50	5.94142	631950.63	4175800.50	26.67452
631950.63	4175900.50	6.03139	631950.63	4176000.50	2.96445
631950.63	4176100.50	1.84447	632050.63	4175100.50	0.70580
632050.63	4175200.50	1.01380	632050.63	4175300.50	1.52902
632050.63	4175400.50	2.60397	632050.63	4175500.50	2.64758
632050.63	4175600.50	3.75586	632050.63	4175700.50	8.33288
632050.63	4175800.50	17.61676	632050.63	4175900.50	5.88700
632050.63	4176000.50	2.49303	632050.63	4176100.50	1.71014

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.44828	632304.44	4174354.52	0.37338
632192.15	4174956.32	1.36912	632420.62	4175510.15	2.58108
632418.97	4175552.92	2.28358	631187.00	4175727.00	1.58062
631166.00	4175729.00	1.46579	631121.00	4175719.00	1.29091
631035.00	4174830.00	0.27169	631106.00	4174825.00	0.30401
631937.00	4174528.00	0.48260	631322.00	4174522.00	0.18146
629800.63	4173850.44	0.02282	630150.63	4173850.44	0.02728
630500.63	4173850.44	0.03784	630850.63	4173850.44	0.05999
631200.63	4173850.44	0.05710	631550.63	4173850.44	0.07067
631900.63	4173850.44	0.09965	632250.63	4173850.44	0.13025
632600.63	4173850.44	0.16107	632950.63	4173850.44	0.16380
633300.63	4173850.44	0.15011	629800.63	4174200.44	0.03332
630150.63	4174200.44	0.04557	630500.63	4174200.44	0.06445
630850.63	4174200.44	0.08762	631200.63	4174200.44	0.09902
631550.63	4174200.44	0.12482	631900.63	4174200.44	0.20369
632250.63	4174200.44	0.26230	632600.63	4174200.44	0.27083
632950.63	4174200.44	0.23514	633300.63	4174200.44	0.22133
629800.63	4174550.44	0.05609	630150.63	4174550.44	0.07528
630500.63	4174550.44	0.10287	630850.63	4174550.44	0.13501
631200.63	4174550.44	0.20136	631550.63	4174550.44	0.25553
631900.63	4174550.44	0.49634	632250.63	4174550.44	0.56904
632600.63	4174550.44	0.44983	632950.63	4174550.44	0.39872
633300.63	4174550.44	0.34441	629800.63	4174900.44	0.06647
630150.63	4174900.44	0.09546	630500.63	4174900.44	0.15272
630850.63	4174900.44	0.24000	631200.63	4174900.44	0.43180
631550.63	4174900.44	0.77675	631900.63	4174900.44	1.57258
632250.63	4174900.44	1.14887	632600.63	4174900.44	0.91324
632950.63	4174900.44	0.70302	633300.63	4174900.44	0.53155
629800.63	4175250.44	0.07791	630150.63	4175250.44	0.12159
630500.63	4175250.44	0.20513	630850.63	4175250.44	0.38579
631200.63	4175250.44	1.16602	631550.63	4175250.44	4.82297
631900.63	4175250.44	5.20478	632250.63	4175250.44	3.37637
632600.63	4175250.44	1.82562	632950.63	4175250.44	1.03777
633300.63	4175250.44	0.68575	629800.63	4175600.44	0.09022
630150.63	4175600.44	0.13528	630500.63	4175600.44	0.22753
630850.63	4175600.44	0.47930	631200.63	4175600.44	1.78746
631550.63	4175600.44	1.89391	631900.63	4175600.44	2.26808
632250.63	4175600.44	2.27223	632600.63	4175600.44	1.54595
632950.63	4175600.44	0.95066	633300.63	4175600.44	0.64842
629800.63	4175950.44	0.10660	630150.63	4175950.44	0.16365

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.29965	630850.63	4175950.44	0.60923
631200.63	4175950.44	1.00295	631550.63	4175950.44	0.87781
631900.63	4175950.44	0.94267	632250.63	4175950.44	0.69497
632600.63	4175950.44	0.69939	632950.63	4175950.44	0.60278
633300.63	4175950.44	0.46580	629800.63	4176300.44	0.13065
630150.63	4176300.44	0.20623	630500.63	4176300.44	0.33398
630850.63	4176300.44	0.49668	631200.63	4176300.44	0.54537
631550.63	4176300.44	0.54982	631900.63	4176300.44	0.46815
632250.63	4176300.44	0.46897	632600.63	4176300.44	0.41342
632950.63	4176300.44	0.35528	633300.63	4176300.44	0.31761
629800.63	4176650.44	0.14241	630150.63	4176650.44	0.20799
630500.63	4176650.44	0.28951	630850.63	4176650.44	0.34582
631200.63	4176650.44	0.38534	631550.63	4176650.44	0.37760
631900.63	4176650.44	0.34661	632250.63	4176650.44	0.33625
632600.63	4176650.44	0.30064	632950.63	4176650.44	0.26444
633300.63	4176650.44	0.21784	629800.63	4177000.44	0.14064
630150.63	4177000.44	0.18330	630500.63	4177000.44	0.22688
630850.63	4177000.44	0.25155	631200.63	4177000.44	0.28800
631550.63	4177000.44	0.27717	631900.63	4177000.44	0.26302
632250.63	4177000.44	0.23099	632600.63	4177000.44	0.23279
632950.63	4177000.44	0.19897	633300.63	4177000.44	0.17682
629800.63	4177350.44	0.12709	630150.63	4177350.44	0.15303
630500.63	4177350.44	0.17122	630850.63	4177350.44	0.19301
631200.63	4177350.44	0.21372	631550.63	4177350.44	0.20602
631900.63	4177350.44	0.20054	632250.63	4177350.44	0.17510
632600.63	4177350.44	0.17360	632950.63	4177350.44	0.16176
633300.63	4177350.44	0.13909	631670.70	4175493.59	5.64342
631669.80	4175641.41	2.40764	631665.32	4175796.39	1.12102
631417.17	4175826.85	0.96338	631417.17	4175673.66	1.58456
631422.55	4175484.63	3.82226	631268.42	4175983.74	0.94483
631275.69	4175523.99	2.42237	631345.65	4175419.50	3.45042
631384.72	4175441.30	4.04927	631491.93	4175442.21	11.20125
631491.93	4175414.95	17.40776	631385.63	4175413.14	4.92784
631358.37	4175395.87	4.31817	631409.25	4175336.81	6.74573
631567.35	4175235.96	3.98491	631756.33	4175028.80	2.44390
631807.22	4175003.36	2.24926	631867.18	4174987.91	2.09829
631849.92	4175988.28	0.87446	631268.74	4175963.75	0.98866
631269.05	4175943.76	1.03705	631269.37	4175923.77	1.08976
631269.68	4175903.78	1.14856	631270.00	4175883.79	1.21176
631270.32	4175863.81	1.29026	631270.63	4175843.82	1.38446

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.46090	631271.26	4175803.84	1.57203
631271.58	4175783.85	1.69861	631271.90	4175763.86	1.54164
631272.21	4175743.87	1.67509	631272.53	4175723.88	1.86156
631272.85	4175703.89	1.45570	631273.16	4175683.90	1.58949
631273.48	4175663.91	1.66036	631273.79	4175643.92	1.88599
631274.11	4175623.94	1.56278	631274.43	4175603.95	1.75879
631274.74	4175583.96	1.99536	631275.06	4175563.97	2.10739
631275.37	4175543.98	2.24094	631285.68	4175509.06	2.07158
631295.68	4175494.14	2.34773	631305.67	4175479.21	2.66768
631315.67	4175464.28	2.96171	631325.66	4175449.35	3.22614
631335.66	4175434.43	3.57169	631358.67	4175426.77	3.63767
631371.70	4175434.03	3.91056	631402.59	4175441.45	4.81071
631420.46	4175441.60	5.36200	631438.33	4175441.76	4.89350
631456.19	4175441.91	6.14684	631474.06	4175442.06	8.59269
631491.93	4175428.58	13.56721	631474.21	4175414.65	12.65246
631456.50	4175414.35	9.16876	631438.78	4175414.05	6.87432
631421.06	4175413.74	6.85556	631403.35	4175413.44	5.67834
631372.00	4175404.51	4.56311	631371.09	4175381.11	4.93808
631383.81	4175366.34	5.40403	631396.53	4175351.58	6.08964
631425.06	4175326.73	7.61138	631440.87	4175316.64	8.92423
631456.68	4175306.56	8.42922	631472.49	4175296.47	7.75412
631488.30	4175286.39	7.97730	631504.11	4175276.30	7.69241
631519.92	4175266.22	7.21615	631535.73	4175256.13	6.22296
631551.54	4175246.05	4.96332	631579.95	4175222.15	4.17933
631592.55	4175208.34	3.65179	631605.15	4175194.53	3.90209
631617.74	4175180.72	3.52142	631630.34	4175166.91	4.15349
631642.94	4175153.10	3.86909	631655.54	4175139.29	3.98270
631668.14	4175125.47	3.71819	631680.74	4175111.66	3.46131
631693.34	4175097.85	3.22831	631705.94	4175084.04	3.03186
631718.53	4175070.23	2.86517	631731.13	4175056.42	2.71468
631743.73	4175042.61	2.57555	631773.29	4175020.32	2.38352
631790.26	4175011.84	2.32032	631822.21	4174999.50	2.21612
631837.20	4174995.64	2.18020	631852.19	4174991.77	2.14055
631866.84	4175007.53	2.22602	631866.50	4175027.14	2.36670
631866.16	4175046.76	2.51864	631865.83	4175066.37	2.67308
631865.49	4175085.99	2.82387	631865.15	4175105.60	2.98205
631864.81	4175125.22	3.15144	631864.47	4175144.83	3.34027
631864.13	4175164.45	3.55375	631863.80	4175184.06	3.83327
631863.46	4175203.68	4.17924	631863.12	4175223.29	4.64391
631862.78	4175242.91	5.41805	631862.44	4175262.52	6.53768

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	7.87480	631861.77	4175301.75	9.45327
631861.43	4175321.37	11.40253	631861.09	4175340.98	13.61148
631860.75	4175360.60	15.81923	631860.41	4175380.21	17.48568
631860.07	4175399.83	17.76356	631859.73	4175419.44	16.15088
631859.40	4175439.06	13.51182	631859.06	4175458.67	10.51496
631858.72	4175478.29	7.83057	631858.38	4175497.90	5.85736
631858.04	4175517.52	4.42839	631857.70	4175537.13	3.48626
631857.37	4175556.75	2.87008	631857.03	4175576.36	2.47220
631856.69	4175595.98	2.20256	631856.35	4175615.59	2.00863
631856.01	4175635.21	1.86260	631855.67	4175654.82	1.75510
631855.33	4175674.44	1.67441	631855.00	4175694.05	1.60284
631854.66	4175713.67	1.53366	631854.32	4175733.28	1.46639
631853.98	4175752.90	1.40337	631853.64	4175772.51	1.34479
631853.30	4175792.13	1.28618	631852.97	4175811.74	1.23182
631852.63	4175831.36	1.17641	631852.29	4175850.97	1.13524
631851.95	4175870.59	1.09829	631851.61	4175890.20	1.09451
631851.27	4175909.82	1.09688	631850.94	4175929.43	1.06196
631850.60	4175949.05	1.07824	631850.26	4175968.66	0.93667
631830.54	4175988.13	0.88378	631811.15	4175987.98	0.89470
631791.77	4175987.83	0.94654	631772.39	4175987.67	1.04032
631753.00	4175987.52	1.09780	631733.62	4175987.37	1.09201
631714.24	4175987.22	1.06677	631694.85	4175987.07	1.08038
631675.47	4175986.92	1.14453	631656.09	4175986.77	1.12767
631636.70	4175986.62	1.14399	631617.32	4175986.46	1.13492
631597.94	4175986.31	1.11773	631578.55	4175986.16	1.11384
631559.17	4175986.01	1.08102	631539.79	4175985.86	1.07415
631520.40	4175985.71	1.07061	631501.02	4175985.56	1.06049
631481.64	4175985.40	1.03479	631462.25	4175985.25	1.01584
631442.87	4175985.10	1.00469	631423.49	4175984.95	0.99668
631404.10	4175984.80	0.99353	631384.72	4175984.65	0.98821
631365.34	4175984.50	0.98028	631345.95	4175984.35	0.97089
631326.57	4175984.19	0.96247	631307.19	4175984.04	0.95522
631287.80	4175983.89	0.94840	631050.63	4175100.50	0.51374
631050.63	4175200.50	0.61956	631050.63	4175300.50	0.71853
631050.63	4175400.50	0.82262	631050.63	4175500.50	0.83514
631050.63	4175600.50	0.96287	631050.63	4175700.50	0.98918
631050.63	4175800.50	0.98281	631050.63	4175900.50	0.93778
631050.63	4176000.50	0.82940	631050.63	4176100.50	0.71604
631150.63	4175100.50	0.65659	631150.63	4175200.50	0.85537
631150.63	4175300.50	1.05584	631150.63	4175400.50	1.32838

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.34636	631150.63	4175600.50	1.42257
631150.63	4175700.50	1.42952	631150.63	4175800.50	1.28438
631150.63	4175900.50	1.08031	631150.63	4176000.50	0.88665
631150.63	4176100.50	0.73157	631250.63	4175100.50	0.86841
631250.63	4175200.50	1.23280	631250.63	4175300.50	1.79267
631250.63	4175400.50	2.23707	631250.63	4175500.50	2.27222
631250.63	4175600.50	1.74955	631250.63	4175700.50	1.73054
631250.63	4175800.50	1.51823	631250.63	4175900.50	1.15021
631250.63	4176000.50	0.90739	631250.63	4176100.50	0.74298
631350.63	4175100.50	1.17977	631350.63	4175200.50	1.87026
631350.63	4175300.50	3.29626	631350.63	4175400.50	3.94784
631350.63	4175500.50	2.93159	631350.63	4175600.50	1.65650
631350.63	4175700.50	1.20238	631350.63	4175800.50	1.05198
631350.63	4175900.50	1.23990	631350.63	4176000.50	0.94033
631350.63	4176100.50	0.77622	631450.63	4175100.50	1.49669
631450.63	4175200.50	2.95007	631450.63	4175300.50	8.14145
631450.63	4175400.50	9.95013	631450.63	4175500.50	4.29849
631450.63	4175600.50	2.62705	631450.63	4175700.50	1.60923
631450.63	4175800.50	1.01123	631450.63	4175900.50	0.89342
631450.63	4176000.50	0.96546	631450.63	4176100.50	0.78588
631550.63	4175100.50	2.01770	631550.63	4175200.50	4.14596
631550.63	4175300.50	2.34778	631550.63	4175400.50	11.95909
631550.63	4175500.50	4.99025	631550.63	4175600.50	1.89305
631550.63	4175700.50	0.93025	631550.63	4175800.50	0.62074
631550.63	4175900.50	0.51772	631550.63	4176000.50	1.05096
631550.63	4176100.50	0.77000	631650.63	4175100.50	2.97086
631650.63	4175200.50	2.55386	631650.63	4175300.50	2.51114
631650.63	4175400.50	9.48942	631650.63	4175500.50	5.72820
631650.63	4175600.50	3.00531	631650.63	4175700.50	1.73430
631650.63	4175800.50	1.04982	631650.63	4175900.50	0.68945
631650.63	4176000.50	1.15962	631650.63	4176100.50	0.73907
631750.63	4175100.50	3.36270	631750.63	4175200.50	4.67252
631750.63	4175300.50	3.04417	631750.63	4175400.50	10.99355
631750.63	4175500.50	4.51385	631750.63	4175600.50	2.46223
631750.63	4175700.50	1.78125	631750.63	4175800.50	1.24931
631750.63	4175900.50	0.86069	631750.63	4176000.50	1.00705
631750.63	4176100.50	0.68500	631850.63	4175100.50	3.01183
631850.63	4175200.50	4.23408	631850.63	4175300.50	9.77799
631850.63	4175400.50	19.36537	631850.63	4175500.50	5.53850
631850.63	4175600.50	2.15336	631850.63	4175700.50	1.58830

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	1.26247	631850.63	4175900.50	1.07990
631850.63	4176000.50	0.84239	631850.63	4176100.50	0.65320
631950.63	4175100.50	2.54913	631950.63	4175200.50	3.68987
631950.63	4175300.50	6.89239	631950.63	4175400.50	10.69476
631950.63	4175500.50	6.43979	631950.63	4175600.50	2.92623
631950.63	4175700.50	1.55484	631950.63	4175800.50	1.42930
631950.63	4175900.50	1.01191	631950.63	4176000.50	0.80054
631950.63	4176100.50	0.64992	632050.63	4175100.50	2.25092
632050.63	4175200.50	3.38369	632050.63	4175300.50	5.82656
632050.63	4175400.50	7.89441	632050.63	4175500.50	5.15246
632050.63	4175600.50	2.54146	632050.63	4175700.50	1.51584
632050.63	4175800.50	1.09560	632050.63	4175900.50	0.88945
632050.63	4176000.50	0.73866	632050.63	4176100.50	0.62830

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.71909	632304.44	4174354.52	0.19990
632192.15	4174956.32	0.69546	632420.62	4175510.15	1.92006
632418.97	4175552.92	2.06437	631187.00	4175727.00	3.05791
631166.00	4175729.00	2.69894	631121.00	4175719.00	1.94742
631035.00	4174830.00	0.17705	631106.00	4174825.00	0.18741
631937.00	4174528.00	0.22849	631322.00	4174522.00	0.10076
629800.63	4173850.44	0.01896	630150.63	4173850.44	0.02247
630500.63	4173850.44	0.03065	630850.63	4173850.44	0.04466
631200.63	4173850.44	0.03873	631550.63	4173850.44	0.05399
631900.63	4173850.44	0.06851	632250.63	4173850.44	0.08663
632600.63	4173850.44	0.10719	632950.63	4173850.44	0.12025
633300.63	4173850.44	0.11604	629800.63	4174200.44	0.02663
630150.63	4174200.44	0.03494	630500.63	4174200.44	0.05169
630850.63	4174200.44	0.06469	631200.63	4174200.44	0.06307
631550.63	4174200.44	0.08674	631900.63	4174200.44	0.12526
632250.63	4174200.44	0.14657	632600.63	4174200.44	0.17286
632950.63	4174200.44	0.16585	633300.63	4174200.44	0.15173
629800.63	4174550.44	0.04576	630150.63	4174550.44	0.05669
630500.63	4174550.44	0.07495	630850.63	4174550.44	0.10164
631200.63	4174550.44	0.11983	631550.63	4174550.44	0.14948

631900.63	4174550.44	0.23567	632250.63	4174550.44	0.28689
632600.63	4174550.44	0.27123	632950.63	4174550.44	0.23962
633300.63	4174550.44	0.22643	629800.63	4174900.44	0.05799
630150.63	4174900.44	0.07840	630500.63	4174900.44	0.11265
630850.63	4174900.44	0.15685	631200.63	4174900.44	0.23466
631550.63	4174900.44	0.35814	631900.63	4174900.44	0.60061
632250.63	4174900.44	0.59397	632600.63	4174900.44	0.47466
632950.63	4174900.44	0.40642	633300.63	4174900.44	0.34530
629800.63	4175250.44	0.06979	630150.63	4175250.44	0.11157
630500.63	4175250.44	0.18040	630850.63	4175250.44	0.29224
631200.63	4175250.44	0.58185	631550.63	4175250.44	1.28246
631900.63	4175250.44	1.88033	632250.63	4175250.44	1.23416
632600.63	4175250.44	0.91244	632950.63	4175250.44	0.67247
633300.63	4175250.44	0.51329	629800.63	4175600.44	0.09057
630150.63	4175600.44	0.13959	630500.63	4175600.44	0.24930
630850.63	4175600.44	0.52620	631200.63	4175600.44	2.26685
631550.63	4175600.44	16.91821	631900.63	4175600.44	7.96898
632250.63	4175600.44	3.28085	632600.63	4175600.44	1.49210
632950.63	4175600.44	0.89576	633300.63	4175600.44	0.63558
629800.63	4175950.44	0.10006	630150.63	4175950.44	0.15251

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.29370	630850.63	4175950.44	0.75454
631200.63	4175950.44	2.78419	631550.63	4175950.44	3.13855
631900.63	4175950.44	1.83828	632250.63	4175950.44	1.72903
632600.63	4175950.44	1.16324	632950.63	4175950.44	0.78372
633300.63	4175950.44	0.56928	629800.63	4176300.44	0.11936
630150.63	4176300.44	0.19982	630500.63	4176300.44	0.38829
630850.63	4176300.44	0.76610	631200.63	4176300.44	1.01342
631550.63	4176300.44	0.92518	631900.63	4176300.44	0.80217
632250.63	4176300.44	0.68731	632600.63	4176300.44	0.60261
632950.63	4176300.44	0.49214	633300.63	4176300.44	0.39665
629800.63	4176650.44	0.14297	630150.63	4176650.44	0.23436
630500.63	4176650.44	0.37115	630850.63	4176650.44	0.52486
631200.63	4176650.44	0.58258	631550.63	4176650.44	0.56116
631900.63	4176650.44	0.47991	632250.63	4176650.44	0.44248
632600.63	4176650.44	0.37241	632950.63	4176650.44	0.30674
633300.63	4176650.44	0.26827	629800.63	4177000.44	0.15249
630150.63	4177000.44	0.21478	630500.63	4177000.44	0.29381
630850.63	4177000.44	0.34766	631200.63	4177000.44	0.39715
631550.63	4177000.44	0.37549	631900.63	4177000.44	0.32598
632250.63	4177000.44	0.30940	632600.63	4177000.44	0.26682

632950.63	4177000.44	0.22823	633300.63	4177000.44	0.19349
629800.63	4177350.44	0.14249	630150.63	4177350.44	0.18082
630500.63	4177350.44	0.21441	630850.63	4177350.44	0.24768
631200.63	4177350.44	0.27262	631550.63	4177350.44	0.26019
631900.63	4177350.44	0.24057	632250.63	4177350.44	0.21244
632600.63	4177350.44	0.20478	632950.63	4177350.44	0.17623
633300.63	4177350.44	0.15555	631670.70	4175493.59	6.60323
631669.80	4175641.41	19.49968	631665.32	4175796.39	6.98547
631417.17	4175826.85	7.17097	631417.17	4175673.66	36.82998
631422.55	4175484.63	2.10423	631268.42	4175983.74	3.32872
631275.69	4175523.99	2.17707	631345.65	4175419.50	2.39445
631384.72	4175441.30	1.59944	631491.93	4175442.21	3.69256
631491.93	4175414.95	3.43351	631385.63	4175413.14	2.39524
631358.37	4175395.87	2.39394	631409.25	4175336.81	1.33702
631567.35	4175235.96	1.24937	631756.33	4175028.80	0.80081
631807.22	4175003.36	0.77727	631867.18	4174987.91	0.79401
631849.92	4175988.28	1.57693	631268.74	4175963.75	4.96307
631269.05	4175943.76	4.95269	631269.37	4175923.77	4.84940
631269.68	4175903.78	4.85157	631270.00	4175883.79	5.03631
631270.32	4175863.81	5.34826	631270.63	4175843.82	5.76906

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	6.23273	631271.26	4175803.84	6.62990
631271.58	4175783.85	7.07522	631271.90	4175763.86	7.37252
631272.21	4175743.87	7.37359	631272.53	4175723.88	7.12286
631272.85	4175703.89	6.68089	631273.16	4175683.90	5.99384
631273.48	4175663.91	5.28386	631273.79	4175643.92	4.63468
631274.11	4175623.94	4.04463	631274.43	4175603.95	3.48380
631274.74	4175583.96	2.98430	631275.06	4175563.97	2.53890
631275.37	4175543.98	2.18536	631285.68	4175509.06	2.17289
631295.68	4175494.14	2.09894	631305.67	4175479.21	2.03187
631315.67	4175464.28	2.00474	631325.66	4175449.35	1.95804
631335.66	4175434.43	2.29988	631358.67	4175426.77	2.27258
631371.70	4175434.03	2.01388	631402.59	4175441.45	1.57304
631420.46	4175441.60	1.71139	631438.33	4175441.76	2.04790
631456.19	4175441.91	2.60058	631474.06	4175442.06	3.14299
631491.93	4175428.58	3.42516	631474.21	4175414.65	3.03820
631456.50	4175414.35	2.81266	631438.78	4175414.05	2.69759
631421.06	4175413.74	2.65455	631403.35	4175413.44	2.59405
631372.00	4175404.51	2.52216	631371.09	4175381.11	2.02984
631383.81	4175366.34	1.65952	631396.53	4175351.58	1.45797
631425.06	4175326.73	1.24365	631440.87	4175316.64	1.26497

631456.68	4175306.56	1.21759	631472.49	4175296.47	1.21523
631488.30	4175286.39	1.23824	631504.11	4175276.30	1.22339
631519.92	4175266.22	1.23211	631535.73	4175256.13	1.25679
631551.54	4175246.05	1.24698	631579.95	4175222.15	1.22788
631592.55	4175208.34	1.18290	631605.15	4175194.53	1.16525
631617.74	4175180.72	1.11927	631630.34	4175166.91	1.10354
631642.94	4175153.10	1.05717	631655.54	4175139.29	1.04088
631668.14	4175125.47	0.99543	631680.74	4175111.66	0.98075
631693.34	4175097.85	0.93783	631705.94	4175084.04	0.92434
631718.53	4175070.23	0.89652	631731.13	4175056.42	0.86943
631743.73	4175042.61	0.84315	631773.29	4175020.32	0.80825
631790.26	4175011.84	0.80157	631822.21	4174999.50	0.77829
631837.20	4174995.64	0.77964	631852.19	4174991.77	0.78018
631866.84	4175007.53	0.83158	631866.50	4175027.14	0.90640
631866.16	4175046.76	0.97681	631865.83	4175066.37	1.04877
631865.49	4175085.99	1.12636	631865.15	4175105.60	1.20729
631864.81	4175125.22	1.29402	631864.47	4175144.83	1.38659
631864.13	4175164.45	1.48538	631863.80	4175184.06	1.58804
631863.46	4175203.68	1.69292	631863.12	4175223.29	1.80295
631862.78	4175242.91	1.91973	631862.44	4175262.52	2.03856

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.16282	631861.77	4175301.75	2.29187
631861.43	4175321.37	2.42561	631861.09	4175340.98	2.56240
631860.75	4175360.60	2.70825	631860.41	4175380.21	2.86901
631860.07	4175399.83	3.04408	631859.73	4175419.44	3.23979
631859.40	4175439.06	3.46222	631859.06	4175458.67	3.72323
631858.72	4175478.29	4.04357	631858.38	4175497.90	4.43819
631858.04	4175517.52	4.93648	631857.70	4175537.13	5.56958
631857.37	4175556.75	6.37234	631857.03	4175576.36	7.34370
631856.69	4175595.98	8.45808	631856.35	4175615.59	9.64958
631856.01	4175635.21	10.80727	631855.67	4175654.82	11.78066
631855.33	4175674.44	12.39162	631855.00	4175694.05	12.47706
631854.66	4175713.67	11.96981	631854.32	4175733.28	10.93337
631853.98	4175752.90	9.55152	631853.64	4175772.51	8.05500
631853.30	4175792.13	6.62890	631852.97	4175811.74	5.39026
631852.63	4175831.36	4.38341	631852.29	4175850.97	3.60684
631851.95	4175870.59	3.02599	631851.61	4175890.20	2.59879
631851.27	4175909.82	2.28156	631850.94	4175929.43	2.03941
631850.60	4175949.05	1.85003	631850.26	4175968.66	1.70019
631830.54	4175988.13	1.59645	631811.15	4175987.98	1.61964
631791.77	4175987.83	1.65674	631772.39	4175987.67	1.69616

631753.00	4175987.52	1.73773	631733.62	4175987.37	1.77851
631714.24	4175987.22	1.82167	631694.85	4175987.07	1.87060
631675.47	4175986.92	1.92011	631656.09	4175986.77	1.97151
631636.70	4175986.62	2.00967	631617.32	4175986.46	2.04311
631597.94	4175986.31	2.08348	631578.55	4175986.16	2.14359
631559.17	4175986.01	2.21628	631539.79	4175985.86	2.28149
631520.40	4175985.71	2.36899	631501.02	4175985.56	2.47805
631481.64	4175985.40	2.75560	631462.25	4175985.25	3.03374
631442.87	4175985.10	3.29514	631423.49	4175984.95	3.51612
631404.10	4175984.80	3.88127	631384.72	4175984.65	4.08901
631365.34	4175984.50	4.20583	631345.95	4175984.35	4.34426
631326.57	4175984.19	4.56058	631307.19	4175984.04	4.61814
631287.80	4175983.89	4.39235	631050.63	4175100.50	0.29677
631050.63	4175200.50	0.36818	631050.63	4175300.50	0.46862
631050.63	4175400.50	0.61092	631050.63	4175500.50	0.78988
631050.63	4175600.50	1.01548	631050.63	4175700.50	1.22298
631050.63	4175800.50	1.38706	631050.63	4175900.50	1.50588
631050.63	4176000.50	1.49276	631050.63	4176100.50	1.37404
631150.63	4175100.50	0.35120	631150.63	4175200.50	0.45173
631150.63	4175300.50	0.60119	631150.63	4175400.50	0.82191

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.19601	631150.63	4175600.50	1.66062
631150.63	4175700.50	2.27851	631150.63	4175800.50	2.52754
631150.63	4175900.50	2.41533	631150.63	4176000.50	2.09858
631150.63	4176100.50	1.66961	631250.63	4175100.50	0.40587
631250.63	4175200.50	0.54819	631250.63	4175300.50	0.77204
631250.63	4175400.50	1.14455	631250.63	4175500.50	1.97785
631250.63	4175600.50	3.06944	631250.63	4175700.50	5.49008
631250.63	4175800.50	5.91435	631250.63	4175900.50	4.96448
631250.63	4176000.50	2.69516	631250.63	4176100.50	1.81072
631350.63	4175100.50	0.44928	631350.63	4175200.50	0.63586
631350.63	4175300.50	0.95821	631350.63	4175400.50	2.32604
631350.63	4175500.50	2.00891	631350.63	4175600.50	4.97424
631350.63	4175700.50	29.44903	631350.63	4175800.50	10.19742
631350.63	4175900.50	4.44079	631350.63	4176000.50	3.95205
631350.63	4176100.50	1.85042	631450.63	4175100.50	0.52417
631450.63	4175200.50	0.75783	631450.63	4175300.50	1.16404
631450.63	4175400.50	2.74039	631450.63	4175500.50	2.80649
631450.63	4175600.50	8.53986	631450.63	4175700.50	89.62466
631450.63	4175800.50	8.56038	631450.63	4175900.50	2.49970
631450.63	4176000.50	2.86936	631450.63	4176100.50	1.69957

631550.63	4175100.50	0.68145	631550.63	4175200.50	1.00951
631550.63	4175300.50	1.65123	631550.63	4175400.50	3.09185
631550.63	4175500.50	7.71269	631550.63	4175600.50	16.92902
631550.63	4175700.50	76.65073	631550.63	4175800.50	7.31535
631550.63	4175900.50	3.67078	631550.63	4176000.50	2.09839
631550.63	4176100.50	1.45736	631650.63	4175100.50	0.86372
631650.63	4175200.50	1.34142	631650.63	4175300.50	2.25585
631650.63	4175400.50	4.00084	631650.63	4175500.50	7.97098
631650.63	4175600.50	16.08720	631650.63	4175700.50	30.86072
631650.63	4175800.50	6.94894	631650.63	4175900.50	3.00455
631650.63	4176000.50	1.87443	631650.63	4176100.50	1.31660
631750.63	4175100.50	1.06131	631750.63	4175200.50	1.62317
631750.63	4175300.50	2.51354	631750.63	4175400.50	3.77246
631750.63	4175500.50	5.48259	631750.63	4175600.50	10.53073
631750.63	4175700.50	18.73647	631750.63	4175800.50	6.31173
631750.63	4175900.50	2.50662	631750.63	4176000.50	1.66780
631750.63	4176100.50	1.24358	631850.63	4175100.50	1.18010
631850.63	4175200.50	1.68655	631850.63	4175300.50	2.31902
631850.63	4175400.50	3.10391	631850.63	4175500.50	4.54712
631850.63	4175600.50	8.83162	631850.63	4175700.50	12.57686

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	6.08466	631850.63	4175900.50	2.42052
631850.63	4176000.50	1.51328	631850.63	4176100.50	1.16763
631950.63	4175100.50	1.16781	631950.63	4175200.50	1.54888
631950.63	4175300.50	1.99279	631950.63	4175400.50	2.62697
631950.63	4175500.50	4.03363	631950.63	4175600.50	7.13030
631950.63	4175700.50	8.79330	631950.63	4175800.50	5.41517
631950.63	4175900.50	2.49597	631950.63	4176000.50	1.49205
631950.63	4176100.50	1.10871	632050.63	4175100.50	1.08137
632050.63	4175200.50	1.36550	632050.63	4175300.50	1.72283
632050.63	4175400.50	2.33703	632050.63	4175500.50	3.56678
632050.63	4175600.50	5.56827	632050.63	4175700.50	6.31715
632050.63	4175800.50	4.52510	632050.63	4175900.50	2.47940
632050.63	4176000.50	1.52108	632050.63	4176100.50	1.08465

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.88006	632304.44	4174354.52	0.23823
632192.15	4174956.32	0.83823	632420.62	4175510.15	2.16241
632418.97	4175552.92	2.21823	631187.00	4175727.00	3.78588
631166.00	4175729.00	3.44096	631121.00	4175719.00	2.56392
631035.00	4174830.00	0.19981	631106.00	4174825.00	0.21536
631937.00	4174528.00	0.27872	631322.00	4174522.00	0.11616
629800.63	4173850.44	0.01956	630150.63	4173850.44	0.02345
630500.63	4173850.44	0.03218	630850.63	4173850.44	0.04793
631200.63	4173850.44	0.04220	631550.63	4173850.44	0.05928
631900.63	4173850.44	0.07609	632250.63	4173850.44	0.09736
632600.63	4173850.44	0.12163	632950.63	4173850.44	0.13185
633300.63	4173850.44	0.12438	629800.63	4174200.44	0.02828
630150.63	4174200.44	0.03669	630500.63	4174200.44	0.05426
630850.63	4174200.44	0.06992	631200.63	4174200.44	0.07036
631550.63	4174200.44	0.09754	631900.63	4174200.44	0.14368
632250.63	4174200.44	0.17248	632600.63	4174200.44	0.19603
632950.63	4174200.44	0.18116	633300.63	4174200.44	0.17202
629800.63	4174550.44	0.04970	630150.63	4174550.44	0.06047
630500.63	4174550.44	0.08061	630850.63	4174550.44	0.10919
631200.63	4174550.44	0.13679	631550.63	4174550.44	0.17559
631900.63	4174550.44	0.28775	632250.63	4174550.44	0.34550
632600.63	4174550.44	0.30608	632950.63	4174550.44	0.28077
633300.63	4174550.44	0.25444	629800.63	4174900.44	0.06218
630150.63	4174900.44	0.08282	630500.63	4174900.44	0.12434
630850.63	4174900.44	0.17600	631200.63	4174900.44	0.28057
631550.63	4174900.44	0.46456	631900.63	4174900.44	0.82613
632250.63	4174900.44	0.70806	632600.63	4174900.44	0.56281
632950.63	4174900.44	0.47021	633300.63	4174900.44	0.38998
629800.63	4175250.44	0.07239	630150.63	4175250.44	0.11339
630500.63	4175250.44	0.19604	630850.63	4175250.44	0.34169
631200.63	4175250.44	0.77587	631550.63	4175250.44	2.14026
631900.63	4175250.44	2.41893	632250.63	4175250.44	1.60911
632600.63	4175250.44	1.09302	632950.63	4175250.44	0.75534
633300.63	4175250.44	0.56016	629800.63	4175600.44	0.09035
630150.63	4175600.44	0.13906	630500.63	4175600.44	0.25707
630850.63	4175600.44	0.59693	631200.63	4175600.44	3.32998
631550.63	4175600.44	74.96768	631900.63	4175600.44	10.44713
632250.63	4175600.44	3.44358	632600.63	4175600.44	1.50779
632950.63	4175600.44	0.90068	633300.63	4175600.44	0.63839
629800.63	4175950.44	0.10406	630150.63	4175950.44	0.16146

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.32559	630850.63	4175950.44	0.81167
631200.63	4175950.44	2.33835	631550.63	4175950.44	1.95240
631900.63	4175950.44	1.23125	632250.63	4175950.44	1.23489
632600.63	4175950.44	0.96175	632950.63	4175950.44	0.69982
633300.63	4175950.44	0.52220	629800.63	4176300.44	0.12757
630150.63	4176300.44	0.21621	630500.63	4176300.44	0.39970
630850.63	4176300.44	0.73652	631200.63	4176300.44	0.86145
631550.63	4176300.44	0.78781	631900.63	4176300.44	0.66459
632250.63	4176300.44	0.58563	632600.63	4176300.44	0.50085
632950.63	4176300.44	0.43035	633300.63	4176300.44	0.35440
629800.63	4176650.44	0.14781	630150.63	4176650.44	0.23409
630500.63	4176650.44	0.36347	630850.63	4176650.44	0.48154
631200.63	4176650.44	0.53631	631550.63	4176650.44	0.50208
631900.63	4176650.44	0.42017	632250.63	4176650.44	0.39523
632600.63	4176650.44	0.33777	632950.63	4176650.44	0.27637
633300.63	4176650.44	0.24118	629800.63	4177000.44	0.15142
630150.63	4177000.44	0.20964	630500.63	4177000.44	0.27947
630850.63	4177000.44	0.32166	631200.63	4177000.44	0.36954
631550.63	4177000.44	0.34402	631900.63	4177000.44	0.30194
632250.63	4177000.44	0.27820	632600.63	4177000.44	0.24684
632950.63	4177000.44	0.21242	633300.63	4177000.44	0.18079
629800.63	4177350.44	0.13896	630150.63	4177350.44	0.17369
630500.63	4177350.44	0.20240	630850.63	4177350.44	0.23245
631200.63	4177350.44	0.25378	631550.63	4177350.44	0.24160
631900.63	4177350.44	0.22534	632250.63	4177350.44	0.19421
632600.63	4177350.44	0.19013	632950.63	4177350.44	0.16543
633300.63	4177350.44	0.14671	631670.70	4175493.59	11.48118
631669.80	4175641.41	17.21338	631665.32	4175796.39	3.14656
631417.17	4175826.85	3.26959	631417.17	4175673.66	18.48364
631422.55	4175484.63	5.15775	631268.42	4175983.74	2.36071
631275.69	4175523.99	4.28916	631345.65	4175419.50	4.08665
631384.72	4175441.30	2.53845	631491.93	4175442.21	10.56242
631491.93	4175414.95	8.81459	631385.63	4175413.14	4.30445
631358.37	4175395.87	3.87242	631409.25	4175336.81	2.20825
631567.35	4175235.96	2.09530	631756.33	4175028.80	1.17534
631807.22	4175003.36	1.11948	631867.18	4174987.91	1.09738
631849.92	4175988.28	1.15538	631268.74	4175963.75	3.32517
631269.05	4175943.76	3.22837	631269.37	4175923.77	3.26791
631269.68	4175903.78	3.39143	631270.00	4175883.79	3.75224
631270.32	4175863.81	4.22047	631270.63	4175843.82	4.71959

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	5.26323	631271.26	4175803.84	5.84555
631271.58	4175783.85	6.46211	631271.90	4175763.86	6.99711
631272.21	4175743.87	7.44029	631272.53	4175723.88	7.86172
631272.85	4175703.89	8.30900	631273.16	4175683.90	8.71153
631273.48	4175663.91	8.86527	631273.79	4175643.92	8.99943
631274.11	4175623.94	8.29978	631274.43	4175603.95	6.44758
631274.74	4175583.96	5.27638	631275.06	4175563.97	4.51946
631275.37	4175543.98	4.47139	631285.68	4175509.06	4.25701
631295.68	4175494.14	4.11748	631305.67	4175479.21	3.97131
631315.67	4175464.28	3.67028	631325.66	4175449.35	3.56314
631335.66	4175434.43	3.91939	631358.67	4175426.77	4.01514
631371.70	4175434.03	3.37196	631402.59	4175441.45	2.89579
631420.46	4175441.60	3.23776	631438.33	4175441.76	4.34761
631456.19	4175441.91	6.33222	631474.06	4175442.06	8.53391
631491.93	4175428.58	9.37112	631474.21	4175414.65	7.15659
631456.50	4175414.35	6.08823	631438.78	4175414.05	5.48121
631421.06	4175413.74	4.82259	631403.35	4175413.44	4.46393
631372.00	4175404.51	4.15792	631371.09	4175381.11	3.33357
631383.81	4175366.34	2.79702	631396.53	4175351.58	2.45513
631425.06	4175326.73	2.13812	631440.87	4175316.64	2.09181
631456.68	4175306.56	2.06254	631472.49	4175296.47	2.04285
631488.30	4175286.39	2.04357	631504.11	4175276.30	2.06094
631519.92	4175266.22	2.07337	631535.73	4175256.13	2.08748
631551.54	4175246.05	2.09152	631579.95	4175222.15	2.02283
631592.55	4175208.34	1.94849	631605.15	4175194.53	1.87781
631617.74	4175180.72	1.80587	631630.34	4175166.91	1.74283
631642.94	4175153.10	1.67078	631655.54	4175139.29	1.60932
631668.14	4175125.47	1.54531	631680.74	4175111.66	1.48866
631693.34	4175097.85	1.43132	631705.94	4175084.04	1.37737
631718.53	4175070.23	1.32423	631731.13	4175056.42	1.27271
631743.73	4175042.61	1.22393	631773.29	4175020.32	1.15975
631790.26	4175011.84	1.14064	631822.21	4174999.50	1.11556
631837.20	4174995.64	1.11125	631852.19	4174991.77	1.10492
631866.84	4175007.53	1.17134	631866.50	4175027.14	1.25765
631866.16	4175046.76	1.35447	631865.83	4175066.37	1.45527
631865.49	4175085.99	1.56152	631865.15	4175105.60	1.67006
631864.81	4175125.22	1.78372	631864.47	4175144.83	1.89871
631864.13	4175164.45	2.01831	631863.80	4175184.06	2.14125
631863.46	4175203.68	2.26773	631863.12	4175223.29	2.39859
631862.78	4175242.91	2.53477	631862.44	4175262.52	2.67700

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.82838	631861.77	4175301.75	2.99321
631861.43	4175321.37	3.17817	631861.09	4175340.98	3.39581
631860.75	4175360.60	3.65828	631860.41	4175380.21	3.98358
631860.07	4175399.83	4.39099	631859.73	4175419.44	4.90516
631859.40	4175439.06	5.55386	631859.06	4175458.67	6.35934
631858.72	4175478.29	7.33125	631858.38	4175497.90	8.44315
631858.04	4175517.52	9.62618	631857.70	4175537.13	10.76524
631857.37	4175556.75	11.70868	631857.03	4175576.36	12.27705
631856.69	4175595.98	12.32702	631856.35	4175615.59	11.78879
631856.01	4175635.21	10.74083	631855.67	4175654.82	9.36936
631855.33	4175674.44	7.89595	631855.00	4175694.05	6.49889
631854.66	4175713.67	5.28624	631854.32	4175733.28	4.30394
631853.98	4175752.90	3.53891	631853.64	4175772.51	2.96744
631853.30	4175792.13	2.54689	631852.97	4175811.74	2.22891
631852.63	4175831.36	1.99138	631852.29	4175850.97	1.80234
631851.95	4175870.59	1.65347	631851.61	4175890.20	1.53423
631851.27	4175909.82	1.43375	631850.94	4175929.43	1.35188
631850.60	4175949.05	1.27683	631850.26	4175968.66	1.21174
631830.54	4175988.13	1.17449	631811.15	4175987.98	1.19415
631791.77	4175987.83	1.21581	631772.39	4175987.67	1.24004
631753.00	4175987.52	1.26220	631733.62	4175987.37	1.27761
631714.24	4175987.22	1.29616	631694.85	4175987.07	1.31325
631675.47	4175986.92	1.33001	631656.09	4175986.77	1.35486
631636.70	4175986.62	1.37827	631617.32	4175986.46	1.40289
631597.94	4175986.31	1.43783	631578.55	4175986.16	1.48177
631559.17	4175986.01	1.53286	631539.79	4175985.86	1.58974
631520.40	4175985.71	1.64555	631501.02	4175985.56	1.74750
631481.64	4175985.40	1.93853	631462.25	4175985.25	2.11748
631442.87	4175985.10	2.31920	631423.49	4175984.95	2.51388
631404.10	4175984.80	2.73996	631384.72	4175984.65	2.80980
631365.34	4175984.50	2.84484	631345.95	4175984.35	2.88318
631326.57	4175984.19	2.99119	631307.19	4175984.04	3.00802
631287.80	4175983.89	2.94945	631050.63	4175100.50	0.35586
631050.63	4175200.50	0.45484	631050.63	4175300.50	0.59238
631050.63	4175400.50	0.77122	631050.63	4175500.50	0.97970
631050.63	4175600.50	1.23586	631050.63	4175700.50	1.34115
631050.63	4175800.50	1.52500	631050.63	4175900.50	1.56351
631050.63	4176000.50	1.44893	631050.63	4176100.50	1.24930
631150.63	4175100.50	0.43218	631150.63	4175200.50	0.57569
631150.63	4175300.50	0.79774	631150.63	4175400.50	1.11830

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.56607	631150.63	4175600.50	2.25545
631150.63	4175700.50	2.95567	631150.63	4175800.50	3.28221
631150.63	4175900.50	2.35670	631150.63	4176000.50	1.80535
631150.63	4176100.50	1.36459	631250.63	4175100.50	0.52324
631250.63	4175200.50	0.73664	631250.63	4175300.50	1.08832
631250.63	4175400.50	1.81029	631250.63	4175500.50	3.66156
631250.63	4175600.50	5.28066	631250.63	4175700.50	6.71493
631250.63	4175800.50	5.34956	631250.63	4175900.50	3.50826
631250.63	4176000.50	2.01347	631250.63	4176100.50	1.39816
631350.63	4175100.50	0.60526	631350.63	4175200.50	0.90387
631350.63	4175300.50	1.54485	631350.63	4175400.50	3.91591
631350.63	4175500.50	3.73063	631350.63	4175600.50	27.44940
631350.63	4175700.50	13.86785	631350.63	4175800.50	6.36969
631350.63	4175900.50	2.81088	631350.63	4176000.50	2.64331
631350.63	4176100.50	1.44213	631450.63	4175100.50	0.72735
631450.63	4175200.50	1.12080	631450.63	4175300.50	1.94842
631450.63	4175400.50	5.50266	631450.63	4175500.50	9.05896
631450.63	4175600.50	97.89700	631450.63	4175700.50	9.85011
631450.63	4175800.50	2.99251	631450.63	4175900.50	1.53825
631450.63	4176000.50	2.06443	631450.63	4176100.50	1.32647
631550.63	4175100.50	0.98456	631550.63	4175200.50	1.61220
631550.63	4175300.50	2.97397	631550.63	4175400.50	6.77418
631550.63	4175500.50	24.63289	631550.63	4175600.50	74.92348
631550.63	4175700.50	4.81358	631550.63	4175800.50	2.06293
631550.63	4175900.50	1.74858	631550.63	4176000.50	1.48806
631550.63	4176100.50	1.13748	631650.63	4175100.50	1.31682
631650.63	4175200.50	2.18706	631650.63	4175300.50	3.97139
631650.63	4175400.50	6.99191	631650.63	4175500.50	13.03904
631650.63	4175600.50	30.12070	631650.63	4175700.50	7.30312
631650.63	4175800.50	3.22170	631650.63	4175900.50	1.88169
631650.63	4176000.50	1.30680	631650.63	4176100.50	1.00971
631750.63	4175100.50	1.58400	631750.63	4175200.50	2.48872
631750.63	4175300.50	3.72394	631750.63	4175400.50	5.37916
631750.63	4175500.50	10.43409	631750.63	4175600.50	18.54888
631750.63	4175700.50	6.31215	631750.63	4175800.50	2.51267
631750.63	4175900.50	1.63738	631750.63	4176000.50	1.21943
631750.63	4176100.50	0.95144	631850.63	4175100.50	1.65499
631850.63	4175200.50	2.28815	631850.63	4175300.50	3.04733
631850.63	4175400.50	4.46083	631850.63	4175500.50	8.73216
631850.63	4175600.50	12.53117	631850.63	4175700.50	6.09545

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.39874	631850.63	4175900.50	1.47800
631850.63	4176000.50	1.12291	631850.63	4176100.50	0.91609
631950.63	4175100.50	1.51512	631950.63	4175200.50	1.95898
631950.63	4175300.50	2.58166	631950.63	4175400.50	3.97596
631950.63	4175500.50	7.00858	631950.63	4175600.50	8.79292
631950.63	4175700.50	5.46567	631950.63	4175800.50	2.47186
631950.63	4175900.50	1.44985	631950.63	4176000.50	1.06298
631950.63	4176100.50	0.87444	632050.63	4175100.50	1.34411
632050.63	4175200.50	1.69986	632050.63	4175300.50	2.30570
632050.63	4175400.50	3.51614	632050.63	4175500.50	5.46201
632050.63	4175600.50	6.32354	632050.63	4175700.50	4.59658
632050.63	4175800.50	2.48566	632050.63	4175900.50	1.48706
632050.63	4176000.50	1.04817	632050.63	4176100.50	0.84230

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.67497	632304.44	4174354.52	0.21422
632192.15	4174956.32	0.64572	632420.62	4175510.15	1.59296
632418.97	4175552.92	1.70130	631187.00	4175727.00	11.63387
631166.00	4175729.00	9.17517	631121.00	4175719.00	5.49798
631035.00	4174830.00	0.19424	631106.00	4174825.00	0.19882
631937.00	4174528.00	0.25796	631322.00	4174522.00	0.11308
629800.63	4173850.44	0.02065	630150.63	4173850.44	0.02463
630500.63	4173850.44	0.03287	630850.63	4173850.44	0.04576
631200.63	4173850.44	0.03888	631550.63	4173850.44	0.06572
631900.63	4173850.44	0.07502	632250.63	4173850.44	0.09351
632600.63	4173850.44	0.11437	632950.63	4173850.44	0.11958
633300.63	4173850.44	0.11228	629800.63	4174200.44	0.02828
630150.63	4174200.44	0.03825	630500.63	4174200.44	0.05892
630850.63	4174200.44	0.06798	631200.63	4174200.44	0.06240
631550.63	4174200.44	0.10671	631900.63	4174200.44	0.13596
632250.63	4174200.44	0.16217	632600.63	4174200.44	0.17398
632950.63	4174200.44	0.15928	633300.63	4174200.44	0.15237
629800.63	4174550.44	0.04922	630150.63	4174550.44	0.06097

630500.63	4174550.44	0.08389	630850.63	4174550.44	0.11195
631200.63	4174550.44	0.11945	631550.63	4174550.44	0.18865
631900.63	4174550.44	0.26545	632250.63	4174550.44	0.29688
632600.63	4174550.44	0.25882	632950.63	4174550.44	0.23989
633300.63	4174550.44	0.21838	629800.63	4174900.44	0.06468
630150.63	4174900.44	0.08580	630500.63	4174900.44	0.12543
630850.63	4174900.44	0.18619	631200.63	4174900.44	0.24765
631550.63	4174900.44	0.47902	631900.63	4174900.44	0.68454
632250.63	4174900.44	0.55524	632600.63	4174900.44	0.45328
632950.63	4174900.44	0.38366	633300.63	4174900.44	0.32453
629800.63	4175250.44	0.08061	630150.63	4175250.44	0.13031
630500.63	4175250.44	0.21432	630850.63	4175250.44	0.36046
631200.63	4175250.44	0.74061	631550.63	4175250.44	1.96951
631900.63	4175250.44	1.57665	632250.63	4175250.44	1.12362
632600.63	4175250.44	0.82099	632950.63	4175250.44	0.60371
633300.63	4175250.44	0.46444	629800.63	4175600.44	0.10461
630150.63	4175600.44	0.16499	630500.63	4175600.44	0.30969
630850.63	4175600.44	0.76922	631200.63	4175600.44	5.46139
631550.63	4175600.44	18.09111	631900.63	4175600.44	6.15667
632250.63	4175600.44	2.66073	632600.63	4175600.44	1.25685
632950.63	4175600.44	0.77212	633300.63	4175600.44	0.56034
629800.63	4175950.44	0.11788	630150.63	4175950.44	0.18569

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.39558	630850.63	4175950.44	1.20179
631200.63	4175950.44	3.62451	631550.63	4175950.44	2.47299
631900.63	4175950.44	1.90856	632250.63	4175950.44	1.55673
632600.63	4175950.44	1.01070	632950.63	4175950.44	0.68768
633300.63	4175950.44	0.50769	629800.63	4176300.44	0.14467
630150.63	4176300.44	0.26160	630500.63	4176300.44	0.50615
630850.63	4176300.44	0.93517	631200.63	4176300.44	1.03089
631550.63	4176300.44	0.82809	631900.63	4176300.44	0.75507
632250.63	4176300.44	0.65575	632600.63	4176300.44	0.57711
632950.63	4176300.44	0.45384	633300.63	4176300.44	0.36654
629800.63	4176650.44	0.17486	630150.63	4176650.44	0.27751
630500.63	4176650.44	0.43341	630850.63	4176650.44	0.54309
631200.63	4176650.44	0.59243	631550.63	4176650.44	0.52669
631900.63	4176650.44	0.47983	632250.63	4176650.44	0.41900
632600.63	4176650.44	0.34447	632950.63	4176650.44	0.29274
633300.63	4176650.44	0.25521	629800.63	4177000.44	0.17433
630150.63	4177000.44	0.24250	630500.63	4177000.44	0.31763
630850.63	4177000.44	0.36366	631200.63	4177000.44	0.38648

631550.63	4177000.44	0.36446	631900.63	4177000.44	0.30763
632250.63	4177000.44	0.29875	632600.63	4177000.44	0.25356
632950.63	4177000.44	0.21331	633300.63	4177000.44	0.18301
629800.63	4177350.44	0.15735	630150.63	4177350.44	0.19598
630500.63	4177350.44	0.22381	630850.63	4177350.44	0.26297
631200.63	4177350.44	0.26366	631550.63	4177350.44	0.25735
631900.63	4177350.44	0.22407	632250.63	4177350.44	0.21353
632600.63	4177350.44	0.19409	632950.63	4177350.44	0.16794
633300.63	4177350.44	0.14681	631670.70	4175493.59	4.87730
631669.80	4175641.41	13.22905	631665.32	4175796.39	7.38271
631417.17	4175826.85	5.16023	631417.17	4175673.66	41.02337
631422.55	4175484.63	5.89086	631268.42	4175983.74	2.93348
631275.69	4175523.99	3.96962	631345.65	4175419.50	3.17209
631384.72	4175441.30	3.20087	631491.93	4175442.21	8.61352
631491.93	4175414.95	8.19463	631385.63	4175413.14	4.11658
631358.37	4175395.87	3.50805	631409.25	4175336.81	2.14991
631567.35	4175235.96	1.88466	631756.33	4175028.80	0.98264
631807.22	4175003.36	0.91617	631867.18	4174987.91	0.87097
631849.92	4175988.28	1.58432	631268.74	4175963.75	3.41701
631269.05	4175943.76	3.60865	631269.37	4175923.77	3.91468
631269.68	4175903.78	3.62008	631270.00	4175883.79	4.22793
631270.32	4175863.81	5.03874	631270.63	4175843.82	6.05728

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	7.40405	631271.26	4175803.84	9.19237
631271.58	4175783.85	11.79867	631271.90	4175763.86	15.49327
631272.21	4175743.87	20.26888	631272.53	4175723.88	26.59424
631272.85	4175703.89	29.78273	631273.16	4175683.90	26.58261
631273.48	4175663.91	19.68407	631273.79	4175643.92	15.02968
631274.11	4175623.94	11.67276	631274.43	4175603.95	9.15786
631274.74	4175583.96	7.37909	631275.06	4175563.97	5.85632
631275.37	4175543.98	4.82702	631285.68	4175509.06	4.00589
631295.68	4175494.14	3.84359	631305.67	4175479.21	3.44531
631315.67	4175464.28	3.05186	631325.66	4175449.35	2.76544
631335.66	4175434.43	2.76268	631358.67	4175426.77	3.22609
631371.70	4175434.03	3.24903	631402.59	4175441.45	3.80710
631420.46	4175441.60	4.46370	631438.33	4175441.76	5.06997
631456.19	4175441.91	7.70905	631474.06	4175442.06	8.28231
631491.93	4175428.58	8.56967	631474.21	4175414.65	7.75921
631456.50	4175414.35	7.44161	631438.78	4175414.05	6.77960
631421.06	4175413.74	5.93799	631403.35	4175413.44	5.09492
631372.00	4175404.51	4.01192	631371.09	4175381.11	3.32877

631383.81	4175366.34	3.00317	631396.53	4175351.58	2.57963
631425.06	4175326.73	2.11605	631440.87	4175316.64	2.11817
631456.68	4175306.56	2.10580	631472.49	4175296.47	2.09347
631488.30	4175286.39	2.07217	631504.11	4175276.30	2.04202
631519.92	4175266.22	2.01140	631535.73	4175256.13	1.97628
631551.54	4175246.05	1.93183	631579.95	4175222.15	1.80059
631592.55	4175208.34	1.71822	631605.15	4175194.53	1.64352
631617.74	4175180.72	1.56910	631630.34	4175166.91	1.50188
631642.94	4175153.10	1.43492	631655.54	4175139.29	1.37532
631668.14	4175125.47	1.31555	631680.74	4175111.66	1.26163
631693.34	4175097.85	1.20892	631705.94	4175084.04	1.15800
631718.53	4175070.23	1.11093	631731.13	4175056.42	1.06624
631743.73	4175042.61	1.02394	631773.29	4175020.32	0.96092
631790.26	4175011.84	0.94057	631822.21	4174999.50	0.90586
631837.20	4174995.64	0.89425	631852.19	4174991.77	0.88226
631866.84	4175007.53	0.91516	631866.50	4175027.14	0.96594
631866.16	4175046.76	1.02439	631865.83	4175066.37	1.08409
631865.49	4175085.99	1.14123	631865.15	4175105.60	1.19725
631864.81	4175125.22	1.25374	631864.47	4175144.83	1.31170
631864.13	4175164.45	1.37134	631863.80	4175184.06	1.43441
631863.46	4175203.68	1.49788	631863.12	4175223.29	1.56434
631862.78	4175242.91	1.63355	631862.44	4175262.52	1.70743

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	1.78650	631861.77	4175301.75	1.87305
631861.43	4175321.37	1.96861	631861.09	4175340.98	2.07648
631860.75	4175360.60	2.20018	631860.41	4175380.21	2.34380
631860.07	4175399.83	2.51194	631859.73	4175419.44	2.71008
631859.40	4175439.06	2.94496	631859.06	4175458.67	3.22283
631858.72	4175478.29	3.54980	631858.38	4175497.90	3.93059
631858.04	4175517.52	4.36784	631857.70	4175537.13	4.86134
631857.37	4175556.75	5.40899	631857.03	4175576.36	6.00349
631856.69	4175595.98	6.63144	631856.35	4175615.59	7.26444
631856.01	4175635.21	7.85608	631855.67	4175654.82	8.33956
631855.33	4175674.44	8.63908	631855.00	4175694.05	8.68812
631854.66	4175713.67	8.45837	631854.32	4175733.28	7.96807
631853.98	4175752.90	7.28188	631853.64	4175772.51	6.49136
631853.30	4175792.13	5.68317	631852.97	4175811.74	4.92302
631852.63	4175831.36	4.24427	631852.29	4175850.97	3.65951
631851.95	4175870.59	3.16566	631851.61	4175890.20	2.75581
631851.27	4175909.82	2.41888	631850.94	4175929.43	2.14442
631850.60	4175949.05	1.92063	631850.26	4175968.66	1.73748

631830.54	4175988.13	1.58321	631811.15	4175987.98	1.58377
631791.77	4175987.83	1.58832	631772.39	4175987.67	1.59740
631753.00	4175987.52	1.61250	631733.62	4175987.37	1.63288
631714.24	4175987.22	1.65810	631694.85	4175987.07	1.68821
631675.47	4175986.92	1.72424	631656.09	4175986.77	1.76425
631636.70	4175986.62	1.80849	631617.32	4175986.46	1.85620
631597.94	4175986.31	1.90791	631578.55	4175986.16	1.96378
631559.17	4175986.01	2.02257	631539.79	4175985.86	2.08225
631520.40	4175985.71	2.14304	631501.02	4175985.56	2.27691
631481.64	4175985.40	2.77090	631462.25	4175985.25	3.05445
631442.87	4175985.10	3.06735	631423.49	4175984.95	3.09967
631404.10	4175984.80	3.13773	631384.72	4175984.65	3.19270
631365.34	4175984.50	3.05972	631345.95	4175984.35	2.97474
631326.57	4175984.19	3.00400	631307.19	4175984.04	2.99821
631287.80	4175983.89	2.97807	631050.63	4175100.50	0.36556
631050.63	4175200.50	0.47666	631050.63	4175300.50	0.63890
631050.63	4175400.50	0.89641	631050.63	4175500.50	1.30849
631050.63	4175600.50	2.02232	631050.63	4175700.50	2.62424
631050.63	4175800.50	2.96231	631050.63	4175900.50	2.83356
631050.63	4176000.50	2.26407	631050.63	4176100.50	1.68466
631150.63	4175100.50	0.41081	631150.63	4175200.50	0.56672
631150.63	4175300.50	0.82100	631150.63	4175400.50	1.33074

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	2.50425	631150.63	4175600.50	4.43041
631150.63	4175700.50	7.12613	631150.63	4175800.50	7.50161
631150.63	4175900.50	4.57347	631150.63	4176000.50	2.58743
631150.63	4176100.50	1.71718	631250.63	4175100.50	0.46637
631250.63	4175200.50	0.66407	631250.63	4175300.50	1.05250
631250.63	4175400.50	1.73187	631250.63	4175500.50	2.62872
631250.63	4175600.50	7.14186	631250.63	4175700.50	24.67377
631250.63	4175800.50	10.01282	631250.63	4175900.50	3.88001
631250.63	4176000.50	2.64537	631250.63	4176100.50	1.72998
631350.63	4175100.50	0.58446	631350.63	4175200.50	0.85171
631350.63	4175300.50	1.34680	631350.63	4175400.50	3.31194
631350.63	4175500.50	3.60545	631350.63	4175600.50	10.72221
631350.63	4175700.50	38.00805	631350.63	4175800.50	7.18949
631350.63	4175900.50	2.23251	631350.63	4176000.50	2.80515
631350.63	4176100.50	1.62006	631450.63	4175100.50	0.77188
631450.63	4175200.50	1.19623	631450.63	4175300.50	1.99411
631450.63	4175400.50	6.69112	631450.63	4175500.50	7.44406
631450.63	4175600.50	15.85930	631450.63	4175700.50	48.58465

631450.63	4175800.50	7.92530	631450.63	4175900.50	2.72570
631450.63	4176000.50	2.61526	631450.63	4176100.50	1.45285
631550.63	4175100.50	0.99948	631550.63	4175200.50	1.54474
631550.63	4175300.50	2.52555	631550.63	4175400.50	4.16928
631550.63	4175500.50	9.50516	631550.63	4175600.50	18.10522
631550.63	4175700.50	28.77081	631550.63	4175800.50	9.53538
631550.63	4175900.50	3.68884	631550.63	4176000.50	1.92457
631550.63	4176100.50	1.34059	631650.63	4175100.50	1.16930
631650.63	4175200.50	1.73499	631650.63	4175300.50	2.55223
631650.63	4175400.50	3.54856	631650.63	4175500.50	5.26213
631650.63	4175600.50	10.56157	631650.63	4175700.50	16.33982
631650.63	4175800.50	7.19060	631650.63	4175900.50	2.75718
631650.63	4176000.50	1.68969	631650.63	4176100.50	1.24962
631750.63	4175100.50	1.24200	631750.63	4175200.50	1.70200
631750.63	4175300.50	2.22314	631750.63	4175400.50	2.92326
631750.63	4175500.50	4.51007	631750.63	4175600.50	8.46207
631750.63	4175700.50	11.69601	631750.63	4175800.50	6.24574
631750.63	4175900.50	2.61859	631750.63	4176000.50	1.53314
631750.63	4176100.50	1.14848	631850.63	4175100.50	1.19769
631850.63	4175200.50	1.51284	631850.63	4175300.50	1.89698
631850.63	4175400.50	2.54449	631850.63	4175500.50	4.02064
631850.63	4175600.50	6.86612	631850.63	4175700.50	8.74871

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	5.37179	631850.63	4175900.50	2.57101
631850.63	4176000.50	1.50203	631850.63	4176100.50	1.08303
631950.63	4175100.50	1.08065	631950.63	4175200.50	1.32713
631950.63	4175300.50	1.67288	631950.63	4175400.50	2.30336
631950.63	4175500.50	3.55490	631950.63	4175600.50	5.50455
631950.63	4175700.50	6.61031	631950.63	4175800.50	4.52875
631950.63	4175900.50	2.48539	631950.63	4176000.50	1.52143
631950.63	4176100.50	1.06916	632050.63	4175100.50	0.96805
632050.63	4175200.50	1.18540	632050.63	4175300.50	1.51744
632050.63	4175400.50	2.09091	632050.63	4175500.50	3.06384
632050.63	4175600.50	4.34922	632050.63	4175700.50	5.00415
632050.63	4175800.50	3.72778	632050.63	4175900.50	2.30887
632050.63	4176000.50	1.50525	632050.63	4176100.50	1.07875

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.78791	632304.44	4174354.52	0.24450
632192.15	4174956.32	0.75381	632420.62	4175510.15	1.79700
632418.97	4175552.92	1.86669	631187.00	4175727.00	4.77186
631166.00	4175729.00	4.70933	631121.00	4175719.00	5.29776
631035.00	4174830.00	0.23547	631106.00	4174825.00	0.24319
631937.00	4174528.00	0.31302	631322.00	4174522.00	0.13124
629800.63	4173850.44	0.02161	630150.63	4173850.44	0.02590
630500.63	4173850.44	0.03533	630850.63	4173850.44	0.05013
631200.63	4173850.44	0.04238	631550.63	4173850.44	0.07242
631900.63	4173850.44	0.08295	632250.63	4173850.44	0.10589
632600.63	4173850.44	0.12782	632950.63	4173850.44	0.12898
633300.63	4173850.44	0.12026	629800.63	4174200.44	0.03059
630150.63	4174200.44	0.04121	630500.63	4174200.44	0.06392
630850.63	4174200.44	0.07565	631200.63	4174200.44	0.06966
631550.63	4174200.44	0.12039	631900.63	4174200.44	0.15529
632250.63	4174200.44	0.18753	632600.63	4174200.44	0.19129
632950.63	4174200.44	0.17305	633300.63	4174200.44	0.16693
629800.63	4174550.44	0.05383	630150.63	4174550.44	0.06785
630500.63	4174550.44	0.09231	630850.63	4174550.44	0.12775
631200.63	4174550.44	0.13877	631550.63	4174550.44	0.22276
631900.63	4174550.44	0.32451	632250.63	4174550.44	0.33764
632600.63	4174550.44	0.28794	632950.63	4174550.44	0.26993
633300.63	4174550.44	0.24326	629800.63	4174900.44	0.06985
630150.63	4174900.44	0.09723	630500.63	4174900.44	0.14561
630850.63	4174900.44	0.21864	631200.63	4174900.44	0.31253
631550.63	4174900.44	0.63698	631900.63	4174900.44	0.84104
632250.63	4174900.44	0.64469	632600.63	4174900.44	0.52846
632950.63	4174900.44	0.43632	633300.63	4174900.44	0.36333
629800.63	4175250.44	0.08375	630150.63	4175250.44	0.13796
630500.63	4175250.44	0.24751	630850.63	4175250.44	0.46537
631200.63	4175250.44	1.18864	631550.63	4175250.44	3.00773
631900.63	4175250.44	1.95791	632250.63	4175250.44	1.40700
632600.63	4175250.44	0.95066	632950.63	4175250.44	0.66659
633300.63	4175250.44	0.50181	629800.63	4175600.44	0.10577
630150.63	4175600.44	0.16752	630500.63	4175600.44	0.32328
630850.63	4175600.44	0.89445	631200.63	4175600.44	11.15228
631550.63	4175600.44	28.52918	631900.63	4175600.44	7.58098
632250.63	4175600.44	2.87824	632600.63	4175600.44	1.28339
632950.63	4175600.44	0.77571	633300.63	4175600.44	0.56183
629800.63	4175950.44	0.12309	630150.63	4175950.44	0.20031

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.43181	630850.63	4175950.44	1.16474
631200.63	4175950.44	2.23399	631550.63	4175950.44	1.98754
631900.63	4175950.44	1.27259	632250.63	4175950.44	1.19195
632600.63	4175950.44	0.87362	632950.63	4175950.44	0.62607
633300.63	4175950.44	0.47046	629800.63	4176300.44	0.15432
630150.63	4176300.44	0.27210	630500.63	4176300.44	0.49049
630850.63	4176300.44	0.78199	631200.63	4176300.44	0.86835
631550.63	4176300.44	0.72994	631900.63	4176300.44	0.67450
632250.63	4176300.44	0.56927	632600.63	4176300.44	0.49730
632950.63	4176300.44	0.40746	633300.63	4176300.44	0.33004
629800.63	4176650.44	0.17593	630150.63	4176650.44	0.27042
630500.63	4176650.44	0.39812	630850.63	4176650.44	0.47880
631200.63	4176650.44	0.52826	631550.63	4176650.44	0.48813
631900.63	4176650.44	0.43920	632250.63	4176650.44	0.38613
632600.63	4176650.44	0.32362	632950.63	4176650.44	0.26465
633300.63	4176650.44	0.23143	629800.63	4177000.44	0.17067
630150.63	4177000.44	0.22962	630500.63	4177000.44	0.29019
630850.63	4177000.44	0.33359	631200.63	4177000.44	0.35325
631550.63	4177000.44	0.33959	631900.63	4177000.44	0.28492
632250.63	4177000.44	0.28175	632600.63	4177000.44	0.23671
632950.63	4177000.44	0.20234	633300.63	4177000.44	0.17125
629800.63	4177350.44	0.15121	630150.63	4177350.44	0.18411
630500.63	4177350.44	0.20717	630850.63	4177350.44	0.24597
631200.63	4177350.44	0.24392	631550.63	4177350.44	0.24077
631900.63	4177350.44	0.21285	632250.63	4177350.44	0.19902
632600.63	4177350.44	0.18523	632950.63	4177350.44	0.15828
633300.63	4177350.44	0.13980	631670.70	4175493.59	9.05032
631669.80	4175641.41	12.80724	631665.32	4175796.39	3.04411
631417.17	4175826.85	2.74163	631417.17	4175673.66	13.65598
631422.55	4175484.63	8.98983	631268.42	4175983.74	1.98023
631275.69	4175523.99	11.52631	631345.65	4175419.50	5.94798
631384.72	4175441.30	4.37980	631491.93	4175442.21	12.41742
631491.93	4175414.95	11.13454	631385.63	4175413.14	5.82390
631358.37	4175395.87	5.97353	631409.25	4175336.81	3.90815
631567.35	4175235.96	2.82485	631756.33	4175028.80	1.28400
631807.22	4175003.36	1.16450	631867.18	4174987.91	1.07375
631849.92	4175988.28	1.14680	631268.74	4175963.75	2.23882
631269.05	4175943.76	2.32514	631269.37	4175923.77	2.46036
631269.68	4175903.78	1.92002	631270.00	4175883.79	2.07969
631270.32	4175863.81	2.25961	631270.63	4175843.82	2.48243

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	2.88692	631271.26	4175803.84	3.27298
631271.58	4175783.85	3.87144	631271.90	4175763.86	4.70833
631272.21	4175743.87	5.75596	631272.53	4175723.88	6.98287
631272.85	4175703.89	8.74489	631273.16	4175683.90	11.00486
631273.48	4175663.91	13.06903	631273.79	4175643.92	15.79355
631274.11	4175623.94	21.17556	631274.43	4175603.95	27.48484
631274.74	4175583.96	26.31798	631275.06	4175563.97	19.50864
631275.37	4175543.98	14.59667	631285.68	4175509.06	11.13166
631295.68	4175494.14	10.62707	631305.67	4175479.21	9.49751
631315.67	4175464.28	7.68251	631325.66	4175449.35	6.39334
631335.66	4175434.43	5.99064	631358.67	4175426.77	5.70821
631371.70	4175434.03	4.92313	631402.59	4175441.45	5.02321
631420.46	4175441.60	5.68679	631438.33	4175441.76	6.25707
631456.19	4175441.91	12.06789	631474.06	4175442.06	12.65545
631491.93	4175428.58	11.91555	631474.21	4175414.65	11.25481
631456.50	4175414.35	11.14524	631438.78	4175414.05	10.58198
631421.06	4175413.74	8.92493	631403.35	4175413.44	7.10007
631372.00	4175404.51	6.27665	631371.09	4175381.11	5.39028
631383.81	4175366.34	4.91615	631396.53	4175351.58	4.43857
631425.06	4175326.73	3.75602	631440.87	4175316.64	3.69433
631456.68	4175306.56	3.61215	631472.49	4175296.47	3.51315
631488.30	4175286.39	3.41591	631504.11	4175276.30	3.31162
631519.92	4175266.22	3.18813	631535.73	4175256.13	3.07394
631551.54	4175246.05	2.94799	631579.95	4175222.15	2.66456
631592.55	4175208.34	2.51199	631605.15	4175194.53	2.37605
631617.74	4175180.72	2.23958	631630.34	4175166.91	2.12450
631642.94	4175153.10	2.01022	631655.54	4175139.29	1.90944
631668.14	4175125.47	1.81086	631680.74	4175111.66	1.71752
631693.34	4175097.85	1.63258	631705.94	4175084.04	1.55481
631718.53	4175070.23	1.48077	631731.13	4175056.42	1.41136
631743.73	4175042.61	1.34673	631773.29	4175020.32	1.24341
631790.26	4175011.84	1.20673	631822.21	4174999.50	1.13996
631837.20	4174995.64	1.11844	631852.19	4174991.77	1.09489
631866.84	4175007.53	1.12312	631866.50	4175027.14	1.18110
631866.16	4175046.76	1.25290	631865.83	4175066.37	1.31466
631865.49	4175085.99	1.37317	631865.15	4175105.60	1.43467
631864.81	4175125.22	1.50091	631864.47	4175144.83	1.56653
631864.13	4175164.45	1.63847	631863.80	4175184.06	1.71666
631863.46	4175203.68	1.80340	631863.12	4175223.29	1.89800
631862.78	4175242.91	1.99901	631862.44	4175262.52	2.11843

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.25973	631861.77	4175301.75	2.42268
631861.43	4175321.37	2.60912	631861.09	4175340.98	2.83537
631860.75	4175360.60	3.10591	631860.41	4175380.21	3.43059
631860.07	4175399.83	3.79959	631859.73	4175419.44	4.22395
631859.40	4175439.06	4.70664	631859.06	4175458.67	5.25020
631858.72	4175478.29	5.84586	631858.38	4175497.90	6.47784
631858.04	4175517.52	7.12087	631857.70	4175537.13	7.72791
631857.37	4175556.75	8.22592	631857.03	4175576.36	8.53875
631856.69	4175595.98	8.60313	631856.35	4175615.59	8.39168
631856.01	4175635.21	7.92319	631855.67	4175654.82	7.26428
631855.33	4175674.44	6.50036	631855.00	4175694.05	5.71395
631854.66	4175713.67	4.96653	631854.32	4175733.28	4.29288
631853.98	4175752.90	3.70707	631853.64	4175772.51	3.21198
631853.30	4175792.13	2.80046	631852.97	4175811.74	2.46376
631852.63	4175831.36	2.18801	631852.29	4175850.97	1.96198
631851.95	4175870.59	1.77421	631851.61	4175890.20	1.61790
631851.27	4175909.82	1.48698	631850.94	4175929.43	1.37700
631850.60	4175949.05	1.28538	631850.26	4175968.66	1.21025
631830.54	4175988.13	1.15965	631811.15	4175987.98	1.17570
631791.77	4175987.83	1.19699	631772.39	4175987.67	1.22129
631753.00	4175987.52	1.24810	631733.62	4175987.37	1.27570
631714.24	4175987.22	1.30503	631694.85	4175987.07	1.33539
631675.47	4175986.92	1.36648	631656.09	4175986.77	1.39923
631636.70	4175986.62	1.43076	631617.32	4175986.46	1.46176
631597.94	4175986.31	1.49324	631578.55	4175986.16	1.52518
631559.17	4175986.01	1.55595	631539.79	4175985.86	1.58630
631520.40	4175985.71	1.61756	631501.02	4175985.56	1.68555
631481.64	4175985.40	2.01907	631462.25	4175985.25	2.16932
631442.87	4175985.10	2.16633	631423.49	4175984.95	2.18794
631404.10	4175984.80	2.32769	631384.72	4175984.65	2.36980
631365.34	4175984.50	2.26958	631345.95	4175984.35	2.23518
631326.57	4175984.19	2.14767	631307.19	4175984.04	2.09067
631287.80	4175983.89	2.05433	631050.63	4175100.50	0.47996
631050.63	4175200.50	0.64729	631050.63	4175300.50	0.90319
631050.63	4175400.50	1.31737	631050.63	4175500.50	1.85165
631050.63	4175600.50	2.63241	631050.63	4175700.50	2.89221
631050.63	4175800.50	2.66134	631050.63	4175900.50	2.18752
631050.63	4176000.50	1.66179	631050.63	4176100.50	1.25988
631150.63	4175100.50	0.55750	631150.63	4175200.50	0.81046
631150.63	4175300.50	1.32909	631150.63	4175400.50	2.15765

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	3.97221	631150.63	4175600.50	6.26655
631150.63	4175700.50	5.66607	631150.63	4175800.50	4.18323
631150.63	4175900.50	2.74942	631150.63	4176000.50	1.74118
631150.63	4176100.50	1.29113	631250.63	4175100.50	0.64562
631250.63	4175200.50	0.97932	631250.63	4175300.50	1.69085
631250.63	4175400.50	3.20681	631250.63	4175500.50	7.62498
631250.63	4175600.50	20.27361	631250.63	4175700.50	7.56679
631250.63	4175800.50	3.35848	631250.63	4175900.50	1.90889
631250.63	4176000.50	1.80336	631250.63	4176100.50	1.32089
631350.63	4175100.50	0.83240	631350.63	4175200.50	1.33084
631350.63	4175300.50	2.28649	631350.63	4175400.50	5.77032
631350.63	4175500.50	7.52979	631350.63	4175600.50	34.55624
631350.63	4175700.50	7.49348	631350.63	4175800.50	2.70021
631350.63	4175900.50	1.41968	631350.63	4176000.50	2.05810
631350.63	4176100.50	1.29033	631450.63	4175100.50	1.14146
631450.63	4175200.50	1.89410	631450.63	4175300.50	3.40832
631450.63	4175400.50	10.05871	631450.63	4175500.50	12.26489
631450.63	4175600.50	45.76124	631450.63	4175700.50	8.20908
631450.63	4175800.50	3.23958	631450.63	4175900.50	1.88492
631450.63	4176000.50	1.83872	631450.63	4176100.50	1.18182
631550.63	4175100.50	1.46983	631550.63	4175200.50	2.35300
631550.63	4175300.50	3.83126	631550.63	4175400.50	6.10680
631550.63	4175500.50	14.31592	631550.63	4175600.50	28.52917
631550.63	4175700.50	9.15175	631550.63	4175800.50	3.21291
631550.63	4175900.50	2.26760	631550.63	4176000.50	1.48625
631550.63	4176100.50	1.08293	631650.63	4175100.50	1.63323
631650.63	4175200.50	2.38165	631650.63	4175300.50	3.34536
631650.63	4175400.50	4.94402	631650.63	4175500.50	9.93657
631650.63	4175600.50	16.25790	631650.63	4175700.50	7.78189
631650.63	4175800.50	3.15815	631650.63	4175900.50	1.85688
631650.63	4176000.50	1.35449	631650.63	4176100.50	1.04341
631750.63	4175100.50	1.60604	631750.63	4175200.50	2.11499
631750.63	4175300.50	2.77691	631750.63	4175400.50	4.29501
631750.63	4175500.50	8.15777	631750.63	4175600.50	11.65188
631750.63	4175700.50	6.45128	631750.63	4175800.50	2.74336
631750.63	4175900.50	1.61671	631750.63	4176000.50	1.21347
631750.63	4176100.50	0.97795	631850.63	4175100.50	1.44423
631850.63	4175200.50	1.81971	631850.63	4175300.50	2.43684
631850.63	4175400.50	3.85343	631850.63	4175500.50	6.66986
631850.63	4175600.50	8.72501	631850.63	4175700.50	5.50129

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.65021	631850.63	4175900.50	1.54645
631850.63	4176000.50	1.11193	631850.63	4176100.50	0.91989
631950.63	4175100.50	1.27391	631950.63	4175200.50	1.61197
631950.63	4175300.50	2.21386	631950.63	4175400.50	3.41862
631950.63	4175500.50	5.36613	631950.63	4175600.50	6.59823
631950.63	4175700.50	4.62016	631950.63	4175800.50	2.55147
631950.63	4175900.50	1.55602	631950.63	4176000.50	1.08824
631950.63	4176100.50	0.86925	632050.63	4175100.50	1.14822
632050.63	4175200.50	1.46766	632050.63	4175300.50	2.01640
632050.63	4175400.50	2.95629	632050.63	4175500.50	4.25452
632050.63	4175600.50	4.99640	632050.63	4175700.50	3.79674
632050.63	4175800.50	2.37047	632050.63	4175900.50	1.53818
632050.63	4176000.50	1.10044	632050.63	4176100.50	0.84207

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.65808	632304.44	4174354.52	0.17877
632192.15	4174956.32	0.73050	632420.62	4175510.15	3.40534
632418.97	4175552.92	4.01149	631187.00	4175727.00	0.59642
631166.00	4175729.00	0.56349	631121.00	4175719.00	0.50191
631035.00	4174830.00	0.12978	631106.00	4174825.00	0.13813
631937.00	4174528.00	0.17941	631322.00	4174522.00	0.10636
629800.63	4173850.44	0.01747	630150.63	4173850.44	0.02046
630500.63	4173850.44	0.02677	630850.63	4173850.44	0.04161
631200.63	4173850.44	0.04355	631550.63	4173850.44	0.04721
631900.63	4173850.44	0.05370	632250.63	4173850.44	0.08028
632600.63	4173850.44	0.09422	632950.63	4173850.44	0.11367
633300.63	4173850.44	0.12429	629800.63	4174200.44	0.02404
630150.63	4174200.44	0.03179	630500.63	4174200.44	0.04327
630850.63	4174200.44	0.05446	631200.63	4174200.44	0.06663
631550.63	4174200.44	0.07583	631900.63	4174200.44	0.09738
632250.63	4174200.44	0.13341	632600.63	4174200.44	0.15995

632950.63	4174200.44	0.18219	633300.63	4174200.44	0.17102
629800.63	4174550.44	0.04022	630150.63	4174550.44	0.04918
630500.63	4174550.44	0.06468	630850.63	4174550.44	0.07949
631200.63	4174550.44	0.10988	631550.63	4174550.44	0.12645
631900.63	4174550.44	0.17740	632250.63	4174550.44	0.25746
632600.63	4174550.44	0.31409	632950.63	4174550.44	0.28729
633300.63	4174550.44	0.25690	629800.63	4174900.44	0.04882
630150.63	4174900.44	0.06227	630500.63	4174900.44	0.09224
630850.63	4174900.44	0.12227	631200.63	4174900.44	0.16969
631550.63	4174900.44	0.25159	631900.63	4174900.44	0.38316
632250.63	4174900.44	0.64718	632600.63	4174900.44	0.60756
632950.63	4174900.44	0.49239	633300.63	4174900.44	0.41797
629800.63	4175250.44	0.05362	630150.63	4175250.44	0.07946
630500.63	4175250.44	0.12470	630850.63	4175250.44	0.18678
631200.63	4175250.44	0.30894	631550.63	4175250.44	0.64060
631900.63	4175250.44	1.48496	632250.63	4175250.44	1.76893
632600.63	4175250.44	1.26068	632950.63	4175250.44	0.94825
633300.63	4175250.44	0.68850	629800.63	4175600.44	0.06773
630150.63	4175600.44	0.09626	630500.63	4175600.44	0.14965
630850.63	4175600.44	0.25591	631200.63	4175600.44	0.54612
631550.63	4175600.44	2.79272	631900.63	4175600.44	7.36151
632250.63	4175600.44	6.68579	632600.63	4175600.44	2.99260
632950.63	4175600.44	1.46192	633300.63	4175600.44	0.90175
629800.63	4175950.44	0.07277	630150.63	4175950.44	0.10174

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.16404	630850.63	4175950.44	0.29846
631200.63	4175950.44	0.73147	631550.63	4175950.44	1.36109
631900.63	4175950.44	2.47690	632250.63	4175950.44	1.76529
632600.63	4175950.44	1.69353	632950.63	4175950.44	1.16618
633300.63	4175950.44	0.78394	629800.63	4176300.44	0.08247
630150.63	4176300.44	0.12450	630500.63	4176300.44	0.20610
630850.63	4176300.44	0.38367	631200.63	4176300.44	0.70715
631550.63	4176300.44	0.87742	631900.63	4176300.44	0.80421
632250.63	4176300.44	0.74353	632600.63	4176300.44	0.64812
632950.63	4176300.44	0.59740	633300.63	4176300.44	0.50340
629800.63	4176650.44	0.09816	630150.63	4176650.44	0.15451
630500.63	4176650.44	0.23446	630850.63	4176650.44	0.36565
631200.63	4176650.44	0.47782	631550.63	4176650.44	0.52016
631900.63	4176650.44	0.50145	632250.63	4176650.44	0.45087
632600.63	4176650.44	0.42609	632950.63	4176650.44	0.36358
633300.63	4176650.44	0.31053	629800.63	4177000.44	0.11254

630150.63	4177000.44	0.15736	630500.63	4177000.44	0.22131
630850.63	4177000.44	0.29200	631200.63	4177000.44	0.32432
631550.63	4177000.44	0.36836	631900.63	4177000.44	0.34498
632250.63	4177000.44	0.31052	632600.63	4177000.44	0.30250
632950.63	4177000.44	0.26553	633300.63	4177000.44	0.23140
629800.63	4177350.44	0.11017	630150.63	4177350.44	0.14683
630500.63	4177350.44	0.18349	630850.63	4177350.44	0.21951
631200.63	4177350.44	0.23968	631550.63	4177350.44	0.26564
631900.63	4177350.44	0.25028	632250.63	4177350.44	0.23541
632600.63	4177350.44	0.21242	632950.63	4177350.44	0.20615
633300.63	4177350.44	0.17867	631670.70	4175493.59	1.72141
631669.80	4175641.41	8.45479	631665.32	4175796.39	4.84774
631417.17	4175826.85	1.71820	631417.17	4175673.66	1.50091
631422.55	4175484.63	0.83574	631268.42	4175983.74	0.90555
631275.69	4175523.99	0.60055	631345.65	4175419.50	0.61752
631384.72	4175441.30	0.64334	631491.93	4175442.21	0.89101
631491.93	4175414.95	0.78411	631385.63	4175413.14	0.60915
631358.37	4175395.87	0.59981	631409.25	4175336.81	0.55745
631567.35	4175235.96	0.66660	631756.33	4175028.80	0.40764
631807.22	4175003.36	0.41444	631867.18	4174987.91	0.45140
631849.92	4175988.28	2.11739	631268.74	4175963.75	0.90455
631269.05	4175943.76	0.89910	631269.37	4175923.77	0.89203
631269.68	4175903.78	0.88317	631270.00	4175883.79	0.87437
631270.32	4175863.81	0.86627	631270.63	4175843.82	0.86130

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	0.85531	631271.26	4175803.84	0.84695
631271.58	4175783.85	0.83851	631271.90	4175763.86	0.79300
631272.21	4175743.87	0.78285	631272.53	4175723.88	0.78032
631272.85	4175703.89	0.77854	631273.16	4175683.90	0.76678
631273.48	4175663.91	0.74750	631273.79	4175643.92	0.72592
631274.11	4175623.94	0.70488	631274.43	4175603.95	0.67817
631274.74	4175583.96	0.65387	631275.06	4175563.97	0.63005
631275.37	4175543.98	0.61463	631285.68	4175509.06	0.60864
631295.68	4175494.14	0.61157	631305.67	4175479.21	0.61808
631315.67	4175464.28	0.62635	631325.66	4175449.35	0.62535
631335.66	4175434.43	0.62970	631358.67	4175426.77	0.58891
631371.70	4175434.03	0.61998	631402.59	4175441.45	0.69845
631420.46	4175441.60	0.70011	631438.33	4175441.76	0.75012
631456.19	4175441.91	0.79851	631474.06	4175442.06	0.83713
631491.93	4175428.58	0.83872	631474.21	4175414.65	0.74980
631456.50	4175414.35	0.70019	631438.78	4175414.05	0.68265

631421.06	4175413.74	0.65959	631403.35	4175413.44	0.61316
631372.00	4175404.51	0.55759	631371.09	4175381.11	0.58621
631383.81	4175366.34	0.57895	631396.53	4175351.58	0.56317
631425.06	4175326.73	0.56475	631440.87	4175316.64	0.58242
631456.68	4175306.56	0.58994	631472.49	4175296.47	0.60741
631488.30	4175286.39	0.61635	631504.11	4175276.30	0.61380
631519.92	4175266.22	0.61451	631535.73	4175256.13	0.62582
631551.54	4175246.05	0.64015	631579.95	4175222.15	0.69612
631592.55	4175208.34	0.72001	631605.15	4175194.53	0.68382
631617.74	4175180.72	0.61057	631630.34	4175166.91	0.57912
631642.94	4175153.10	0.54800	631655.54	4175139.29	0.52576
631668.14	4175125.47	0.50106	631680.74	4175111.66	0.48296
631693.34	4175097.85	0.46486	631705.94	4175084.04	0.45086
631718.53	4175070.23	0.43733	631731.13	4175056.42	0.42660
631743.73	4175042.61	0.41658	631773.29	4175020.32	0.40835
631790.26	4175011.84	0.41167	631822.21	4174999.50	0.42123
631837.20	4174995.64	0.43035	631852.19	4174991.77	0.44033
631866.84	4175007.53	0.47590	631866.50	4175027.14	0.50482
631866.16	4175046.76	0.53965	631865.83	4175066.37	0.57568
631865.49	4175085.99	0.61445	631865.15	4175105.60	0.65611
631864.81	4175125.22	0.70245	631864.47	4175144.83	0.75858
631864.13	4175164.45	0.81454	631863.80	4175184.06	0.87974
631863.46	4175203.68	0.95271	631863.12	4175223.29	1.12467
631862.78	4175242.91	1.29887	631862.44	4175262.52	1.27878

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	1.36912	631861.77	4175301.75	0.99612
631861.43	4175321.37	1.00755	631861.09	4175340.98	1.07409
631860.75	4175360.60	1.14810	631860.41	4175380.21	1.29013
631860.07	4175399.83	1.38981	631859.73	4175419.44	1.51442
631859.40	4175439.06	1.71601	631859.06	4175458.67	1.89467
631858.72	4175478.29	2.19971	631858.38	4175497.90	2.55955
631858.04	4175517.52	2.93494	631857.70	4175537.13	3.58429
631857.37	4175556.75	4.41389	631857.03	4175576.36	5.38592
631856.69	4175595.98	6.78490	631856.35	4175615.59	9.01804
631856.01	4175635.21	12.84843	631855.67	4175654.82	18.94182
631855.33	4175674.44	32.40446	631855.00	4175694.05	63.82604
631854.66	4175713.67	62.97234	631854.32	4175733.28	31.28295
631853.98	4175752.90	15.16638	631853.64	4175772.51	10.13214
631853.30	4175792.13	7.32608	631852.97	4175811.74	5.74266
631852.63	4175831.36	4.79111	631852.29	4175850.97	4.06816
631851.95	4175870.59	3.49552	631851.61	4175890.20	3.09591

631851.27	4175909.82	2.71239	631850.94	4175929.43	3.09161
631850.60	4175949.05	2.96221	631850.26	4175968.66	2.49687
631830.54	4175988.13	2.20963	631811.15	4175987.98	2.33470
631791.77	4175987.83	2.49072	631772.39	4175987.67	2.54571
631753.00	4175987.52	2.34708	631733.62	4175987.37	2.15587
631714.24	4175987.22	2.00823	631694.85	4175987.07	1.84373
631675.47	4175986.92	2.09522	631656.09	4175986.77	1.90160
631636.70	4175986.62	1.73570	631617.32	4175986.46	2.08009
631597.94	4175986.31	1.88740	631578.55	4175986.16	2.34691
631559.17	4175986.01	2.66432	631539.79	4175985.86	2.75035
631520.40	4175985.71	2.71120	631501.02	4175985.56	2.60855
631481.64	4175985.40	2.16769	631462.25	4175985.25	1.74927
631442.87	4175985.10	1.62343	631423.49	4175984.95	1.51657
631404.10	4175984.80	1.41715	631384.72	4175984.65	1.32560
631365.34	4175984.50	1.24038	631345.95	4175984.35	1.16196
631326.57	4175984.19	1.08931	631307.19	4175984.04	1.02288
631287.80	4175983.89	0.96180	631050.63	4175100.50	0.19679
631050.63	4175200.50	0.22915	631050.63	4175300.50	0.26281
631050.63	4175400.50	0.29923	631050.63	4175500.50	0.33086
631050.63	4175600.50	0.38081	631050.63	4175700.50	0.40646
631050.63	4175800.50	0.41941	631050.63	4175900.50	0.45095
631050.63	4176000.50	0.50421	631050.63	4176100.50	0.53069
631150.63	4175100.50	0.21998	631150.63	4175200.50	0.26205
631150.63	4175300.50	0.31196	631150.63	4175400.50	0.36416

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.41485	631150.63	4175600.50	0.47699
631150.63	4175700.50	0.53583	631150.63	4175800.50	0.58217
631150.63	4175900.50	0.61433	631150.63	4176000.50	0.65131
631150.63	4176100.50	0.67530	631250.63	4175100.50	0.25010
631250.63	4175200.50	0.30256	631250.63	4175300.50	0.37262
631250.63	4175400.50	0.45486	631250.63	4175500.50	0.53663
631250.63	4175600.50	0.62584	631250.63	4175700.50	0.72011
631250.63	4175800.50	0.79442	631250.63	4175900.50	0.82693
631250.63	4176000.50	0.85962	631250.63	4176100.50	0.85919
631350.63	4175100.50	0.29055	631350.63	4175200.50	0.35875
631350.63	4175300.50	0.46050	631350.63	4175400.50	0.59338
631350.63	4175500.50	0.72739	631350.63	4175600.50	0.91816
631350.63	4175700.50	1.03830	631350.63	4175800.50	1.09960
631350.63	4175900.50	1.18895	631350.63	4176000.50	1.17272
631350.63	4176100.50	1.10696	631450.63	4175100.50	0.34295
631450.63	4175200.50	0.43527	631450.63	4175300.50	0.58488

631450.63	4175400.50	0.65803	631450.63	4175500.50	0.98327
631450.63	4175600.50	1.50591	631450.63	4175700.50	1.83479
631450.63	4175800.50	2.01558	631450.63	4175900.50	2.28175
631450.63	4176000.50	1.62878	631450.63	4176100.50	1.36714
631550.63	4175100.50	0.40354	631550.63	4175200.50	0.57503
631550.63	4175300.50	0.40435	631550.63	4175400.50	0.79474
631550.63	4175500.50	1.40929	631550.63	4175600.50	2.79377
631550.63	4175700.50	5.32598	631550.63	4175800.50	3.17233
631550.63	4175900.50	1.52669	631550.63	4176000.50	2.72192
631550.63	4176100.50	1.52926	631650.63	4175100.50	0.44972
631650.63	4175200.50	0.74308	631650.63	4175300.50	0.51855
631650.63	4175400.50	0.91639	631650.63	4175500.50	1.80393
631650.63	4175600.50	4.29630	631650.63	4175700.50	20.64246
631650.63	4175800.50	4.48991	631650.63	4175900.50	1.69012
631650.63	4176000.50	1.87533	631650.63	4176100.50	1.59047
631750.63	4175100.50	0.50159	631750.63	4175200.50	0.82097
631750.63	4175300.50	0.48497	631750.63	4175400.50	0.80238
631750.63	4175500.50	1.59768	631750.63	4175600.50	4.91621
631750.63	4175700.50	50.80074	631750.63	4175800.50	4.52860
631750.63	4175900.50	1.25211	631750.63	4176000.50	2.20487
631750.63	4176100.50	1.53518	631850.63	4175100.50	0.62112
631850.63	4175200.50	0.90673	631850.63	4175300.50	0.91642
631850.63	4175400.50	1.28290	631850.63	4175500.50	2.47421
631850.63	4175600.50	7.15933	631850.63	4175700.50	68.51847

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	6.57200	631850.63	4175900.50	2.88143
631850.63	4176000.50	1.99354	631850.63	4176100.50	1.36246
631950.63	4175100.50	0.79861	631950.63	4175200.50	1.19944
631950.63	4175300.50	2.46240	631950.63	4175400.50	2.18211
631950.63	4175500.50	3.43660	631950.63	4175600.50	9.01288
631950.63	4175700.50	31.45281	631950.63	4175800.50	6.63946
631950.63	4175900.50	2.96266	631950.63	4176000.50	1.75220
631950.63	4176100.50	1.21733	632050.63	4175100.50	0.99345
632050.63	4175200.50	1.49847	632050.63	4175300.50	2.33252
632050.63	4175400.50	4.10881	632050.63	4175500.50	5.35353
632050.63	4175600.50	9.70338	632050.63	4175700.50	19.36157
632050.63	4175800.50	6.00525	632050.63	4175900.50	2.37750
632050.63	4176000.50	1.58927	632050.63	4176100.50	1.15876

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.91396	632304.44	4174354.52	0.21131
632192.15	4174956.32	0.99937	632420.62	4175510.15	4.78606
632418.97	4175552.92	5.11015	631187.00	4175727.00	0.63440
631166.00	4175729.00	0.59829	631121.00	4175719.00	0.52754
631035.00	4174830.00	0.14329	631106.00	4174825.00	0.15250
631937.00	4174528.00	0.21216	631322.00	4174522.00	0.11615
629800.63	4173850.44	0.01829	630150.63	4173850.44	0.02093
630500.63	4173850.44	0.02784	630850.63	4173850.44	0.04314
631200.63	4173850.44	0.04611	631550.63	4173850.44	0.05121
631900.63	4173850.44	0.05870	632250.63	4173850.44	0.08853
632600.63	4173850.44	0.10590	632950.63	4173850.44	0.12892
633300.63	4173850.44	0.13623	629800.63	4174200.44	0.02560
630150.63	4174200.44	0.03352	630500.63	4174200.44	0.04536
630850.63	4174200.44	0.05653	631200.63	4174200.44	0.07118
631550.63	4174200.44	0.08369	631900.63	4174200.44	0.10965
632250.63	4174200.44	0.15279	632600.63	4174200.44	0.18808
632950.63	4174200.44	0.20672	633300.63	4174200.44	0.18794
629800.63	4174550.44	0.04156	630150.63	4174550.44	0.05332
630500.63	4174550.44	0.06877	630850.63	4174550.44	0.08506
631200.63	4174550.44	0.11748	631550.63	4174550.44	0.14350
631900.63	4174550.44	0.21010	632250.63	4174550.44	0.31670
632600.63	4174550.44	0.37734	632950.63	4174550.44	0.32668
633300.63	4174550.44	0.29221	629800.63	4174900.44	0.05083
630150.63	4174900.44	0.06669	630500.63	4174900.44	0.09758
630850.63	4174900.44	0.13479	631200.63	4174900.44	0.19025
631550.63	4174900.44	0.30130	631900.63	4174900.44	0.50031
632250.63	4174900.44	0.86255	632600.63	4174900.44	0.72616
632950.63	4174900.44	0.59017	633300.63	4174900.44	0.48660
629800.63	4175250.44	0.05651	630150.63	4175250.44	0.08188
630500.63	4175250.44	0.12644	630850.63	4175250.44	0.20350
631200.63	4175250.44	0.36140	631550.63	4175250.44	0.90408
631900.63	4175250.44	2.66686	632250.63	4175250.44	2.33659
632600.63	4175250.44	1.66971	632950.63	4175250.44	1.13924
633300.63	4175250.44	0.77474	629800.63	4175600.44	0.06652
630150.63	4175600.44	0.09386	630500.63	4175600.44	0.14706
630850.63	4175600.44	0.26405	631200.63	4175600.44	0.61194
631550.63	4175600.44	6.39131	631900.63	4175600.44	54.57697
632250.63	4175600.44	8.84060	632600.63	4175600.44	3.04038
632950.63	4175600.44	1.44861	633300.63	4175600.44	0.90095
629800.63	4175950.44	0.07579	630150.63	4175950.44	0.10548

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.17382	630850.63	4175950.44	0.33337
631200.63	4175950.44	0.79556	631550.63	4175950.44	1.69486
631900.63	4175950.44	1.60047	632250.63	4175950.44	1.16561
632600.63	4175950.44	1.20246	632950.63	4175950.44	0.96325
633300.63	4175950.44	0.70184	629800.63	4176300.44	0.08800
630150.63	4176300.44	0.13377	630500.63	4176300.44	0.22392
630850.63	4176300.44	0.40210	631200.63	4176300.44	0.67977
631550.63	4176300.44	0.74268	631900.63	4176300.44	0.66935
632250.63	4176300.44	0.60568	632600.63	4176300.44	0.55477
632950.63	4176300.44	0.49665	633300.63	4176300.44	0.43765
629800.63	4176650.44	0.10376	630150.63	4176650.44	0.16079
630500.63	4176650.44	0.24046	630850.63	4176650.44	0.36198
631200.63	4176650.44	0.43465	631550.63	4176650.44	0.47002
631900.63	4176650.44	0.44426	632250.63	4176650.44	0.38734
632600.63	4176650.44	0.37725	632950.63	4176650.44	0.33123
633300.63	4176650.44	0.27991	629800.63	4177000.44	0.11380
630150.63	4177000.44	0.15783	630500.63	4177000.44	0.21856
630850.63	4177000.44	0.27760	631200.63	4177000.44	0.29837
631550.63	4177000.44	0.33825	631900.63	4177000.44	0.31429
632250.63	4177000.44	0.28325	632600.63	4177000.44	0.26936
632950.63	4177000.44	0.24442	633300.63	4177000.44	0.21566
629800.63	4177350.44	0.11055	630150.63	4177350.44	0.14428
630500.63	4177350.44	0.17714	630850.63	4177350.44	0.20681
631200.63	4177350.44	0.22489	631550.63	4177350.44	0.24587
631900.63	4177350.44	0.23154	632250.63	4177350.44	0.21848
632600.63	4177350.44	0.19271	632950.63	4177350.44	0.19028
633300.63	4177350.44	0.16753	631670.70	4175493.59	3.69037
631669.80	4175641.41	18.28407	631665.32	4175796.39	3.52813
631417.17	4175826.85	2.07695	631417.17	4175673.66	1.89329
631422.55	4175484.63	1.14542	631268.42	4175983.74	0.95251
631275.69	4175523.99	0.69929	631345.65	4175419.50	0.73461
631384.72	4175441.30	0.80169	631491.93	4175442.21	1.34940
631491.93	4175414.95	1.12022	631385.63	4175413.14	0.77557
631358.37	4175395.87	0.73028	631409.25	4175336.81	0.69657
631567.35	4175235.96	0.92123	631756.33	4175028.80	0.54059
631807.22	4175003.36	0.55086	631867.18	4174987.91	0.60803
631849.92	4175988.28	1.44787	631268.74	4175963.75	0.95994
631269.05	4175943.76	0.96362	631269.37	4175923.77	0.96553
631269.68	4175903.78	0.96547	631270.00	4175883.79	0.96389
631270.32	4175863.81	0.96136	631270.63	4175843.82	0.95854

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	0.95285	631271.26	4175803.84	0.94007
631271.58	4175783.85	0.92305	631271.90	4175763.86	0.90696
631272.21	4175743.87	0.88933	631272.53	4175723.88	0.83934
631272.85	4175703.89	0.82474	631273.16	4175683.90	0.81242
631273.48	4175663.91	0.80065	631273.79	4175643.92	0.79168
631274.11	4175623.94	0.78564	631274.43	4175603.95	0.77477
631274.74	4175583.96	0.75978	631275.06	4175563.97	0.73938
631275.37	4175543.98	0.72004	631285.68	4175509.06	0.70460
631295.68	4175494.14	0.70643	631305.67	4175479.21	0.71381
631315.67	4175464.28	0.72200	631325.66	4175449.35	0.72631
631335.66	4175434.43	0.73468	631358.67	4175426.77	0.70893
631371.70	4175434.03	0.76512	631402.59	4175441.45	0.93060
631420.46	4175441.60	1.05776	631438.33	4175441.76	1.09855
631456.19	4175441.91	1.20477	631474.06	4175442.06	1.20020
631491.93	4175428.58	1.25685	631474.21	4175414.65	1.10941
631456.50	4175414.35	1.04637	631438.78	4175414.05	1.03576
631421.06	4175413.74	0.96626	631403.35	4175413.44	0.82041
631372.00	4175404.51	0.69782	631371.09	4175381.11	0.70804
631383.81	4175366.34	0.71545	631396.53	4175351.58	0.70079
631425.06	4175326.73	0.72150	631440.87	4175316.64	0.78669
631456.68	4175306.56	0.85486	631472.49	4175296.47	0.90292
631488.30	4175286.39	0.91279	631504.11	4175276.30	0.92209
631519.92	4175266.22	0.91185	631535.73	4175256.13	0.91570
631551.54	4175246.05	0.91477	631579.95	4175222.15	0.96709
631592.55	4175208.34	0.97469	631605.15	4175194.53	0.94121
631617.74	4175180.72	0.85297	631630.34	4175166.91	0.80554
631642.94	4175153.10	0.75235	631655.54	4175139.29	0.71632
631668.14	4175125.47	0.68105	631680.74	4175111.66	0.65234
631693.34	4175097.85	0.62610	631705.94	4175084.04	0.60506
631718.53	4175070.23	0.58723	631731.13	4175056.42	0.56976
631743.73	4175042.61	0.55579	631773.29	4175020.32	0.54411
631790.26	4175011.84	0.54757	631822.21	4174999.50	0.56295
631837.20	4174995.64	0.57682	631852.19	4174991.77	0.59120
631866.84	4175007.53	0.64737	631866.50	4175027.14	0.69409
631866.16	4175046.76	0.75050	631865.83	4175066.37	0.81057
631865.49	4175085.99	0.88533	631865.15	4175105.60	0.95744
631864.81	4175125.22	1.03792	631864.47	4175144.83	1.13069
631864.13	4175164.45	1.23594	631863.80	4175184.06	1.35749
631863.46	4175203.68	1.50185	631863.12	4175223.29	1.81169
631862.78	4175242.91	2.21054	631862.44	4175262.52	2.32698

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.45736	631861.77	4175301.75	1.97723
631861.43	4175321.37	2.24440	631861.09	4175340.98	2.55800
631860.75	4175360.60	2.92669	631860.41	4175380.21	3.38391
631860.07	4175399.83	3.93928	631859.73	4175419.44	4.70895
631859.40	4175439.06	5.55782	631859.06	4175458.67	6.71423
631858.72	4175478.29	8.20964	631858.38	4175497.90	10.24034
631858.04	4175517.52	13.16890	631857.70	4175537.13	18.53748
631857.37	4175556.75	28.09862	631857.03	4175576.36	44.86117
631856.69	4175595.98	62.20710	631856.35	4175615.59	52.42388
631856.01	4175635.21	29.36153	631855.67	4175654.82	15.47263
631855.33	4175674.44	9.33260	631855.00	4175694.05	6.65445
631854.66	4175713.67	5.11645	631854.32	4175733.28	4.07052
631853.98	4175752.90	3.32729	631853.64	4175772.51	2.77495
631853.30	4175792.13	2.36024	631852.97	4175811.74	2.04684
631852.63	4175831.36	1.80480	631852.29	4175850.97	1.61244
631851.95	4175870.59	1.47663	631851.61	4175890.20	1.37860
631851.27	4175909.82	1.36439	631850.94	4175929.43	1.76922
631850.60	4175949.05	1.80433	631850.26	4175968.66	1.64705
631830.54	4175988.13	1.50338	631811.15	4175987.98	1.60225
631791.77	4175987.83	1.72619	631772.39	4175987.67	1.76234
631753.00	4175987.52	1.73380	631733.62	4175987.37	1.67921
631714.24	4175987.22	1.61844	631694.85	4175987.07	1.57807
631675.47	4175986.92	1.85738	631656.09	4175986.77	1.79960
631636.70	4175986.62	1.69739	631617.32	4175986.46	1.93988
631597.94	4175986.31	2.07385	631578.55	4175986.16	2.26370
631559.17	4175986.01	2.38682	631539.79	4175985.86	2.50261
631520.40	4175985.71	2.57265	631501.02	4175985.56	2.53721
631481.64	4175985.40	1.98484	631462.25	4175985.25	1.62389
631442.87	4175985.10	1.54473	631423.49	4175984.95	1.47402
631404.10	4175984.80	1.39926	631384.72	4175984.65	1.32596
631365.34	4175984.50	1.25538	631345.95	4175984.35	1.18773
631326.57	4175984.19	1.12323	631307.19	4175984.04	1.06268
631287.80	4175983.89	1.00550	631050.63	4175100.50	0.22367
631050.63	4175200.50	0.25834	631050.63	4175300.50	0.29487
631050.63	4175400.50	0.32843	631050.63	4175500.50	0.37397
631050.63	4175600.50	0.41167	631050.63	4175700.50	0.42149
631050.63	4175800.50	0.45396	631050.63	4175900.50	0.52270
631050.63	4176000.50	0.55336	631050.63	4176100.50	0.56552
631150.63	4175100.50	0.25380	631150.63	4175200.50	0.30328
631150.63	4175300.50	0.35798	631150.63	4175400.50	0.41071

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.47300	631150.63	4175600.50	0.52938
631150.63	4175700.50	0.56203	631150.63	4175800.50	0.63334
631150.63	4175900.50	0.68288	631150.63	4176000.50	0.70120
631150.63	4176100.50	0.70645	631250.63	4175100.50	0.29197
631250.63	4175200.50	0.35933	631250.63	4175300.50	0.44190
631250.63	4175400.50	0.53071	631250.63	4175500.50	0.62417
631250.63	4175600.50	0.71051	631250.63	4175700.50	0.76229
631250.63	4175800.50	0.87738	631250.63	4175900.50	0.90944
631250.63	4176000.50	0.90275	631250.63	4176100.50	0.87148
631350.63	4175100.50	0.34438	631350.63	4175200.50	0.43660
631350.63	4175300.50	0.56865	631350.63	4175400.50	0.71499
631350.63	4175500.50	0.87315	631350.63	4175600.50	1.06051
631350.63	4175700.50	1.15731	631350.63	4175800.50	1.23678
631350.63	4175900.50	1.27551	631350.63	4176000.50	1.18605
631350.63	4176100.50	1.05047	631450.63	4175100.50	0.41674
631450.63	4175200.50	0.54587	631450.63	4175300.50	0.79721
631450.63	4175400.50	0.99957	631450.63	4175500.50	1.43649
631450.63	4175600.50	2.03226	631450.63	4175700.50	2.34273
631450.63	4175800.50	2.29559	631450.63	4175900.50	2.38746
631450.63	4176000.50	1.51333	631450.63	4176100.50	1.17576
631550.63	4175100.50	0.51012	631550.63	4175200.50	0.79435
631550.63	4175300.50	0.55300	631550.63	4175400.50	1.15403
631550.63	4175500.50	2.46507	631550.63	4175600.50	6.39323
631550.63	4175700.50	5.19848	631550.63	4175800.50	3.19475
631550.63	4175900.50	1.93708	631550.63	4176000.50	2.43765
631550.63	4176100.50	1.21533	631650.63	4175100.50	0.59685
631650.63	4175200.50	1.01284	631650.63	4175300.50	0.73837
631650.63	4175400.50	1.43091	631650.63	4175500.50	3.74249
631650.63	4175600.50	24.46552	631650.63	4175700.50	7.68233
631650.63	4175800.50	3.51340	631650.63	4175900.50	1.67180
631650.63	4176000.50	1.90916	631650.63	4176100.50	1.22744
631750.63	4175100.50	0.69028	631750.63	4175200.50	1.25273
631750.63	4175300.50	0.77057	631750.63	4175400.50	1.62189
631750.63	4175500.50	5.50656	631750.63	4175600.50	54.45909
631750.63	4175700.50	7.36892	631750.63	4175800.50	2.24746
631750.63	4175900.50	0.89601	631750.63	4176000.50	1.62094
631750.63	4176100.50	1.16923	631850.63	4175100.50	0.89786
631850.63	4175200.50	1.41519	631850.63	4175300.50	1.88271
631850.63	4175400.50	3.78451	631850.63	4175500.50	10.01128
631850.63	4175600.50	66.01396	631850.63	4175700.50	6.22032

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.25534	631850.63	4175900.50	1.37666
631850.63	4176000.50	1.38385	631850.63	4176100.50	1.03018
631950.63	4175100.50	1.19494	631950.63	4175200.50	1.95052
631950.63	4175300.50	4.63630	631950.63	4175400.50	6.45951
631950.63	4175500.50	13.68205	631950.63	4175600.50	34.16625
631950.63	4175700.50	6.41204	631950.63	4175800.50	2.75473
631950.63	4175900.50	1.88356	631950.63	4176000.50	1.21230
631950.63	4176100.50	0.92013	632050.63	4175100.50	1.48950
632050.63	4175200.50	2.32006	632050.63	4175300.50	3.60411
632050.63	4175400.50	6.14680	632050.63	4175500.50	10.46919
632050.63	4175600.50	19.72902	632050.63	4175700.50	5.89222
632050.63	4175800.50	2.48693	632050.63	4175900.50	1.58204
632050.63	4176000.50	1.14092	632050.63	4176100.50	0.86918

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** *** 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.30527	632304.44	4174354.52	0.25502
632192.15	4174956.32	1.38112	632420.62	4175510.15	4.99495
632418.97	4175552.92	4.55408	631187.00	4175727.00	0.73233
631166.00	4175729.00	0.68791	631121.00	4175719.00	0.59855
631035.00	4174830.00	0.15909	631106.00	4174825.00	0.17005
631937.00	4174528.00	0.25783	631322.00	4174522.00	0.12794
629800.63	4173850.44	0.01892	630150.63	4173850.44	0.02170
630500.63	4173850.44	0.02904	630850.63	4173850.44	0.04470
631200.63	4173850.44	0.04908	631550.63	4173850.44	0.05608
631900.63	4173850.44	0.06478	632250.63	4173850.44	0.09904
632600.63	4173850.44	0.12063	632950.63	4173850.44	0.14710
633300.63	4173850.44	0.14898	629800.63	4174200.44	0.02738
630150.63	4174200.44	0.03494	630500.63	4174200.44	0.04816
630850.63	4174200.44	0.05953	631200.63	4174200.44	0.07647

631550.63	4174200.44	0.09382	631900.63	4174200.44	0.12554
632250.63	4174200.44	0.17840	632600.63	4174200.44	0.22447
632950.63	4174200.44	0.23331	633300.63	4174200.44	0.20724
629800.63	4174550.44	0.04345	630150.63	4174550.44	0.05588
630500.63	4174550.44	0.07363	630850.63	4174550.44	0.09180
631200.63	4174550.44	0.12710	631550.63	4174550.44	0.16650
631900.63	4174550.44	0.25551	632250.63	4174550.44	0.39869
632600.63	4174550.44	0.45049	632950.63	4174550.44	0.37258
633300.63	4174550.44	0.33350	629800.63	4174900.44	0.05124
630150.63	4174900.44	0.06999	630500.63	4174900.44	0.10350
630850.63	4174900.44	0.14774	631200.63	4174900.44	0.21602
631550.63	4174900.44	0.37194	631900.63	4174900.44	0.68341
632250.63	4174900.44	1.15455	632600.63	4174900.44	0.86833
632950.63	4174900.44	0.71175	633300.63	4174900.44	0.56411
629800.63	4175250.44	0.05971	630150.63	4175250.44	0.08744
630500.63	4175250.44	0.13333	630850.63	4175250.44	0.21354
631200.63	4175250.44	0.41510	631550.63	4175250.44	1.28577
631900.63	4175250.44	5.20410	632250.63	4175250.44	3.24178
632600.63	4175250.44	2.23865	632950.63	4175250.44	1.33335
633300.63	4175250.44	0.85026	629800.63	4175600.44	0.06681
630150.63	4175600.44	0.09494	630500.63	4175600.44	0.15029
630850.63	4175600.44	0.27224	631200.63	4175600.44	0.64972
631550.63	4175600.44	6.26906	631900.63	4175600.44	4.10839
632250.63	4175600.44	4.99458	632600.63	4175600.44	2.62447
632950.63	4175600.44	1.37793	633300.63	4175600.44	0.87632
629800.63	4175950.44	0.07753	630150.63	4175950.44	0.11090

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.19056	630850.63	4175950.44	0.36575
631200.63	4175950.44	0.82336	631550.63	4175950.44	1.63863
631900.63	4175950.44	1.16868	632250.63	4175950.44	0.86761
632600.63	4175950.44	0.86698	632950.63	4175950.44	0.79292
633300.63	4175950.44	0.61062	629800.63	4176300.44	0.09297
630150.63	4176300.44	0.14255	630500.63	4176300.44	0.24328
630850.63	4176300.44	0.41041	631200.63	4176300.44	0.63323
631550.63	4176300.44	0.65529	631900.63	4176300.44	0.57861
632250.63	4176300.44	0.50614	632600.63	4176300.44	0.47172
632950.63	4176300.44	0.41684	633300.63	4176300.44	0.37685
629800.63	4176650.44	0.10841	630150.63	4176650.44	0.16341
630500.63	4176650.44	0.24335	630850.63	4176650.44	0.35302
631200.63	4176650.44	0.39909	631550.63	4176650.44	0.43388
631900.63	4176650.44	0.39971	632250.63	4176650.44	0.34459

632600.63	4176650.44	0.33675	632950.63	4176650.44	0.29619
633300.63	4176650.44	0.25470	629800.63	4177000.44	0.11432
630150.63	4177000.44	0.15800	630500.63	4177000.44	0.21437
630850.63	4177000.44	0.26390	631200.63	4177000.44	0.27948
631550.63	4177000.44	0.31454	631900.63	4177000.44	0.28902
632250.63	4177000.44	0.26367	632600.63	4177000.44	0.24233
632950.63	4177000.44	0.22621	633300.63	4177000.44	0.19862
629800.63	4177350.44	0.11052	630150.63	4177350.44	0.14121
630500.63	4177350.44	0.17092	630850.63	4177350.44	0.19635
631200.63	4177350.44	0.21441	631550.63	4177350.44	0.22973
631900.63	4177350.44	0.21567	632250.63	4177350.44	0.20536
632600.63	4177350.44	0.17773	632950.63	4177350.44	0.17654
633300.63	4177350.44	0.15786	631670.70	4175493.59	26.56706
631669.80	4175641.41	8.00797	631665.32	4175796.39	2.61827
631417.17	4175826.85	2.14326	631417.17	4175673.66	2.17833
631422.55	4175484.63	1.48419	631268.42	4175983.74	0.96085
631275.69	4175523.99	0.78819	631345.65	4175419.50	0.86446
631384.72	4175441.30	1.05170	631491.93	4175442.21	1.82981
631491.93	4175414.95	1.66908	631385.63	4175413.14	0.94507
631358.37	4175395.87	0.86756	631409.25	4175336.81	0.85938
631567.35	4175235.96	1.25263	631756.33	4175028.80	0.75795
631807.22	4175003.36	0.77387	631867.18	4174987.91	0.86435
631849.92	4175988.28	1.09753	631268.74	4175963.75	0.97403
631269.05	4175943.76	0.98376	631269.37	4175923.77	0.99287
631269.68	4175903.78	1.00012	631270.00	4175883.79	1.00680
631270.32	4175863.81	1.01353	631270.63	4175843.82	1.02110

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.02588	631271.26	4175803.84	1.02801
631271.58	4175783.85	1.02323	631271.90	4175763.86	1.01068
631272.21	4175743.87	1.00416	631272.53	4175723.88	1.00563
631272.85	4175703.89	0.98866	631273.16	4175683.90	0.92335
631273.48	4175663.91	0.89858	631273.79	4175643.92	0.88422
631274.11	4175623.94	0.88076	631274.43	4175603.95	0.85905
631274.74	4175583.96	0.83526	631275.06	4175563.97	0.81359
631275.37	4175543.98	0.79987	631285.68	4175509.06	0.80610
631295.68	4175494.14	0.82497	631305.67	4175479.21	0.84923
631315.67	4175464.28	0.86367	631325.66	4175449.35	0.87029
631335.66	4175434.43	0.87093	631358.67	4175426.77	0.88432
631371.70	4175434.03	0.95304	631402.59	4175441.45	1.16269
631420.46	4175441.60	1.30265	631438.33	4175441.76	1.46163
631456.19	4175441.91	1.82572	631474.06	4175442.06	1.85849

631491.93	4175428.58	1.77654	631474.21	4175414.65	1.73454
631456.50	4175414.35	1.64659	631438.78	4175414.05	1.32781
631421.06	4175413.74	1.18234	631403.35	4175413.44	1.03295
631372.00	4175404.51	0.89396	631371.09	4175381.11	0.87243
631383.81	4175366.34	0.87554	631396.53	4175351.58	0.89087
631425.06	4175326.73	0.88154	631440.87	4175316.64	0.96898
631456.68	4175306.56	1.11423	631472.49	4175296.47	1.25359
631488.30	4175286.39	1.30986	631504.11	4175276.30	1.30479
631519.92	4175266.22	1.31246	631535.73	4175256.13	1.29979
631551.54	4175246.05	1.28775	631579.95	4175222.15	1.29628
631592.55	4175208.34	1.30635	631605.15	4175194.53	1.27263
631617.74	4175180.72	1.20573	631630.34	4175166.91	1.15030
631642.94	4175153.10	1.08752	631655.54	4175139.29	1.03167
631668.14	4175125.47	0.97566	631680.74	4175111.66	0.93220
631693.34	4175097.85	0.89188	631705.94	4175084.04	0.86004
631718.53	4175070.23	0.83078	631731.13	4175056.42	0.80487
631743.73	4175042.61	0.78161	631773.29	4175020.32	0.76215
631790.26	4175011.84	0.76870	631822.21	4174999.50	0.79111
631837.20	4174995.64	0.81372	631852.19	4174991.77	0.83805
631866.84	4175007.53	0.93123	631866.50	4175027.14	1.01322
631866.16	4175046.76	1.11146	631865.83	4175066.37	1.23011
631865.49	4175085.99	1.35272	631865.15	4175105.60	1.49107
631864.81	4175125.22	1.64929	631864.47	4175144.83	1.84112
631864.13	4175164.45	2.06041	631863.80	4175184.06	2.32707
631863.46	4175203.68	2.65600	631863.12	4175223.29	3.34297
631862.78	4175242.91	4.65868	631862.44	4175262.52	5.38642

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	6.12503	631861.77	4175301.75	6.03454
631861.43	4175321.37	7.17960	631861.09	4175340.98	8.31526
631860.75	4175360.60	9.87402	631860.41	4175380.21	11.83606
631860.07	4175399.83	13.95166	631859.73	4175419.44	17.49659
631859.40	4175439.06	22.35570	631859.06	4175458.67	35.19956
631858.72	4175478.29	60.40465	631858.38	4175497.90	76.99016
631858.04	4175517.52	52.56565	631857.70	4175537.13	24.80657
631857.37	4175556.75	13.47776	631857.03	4175576.36	8.33335
631856.69	4175595.98	5.62613	631856.35	4175615.59	4.16392
631856.01	4175635.21	3.26695	631855.67	4175654.82	2.63660
631855.33	4175674.44	2.16374	631855.00	4175694.05	1.81187
631854.66	4175713.67	1.59577	631854.32	4175733.28	1.42997
631853.98	4175752.90	1.28990	631853.64	4175772.51	1.18379
631853.30	4175792.13	1.09202	631852.97	4175811.74	1.01453

631852.63	4175831.36	0.95834	631852.29	4175850.97	0.91642
631851.95	4175870.59	0.87753	631851.61	4175890.20	0.90919
631851.27	4175909.82	0.90167	631850.94	4175929.43	1.27016
631850.60	4175949.05	1.28961	631850.26	4175968.66	1.21956
631830.54	4175988.13	1.15500	631811.15	4175987.98	1.23543
631791.77	4175987.83	1.31913	631772.39	4175987.67	1.36096
631753.00	4175987.52	1.40296	631733.62	4175987.37	1.40821
631714.24	4175987.22	1.37689	631694.85	4175987.07	1.39862
631675.47	4175986.92	1.52648	631656.09	4175986.77	1.54478
631636.70	4175986.62	1.54395	631617.32	4175986.46	1.62346
631597.94	4175986.31	1.72093	631578.55	4175986.16	1.73605
631559.17	4175986.01	1.88552	631539.79	4175985.86	2.00960
631520.40	4175985.71	2.10892	631501.02	4175985.56	2.06914
631481.64	4175985.40	1.70073	631462.25	4175985.25	1.40907
631442.87	4175985.10	1.36718	631423.49	4175984.95	1.32890
631404.10	4175984.80	1.28815	631384.72	4175984.65	1.24618
631365.34	4175984.50	1.20205	631345.95	4175984.35	1.15585
631326.57	4175984.19	1.10631	631307.19	4175984.04	1.05666
631287.80	4175983.89	1.00769	631050.63	4175100.50	0.24963
631050.63	4175200.50	0.28667	631050.63	4175300.50	0.32162
631050.63	4175400.50	0.37013	631050.63	4175500.50	0.40534
631050.63	4175600.50	0.42824	631050.63	4175700.50	0.45334
631050.63	4175800.50	0.50504	631050.63	4175900.50	0.56577
631050.63	4176000.50	0.58042	631050.63	4176100.50	0.57966
631150.63	4175100.50	0.29098	631150.63	4175200.50	0.34501
631150.63	4175300.50	0.40118	631150.63	4175400.50	0.46780

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.52696	631150.63	4175600.50	0.55747
631150.63	4175700.50	0.63909	631150.63	4175800.50	0.69964
631150.63	4175900.50	0.72647	631150.63	4176000.50	0.72164
631150.63	4176100.50	0.71262	631250.63	4175100.50	0.34435
631250.63	4175200.50	0.42288	631250.63	4175300.50	0.51250
631250.63	4175400.50	0.61473	631250.63	4175500.50	0.71471
631250.63	4175600.50	0.76340	631250.63	4175700.50	0.85847
631250.63	4175800.50	0.95921	631250.63	4175900.50	0.94722
631250.63	4176000.50	0.91139	631250.63	4176100.50	0.84260
631350.63	4175100.50	0.41750	631350.63	4175200.50	0.53651
631350.63	4175300.50	0.68991	631350.63	4175400.50	0.84541
631350.63	4175500.50	1.03941	631350.63	4175600.50	1.41750
631350.63	4175700.50	1.46236	631350.63	4175800.50	1.55675
631350.63	4175900.50	1.30435	631350.63	4176000.50	1.13741

631350.63	4176100.50	0.94693	631450.63	4175100.50	0.52175
631450.63	4175200.50	0.70282	631450.63	4175300.50	1.00289
631450.63	4175400.50	1.44770	631450.63	4175500.50	1.83956
631450.63	4175600.50	2.64207	631450.63	4175700.50	2.78609
631450.63	4175800.50	2.49761	631450.63	4175900.50	2.16704
631450.63	4176000.50	1.31429	631450.63	4176100.50	0.99078
631550.63	4175100.50	0.66955	631550.63	4175200.50	1.11944
631550.63	4175300.50	0.69336	631550.63	4175400.50	1.80337
631550.63	4175500.50	5.70221	631550.63	4175600.50	6.26714
631550.63	4175700.50	4.59691	631550.63	4175800.50	3.15594
631550.63	4175900.50	1.82650	631550.63	4176000.50	1.97631
631550.63	4176100.50	0.99637	631650.63	4175100.50	0.82853
631650.63	4175200.50	1.41123	631650.63	4175300.50	0.99473
631650.63	4175400.50	2.73778	631650.63	4175500.50	23.81505
631650.63	4175600.50	10.28973	631650.63	4175700.50	5.48806
631650.63	4175800.50	2.72052	631650.63	4175900.50	1.34596
631650.63	4176000.50	1.66711	631650.63	4176100.50	1.00630
631750.63	4175100.50	1.01125	631750.63	4175200.50	2.00023
631750.63	4175300.50	1.50473	631750.63	4175400.50	5.25871
631750.63	4175500.50	58.72859	631750.63	4175600.50	9.69329
631750.63	4175700.50	3.22521	631750.63	4175800.50	1.28593
631750.63	4175900.50	0.64485	631750.63	4176000.50	1.31443
631750.63	4176100.50	0.95513	631850.63	4175100.50	1.38299
631850.63	4175200.50	2.47316	631850.63	4175300.50	5.52490
631850.63	4175400.50	13.52690	631850.63	4175500.50	79.75872
631850.63	4175600.50	5.38263	631850.63	4175700.50	1.86207

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	1.09425	631850.63	4175900.50	0.89490
631850.63	4176000.50	1.05769	631850.63	4176100.50	0.83514
631950.63	4175100.50	1.90867	631950.63	4175200.50	3.42027
631950.63	4175300.50	8.23642	631950.63	4175400.50	15.55185
631950.63	4175500.50	33.60699	631950.63	4175600.50	5.59850
631950.63	4175700.50	1.52838	631950.63	4175800.50	1.09088
631950.63	4175900.50	1.28929	631950.63	4176000.50	0.92451
631950.63	4176100.50	0.75025	632050.63	4175100.50	2.29698
632050.63	4175200.50	3.59739	632050.63	4175300.50	5.44640
632050.63	4175400.50	10.44793	632050.63	4175500.50	19.45913
632050.63	4175600.50	5.62283	632050.63	4175700.50	2.45992
632050.63	4175800.50	1.61229	632050.63	4175900.50	1.11631
632050.63	4176000.50	0.85625	632050.63	4176100.50	0.69269

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.99614	632304.44	4174354.52	0.32115
632192.15	4174956.32	1.99192	632420.62	4175510.15	3.41841
632418.97	4175552.92	2.76662	631187.00	4175727.00	0.78980
631166.00	4175729.00	0.74372	631121.00	4175719.00	0.65184
631035.00	4174830.00	0.17868	631106.00	4174825.00	0.19260
631937.00	4174528.00	0.32029	631322.00	4174522.00	0.14270
629800.63	4173850.44	0.01968	630150.63	4173850.44	0.02277
630500.63	4173850.44	0.03032	630850.63	4173850.44	0.04659
631200.63	4173850.44	0.05278	631550.63	4173850.44	0.06209
631900.63	4173850.44	0.07209	632250.63	4173850.44	0.11379
632600.63	4173850.44	0.14097	632950.63	4173850.44	0.16972
633300.63	4173850.44	0.16393	629800.63	4174200.44	0.02869
630150.63	4174200.44	0.03718	630500.63	4174200.44	0.05174
630850.63	4174200.44	0.06361	631200.63	4174200.44	0.08283
631550.63	4174200.44	0.10684	631900.63	4174200.44	0.14517
632250.63	4174200.44	0.21704	632600.63	4174200.44	0.27555
632950.63	4174200.44	0.26635	633300.63	4174200.44	0.23263
629800.63	4174550.44	0.04603	630150.63	4174550.44	0.05811
630500.63	4174550.44	0.07963	630850.63	4174550.44	0.10026
631200.63	4174550.44	0.14033	631550.63	4174550.44	0.19666
631900.63	4174550.44	0.31627	632250.63	4174550.44	0.52867
632600.63	4174550.44	0.54391	632950.63	4174550.44	0.43810
633300.63	4174550.44	0.38952	629800.63	4174900.44	0.05167
630150.63	4174900.44	0.07043	630500.63	4174900.44	0.10932
630850.63	4174900.44	0.15960	631200.63	4174900.44	0.24977
631550.63	4174900.44	0.47111	631900.63	4174900.44	0.99067
632250.63	4174900.44	1.58311	632600.63	4174900.44	1.13454
632950.63	4174900.44	0.87735	633300.63	4174900.44	0.65139
629800.63	4175250.44	0.06129	630150.63	4175250.44	0.09112
630500.63	4175250.44	0.14230	630850.63	4175250.44	0.23005
631200.63	4175250.44	0.46553	631550.63	4175250.44	1.48777
631900.63	4175250.44	11.72670	632250.63	4175250.44	5.47825
632600.63	4175250.44	2.79418	632950.63	4175250.44	1.44724
633300.63	4175250.44	0.89556	629800.63	4175600.44	0.07019
630150.63	4175600.44	0.10175	630500.63	4175600.44	0.16059
630850.63	4175600.44	0.28470	631200.63	4175600.44	0.71233
631550.63	4175600.44	5.55368	631900.63	4175600.44	0.94578
632250.63	4175600.44	2.18357	632600.63	4175600.44	1.86723
632950.63	4175600.44	1.20310	633300.63	4175600.44	0.81509
629800.63	4175950.44	0.08093	630150.63	4175950.44	0.11940

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.20407	630850.63	4175950.44	0.39831
631200.63	4175950.44	0.82595	631550.63	4175950.44	1.25343
631900.63	4175950.44	0.94736	632250.63	4175950.44	0.70514
632600.63	4175950.44	0.64844	632950.63	4175950.44	0.63695
633300.63	4175950.44	0.52565	629800.63	4176300.44	0.09779
630150.63	4176300.44	0.15152	630500.63	4176300.44	0.24694
630850.63	4176300.44	0.41141	631200.63	4176300.44	0.57532
631550.63	4176300.44	0.59371	631900.63	4176300.44	0.51842
632250.63	4176300.44	0.44171	632600.63	4176300.44	0.41359
632950.63	4176300.44	0.36561	633300.63	4176300.44	0.32519
629800.63	4176650.44	0.11112	630150.63	4176650.44	0.16389
630500.63	4176650.44	0.24352	630850.63	4176650.44	0.33811
631200.63	4176650.44	0.36859	631550.63	4176650.44	0.40699
631900.63	4176650.44	0.36757	632250.63	4176650.44	0.31874
632600.63	4176650.44	0.30733	632950.63	4176650.44	0.26955
633300.63	4176650.44	0.23648	629800.63	4177000.44	0.11456
630150.63	4177000.44	0.15700	630500.63	4177000.44	0.20816
630850.63	4177000.44	0.25026	631200.63	4177000.44	0.26474
631550.63	4177000.44	0.29539	631900.63	4177000.44	0.26951
632250.63	4177000.44	0.25026	632600.63	4177000.44	0.22213
632950.63	4177000.44	0.21197	633300.63	4177000.44	0.18492
629800.63	4177350.44	0.11004	630150.63	4177350.44	0.13746
630500.63	4177350.44	0.16415	630850.63	4177350.44	0.18687
631200.63	4177350.44	0.20620	631550.63	4177350.44	0.21693
631900.63	4177350.44	0.20294	632250.63	4177350.44	0.19507
632600.63	4177350.44	0.16686	632950.63	4177350.44	0.16481
633300.63	4177350.44	0.15002	631670.70	4175493.59	14.20790
631669.80	4175641.41	5.72348	631665.32	4175796.39	1.83420
631417.17	4175826.85	1.98710	631417.17	4175673.66	2.34247
631422.55	4175484.63	1.61913	631268.42	4175983.74	0.92696
631275.69	4175523.99	0.86493	631345.65	4175419.50	0.94284
631384.72	4175441.30	1.30311	631491.93	4175442.21	2.68381
631491.93	4175414.95	1.99797	631385.63	4175413.14	1.20909
631358.37	4175395.87	1.02146	631409.25	4175336.81	1.10208
631567.35	4175235.96	1.46915	631756.33	4175028.80	1.09735
631807.22	4175003.36	1.12661	631867.18	4174987.91	1.31267
631849.92	4175988.28	0.91226	631268.74	4175963.75	0.94927
631269.05	4175943.76	0.96714	631269.37	4175923.77	0.98271
631269.68	4175903.78	0.99622	631270.00	4175883.79	1.00882
631270.32	4175863.81	1.02125	631270.63	4175843.82	1.03744

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.05170	631271.26	4175803.84	1.09080
631271.58	4175783.85	1.12564	631271.90	4175763.86	1.10008
631272.21	4175743.87	1.12824	631272.53	4175723.88	1.24067
631272.85	4175703.89	1.20847	631273.16	4175683.90	1.14317
631273.48	4175663.91	1.09416	631273.79	4175643.92	1.11116
631274.11	4175623.94	1.15888	631274.43	4175603.95	1.09055
631274.74	4175583.96	1.01508	631275.06	4175563.97	0.94873
631275.37	4175543.98	0.90529	631285.68	4175509.06	0.86102
631295.68	4175494.14	0.92615	631305.67	4175479.21	0.97781
631315.67	4175464.28	0.98888	631325.66	4175449.35	0.99853
631335.66	4175434.43	0.99790	631358.67	4175426.77	1.01158
631371.70	4175434.03	1.16260	631402.59	4175441.45	1.46312
631420.46	4175441.60	1.56784	631438.33	4175441.76	1.35745
631456.19	4175441.91	1.84794	631474.06	4175442.06	2.32436
631491.93	4175428.58	2.31315	631474.21	4175414.65	1.88189
631456.50	4175414.35	1.67473	631438.78	4175414.05	1.31787
631421.06	4175413.74	1.50188	631403.35	4175413.44	1.31883
631372.00	4175404.51	1.14147	631371.09	4175381.11	1.08997
631383.81	4175366.34	1.10172	631396.53	4175351.58	1.11491
631425.06	4175326.73	1.04919	631440.87	4175316.64	1.11982
631456.68	4175306.56	1.29958	631472.49	4175296.47	1.50684
631488.30	4175286.39	1.58312	631504.11	4175276.30	1.62117
631519.92	4175266.22	1.66517	631535.73	4175256.13	1.61718
631551.54	4175246.05	1.52379	631579.95	4175222.15	1.45759
631592.55	4175208.34	1.52527	631605.15	4175194.53	1.57416
631617.74	4175180.72	1.62236	631630.34	4175166.91	1.62944
631642.94	4175153.10	1.59362	631655.54	4175139.29	1.52049
631668.14	4175125.47	1.44700	631680.74	4175111.66	1.38173
631693.34	4175097.85	1.31952	631705.94	4175084.04	1.26845
631718.53	4175070.23	1.22036	631731.13	4175056.42	1.17320
631743.73	4175042.61	1.13508	631773.29	4175020.32	1.10188
631790.26	4175011.84	1.11287	631822.21	4174999.50	1.16308
631837.20	4174995.64	1.20747	631852.19	4174991.77	1.25891
631866.84	4175007.53	1.44215	631866.50	4175027.14	1.60309
631866.16	4175046.76	1.81345	631865.83	4175066.37	2.04049
631865.49	4175085.99	2.30662	631865.15	4175105.60	2.62203
631864.81	4175125.22	3.00856	631864.47	4175144.83	3.49503
631864.13	4175164.45	4.10191	631863.80	4175184.06	4.86944
631863.46	4175203.68	5.84500	631863.12	4175223.29	7.71016
631862.78	4175242.91	12.91320	631862.44	4175262.52	17.04330

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	19.53642	631861.77	4175301.75	21.37222
631861.43	4175321.37	26.29808	631861.09	4175340.98	32.67657
631860.75	4175360.60	44.28402	631860.41	4175380.21	60.54152
631860.07	4175399.83	56.67964	631859.73	4175419.44	28.78661
631859.40	4175439.06	10.41235	631859.06	4175458.67	5.65432
631858.72	4175478.29	3.73721	631858.38	4175497.90	2.95441
631858.04	4175517.52	2.67028	631857.70	4175537.13	2.56221
631857.37	4175556.75	2.18921	631857.03	4175576.36	2.01309
631856.69	4175595.98	1.68089	631856.35	4175615.59	1.48524
631856.01	4175635.21	1.29199	631855.67	4175654.82	1.25426
631855.33	4175674.44	1.12308	631855.00	4175694.05	1.07148
631854.66	4175713.67	0.94767	631854.32	4175733.28	0.91229
631853.98	4175752.90	0.81390	631853.64	4175772.51	0.78380
631853.30	4175792.13	0.76030	631852.97	4175811.74	0.72616
631852.63	4175831.36	0.70895	631852.29	4175850.97	0.69148
631851.95	4175870.59	0.67483	631851.61	4175890.20	0.71033
631851.27	4175909.82	0.70508	631850.94	4175929.43	1.03896
631850.60	4175949.05	1.04301	631850.26	4175968.66	0.99136
631830.54	4175988.13	0.96664	631811.15	4175987.98	1.03503
631791.77	4175987.83	1.09153	631772.39	4175987.67	1.14467
631753.00	4175987.52	1.21012	631733.62	4175987.37	1.22495
631714.24	4175987.22	1.23702	631694.85	4175987.07	1.28940
631675.47	4175986.92	1.30585	631656.09	4175986.77	1.27874
631636.70	4175986.62	1.29395	631617.32	4175986.46	1.31536
631597.94	4175986.31	1.32282	631578.55	4175986.16	1.34853
631559.17	4175986.01	1.39238	631539.79	4175985.86	1.52801
631520.40	4175985.71	1.61636	631501.02	4175985.56	1.55316
631481.64	4175985.40	1.39292	631462.25	4175985.25	1.18282
631442.87	4175985.10	1.15781	631423.49	4175984.95	1.13735
631404.10	4175984.80	1.11620	631384.72	4175984.65	1.09377
631365.34	4175984.50	1.07057	631345.95	4175984.35	1.04510
631326.57	4175984.19	1.01767	631307.19	4175984.04	0.98901
631287.80	4175983.89	0.95852	631050.63	4175100.50	0.27429
631050.63	4175200.50	0.30865	631050.63	4175300.50	0.35698
631050.63	4175400.50	0.39644	631050.63	4175500.50	0.41663
631050.63	4175600.50	0.45204	631050.63	4175700.50	0.49759
631050.63	4175800.50	0.54365	631050.63	4175900.50	0.58379
631050.63	4176000.50	0.58507	631050.63	4176100.50	0.58303
631150.63	4175100.50	0.32865	631150.63	4175200.50	0.38193
631150.63	4175300.50	0.45072	631150.63	4175400.50	0.51569

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.54861	631150.63	4175600.50	0.60173
631150.63	4175700.50	0.69784	631150.63	4175800.50	0.73556
631150.63	4175900.50	0.73817	631150.63	4176000.50	0.72384
631150.63	4176100.50	0.69106	631250.63	4175100.50	0.40315
631250.63	4175200.50	0.48535	631250.63	4175300.50	0.58814
631250.63	4175400.50	0.69645	631250.63	4175500.50	0.76493
631250.63	4175600.50	0.87312	631250.63	4175700.50	1.03741
631250.63	4175800.50	0.99261	631250.63	4175900.50	0.94873
631250.63	4176000.50	0.88186	631250.63	4176100.50	0.77402
631350.63	4175100.50	0.51021	631350.63	4175200.50	0.64605
631350.63	4175300.50	0.81868	631350.63	4175400.50	0.96175
631350.63	4175500.50	1.24782	631350.63	4175600.50	1.53068
631350.63	4175700.50	1.62905	631350.63	4175800.50	1.85445
631350.63	4175900.50	1.29871	631350.63	4176000.50	1.01603
631350.63	4176100.50	0.82462	631450.63	4175100.50	0.66598
631450.63	4175200.50	0.89976	631450.63	4175300.50	1.18189
631450.63	4175400.50	1.50402	631450.63	4175500.50	2.19969
631450.63	4175600.50	2.84253	631450.63	4175700.50	2.91332
631450.63	4175800.50	2.41181	631450.63	4175900.50	1.75325
631450.63	4176000.50	1.10553	631450.63	4176100.50	0.83896
631550.63	4175100.50	0.90460	631550.63	4175200.50	1.46904
631550.63	4175300.50	0.62637	631550.63	4175400.50	1.90706
631550.63	4175500.50	5.93083	631550.63	4175600.50	5.55328
631550.63	4175700.50	4.40675	631550.63	4175800.50	2.70366
631550.63	4175900.50	1.48213	631550.63	4176000.50	1.53645
631550.63	4176100.50	0.84778	631650.63	4175100.50	1.19523
631650.63	4175200.50	1.86355	631650.63	4175300.50	1.02273
631650.63	4175400.50	7.63744	631650.63	4175500.50	12.35568
631650.63	4175600.50	7.97489	631650.63	4175700.50	4.01473
631650.63	4175800.50	1.95341	631650.63	4175900.50	1.03949
631650.63	4176000.50	1.40632	631650.63	4176100.50	0.86447
631750.63	4175100.50	1.54762	631750.63	4175200.50	3.29484
631750.63	4175300.50	3.21702	631750.63	4175400.50	37.65720
631750.63	4175500.50	12.74714	631750.63	4175600.50	4.08619
631750.63	4175700.50	1.62389	631750.63	4175800.50	0.82238
631750.63	4175900.50	0.50342	631750.63	4176000.50	1.16398
631750.63	4176100.50	0.81604	631850.63	4175100.50	2.36423
631850.63	4175200.50	5.27946	631850.63	4175300.50	19.55136
631850.63	4175400.50	59.08628	631850.63	4175500.50	3.64969
631850.63	4175600.50	1.62086	631850.63	4175700.50	1.04525

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	0.77266	631850.63	4175900.50	0.72180
631850.63	4176000.50	0.88236	631850.63	4176100.50	0.71604
631950.63	4175100.50	3.55342	631950.63	4175200.50	6.92615
631950.63	4175300.50	14.13540	631950.63	4175400.50	27.91788
631950.63	4175500.50	3.57761	631950.63	4175600.50	0.86476
631950.63	4175700.50	0.67493	631950.63	4175800.50	0.61215
631950.63	4175900.50	0.99552	631950.63	4176000.50	0.77647
631950.63	4176100.50	0.65625	632050.63	4175100.50	3.80686
632050.63	4175200.50	5.74643	632050.63	4175300.50	10.38606
632050.63	4175400.50	17.83642	632050.63	4175500.50	4.77663
632050.63	4175600.50	2.02518	632050.63	4175700.50	1.38857
632050.63	4175800.50	1.14668	632050.63	4175900.50	0.86429
632050.63	4176000.50	0.70342	632050.63	4176100.50	0.59619

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.56920	632304.44	4174354.52	0.16626
632192.15	4174956.32	0.58031	632420.62	4175510.15	1.64343
632418.97	4175552.92	1.82846	631187.00	4175727.00	1.54828
631166.00	4175729.00	1.52400	631121.00	4175719.00	1.12182
631035.00	4174830.00	0.15110	631106.00	4174825.00	0.15813
631937.00	4174528.00	0.20269	631322.00	4174522.00	0.09015
629800.63	4173850.44	0.01780	630150.63	4173850.44	0.02095
630500.63	4173850.44	0.02850	630850.63	4173850.44	0.04082
631200.63	4173850.44	0.03618	631550.63	4173850.44	0.04754
631900.63	4173850.44	0.06702	632250.63	4173850.44	0.08195
632600.63	4173850.44	0.09241	632950.63	4173850.44	0.10775
633300.63	4173850.44	0.10936	629800.63	4174200.44	0.02439

630150.63	4174200.44	0.03214	630500.63	4174200.44	0.04708
630850.63	4174200.44	0.05844	631200.63	4174200.44	0.05820
631550.63	4174200.44	0.07446	631900.63	4174200.44	0.11673
632250.63	4174200.44	0.12811	632600.63	4174200.44	0.14839
632950.63	4174200.44	0.15335	633300.63	4174200.44	0.14111
629800.63	4174550.44	0.04102	630150.63	4174550.44	0.05137
630500.63	4174550.44	0.06752	630850.63	4174550.44	0.09098
631200.63	4174550.44	0.10654	631550.63	4174550.44	0.12240
631900.63	4174550.44	0.20813	632250.63	4174550.44	0.23397
632600.63	4174550.44	0.24294	632950.63	4174550.44	0.21645
633300.63	4174550.44	0.20447	629800.63	4174900.44	0.05287
630150.63	4174900.44	0.07049	630500.63	4174900.44	0.09970
630850.63	4174900.44	0.13435	631200.63	4174900.44	0.19208
631550.63	4174900.44	0.25896	631900.63	4174900.44	0.45644
632250.63	4174900.44	0.48943	632600.63	4174900.44	0.39496
632950.63	4174900.44	0.35485	633300.63	4174900.44	0.31161
629800.63	4175250.44	0.06539	630150.63	4175250.44	0.10043
630500.63	4175250.44	0.15673	630850.63	4175250.44	0.23551
631200.63	4175250.44	0.40959	631550.63	4175250.44	0.62570
631900.63	4175250.44	1.46825	632250.63	4175250.44	1.00743
632600.63	4175250.44	0.77286	632950.63	4175250.44	0.60743
633300.63	4175250.44	0.48162	629800.63	4175600.44	0.08221
630150.63	4175600.44	0.11700	630500.63	4175600.44	0.18604
630850.63	4175600.44	0.37295	631200.63	4175600.44	1.12412
631550.63	4175600.44	2.59581	631900.63	4175600.44	4.24139
632250.63	4175600.44	2.77867	632600.63	4175600.44	1.48225
632950.63	4175600.44	0.91336	633300.63	4175600.44	0.64838
629800.63	4175950.44	0.08941	630150.63	4175950.44	0.13415

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.25208	630850.63	4175950.44	0.56122
631200.63	4175950.44	2.17182	631550.63	4175950.44	5.19638
631900.63	4175950.44	4.16108	632250.63	4175950.44	3.21838
632600.63	4175950.44	1.57014	632950.63	4175950.44	0.92906
633300.63	4175950.44	0.64295	629800.63	4176300.44	0.10346
630150.63	4176300.44	0.16843	630500.63	4176300.44	0.32163
630850.63	4176300.44	0.66968	631200.63	4176300.44	1.18138
631550.63	4176300.44	1.10854	631900.63	4176300.44	1.01429
632250.63	4176300.44	0.86213	632600.63	4176300.44	0.76171
632950.63	4176300.44	0.59115	633300.63	4176300.44	0.46431
629800.63	4176650.44	0.12584	630150.63	4176650.44	0.21020
630500.63	4176650.44	0.34016	630850.63	4176650.44	0.53759

631200.63	4176650.44	0.63166	631550.63	4176650.44	0.59511
631900.63	4176650.44	0.54054	632250.63	4176650.44	0.52107
632600.63	4176650.44	0.43003	632950.63	4176650.44	0.35358
633300.63	4176650.44	0.30783	629800.63	4177000.44	0.14203
630150.63	4177000.44	0.20468	630500.63	4177000.44	0.29184
630850.63	4177000.44	0.36867	631200.63	4177000.44	0.42348
631550.63	4177000.44	0.39092	631900.63	4177000.44	0.35657
632250.63	4177000.44	0.34589	632600.63	4177000.44	0.30032
632950.63	4177000.44	0.25320	633300.63	4177000.44	0.21411
629800.63	4177350.44	0.13784	630150.63	4177350.44	0.18028
630500.63	4177350.44	0.22085	630850.63	4177350.44	0.26526
631200.63	4177350.44	0.29371	631550.63	4177350.44	0.27372
631900.63	4177350.44	0.25756	632250.63	4177350.44	0.23176
632600.63	4177350.44	0.22491	632950.63	4177350.44	0.19343
633300.63	4177350.44	0.16900	631670.70	4175493.59	3.28206
631669.80	4175641.41	6.87090	631665.32	4175796.39	69.46337
631417.17	4175826.85	12.02529	631417.17	4175673.66	3.67075
631422.55	4175484.63	0.78964	631268.42	4175983.74	3.37699
631275.69	4175523.99	0.92407	631345.65	4175419.50	1.11562
631384.72	4175441.30	0.70287	631491.93	4175442.21	1.47115
631491.93	4175414.95	1.31431	631385.63	4175413.14	1.10899
631358.37	4175395.87	1.10660	631409.25	4175336.81	0.73663
631567.35	4175235.96	0.60387	631756.33	4175028.80	0.57102
631807.22	4175003.36	0.56352	631867.18	4174987.91	0.57028
631849.92	4175988.28	2.69468	631268.74	4175963.75	4.06724
631269.05	4175943.76	4.13398	631269.37	4175923.77	3.98766
631269.68	4175903.78	3.75585	631270.00	4175883.79	3.46233
631270.32	4175863.81	3.18789	631270.63	4175843.82	2.87637

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	2.60631	631271.26	4175803.84	2.55336
631271.58	4175783.85	2.74147	631271.90	4175763.86	2.69872
631272.21	4175743.87	2.09479	631272.53	4175723.88	1.98736
631272.85	4175703.89	1.93391	631273.16	4175683.90	1.81830
631273.48	4175663.91	1.61424	631273.79	4175643.92	1.53635
631274.11	4175623.94	1.50269	631274.43	4175603.95	1.41676
631274.74	4175583.96	1.26874	631275.06	4175563.97	1.09385
631275.37	4175543.98	0.99307	631285.68	4175509.06	0.91819
631295.68	4175494.14	0.87784	631305.67	4175479.21	0.86406
631315.67	4175464.28	0.88569	631325.66	4175449.35	0.89700
631335.66	4175434.43	1.04754	631358.67	4175426.77	1.08334
631371.70	4175434.03	0.96718	631402.59	4175441.45	0.73235

631420.46	4175441.60	0.64858	631438.33	4175441.76	0.90753
631456.19	4175441.91	1.15247	631474.06	4175442.06	1.41419
631491.93	4175428.58	1.42938	631474.21	4175414.65	1.36886
631456.50	4175414.35	1.28166	631438.78	4175414.05	1.25214
631421.06	4175413.74	1.16799	631403.35	4175413.44	1.12747
631372.00	4175404.51	1.13630	631371.09	4175381.11	1.00162
631383.81	4175366.34	0.87152	631396.53	4175351.58	0.78892
631425.06	4175326.73	0.72574	631440.87	4175316.64	0.72393
631456.68	4175306.56	0.72725	631472.49	4175296.47	0.75358
631488.30	4175286.39	0.73421	631504.11	4175276.30	0.65613
631519.92	4175266.22	0.66144	631535.73	4175256.13	0.64458
631551.54	4175246.05	0.62413	631579.95	4175222.15	0.78239
631592.55	4175208.34	0.76994	631605.15	4175194.53	0.90044
631617.74	4175180.72	0.86944	631630.34	4175166.91	0.81806
631642.94	4175153.10	0.75990	631655.54	4175139.29	0.67376
631668.14	4175125.47	0.65772	631680.74	4175111.66	0.64700
631693.34	4175097.85	0.63475	631705.94	4175084.04	0.62291
631718.53	4175070.23	0.61025	631731.13	4175056.42	0.59753
631743.73	4175042.61	0.58484	631773.29	4175020.32	0.57017
631790.26	4175011.84	0.56811	631822.21	4174999.50	0.56550
631837.20	4174995.64	0.56734	631852.19	4174991.77	0.56896
631866.84	4175007.53	0.60215	631866.50	4175027.14	0.64073
631866.16	4175046.76	0.68644	631865.83	4175066.37	0.74421
631865.49	4175085.99	0.79366	631865.15	4175105.60	0.84616
631864.81	4175125.22	0.90334	631864.47	4175144.83	0.96569
631864.13	4175164.45	1.03294	631863.80	4175184.06	1.10688
631863.46	4175203.68	1.18849	631863.12	4175223.29	1.31367
631862.78	4175242.91	1.49258	631862.44	4175262.52	1.53857

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	1.60183	631861.77	4175301.75	1.63987
631861.43	4175321.37	1.75258	631861.09	4175340.98	1.87299
631860.75	4175360.60	2.00405	631860.41	4175380.21	2.14114
631860.07	4175399.83	2.28727	631859.73	4175419.44	2.44073
631859.40	4175439.06	2.59678	631859.06	4175458.67	2.76150
631858.72	4175478.29	2.93362	631858.38	4175497.90	3.11073
631858.04	4175517.52	3.29845	631857.70	4175537.13	3.50916
631857.37	4175556.75	3.74614	631857.03	4175576.36	4.02894
631856.69	4175595.98	4.37271	631856.35	4175615.59	4.81473
631856.01	4175635.21	5.41163	631855.67	4175654.82	6.24063
631855.33	4175674.44	7.39848	631855.00	4175694.05	8.98482
631854.66	4175713.67	11.09136	631854.32	4175733.28	13.75466

631853.98	4175752.90	16.79348	631853.64	4175772.51	19.67207
631853.30	4175792.13	21.49535	631852.97	4175811.74	21.57041
631852.63	4175831.36	19.80824	631852.29	4175850.97	16.78829
631851.95	4175870.59	13.26214	631851.61	4175890.20	9.90986
631851.27	4175909.82	7.17503	631850.94	4175929.43	5.23231
631850.60	4175949.05	3.97984	631850.26	4175968.66	3.19965
631830.54	4175988.13	2.66762	631811.15	4175987.98	2.65532
631791.77	4175987.83	2.67008	631772.39	4175987.67	2.70693
631753.00	4175987.52	2.74545	631733.62	4175987.37	2.81786
631714.24	4175987.22	2.89991	631694.85	4175987.07	2.99916
631675.47	4175986.92	3.09662	631656.09	4175986.77	3.19440
631636.70	4175986.62	3.27105	631617.32	4175986.46	3.37637
631597.94	4175986.31	3.46016	631578.55	4175986.16	3.52822
631559.17	4175986.01	3.79424	631539.79	4175985.86	4.19111
631520.40	4175985.71	4.49726	631501.02	4175985.56	4.90767
631481.64	4175985.40	5.08073	631462.25	4175985.25	4.94880
631442.87	4175985.10	4.82039	631423.49	4175984.95	4.10621
631404.10	4175984.80	4.04837	631384.72	4175984.65	3.31340
631365.34	4175984.50	3.91328	631345.95	4175984.35	4.38827
631326.57	4175984.19	4.53765	631307.19	4175984.04	4.35279
631287.80	4175983.89	4.08140	631050.63	4175100.50	0.23645
631050.63	4175200.50	0.28443	631050.63	4175300.50	0.34837
631050.63	4175400.50	0.43785	631050.63	4175500.50	0.55481
631050.63	4175600.50	0.67402	631050.63	4175700.50	0.71734
631050.63	4175800.50	0.86168	631050.63	4175900.50	1.06711
631050.63	4176000.50	1.13765	631050.63	4176100.50	1.14304
631150.63	4175100.50	0.27231	631150.63	4175200.50	0.33504
631150.63	4175300.50	0.42461	631150.63	4175400.50	0.54977

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.75736	631150.63	4175600.50	1.03639
631150.63	4175700.50	1.29032	631150.63	4175800.50	1.51694
631150.63	4175900.50	1.67204	631150.63	4176000.50	1.70031
631150.63	4176100.50	1.59156	631250.63	4175100.50	0.30426
631250.63	4175200.50	0.38688	631250.63	4175300.50	0.50883
631250.63	4175400.50	0.70247	631250.63	4175500.50	0.92524
631250.63	4175600.50	1.21565	631250.63	4175700.50	1.72051
631250.63	4175800.50	2.31984	631250.63	4175900.50	3.67555
631250.63	4176000.50	2.61527	631250.63	4176100.50	2.08006
631350.63	4175100.50	0.32538	631350.63	4175200.50	0.42141
631350.63	4175300.50	0.59034	631350.63	4175400.50	1.11217
631350.63	4175500.50	0.84790	631350.63	4175600.50	1.79947

631350.63	4175700.50	2.79327	631350.63	4175800.50	8.40741
631350.63	4175900.50	3.09560	631350.63	4176000.50	4.28363
631350.63	4176100.50	2.36331	631450.63	4175100.50	0.35463
631450.63	4175200.50	0.45506	631450.63	4175300.50	0.69967
631450.63	4175400.50	1.21344	631450.63	4175500.50	1.05846
631450.63	4175600.50	1.85040	631450.63	4175700.50	5.00853
631450.63	4175800.50	43.76504	631450.63	4175900.50	3.39396
631450.63	4176000.50	4.33025	631450.63	4176100.50	2.38689
631550.63	4175100.50	0.44070	631550.63	4175200.50	0.61198
631550.63	4175300.50	0.62659	631550.63	4175400.50	0.92662
631550.63	4175500.50	1.53000	631550.63	4175600.50	2.59669
631550.63	4175700.50	4.80901	631550.63	4175800.50	94.68929
631550.63	4175900.50	6.90943	631550.63	4176000.50	3.63896
631550.63	4176100.50	2.10272	631650.63	4175100.50	0.57941
631650.63	4175200.50	1.06208	631650.63	4175300.50	1.11558
631650.63	4175400.50	1.80582	631650.63	4175500.50	3.43977
631650.63	4175600.50	6.64971	631650.63	4175700.50	10.76554
631650.63	4175800.50	79.10248	631650.63	4175900.50	5.93722
631650.63	4176000.50	2.99057	631650.63	4176100.50	1.84276
631750.63	4175100.50	0.71249	631750.63	4175200.50	1.27213
631750.63	4175300.50	1.53418	631750.63	4175400.50	2.30238
631750.63	4175500.50	3.62096	631750.63	4175600.50	5.49099
631750.63	4175700.50	10.16386	631750.63	4175800.50	38.40535
631750.63	4175900.50	7.08177	631750.63	4176000.50	2.59561
631750.63	4176100.50	1.74388	631850.63	4175100.50	0.82318
631850.63	4175200.50	1.16760	631850.63	4175300.50	1.63424
631850.63	4175400.50	2.30977	631850.63	4175500.50	3.18078
631850.63	4175600.50	4.50083	631850.63	4175700.50	9.66230

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	22.03752	631850.63	4175900.50	8.37701
631850.63	4176000.50	2.47078	631850.63	4176100.50	1.64688
631950.63	4175100.50	0.86898	631950.63	4175200.50	1.18772
631950.63	4175300.50	1.62112	631950.63	4175400.50	2.04228
631950.63	4175500.50	2.68103	631950.63	4175600.50	4.07636
631950.63	4175700.50	8.28829	631950.63	4175800.50	13.83944
631950.63	4175900.50	7.87825	631950.63	4176000.50	2.65209
631950.63	4176100.50	1.55383	632050.63	4175100.50	0.86610
632050.63	4175200.50	1.12235	632050.63	4175300.50	1.41826
632050.63	4175400.50	1.76824	632050.63	4175500.50	2.37236
632050.63	4175600.50	3.73266	632050.63	4175700.50	6.59548
632050.63	4175800.50	9.19331	632050.63	4175900.50	6.50951

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.71784	632304.44	4174354.52	0.19181
632192.15	4174956.32	0.70379	632420.62	4175510.15	2.22004
632418.97	4175552.92	2.44025	631187.00	4175727.00	1.92331
631166.00	4175729.00	1.75906	631121.00	4175719.00	1.35654
631035.00	4174830.00	0.16471	631106.00	4174825.00	0.17567
631937.00	4174528.00	0.22323	631322.00	4174522.00	0.10237
629800.63	4173850.44	0.01826	630150.63	4173850.44	0.02180
630500.63	4173850.44	0.02951	630850.63	4173850.44	0.04352
631200.63	4173850.44	0.04115	631550.63	4173850.44	0.05203
631900.63	4173850.44	0.07067	632250.63	4173850.44	0.08470
632600.63	4173850.44	0.10365	632950.63	4173850.44	0.11944
633300.63	4173850.44	0.11744	629800.63	4174200.44	0.02599
630150.63	4174200.44	0.03343	630500.63	4174200.44	0.04896
630850.63	4174200.44	0.06254	631200.63	4174200.44	0.06462
631550.63	4174200.44	0.08230	631900.63	4174200.44	0.12529
632250.63	4174200.44	0.14126	632600.63	4174200.44	0.16958
632950.63	4174200.44	0.16800	633300.63	4174200.44	0.15352
629800.63	4174550.44	0.04479	630150.63	4174550.44	0.05481
630500.63	4174550.44	0.07162	630850.63	4174550.44	0.09548
631200.63	4174550.44	0.11709	631550.63	4174550.44	0.14086
631900.63	4174550.44	0.23066	632250.63	4174550.44	0.27629
632600.63	4174550.44	0.27454	632950.63	4174550.44	0.24265
633300.63	4174550.44	0.22939	629800.63	4174900.44	0.05594
630150.63	4174900.44	0.07541	630500.63	4174900.44	0.10810
630850.63	4174900.44	0.14763	631200.63	4174900.44	0.21859
631550.63	4174900.44	0.32558	631900.63	4174900.44	0.56558
632250.63	4174900.44	0.58478	632600.63	4174900.44	0.48343
632950.63	4174900.44	0.41630	633300.63	4174900.44	0.35440
629800.63	4175250.44	0.06642	630150.63	4175250.44	0.10651
630500.63	4175250.44	0.17369	630850.63	4175250.44	0.27548
631200.63	4175250.44	0.50335	631550.63	4175250.44	0.98605
631900.63	4175250.44	1.92961	632250.63	4175250.44	1.28197
632600.63	4175250.44	0.95665	632950.63	4175250.44	0.70815
633300.63	4175250.44	0.53614	629800.63	4175600.44	0.08506
630150.63	4175600.44	0.12719	630500.63	4175600.44	0.21795
630850.63	4175600.44	0.44180	631200.63	4175600.44	1.51182
631550.63	4175600.44	7.80821	631900.63	4175600.44	10.99281
632250.63	4175600.44	4.18262	632600.63	4175600.44	1.70190
632950.63	4175600.44	0.96767	633300.63	4175600.44	0.67241

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.26481	630850.63	4175950.44	0.65136
631200.63	4175950.44	2.25187	631550.63	4175950.44	2.24300
631900.63	4175950.44	1.76782	632250.63	4175950.44	1.85136
632600.63	4175950.44	1.28451	632950.63	4175950.44	0.84244
633300.63	4175950.44	0.59995	629800.63	4176300.44	0.11169
630150.63	4176300.44	0.18442	630500.63	4176300.44	0.35318
630850.63	4176300.44	0.68403	631200.63	4176300.44	0.98714
631550.63	4176300.44	0.86855	631900.63	4176300.44	0.77586
632250.63	4176300.44	0.69924	632600.63	4176300.44	0.61725
632950.63	4176300.44	0.50828	633300.63	4176300.44	0.41026
629800.63	4176650.44	0.13366	630150.63	4176650.44	0.21794
630500.63	4176650.44	0.34283	630850.63	4176650.44	0.50257
631200.63	4176650.44	0.54338	631550.63	4176650.44	0.51639
631900.63	4176650.44	0.45875	632250.63	4176650.44	0.44419
632600.63	4176650.44	0.38269	632950.63	4176650.44	0.31365
633300.63	4176650.44	0.27417	629800.63	4177000.44	0.14351
630150.63	4177000.44	0.20320	630500.63	4177000.44	0.28043
630850.63	4177000.44	0.34103	631200.63	4177000.44	0.37410
631550.63	4177000.44	0.35392	631900.63	4177000.44	0.32412
632250.63	4177000.44	0.30103	632600.63	4177000.44	0.27192
632950.63	4177000.44	0.23399	633300.63	4177000.44	0.19823
629800.63	4177350.44	0.13655	630150.63	4177350.44	0.17398
630500.63	4177350.44	0.20837	630850.63	4177350.44	0.24193
631200.63	4177350.44	0.26920	631550.63	4177350.44	0.25324
631900.63	4177350.44	0.24146	632250.63	4177350.44	0.20655
632600.63	4177350.44	0.20571	632950.63	4177350.44	0.17977
633300.63	4177350.44	0.15899	631670.70	4175493.59	6.55663
631669.80	4175641.41	26.50689	631665.32	4175796.39	6.48368
631417.17	4175826.85	6.51849	631417.17	4175673.66	27.49061
631422.55	4175484.63	1.59193	631268.42	4175983.74	3.00658
631275.69	4175523.99	1.56798	631345.65	4175419.50	1.74357
631384.72	4175441.30	1.06187	631491.93	4175442.21	2.12246
631491.93	4175414.95	2.04207	631385.63	4175413.14	1.75043
631358.37	4175395.87	1.65901	631409.25	4175336.81	1.05406
631567.35	4175235.96	0.91475	631756.33	4175028.80	0.73999
631807.22	4175003.36	0.72271	631867.18	4174987.91	0.73035
631849.92	4175988.28	1.55769	631268.74	4175963.75	4.23666
631269.05	4175943.76	4.24897	631269.37	4175923.77	3.93478
631269.68	4175903.78	3.76435	631270.00	4175883.79	3.72566

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	4.16643	631271.26	4175803.84	4.37557
631271.58	4175783.85	4.43561	631271.90	4175763.86	4.00682
631272.21	4175743.87	3.49534	631272.53	4175723.88	3.20800
631272.85	4175703.89	3.01267	631273.16	4175683.90	2.79795
631273.48	4175663.91	2.62494	631273.79	4175643.92	2.52847
631274.11	4175623.94	2.44403	631274.43	4175603.95	2.27504
631274.74	4175583.96	2.05421	631275.06	4175563.97	1.71577
631275.37	4175543.98	1.57969	631285.68	4175509.06	1.59410
631295.68	4175494.14	1.55055	631305.67	4175479.21	1.52717
631315.67	4175464.28	1.55036	631325.66	4175449.35	1.52542
631335.66	4175434.43	1.68274	631358.67	4175426.77	1.71334
631371.70	4175434.03	1.55179	631402.59	4175441.45	1.15539
631420.46	4175441.60	1.15924	631438.33	4175441.76	1.36561
631456.19	4175441.91	1.61485	631474.06	4175442.06	2.02205
631491.93	4175428.58	2.14529	631474.21	4175414.65	1.98153
631456.50	4175414.35	1.71509	631438.78	4175414.05	1.81896
631421.06	4175413.74	1.71996	631403.35	4175413.44	1.85924
631372.00	4175404.51	1.73364	631371.09	4175381.11	1.52939
631383.81	4175366.34	1.38363	631396.53	4175351.58	1.18714
631425.06	4175326.73	0.97979	631440.87	4175316.64	0.95143
631456.68	4175306.56	0.93979	631472.49	4175296.47	0.97685
631488.30	4175286.39	1.15502	631504.11	4175276.30	1.07144
631519.92	4175266.22	1.04102	631535.73	4175256.13	0.99825
631551.54	4175246.05	0.97154	631579.95	4175222.15	1.15161
631592.55	4175208.34	1.10573	631605.15	4175194.53	1.10791
631617.74	4175180.72	1.04992	631630.34	4175166.91	0.96181
631642.94	4175153.10	0.93794	631655.54	4175139.29	0.91815
631668.14	4175125.47	0.89432	631680.74	4175111.66	0.87368
631693.34	4175097.85	0.85106	631705.94	4175084.04	0.82953
631718.53	4175070.23	0.80717	631731.13	4175056.42	0.78495
631743.73	4175042.61	0.76335	631773.29	4175020.32	0.73582
631790.26	4175011.84	0.73088	631822.21	4174999.50	0.72471
631837.20	4174995.64	0.72693	631852.19	4174991.77	0.72881
631866.84	4175007.53	0.77798	631866.50	4175027.14	0.83495
631866.16	4175046.76	0.91619	631865.83	4175066.37	0.98508
631865.49	4175085.99	1.05996	631865.15	4175105.60	1.13943
631864.81	4175125.22	1.22592	631864.47	4175144.83	1.31979
631864.13	4175164.45	1.42195	631863.80	4175184.06	1.53043
631863.46	4175203.68	1.64933	631863.12	4175223.29	1.78592

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.20370	631861.77	4175301.75	2.34569
631861.43	4175321.37	2.50781	631861.09	4175340.98	2.68034
631860.75	4175360.60	2.86160	631860.41	4175380.21	3.05612
631860.07	4175399.83	3.26071	631859.73	4175419.44	3.47599
631859.40	4175439.06	3.70385	631859.06	4175458.67	3.96304
631858.72	4175478.29	4.27251	631858.38	4175497.90	4.67668
631858.04	4175517.52	5.23009	631857.70	4175537.13	6.02681
631857.37	4175556.75	7.21284	631857.03	4175576.36	8.91343
631856.69	4175595.98	11.19747	631856.35	4175615.59	13.97329
631856.01	4175635.21	16.96507	631855.67	4175654.82	19.73901
631855.33	4175674.44	21.75658	631855.00	4175694.05	22.43100
631854.66	4175713.67	21.42462	631854.32	4175733.28	18.91433
631853.98	4175752.90	15.54347	631853.64	4175772.51	12.03989
631853.30	4175792.13	8.91072	631852.97	4175811.74	6.44370
631852.63	4175831.36	4.70283	631852.29	4175850.97	3.58688
631851.95	4175870.59	2.89223	631851.61	4175890.20	2.45499
631851.27	4175909.82	2.16582	631850.94	4175929.43	1.95678
631850.60	4175949.05	1.79562	631850.26	4175968.66	1.66694
631830.54	4175988.13	1.58536	631811.15	4175987.98	1.61737
631791.77	4175987.83	1.66598	631772.39	4175987.67	1.71523
631753.00	4175987.52	1.76193	631733.62	4175987.37	1.78726
631714.24	4175987.22	1.83588	631694.85	4175987.07	1.89261
631675.47	4175986.92	1.95484	631656.09	4175986.77	2.01957
631636.70	4175986.62	2.07428	631617.32	4175986.46	2.12128
631597.94	4175986.31	2.13655	631578.55	4175986.16	2.19236
631559.17	4175986.01	2.28362	631539.79	4175985.86	2.41126
631520.40	4175985.71	2.49208	631501.02	4175985.56	2.51795
631481.64	4175985.40	2.54356	631462.25	4175985.25	2.68161
631442.87	4175985.10	2.71887	631423.49	4175984.95	2.70190
631404.10	4175984.80	3.10300	631384.72	4175984.65	3.26635
631365.34	4175984.50	3.69852	631345.95	4175984.35	3.98550
631326.57	4175984.19	4.10311	631307.19	4175984.04	4.14668
631287.80	4175983.89	3.96764	631050.63	4175100.50	0.27023
631050.63	4175200.50	0.33366	631050.63	4175300.50	0.42208
631050.63	4175400.50	0.54335	631050.63	4175500.50	0.68428
631050.63	4175600.50	0.80748	631050.63	4175700.50	0.89464
631050.63	4175800.50	1.01867	631050.63	4175900.50	1.21499
631050.63	4176000.50	1.23295	631050.63	4176100.50	1.18209
631150.63	4175100.50	0.31463	631150.63	4175200.50	0.39936

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.98522	631150.63	4175600.50	1.23474
631150.63	4175700.50	1.53396	631150.63	4175800.50	1.76580
631150.63	4175900.50	1.88525	631150.63	4176000.50	1.75266
631150.63	4176100.50	1.51236	631250.63	4175100.50	0.36403
631250.63	4175200.50	0.47661	631250.63	4175300.50	0.65267
631250.63	4175400.50	0.92498	631250.63	4175500.50	1.63006
631250.63	4175600.50	1.94257	631250.63	4175700.50	2.76253
631250.63	4175800.50	3.77435	631250.63	4175900.50	3.81740
631250.63	4176000.50	2.38960	631250.63	4176100.50	1.73422
631350.63	4175100.50	0.40786	631350.63	4175200.50	0.55176
631350.63	4175300.50	0.80686	631350.63	4175400.50	1.66637
631350.63	4175500.50	1.35275	631350.63	4175600.50	3.18662
631350.63	4175700.50	10.24395	631350.63	4175800.50	7.44561
631350.63	4175900.50	3.55495	631350.63	4176000.50	3.66129
631350.63	4176100.50	1.69843	631450.63	4175100.50	0.46911
631450.63	4175200.50	0.65637	631450.63	4175300.50	0.89059
631450.63	4175400.50	1.73412	631450.63	4175500.50	1.67790
631450.63	4175600.50	4.78396	631450.63	4175700.50	65.13999
631450.63	4175800.50	7.64564	631450.63	4175900.50	2.25771
631450.63	4176000.50	2.49114	631450.63	4176100.50	1.53692
631550.63	4175100.50	0.59911	631550.63	4175200.50	0.91965
631550.63	4175300.50	0.98676	631550.63	4175400.50	1.70960
631550.63	4175500.50	2.62807	631550.63	4175600.50	7.81465
631550.63	4175700.50	146.82767	631550.63	4175800.50	4.47385
631550.63	4175900.50	1.85558	631550.63	4176000.50	2.14904
631550.63	4176100.50	1.41674	631650.63	4175100.50	0.77931
631650.63	4175200.50	1.26184	631650.63	4175300.50	1.75947
631650.63	4175400.50	3.22956	631650.63	4175500.50	7.53363
631650.63	4175600.50	18.45194	631650.63	4175700.50	85.79629
631650.63	4175800.50	6.60991	631650.63	4175900.50	2.83682
631650.63	4176000.50	1.96491	631650.63	4176100.50	1.31090
631750.63	4175100.50	0.96984	631750.63	4175200.50	1.53241
631750.63	4175300.50	2.31596	631750.63	4175400.50	3.79918
631750.63	4175500.50	5.92758	631750.63	4175600.50	12.54322
631750.63	4175700.50	40.42683	631750.63	4175800.50	6.52367
631750.63	4175900.50	2.42433	631750.63	4176000.50	1.68846
631750.63	4176100.50	1.22683	631850.63	4175100.50	1.10663
631850.63	4175200.50	1.63145	631850.63	4175300.50	2.35299
631850.63	4175400.50	3.32401	631850.63	4175500.50	4.79572

631850.63 4175600.50 11.89228 631850.63 4175700.50 22.78747

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	7.75803	631850.63	4175900.50	2.28972
631850.63	4176000.50	1.50001	631850.63	4176100.50	1.15758
631950.63	4175100.50	1.14371	631950.63	4175200.50	1.57409
631950.63	4175300.50	2.10420	631950.63	4175400.50	2.76615
631950.63	4175500.50	4.33219	631950.63	4175600.50	9.90588
631950.63	4175700.50	14.14813	631950.63	4175800.50	7.39905
631950.63	4175900.50	2.47236	631950.63	4176000.50	1.45583
631950.63	4176100.50	1.10628	632050.63	4175100.50	1.09638
632050.63	4175200.50	1.42287	632050.63	4175300.50	1.81124
632050.63	4175400.50	2.43097	632050.63	4175500.50	3.98526
632050.63	4175600.50	7.61613	632050.63	4175700.50	9.32629
632050.63	4175800.50	6.18166	632050.63	4175900.50	2.62433
632050.63	4176000.50	1.49704	632050.63	4176100.50	1.08017

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.91921	632304.44	4174354.52	0.22966
632192.15	4174956.32	0.88472	632420.62	4175510.15	2.67702
632418.97	4175552.92	2.71398	631187.00	4175727.00	2.72908
631166.00	4175729.00	2.50203	631121.00	4175719.00	1.68984
631035.00	4174830.00	0.18210	631106.00	4174825.00	0.19758
631937.00	4174528.00	0.26322	631322.00	4174522.00	0.11665
629800.63	4173850.44	0.01891	630150.63	4173850.44	0.02275
630500.63	4173850.44	0.03067	630850.63	4173850.44	0.04632
631200.63	4173850.44	0.04450	631550.63	4173850.44	0.05631
631900.63	4173850.44	0.07309	632250.63	4173850.44	0.09418

632600.63	4173850.44	0.11799	632950.63	4173850.44	0.13239
633300.63	4173850.44	0.12630	629800.63	4174200.44	0.02733
630150.63	4174200.44	0.03528	630500.63	4174200.44	0.05172
630850.63	4174200.44	0.06691	631200.63	4174200.44	0.07118
631550.63	4174200.44	0.09120	631900.63	4174200.44	0.13791
632250.63	4174200.44	0.16434	632600.63	4174200.44	0.19646
632950.63	4174200.44	0.18513	633300.63	4174200.44	0.16877
629800.63	4174550.44	0.04800	630150.63	4174550.44	0.05825
630500.63	4174550.44	0.07699	630850.63	4174550.44	0.10152
631200.63	4174550.44	0.13254	631550.63	4174550.44	0.16186
631900.63	4174550.44	0.27158	632250.63	4174550.44	0.34021
632600.63	4174550.44	0.31601	632950.63	4174550.44	0.27728
633300.63	4174550.44	0.25953	629800.63	4174900.44	0.05984
630150.63	4174900.44	0.07862	630500.63	4174900.44	0.11887
630850.63	4174900.44	0.16419	631200.63	4174900.44	0.25694
631550.63	4174900.44	0.40879	631900.63	4174900.44	0.74871
632250.63	4174900.44	0.74397	632600.63	4174900.44	0.58494
632950.63	4174900.44	0.48770	633300.63	4174900.44	0.40231
629800.63	4175250.44	0.06924	630150.63	4175250.44	0.10708
630500.63	4175250.44	0.18300	630850.63	4175250.44	0.31099
631200.63	4175250.44	0.64579	631550.63	4175250.44	1.63605
631900.63	4175250.44	2.71521	632250.63	4175250.44	1.67741
632600.63	4175250.44	1.17248	632950.63	4175250.44	0.80888
633300.63	4175250.44	0.58930	629800.63	4175600.44	0.08497
630150.63	4175600.44	0.12550	630500.63	4175600.44	0.21238
630850.63	4175600.44	0.45023	631200.63	4175600.44	1.75049
631550.63	4175600.44	139.78118	631900.63	4175600.44	17.33719
632250.63	4175600.44	4.43571	632600.63	4175600.44	1.72416
632950.63	4175600.44	0.97453	633300.63	4175600.44	0.67589
629800.63	4175950.44	0.09771	630150.63	4175950.44	0.14723

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.29301	630850.63	4175950.44	0.71132
631200.63	4175950.44	2.12685	631550.63	4175950.44	1.50024
631900.63	4175950.44	1.21177	632250.63	4175950.44	1.24015
632600.63	4175950.44	1.00989	632950.63	4175950.44	0.73161
633300.63	4175950.44	0.54473	629800.63	4176300.44	0.11911
630150.63	4176300.44	0.19995	630500.63	4176300.44	0.37202
630850.63	4176300.44	0.68830	631200.63	4176300.44	0.85308
631550.63	4176300.44	0.72157	631900.63	4176300.44	0.64371
632250.63	4176300.44	0.58506	632600.63	4176300.44	0.50347
632950.63	4176300.44	0.43813	633300.63	4176300.44	0.36526

629800.63	4176650.44	0.13957	630150.63	4176650.44	0.22147
630500.63	4176650.44	0.34461	630850.63	4176650.44	0.47162
631200.63	4176650.44	0.51453	631550.63	4176650.44	0.46447
631900.63	4176650.44	0.41158	632250.63	4176650.44	0.39745
632600.63	4176650.44	0.34060	632950.63	4176650.44	0.28214
633300.63	4176650.44	0.24539	629800.63	4177000.44	0.14439
630150.63	4177000.44	0.20088	630500.63	4177000.44	0.27077
630850.63	4177000.44	0.31642	631200.63	4177000.44	0.36552
631550.63	4177000.44	0.32959	631900.63	4177000.44	0.29950
632250.63	4177000.44	0.26990	632600.63	4177000.44	0.25165
632950.63	4177000.44	0.21550	633300.63	4177000.44	0.18490
629800.63	4177350.44	0.13396	630150.63	4177350.44	0.16834
630500.63	4177350.44	0.19799	630850.63	4177350.44	0.22557
631200.63	4177350.44	0.25584	631550.63	4177350.44	0.23914
631900.63	4177350.44	0.22651	632250.63	4177350.44	0.18985
632600.63	4177350.44	0.19069	632950.63	4177350.44	0.16909
633300.63	4177350.44	0.14929	631670.70	4175493.59	13.38366
631669.80	4175641.41	20.33171	631665.32	4175796.39	2.80039
631417.17	4175826.85	3.99250	631417.17	4175673.66	18.87437
631422.55	4175484.63	2.06919	631268.42	4175983.74	2.38209
631275.69	4175523.99	2.60137	631345.65	4175419.50	2.74862
631384.72	4175441.30	1.41103	631491.93	4175442.21	4.22257
631491.93	4175414.95	3.92796	631385.63	4175413.14	2.73777
631358.37	4175395.87	2.56825	631409.25	4175336.81	1.77081
631567.35	4175235.96	1.61720	631756.33	4175028.80	1.03405
631807.22	4175003.36	1.00718	631867.18	4174987.91	1.02149
631849.92	4175988.28	1.15304	631268.74	4175963.75	3.49476
631269.05	4175943.76	3.41343	631269.37	4175923.77	3.27516
631269.68	4175903.78	3.34950	631270.00	4175883.79	3.58801
631270.32	4175863.81	3.94210	631270.63	4175843.82	4.34536

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	4.71636	631271.26	4175803.84	4.94882
631271.58	4175783.85	5.08136	631271.90	4175763.86	5.14816
631272.21	4175743.87	5.01817	631272.53	4175723.88	4.63958
631272.85	4175703.89	4.10608	631273.16	4175683.90	3.96321
631273.48	4175663.91	4.93281	631273.79	4175643.92	6.25343
631274.11	4175623.94	5.32401	631274.43	4175603.95	3.29240
631274.74	4175583.96	2.62393	631275.06	4175563.97	2.41289
631275.37	4175543.98	2.43305	631285.68	4175509.06	2.68934
631295.68	4175494.14	2.68745	631305.67	4175479.21	2.63333
631315.67	4175464.28	2.50397	631325.66	4175449.35	2.46538

631335.66	4175434.43	2.59592	631358.67	4175426.77	2.59979
631371.70	4175434.03	2.10066	631402.59	4175441.45	1.44071
631420.46	4175441.60	1.55412	631438.33	4175441.76	1.71721
631456.19	4175441.91	2.68610	631474.06	4175442.06	3.75762
631491.93	4175428.58	4.22775	631474.21	4175414.65	3.49432
631456.50	4175414.35	3.12584	631438.78	4175414.05	3.01588
631421.06	4175413.74	2.60858	631403.35	4175413.44	2.58241
631372.00	4175404.51	2.75996	631371.09	4175381.11	2.35996
631383.81	4175366.34	2.16803	631396.53	4175351.58	1.99065
631425.06	4175326.73	1.68377	631440.87	4175316.64	1.58946
631456.68	4175306.56	1.57270	631472.49	4175296.47	1.55897
631488.30	4175286.39	1.80590	631504.11	4175276.30	1.67033
631519.92	4175266.22	1.65350	631535.73	4175256.13	1.62131
631551.54	4175246.05	1.60653	631579.95	4175222.15	1.59718
631592.55	4175208.34	1.52316	631605.15	4175194.53	1.49530
631617.74	4175180.72	1.43942	631630.34	4175166.91	1.40328
631642.94	4175153.10	1.36220	631655.54	4175139.29	1.32722
631668.14	4175125.47	1.28760	631680.74	4175111.66	1.25199
631693.34	4175097.85	1.21418	631705.94	4175084.04	1.17804
631718.53	4175070.23	1.14131	631731.13	4175056.42	1.10520
631743.73	4175042.61	1.07019	631773.29	4175020.32	1.02787
631790.26	4175011.84	1.01869	631822.21	4174999.50	1.01149
631837.20	4174995.64	1.01590	631852.19	4174991.77	1.01924
631866.84	4175007.53	1.07880	631866.50	4175027.14	1.18963
631866.16	4175046.76	1.29439	631865.83	4175066.37	1.40686
631865.49	4175085.99	1.52752	631865.15	4175105.60	1.65519
631864.81	4175125.22	1.79305	631864.47	4175144.83	1.94125
631864.13	4175164.45	2.10064	631863.80	4175184.06	2.26613
631863.46	4175203.68	2.43711	631863.12	4175223.29	2.61579
631862.78	4175242.91	2.80442	631862.44	4175262.52	2.99995

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	3.20434	631861.77	4175301.75	3.41245
631861.43	4175321.37	3.63316	631861.09	4175340.98	3.86680
631860.75	4175360.60	4.11933	631860.41	4175380.21	4.41211
631860.07	4175399.83	4.77339	631859.73	4175419.44	5.27090
631859.40	4175439.06	6.03678	631859.06	4175458.67	7.27639
631858.72	4175478.29	9.21382	631858.38	4175497.90	11.92605
631858.04	4175517.52	15.16144	631857.70	4175537.13	18.36695
631857.37	4175556.75	20.88595	631857.03	4175576.36	22.16514
631856.69	4175595.98	21.83186	631856.35	4175615.59	19.80395
631856.01	4175635.21	16.52977	631855.67	4175654.82	12.86958

631855.33	4175674.44	9.59481	631855.00	4175694.05	7.05454
631854.66	4175713.67	5.24768	631854.32	4175733.28	4.02923
631853.98	4175752.90	3.22949	631853.64	4175772.51	2.69935
631853.30	4175792.13	2.33519	631852.97	4175811.74	2.06651
631852.63	4175831.36	1.86513	631852.29	4175850.97	1.71068
631851.95	4175870.59	1.58718	631851.61	4175890.20	1.48751
631851.27	4175909.82	1.40561	631850.94	4175929.43	1.33682
631850.60	4175949.05	1.27158	631850.26	4175968.66	1.20962
631830.54	4175988.13	1.17387	631811.15	4175987.98	1.19674
631791.77	4175987.83	1.22476	631772.39	4175987.67	1.25433
631753.00	4175987.52	1.28977	631733.62	4175987.37	1.27371
631714.24	4175987.22	1.30638	631694.85	4175987.07	1.34477
631675.47	4175986.92	1.39537	631656.09	4175986.77	1.43104
631636.70	4175986.62	1.49779	631617.32	4175986.46	1.52415
631597.94	4175986.31	1.56231	631578.55	4175986.16	1.57172
631559.17	4175986.01	1.58607	631539.79	4175985.86	1.61465
631520.40	4175985.71	1.64469	631501.02	4175985.56	1.68952
631481.64	4175985.40	1.79737	631462.25	4175985.25	1.94919
631442.87	4175985.10	2.09942	631423.49	4175984.95	2.26034
631404.10	4175984.80	2.48011	631384.72	4175984.65	2.69201
631365.34	4175984.50	2.82345	631345.95	4175984.35	2.97028
631326.57	4175984.19	3.15278	631307.19	4175984.04	3.22910
631287.80	4175983.89	3.06598	631050.63	4175100.50	0.31643
631050.63	4175200.50	0.40169	631050.63	4175300.50	0.51461
631050.63	4175400.50	0.65144	631050.63	4175500.50	0.78481
631050.63	4175600.50	0.87418	631050.63	4175700.50	0.95631
631050.63	4175800.50	1.21850	631050.63	4175900.50	1.30389
631050.63	4176000.50	1.26627	631050.63	4176100.50	1.15811
631150.63	4175100.50	0.37672	631150.63	4175200.50	0.49291
631150.63	4175300.50	0.66897	631150.63	4175400.50	0.90553

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.18183	631150.63	4175600.50	1.48271
631150.63	4175700.50	1.95889	631150.63	4175800.50	2.30448
631150.63	4175900.50	1.93136	631150.63	4176000.50	1.66657
631150.63	4176100.50	1.34100	631250.63	4175100.50	0.45681
631250.63	4175200.50	0.61865	631250.63	4175300.50	0.87973
631250.63	4175400.50	1.29808	631250.63	4175500.50	2.35154
631250.63	4175600.50	2.34468	631250.63	4175700.50	3.39351
631250.63	4175800.50	4.31849	631250.63	4175900.50	3.44166
631250.63	4176000.50	1.99588	631250.63	4176100.50	1.40687
631350.63	4175100.50	0.54512	631350.63	4175200.50	0.78218

631350.63	4175300.50	1.18780	631350.63	4175400.50	2.58864
631350.63	4175500.50	1.99378	631350.63	4175600.50	10.84743
631350.63	4175700.50	9.92534	631350.63	4175800.50	6.80231
631350.63	4175900.50	2.96263	631350.63	4176000.50	2.77559
631350.63	4176100.50	1.38254	631450.63	4175100.50	0.64106
631450.63	4175200.50	0.96157	631450.63	4175300.50	1.49677
631450.63	4175400.50	3.04116	631450.63	4175500.50	2.45767
631450.63	4175600.50	66.62763	631450.63	4175700.50	13.43166
631450.63	4175800.50	3.91139	631450.63	4175900.50	1.62101
631450.63	4176000.50	1.93299	631450.63	4176100.50	1.26131
631550.63	4175100.50	0.81405	631550.63	4175200.50	1.24898
631550.63	4175300.50	1.88128	631550.63	4175400.50	4.04602
631550.63	4175500.50	12.87399	631550.63	4175600.50	139.65945
631550.63	4175700.50	4.59282	631550.63	4175800.50	1.37157
631550.63	4175900.50	1.12201	631550.63	4176000.50	1.48906
631550.63	4176100.50	1.07298	631650.63	4175100.50	1.07674
631650.63	4175200.50	1.80034	631650.63	4175300.50	3.26287
631650.63	4175400.50	6.98167	631650.63	4175500.50	15.80599
631650.63	4175600.50	82.13879	631650.63	4175700.50	5.86950
631650.63	4175800.50	2.56872	631650.63	4175900.50	1.66468
631650.63	4176000.50	1.42946	631650.63	4176100.50	1.01341
631750.63	4175100.50	1.39504	631750.63	4175200.50	2.33065
631750.63	4175300.50	3.92824	631750.63	4175400.50	6.34279
631750.63	4175500.50	12.89633	631750.63	4175600.50	39.22214
631750.63	4175700.50	5.48103	631750.63	4175800.50	2.40313
631750.63	4175900.50	1.61751	631750.63	4176000.50	1.23641
631750.63	4176100.50	0.95860	631850.63	4175100.50	1.61025
631850.63	4175200.50	2.43007	631850.63	4175300.50	3.47570
631850.63	4175400.50	4.88153	631850.63	4175500.50	12.43115
631850.63	4175600.50	22.17321	631850.63	4175700.50	6.37104

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.20986	631850.63	4175900.50	1.44499
631850.63	4176000.50	1.11962	631850.63	4176100.50	0.90616
631950.63	4175100.50	1.58748	631950.63	4175200.50	2.16803
631950.63	4175300.50	2.86149	631950.63	4175400.50	4.20416
631950.63	4175500.50	10.52894	631950.63	4175600.50	13.82879
631950.63	4175700.50	6.21569	631950.63	4175800.50	2.36241
631950.63	4175900.50	1.38350	631950.63	4176000.50	1.04903
631950.63	4176100.50	0.86731	632050.63	4175100.50	1.44683
632050.63	4175200.50	1.86597	632050.63	4175300.50	2.44512
632050.63	4175400.50	3.87565	632050.63	4175500.50	8.10026

632050.63	4175600.50	9.13885	632050.63	4175700.50	5.35016
632050.63	4175800.50	2.49983	632050.63	4175900.50	1.42994
632050.63	4176000.50	1.02376	632050.63	4176100.50	0.83564

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.20056	632304.44	4174354.52	0.28214
632192.15	4174956.32	1.14861	632420.62	4175510.15	2.70587
632418.97	4175552.92	2.57356	631187.00	4175727.00	2.01959
631166.00	4175729.00	1.76239	631121.00	4175719.00	1.58073
631035.00	4174830.00	0.21851	631106.00	4174825.00	0.24124
631937.00	4174528.00	0.33851	631322.00	4174522.00	0.14509
629800.63	4173850.44	0.02024	630150.63	4173850.44	0.02530
630500.63	4173850.44	0.03518	630850.63	4173850.44	0.05325
631200.63	4173850.44	0.05054	631550.63	4173850.44	0.06271
631900.63	4173850.44	0.08365	632250.63	4173850.44	0.10840
632600.63	4173850.44	0.13590	632950.63	4173850.44	0.14619
633300.63	4173850.44	0.13596	629800.63	4174200.44	0.02902
630150.63	4174200.44	0.03862	630500.63	4174200.44	0.05743
630850.63	4174200.44	0.07640	631200.63	4174200.44	0.08400
631550.63	4174200.44	0.10575	631900.63	4174200.44	0.16593
632250.63	4174200.44	0.20013	632600.63	4174200.44	0.22633
632950.63	4174200.44	0.20428	633300.63	4174200.44	0.19345
629800.63	4174550.44	0.05049	630150.63	4174550.44	0.06367
630500.63	4174550.44	0.08591	630850.63	4174550.44	0.11588
631200.63	4174550.44	0.16065	631550.63	4174550.44	0.20072
631900.63	4174550.44	0.35112	632250.63	4174550.44	0.42242
632600.63	4174550.44	0.36599	632950.63	4174550.44	0.33370
633300.63	4174550.44	0.29568	629800.63	4174900.44	0.06255
630150.63	4174900.44	0.08460	630500.63	4174900.44	0.13087
630850.63	4174900.44	0.19212	631200.63	4174900.44	0.32627
631550.63	4174900.44	0.56515	631900.63	4174900.44	1.09568
632250.63	4174900.44	0.94678	632600.63	4174900.44	0.74558
632950.63	4174900.44	0.57962	633300.63	4174900.44	0.45859
629800.63	4175250.44	0.07375	630150.63	4175250.44	0.11390
630500.63	4175250.44	0.19044	630850.63	4175250.44	0.34867
631200.63	4175250.44	0.86507	631550.63	4175250.44	2.89711
631900.63	4175250.44	4.17870	632250.63	4175250.44	2.66386
632600.63	4175250.44	1.45766	632950.63	4175250.44	0.89992
633300.63	4175250.44	0.63467	629800.63	4175600.44	0.08632
630150.63	4175600.44	0.12932	630500.63	4175600.44	0.22264
630850.63	4175600.44	0.47308	631200.63	4175600.44	1.69436
631550.63	4175600.44	3.17746	631900.63	4175600.44	6.01940

632250.63	4175600.44	3.40157	632600.63	4175600.44	1.59742
632950.63	4175600.44	0.94013	633300.63	4175600.44	0.65894
629800.63	4175950.44	0.10160	630150.63	4175950.44	0.15498

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.28497	630850.63	4175950.44	0.64185
631200.63	4175950.44	1.85528	631550.63	4175950.44	1.07914
631900.63	4175950.44	1.08522	632250.63	4175950.44	0.88366
632600.63	4175950.44	0.80443	632950.63	4175950.44	0.63025
633300.63	4175950.44	0.48849	629800.63	4176300.44	0.12500
630150.63	4176300.44	0.19719	630500.63	4176300.44	0.35847
630850.63	4176300.44	0.66388	631200.63	4176300.44	0.75603
631550.63	4176300.44	0.62068	631900.63	4176300.44	0.54873
632250.63	4176300.44	0.52751	632600.63	4176300.44	0.42833
632950.63	4176300.44	0.37726	633300.63	4176300.44	0.32487
629800.63	4176650.44	0.13933	630150.63	4176650.44	0.21772
630500.63	4176650.44	0.33744	630850.63	4176650.44	0.44228
631200.63	4176650.44	0.49362	631550.63	4176650.44	0.42184
631900.63	4176650.44	0.37379	632250.63	4176650.44	0.36841
632600.63	4176650.44	0.32278	632950.63	4176650.44	0.25449
633300.63	4176650.44	0.22116	629800.63	4177000.44	0.14250
630150.63	4177000.44	0.19572	630500.63	4177000.44	0.25990
630850.63	4177000.44	0.29783	631200.63	4177000.44	0.34716
631550.63	4177000.44	0.30591	631900.63	4177000.44	0.27885
632250.63	4177000.44	0.24935	632600.63	4177000.44	0.24905
632950.63	4177000.44	0.20973	633300.63	4177000.44	0.17115
629800.63	4177350.44	0.13051	630150.63	4177350.44	0.16234
630500.63	4177350.44	0.18909	630850.63	4177350.44	0.21471
631200.63	4177350.44	0.24145	631550.63	4177350.44	0.22423
631900.63	4177350.44	0.21192	632250.63	4177350.44	0.18280
632600.63	4177350.44	0.18428	632950.63	4177350.44	0.17038
633300.63	4177350.44	0.14566	631670.70	4175493.59	71.63607
631669.80	4175641.41	3.03882	631665.32	4175796.39	1.49756
631417.17	4175826.85	1.86758	631417.17	4175673.66	5.78565
631422.55	4175484.63	4.55598	631268.42	4175983.74	1.86210
631275.69	4175523.99	2.83157	631345.65	4175419.50	3.51226
631384.72	4175441.30	2.41048	631491.93	4175442.21	8.25598
631491.93	4175414.95	7.49232	631385.63	4175413.14	3.90246
631358.37	4175395.87	4.07834	631409.25	4175336.81	3.68591
631567.35	4175235.96	2.93081	631756.33	4175028.80	1.63194
631807.22	4175003.36	1.54557	631867.18	4174987.91	1.51319
631849.92	4175988.28	1.04503	631268.74	4175963.75	2.51182

631269.05	4175943.76	2.39219	631269.37	4175923.77	2.45525
631269.68	4175903.78	2.55719	631270.00	4175883.79	2.73401
631270.32	4175863.81	2.91824	631270.63	4175843.82	3.08729

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	3.25878	631271.26	4175803.84	3.42698
631271.58	4175783.85	3.61419	631271.90	4175763.86	3.85196
631272.21	4175743.87	4.09941	631272.53	4175723.88	4.26300
631272.85	4175703.89	4.18004	631273.16	4175683.90	3.67355
631273.48	4175663.91	2.85832	631273.79	4175643.92	2.45194
631274.11	4175623.94	2.54160	631274.43	4175603.95	2.60102
631274.74	4175583.96	2.56896	631275.06	4175563.97	2.53967
631275.37	4175543.98	2.63902	631285.68	4175509.06	2.99043
631295.68	4175494.14	3.26665	631305.67	4175479.21	3.53996
631315.67	4175464.28	3.38511	631325.66	4175449.35	2.86940
631335.66	4175434.43	3.41854	631358.67	4175426.77	3.15796
631371.70	4175434.03	2.50512	631402.59	4175441.45	2.96404
631420.46	4175441.60	3.57700	631438.33	4175441.76	4.55851
631456.19	4175441.91	7.07324	631474.06	4175442.06	7.97460
631491.93	4175428.58	9.06021	631474.21	4175414.65	7.02622
631456.50	4175414.35	6.72833	631438.78	4175414.05	6.46505
631421.06	4175413.74	5.90766	631403.35	4175413.44	4.66391
631372.00	4175404.51	3.79149	631371.09	4175381.11	4.00996
631383.81	4175366.34	3.96533	631396.53	4175351.58	3.80593
631425.06	4175326.73	3.58628	631440.87	4175316.64	3.34897
631456.68	4175306.56	3.04661	631472.49	4175296.47	2.81209
631488.30	4175286.39	3.12753	631504.11	4175276.30	2.95393
631519.92	4175266.22	2.86904	631535.73	4175256.13	2.83314
631551.54	4175246.05	2.91575	631579.95	4175222.15	2.96474
631592.55	4175208.34	2.82760	631605.15	4175194.53	2.74306
631617.74	4175180.72	2.62726	631630.34	4175166.91	2.53701
631642.94	4175153.10	2.43602	631655.54	4175139.29	2.34353
631668.14	4175125.47	2.24355	631680.74	4175111.66	2.15009
631693.34	4175097.85	2.05420	631705.94	4175084.04	1.96438
631718.53	4175070.23	1.87597	631731.13	4175056.42	1.79125
631743.73	4175042.61	1.71104	631773.29	4175020.32	1.60685
631790.26	4175011.84	1.57881	631822.21	4174999.50	1.54006
631837.20	4174995.64	1.53343	631852.19	4174991.77	1.52443
631866.84	4175007.53	1.63440	631866.50	4175027.14	1.77403
631866.16	4175046.76	1.93634	631865.83	4175066.37	2.10811
631865.49	4175085.99	2.29367	631865.15	4175105.60	2.49037
631864.81	4175125.22	2.69985	631864.47	4175144.83	2.92268

631864.13	4175164.45	3.15715	631863.80	4175184.06	3.40699
631863.46	4175203.68	3.67487	631863.12	4175223.29	3.96614
631862.78	4175242.91	4.29234	631862.44	4175262.52	4.67223

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	5.13909	631861.77	4175301.75	5.73826
631861.43	4175321.37	6.52768	631861.09	4175340.98	7.58657
631860.75	4175360.60	9.00517	631860.41	4175380.21	10.82900
631860.07	4175399.83	13.06952	631859.73	4175419.44	15.64258
631859.40	4175439.06	18.30290	631859.06	4175458.67	20.61306
631858.72	4175478.29	21.94104	631858.38	4175497.90	21.62306
631858.04	4175517.52	19.42206	631857.70	4175537.13	15.87878
631857.37	4175556.75	12.04145	631857.03	4175576.36	8.77830
631856.69	4175595.98	6.39431	631856.35	4175615.59	4.77961
631856.01	4175635.21	3.72020	631855.67	4175654.82	3.02932
631855.33	4175674.44	2.57421	631855.00	4175694.05	2.26351
631854.66	4175713.67	2.03849	631854.32	4175733.28	1.86891
631853.98	4175752.90	1.73512	631853.64	4175772.51	1.62587
631853.30	4175792.13	1.53461	631852.97	4175811.74	1.45685
631852.63	4175831.36	1.38876	631852.29	4175850.97	1.33432
631851.95	4175870.59	1.28154	631851.61	4175890.20	1.23406
631851.27	4175909.82	1.34383	631850.94	4175929.43	1.28881
631850.60	4175949.05	1.22220	631850.26	4175968.66	1.10798
631830.54	4175988.13	1.06380	631811.15	4175987.98	1.08325
631791.77	4175987.83	1.12945	631772.39	4175987.67	1.26577
631753.00	4175987.52	1.39510	631733.62	4175987.37	1.37968
631714.24	4175987.22	1.36211	631694.85	4175987.07	1.38190
631675.47	4175986.92	1.39917	631656.09	4175986.77	1.34725
631636.70	4175986.62	1.35041	631617.32	4175986.46	1.34632
631597.94	4175986.31	1.31362	631578.55	4175986.16	1.26890
631559.17	4175986.01	1.22237	631539.79	4175985.86	1.22857
631520.40	4175985.71	1.24458	631501.02	4175985.56	1.30185
631481.64	4175985.40	1.40296	631462.25	4175985.25	1.53943
631442.87	4175985.10	1.70323	631423.49	4175984.95	1.90011
631404.10	4175984.80	2.01034	631384.72	4175984.65	2.07609
631365.34	4175984.50	2.18407	631345.95	4175984.35	2.21844
631326.57	4175984.19	2.30587	631307.19	4175984.04	2.29114
631287.80	4175983.89	2.26364	631050.63	4175100.50	0.39207
631050.63	4175200.50	0.49310	631050.63	4175300.50	0.61578
631050.63	4175400.50	0.76484	631050.63	4175500.50	0.87102
631050.63	4175600.50	0.89637	631050.63	4175700.50	0.94527
631050.63	4175800.50	1.07550	631050.63	4175900.50	1.24229

631050.63	4176000.50	1.21772	631050.63	4176100.50	1.06622
631150.63	4175100.50	0.48425	631150.63	4175200.50	0.63922
631150.63	4175300.50	0.85516	631150.63	4175400.50	1.11552

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.42787	631150.63	4175600.50	1.38725
631150.63	4175700.50	1.49303	631150.63	4175800.50	2.60874
631150.63	4175900.50	1.88687	631150.63	4176000.50	1.47445
631150.63	4176100.50	1.14663	631250.63	4175100.50	0.61549
631250.63	4175200.50	0.85660	631250.63	4175300.50	1.22836
631250.63	4175400.50	1.88421	631250.63	4175500.50	2.53898
631250.63	4175600.50	2.17327	631250.63	4175700.50	3.25028
631250.63	4175800.50	3.27925	631250.63	4175900.50	2.64968
631250.63	4176000.50	1.61552	631250.63	4176100.50	1.16815
631350.63	4175100.50	0.77485	631350.63	4175200.50	1.16146
631350.63	4175300.50	2.13219	631350.63	4175400.50	3.91341
631350.63	4175500.50	3.12521	631350.63	4175600.50	4.07118
631350.63	4175700.50	5.37153	631350.63	4175800.50	3.15019
631350.63	4175900.50	1.89622	631350.63	4176000.50	2.10780
631350.63	4176100.50	1.19023	631450.63	4175100.50	0.93556
631450.63	4175200.50	1.49969	631450.63	4175300.50	2.98323
631450.63	4175400.50	6.00740	631450.63	4175500.50	6.18652
631450.63	4175600.50	11.85646	631450.63	4175700.50	3.62968
631450.63	4175800.50	1.60076	631450.63	4175900.50	1.21710
631450.63	4176000.50	1.55680	631450.63	4176100.50	1.05340
631550.63	4175100.50	1.25855	631550.63	4175200.50	2.16937
631550.63	4175300.50	3.66330	631550.63	4175400.50	10.02462
631550.63	4175500.50	66.10940	631550.63	4175600.50	3.17641
631550.63	4175700.50	1.79277	631550.63	4175800.50	1.01708
631550.63	4175900.50	0.74601	631550.63	4176000.50	1.20607
631550.63	4176100.50	0.87529	631650.63	4175100.50	1.85178
631650.63	4175200.50	3.42990	631650.63	4175300.50	7.37094
631650.63	4175400.50	17.72986	631650.63	4175500.50	79.87091
631650.63	4175600.50	5.24214	631650.63	4175700.50	2.30911
631650.63	4175800.50	1.41406	631650.63	4175900.50	0.92884
631650.63	4176000.50	1.38913	631650.63	4176100.50	0.85977
631750.63	4175100.50	2.32352	631750.63	4175200.50	4.09474
631750.63	4175300.50	7.03156	631750.63	4175400.50	15.92215
631750.63	4175500.50	38.97584	631750.63	4175600.50	5.28340
631750.63	4175700.50	2.44387	631750.63	4175800.50	1.60742
631750.63	4175900.50	1.11607	631750.63	4176000.50	1.24795
631750.63	4176100.50	0.81190	631850.63	4175100.50	2.45968

631850.63	4175200.50	3.70125	631850.63	4175300.50	5.77388
631850.63	4175400.50	13.44074	631850.63	4175500.50	22.27699
631850.63	4175600.50	5.94090	631850.63	4175700.50	2.18639

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	1.50468	631850.63	4175900.50	1.27941
631850.63	4176000.50	1.00983	631850.63	4176100.50	0.78869
631950.63	4175100.50	2.24547	631950.63	4175200.50	3.17568
631950.63	4175300.50	5.17282	631950.63	4175400.50	10.37834
631950.63	4175500.50	14.01776	631950.63	4175600.50	5.88603
631950.63	4175700.50	2.23275	631950.63	4175800.50	1.39870
631950.63	4175900.50	1.12896	631950.63	4176000.50	0.92733
631950.63	4176100.50	0.76713	632050.63	4175100.50	1.99925
632050.63	4175200.50	2.81541	632050.63	4175300.50	4.54900
632050.63	4175400.50	7.70600	632050.63	4175500.50	9.32584
632050.63	4175600.50	5.17604	632050.63	4175700.50	2.35285
632050.63	4175800.50	1.40549	632050.63	4175900.50	1.03238
632050.63	4176000.50	0.85745	632050.63	4176100.50	0.72985

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.29634	632304.44	4174354.52	0.25506
632192.15	4174956.32	1.25056	632420.62	4175510.15	2.24258
632418.97	4175552.92	2.23466	631187.00	4175727.00	1.49426
631166.00	4175729.00	1.36986	631121.00	4175719.00	1.14202
631035.00	4174830.00	0.19580	631106.00	4174825.00	0.21462

631937.00	4174528.00	0.30550	631322.00	4174522.00	0.11350
629800.63	4173850.44	0.02040	630150.63	4173850.44	0.02190
630500.63	4173850.44	0.02735	630850.63	4173850.44	0.04422
631200.63	4173850.44	0.04087	631550.63	4173850.44	0.05725
631900.63	4173850.44	0.06583	632250.63	4173850.44	0.09884
632600.63	4173850.44	0.12445	632950.63	4173850.44	0.13856
633300.63	4173850.44	0.13471	629800.63	4174200.44	0.02859
630150.63	4174200.44	0.03549	630500.63	4174200.44	0.05051
630850.63	4174200.44	0.06026	631200.63	4174200.44	0.06614
631550.63	4174200.44	0.09854	631900.63	4174200.44	0.14164
632250.63	4174200.44	0.18249	632600.63	4174200.44	0.20901
632950.63	4174200.44	0.20261	633300.63	4174200.44	0.18670
629800.63	4174550.44	0.04793	630150.63	4174550.44	0.05733
630500.63	4174550.44	0.07844	630850.63	4174550.44	0.10203
631200.63	4174550.44	0.14306	631550.63	4174550.44	0.17960
631900.63	4174550.44	0.31295	632250.63	4174550.44	0.38557
632600.63	4174550.44	0.36350	632950.63	4174550.44	0.32414
633300.63	4174550.44	0.28760	629800.63	4174900.44	0.05603
630150.63	4174900.44	0.07196	630500.63	4174900.44	0.11396
630850.63	4174900.44	0.17337	631200.63	4174900.44	0.29508
631550.63	4174900.44	0.59432	631900.63	4174900.44	1.07989
632250.63	4174900.44	0.98500	632600.63	4174900.44	0.74427
632950.63	4174900.44	0.57800	633300.63	4174900.44	0.46062
629800.63	4175250.44	0.06616	630150.63	4175250.44	0.09881
630500.63	4175250.44	0.15883	630850.63	4175250.44	0.27559
631200.63	4175250.44	0.78621	631550.63	4175250.44	15.64296
631900.63	4175250.44	17.24381	632250.63	4175250.44	2.84595
632600.63	4175250.44	1.44235	632950.63	4175250.44	0.92330
633300.63	4175250.44	0.65660	629800.63	4175600.44	0.08074
630150.63	4175600.44	0.11574	630500.63	4175600.44	0.18730
630850.63	4175600.44	0.38033	631200.63	4175600.44	1.45332
631550.63	4175600.44	12.47842	631900.63	4175600.44	16.45884
632250.63	4175600.44	3.17203	632600.63	4175600.44	1.61410
632950.63	4175600.44	1.00994	633300.63	4175600.44	0.70579
629800.63	4175950.44	0.08984	630150.63	4175950.44	0.13048

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.23248	630850.63	4175950.44	0.50235
631200.63	4175950.44	1.48970	631550.63	4175950.44	9.35140

631900.63	4175950.44	11.52695	632250.63	4175950.44	2.11878
632600.63	4175950.44	1.15875	632950.63	4175950.44	0.77636
633300.63	4175950.44	0.56620	629800.63	4176300.44	0.10391
630150.63	4176300.44	0.15741	630500.63	4176300.44	0.26591
630850.63	4176300.44	0.48365	631200.63	4176300.44	0.89599
631550.63	4176300.44	1.24158	631900.63	4176300.44	1.13997
632250.63	4176300.44	0.82185	632600.63	4176300.44	0.60849
632950.63	4176300.44	0.46984	633300.63	4176300.44	0.37692
629800.63	4176650.44	0.11460	630150.63	4176650.44	0.17116
630500.63	4176650.44	0.25568	630850.63	4176650.44	0.37738
631200.63	4176650.44	0.51099	631550.63	4176650.44	0.58341
631900.63	4176650.44	0.54258	632250.63	4176650.44	0.45076
632600.63	4176650.44	0.37245	632950.63	4176650.44	0.30289
633300.63	4176650.44	0.25465	629800.63	4177000.44	0.11998
630150.63	4177000.44	0.16288	630500.63	4177000.44	0.21777
630850.63	4177000.44	0.27851	631200.63	4177000.44	0.33020
631550.63	4177000.44	0.35415	631900.63	4177000.44	0.33046
632250.63	4177000.44	0.29407	632600.63	4177000.44	0.25759
632950.63	4177000.44	0.22224	633300.63	4177000.44	0.18932
629800.63	4177350.44	0.11484	630150.63	4177350.44	0.14491
630500.63	4177350.44	0.17574	630850.63	4177350.44	0.20786
631200.63	4177350.44	0.23040	631550.63	4177350.44	0.23936
631900.63	4177350.44	0.22952	632250.63	4177350.44	0.20877
632600.63	4177350.44	0.18787	632950.63	4177350.44	0.17131
633300.63	4177350.44	0.15071	631670.70	4175493.59	7.49989
631669.80	4175641.41	7.19346	631665.32	4175796.39	6.75248
631417.17	4175826.85	8.21649	631417.17	4175673.66	8.40642
631422.55	4175484.63	8.96334	631268.42	4175983.74	1.92825
631275.69	4175523.99	2.08701	631345.65	4175419.50	3.08211
631384.72	4175441.30	4.96629	631491.93	4175442.21	27.38461
631491.93	4175414.95	27.45666	631385.63	4175413.14	4.69720
631358.37	4175395.87	3.29527	631409.25	4175336.81	4.86000
631567.35	4175235.96	13.34340	631756.33	4175028.80	1.92475
631807.22	4175003.36	1.69985	631867.18	4174987.91	1.61730
631849.92	4175988.28	15.68170	631268.74	4175963.75	1.98543
631269.05	4175943.76	2.03753	631269.37	4175923.77	2.08524
631269.68	4175903.78	2.12862	631270.00	4175883.79	2.16775
631270.32	4175863.81	2.20373	631270.63	4175843.82	2.23871

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

631270.95	4175823.83	2.26708	631271.26	4175803.84	2.28925
631271.58	4175783.85	2.30219	631271.90	4175763.86	2.31074
631272.21	4175743.87	2.31558	631272.53	4175723.88	2.31056
631272.85	4175703.89	2.30499	631273.16	4175683.90	2.29292
631273.48	4175663.91	2.27933	631273.79	4175643.92	2.27014
631274.11	4175623.94	2.26542	631274.43	4175603.95	2.23950
631274.74	4175583.96	2.20176	631275.06	4175563.97	2.14346
631275.37	4175543.98	2.11549	631285.68	4175509.06	2.20840
631295.68	4175494.14	2.31807	631305.67	4175479.21	2.45047
631315.67	4175464.28	2.59349	631325.66	4175449.35	2.73859
631335.66	4175434.43	2.91647	631358.67	4175426.77	3.55223
631371.70	4175434.03	4.16477	631402.59	4175441.45	6.33874
631420.46	4175441.60	8.44320	631438.33	4175441.76	12.04651
631456.19	4175441.91	19.41785	631474.06	4175442.06	27.59164
631491.93	4175428.58	27.43553	631474.21	4175414.65	33.45976
631456.50	4175414.35	19.41967	631438.78	4175414.05	11.94701
631421.06	4175413.74	8.24919	631403.35	4175413.44	6.09525
631372.00	4175404.51	3.91025	631371.09	4175381.11	3.60821
631383.81	4175366.34	3.97803	631396.53	4175351.58	4.39778
631425.06	4175326.73	5.83336	631440.87	4175316.64	7.07310
631456.68	4175306.56	8.43723	631472.49	4175296.47	9.82805
631488.30	4175286.39	11.08065	631504.11	4175276.30	12.18070
631519.92	4175266.22	13.08377	631535.73	4175256.13	13.72694
631551.54	4175246.05	14.01565	631579.95	4175222.15	10.58803
631592.55	4175208.34	8.54987	631605.15	4175194.53	7.10026
631617.74	4175180.72	5.99449	631630.34	4175166.91	5.20000
631642.94	4175153.10	4.52574	631655.54	4175139.29	4.03021
631668.14	4175125.47	3.58557	631680.74	4175111.66	3.24545
631693.34	4175097.85	2.93709	631705.94	4175084.04	2.68459
631718.53	4175070.23	2.45732	631731.13	4175056.42	2.25966
631743.73	4175042.61	2.08805	631773.29	4175020.32	1.85412
631790.26	4175011.84	1.78459	631822.21	4174999.50	1.67167
631837.20	4174995.64	1.65023	631852.19	4174991.77	1.63324
631866.84	4175007.53	1.77663	631866.50	4175027.14	2.00946
631866.16	4175046.76	2.32980	631865.83	4175066.37	2.67524
631865.49	4175085.99	3.08988	631865.15	4175105.60	3.59897
631864.81	4175125.22	4.25647	631864.47	4175144.83	5.12830
631864.13	4175164.45	6.33172	631863.80	4175184.06	8.07877
631863.46	4175203.68	10.81631	631863.12	4175223.29	15.62248
631862.78	4175242.91	25.60791	631862.44	4175262.52	39.59615

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	36.38511	631861.77	4175301.75	34.48389
631861.43	4175321.37	33.54536	631861.09	4175340.98	32.98717
631860.75	4175360.60	32.63646	631860.41	4175380.21	32.46274
631860.07	4175399.83	32.31673	631859.73	4175419.44	32.22015
631859.40	4175439.06	32.17958	631859.06	4175458.67	32.18311
631858.72	4175478.29	32.20502	631858.38	4175497.90	32.26695
631858.04	4175517.52	32.29816	631857.70	4175537.13	32.32842
631857.37	4175556.75	32.35450	631857.03	4175576.36	32.36930
631856.69	4175595.98	32.39018	631856.35	4175615.59	32.40886
631856.01	4175635.21	32.40888	631855.67	4175654.82	32.42683
631855.33	4175674.44	32.45031	631855.00	4175694.05	32.43505
631854.66	4175713.67	32.46744	631854.32	4175733.28	32.48498
631853.98	4175752.90	32.48524	631853.64	4175772.51	32.49583
631853.30	4175792.13	32.50470	631852.97	4175811.74	32.53798
631852.63	4175831.36	32.49938	631852.29	4175850.97	32.41940
631851.95	4175870.59	32.17839	631851.61	4175890.20	31.85884
631851.27	4175909.82	31.39724	631850.94	4175929.43	30.70817
631850.60	4175949.05	29.38855	631850.26	4175968.66	26.48093
631830.54	4175988.13	16.83439	631811.15	4175987.98	10.11195
631791.77	4175987.83	7.46859	631772.39	4175987.67	6.10991
631753.00	4175987.52	5.33756	631733.62	4175987.37	4.87525
631714.24	4175987.22	4.60222	631694.85	4175987.07	4.45933
631675.47	4175986.92	4.41965	631656.09	4175986.77	4.47114
631636.70	4175986.62	4.61419	631617.32	4175986.46	4.85919
631597.94	4175986.31	5.23200	631578.55	4175986.16	5.78304
631559.17	4175986.01	6.60065	631539.79	4175985.86	7.86749
631520.40	4175985.71	9.97712	631501.02	4175985.56	13.91528
631481.64	4175985.40	22.84291	631462.25	4175985.25	19.68342
631442.87	4175985.10	10.18315	631423.49	4175984.95	6.86728
631404.10	4175984.80	5.18192	631384.72	4175984.65	4.17448
631365.34	4175984.50	3.50242	631345.95	4175984.35	3.01856
631326.57	4175984.19	2.64942	631307.19	4175984.04	2.35913
631287.80	4175983.89	2.12346	631050.63	4175100.50	0.34579
631050.63	4175200.50	0.41377	631050.63	4175300.50	0.49658
631050.63	4175400.50	0.56955	631050.63	4175500.50	0.64400
631050.63	4175600.50	0.75425	631050.63	4175700.50	0.79499
631050.63	4175800.50	0.85611	631050.63	4175900.50	0.89346
631050.63	4176000.50	0.86498	631050.63	4176100.50	0.82034
631150.63	4175100.50	0.43968	631150.63	4175200.50	0.58270
631150.63	4175300.50	0.72354	631150.63	4175400.50	0.87184

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.01516	631150.63	4175600.50	1.14766
631150.63	4175700.50	1.26740	631150.63	4175800.50	1.30464
631150.63	4175900.50	1.26777	631150.63	4176000.50	1.18603
631150.63	4176100.50	1.08403	631250.63	4175100.50	0.58842
631250.63	4175200.50	0.83648	631250.63	4175300.50	1.14643
631250.63	4175400.50	1.45991	631250.63	4175500.50	1.71720
631250.63	4175600.50	1.90605	631250.63	4175700.50	2.02378
631250.63	4175800.50	2.05548	631250.63	4175900.50	1.93643
631250.63	4176000.50	1.73642	631250.63	4176100.50	1.47710
631350.63	4175100.50	0.84748	631350.63	4175200.50	1.33589
631350.63	4175300.50	2.15851	631350.63	4175400.50	3.08296
631350.63	4175500.50	3.69344	631350.63	4175600.50	3.93160
631350.63	4175700.50	3.98560	631350.63	4175800.50	3.90700
631350.63	4175900.50	3.63706	631350.63	4176000.50	2.98986
631350.63	4176100.50	2.09386	631450.63	4175100.50	1.21478
631450.63	4175200.50	2.46504	631450.63	4175300.50	6.85338
631450.63	4175400.50	16.06604	631450.63	4175500.50	16.62624
631450.63	4175600.50	16.78529	631450.63	4175700.50	16.85649
631450.63	4175800.50	16.79910	631450.63	4175900.50	16.30155
631450.63	4176000.50	9.99880	631450.63	4176100.50	2.63825
631550.63	4175100.50	1.92166	631550.63	4175200.50	5.46401
631550.63	4175300.50	29.70797	631550.63	4175400.50	13.34734
631550.63	4175500.50	12.66110	631550.63	4175600.50	12.47843
631550.63	4175700.50	12.31004	631550.63	4175800.50	11.96628
631550.63	4175900.50	10.89880	631550.63	4176000.50	5.97134
631550.63	4176100.50	2.53205	631650.63	4175100.50	2.70356
631650.63	4175200.50	9.11861	631650.63	4175300.50	16.40790
631650.63	4175400.50	8.65210	631650.63	4175500.50	7.72508
631650.63	4175600.50	7.49714	631650.63	4175700.50	7.30868
631650.63	4175800.50	6.92567	631650.63	4175900.50	6.06112
631650.63	4176000.50	4.20587	631650.63	4176100.50	2.55040
631750.63	4175100.50	3.27061	631750.63	4175200.50	10.71959
631750.63	4175300.50	16.44319	631750.63	4175400.50	8.94037
631750.63	4175500.50	8.23811	631750.63	4175600.50	8.09329
631750.63	4175700.50	7.94773	631750.63	4175800.50	7.62063
631750.63	4175900.50	6.82213	631750.63	4176000.50	4.96396
631750.63	4176100.50	2.81287	631850.63	4175100.50	3.46483
631850.63	4175200.50	10.54409	631850.63	4175300.50	45.05360
631850.63	4175400.50	40.50316	631850.63	4175500.50	38.65485
631850.63	4175600.50	37.13849	631850.63	4175700.50	35.72142

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 ,

L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 ,
L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 ,
L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	34.38447	631850.63	4175900.50	32.23812
631850.63	4176000.50	9.17068	631850.63	4176100.50	2.73275
631950.63	4175100.50	3.24142	631950.63	4175200.50	7.04608
631950.63	4175300.50	11.47767	631950.63	4175400.50	10.86609
631950.63	4175500.50	10.62125	631950.63	4175600.50	10.44382
631950.63	4175700.50	10.14572	631950.63	4175800.50	9.59524
631950.63	4175900.50	8.30556	631950.63	4176000.50	4.65258
631950.63	4176100.50	2.24621	632050.63	4175100.50	2.74017
632050.63	4175200.50	4.58327	632050.63	4175300.50	6.16267
632050.63	4175400.50	6.25553	632050.63	4175500.50	6.14942
632050.63	4175600.50	6.04441	632050.63	4175700.50	5.82295
632050.63	4175800.50	5.38513	632050.63	4175900.50	4.54322
632050.63	4176000.50	3.07022	632050.63	4176100.50	1.87119

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 ,
L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 ,
L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 ,
L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	26.70078	(04022018)	632304.44	4174354.52	23.80605	(05011520)
632192.15	4174956.32	26.79155	(06011617)	632420.62	4175510.15	41.13292	(06100508)
632418.97	4175552.92	46.84525	(06100508)	631187.00	4175727.00	82.81111	(06011617)
631166.00	4175729.00	83.16467	(06011617)	631121.00	4175719.00	80.41154	(06011617)
631035.00	4174830.00	29.48197	(07011417)	631106.00	4174825.00	29.42253	(07011417)
631937.00	4174528.00	25.19840	(05020818)	631322.00	4174522.00	24.34473	(05011817)
629800.63	4173850.44	10.79544	(04022923)	630150.63	4173850.44	9.82264	(07100818)
630500.63	4173850.44	11.28048	(05021806)	630850.63	4173850.44	16.55117	(04102617)
631200.63	4173850.44	12.58963	(04102623)	631550.63	4173850.44	19.58725	(05011817)
631900.63	4173850.44	16.11351	(08071406)	632250.63	4173850.44	20.68518	(08031018)
632600.63	4173850.44	19.47774	(05011520)	632950.63	4173850.44	20.11778	(04022018)
633300.63	4173850.44	16.57395	(05021018)	629800.63	4174200.44	14.54956	(07122718)
630150.63	4174200.44	15.79444	(05020718)	630500.63	4174200.44	19.89073	(06102817)

630850.63	4174200.44	20.95194	(04102617)	631200.63	4174200.44	18.29254	(05011817)
631550.63	4174200.44	22.53156	(05011817)	631900.63	4174200.44	21.59195	(05011817)
632250.63	4174200.44	22.28904	(08031018)	632600.63	4174200.44	23.02193	(04022018)
632950.63	4174200.44	21.42901	(05021018)	633300.63	4174200.44	16.81887	(06011617)
629800.63	4174550.44	29.40539	(06011109)	630150.63	4174550.44	27.32832	(06011109)
630500.63	4174550.44	27.30703	(06102817)	630850.63	4174550.44	24.30829	(07012317)
631200.63	4174550.44	26.39833	(04102617)	631550.63	4174550.44	26.05441	(05011817)
631900.63	4174550.44	25.62407	(04122822)	632250.63	4174550.44	26.28609	(05011520)
632600.63	4174550.44	25.62415	(05021018)	632950.63	4174550.44	22.38126	(06011617)
633300.63	4174550.44	16.18950	(04021501)	629800.63	4174900.44	32.77682	(04012317)
630150.63	4174900.44	32.51600	(06011109)	630500.63	4174900.44	39.03227	(06011109)
630850.63	4174900.44	31.63927	(06102817)	631200.63	4174900.44	30.83384	(07011417)
631550.63	4174900.44	31.86121	(07011417)	631900.63	4174900.44	28.61671	(05020818)
632250.63	4174900.44	26.37361	(04022018)	632600.63	4174900.44	25.84676	(06011617)
632950.63	4174900.44	21.78216	(06012018)	633300.63	4174900.44	19.62445	(04022221)
629800.63	4175250.44	36.10006	(04012317)	630150.63	4175250.44	43.18385	(06011109)
630500.63	4175250.44	44.92165	(06011109)	630850.63	4175250.44	49.47508	(06011109)
631200.63	4175250.44	41.34483	(07012317)	631550.63	4175250.44	39.50348	(07011417)
631900.63	4175250.44	36.73610	(06011617)	632250.63	4175250.44	32.38911	(06011617)
632600.63	4175250.44	29.35847	(04022221)	632950.63	4175250.44	25.58335	(04022222)
633300.63	4175250.44	31.04988	(06100508)	629800.63	4175600.44	133.59531	(06020109)
630150.63	4175600.44	108.56550	(06020109)	630500.63	4175600.44	68.77485	(04011017)
630850.63	4175600.44	80.87384	(06011109)	631200.63	4175600.44	62.13555	(07012317)
631550.63	4175600.44	60.43843	(06011617)	631900.63	4175600.44	54.43064	(08010918)
632250.63	4175600.44	50.00438	(06100508)	632600.63	4175600.44	49.44605	(06100508)
632950.63	4175600.44	39.05152	(06100508)	633300.63	4175600.44	28.37595	(06100508)
629800.63	4175950.44	127.00100	(04121304)	630150.63	4175950.44	266.07131	(04121304)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

630500.63	4175950.44	289.89400	(04121304)	630850.63	4175950.44	286.52636	(04022207)
631200.63	4175950.44	301.60934	(07010217)	631550.63	4175950.44	251.27065	(05122420)
631900.63	4175950.44	106.23155	(07021102)	632250.63	4175950.44	62.83851	(07021102)
632600.63	4175950.44	44.36119	(06012822)	632950.63	4175950.44	33.86047	(06012822)
633300.63	4175950.44	26.63491	(06012822)	629800.63	4176300.44	61.26959	(06011024)
630150.63	4176300.44	69.09299	(07120622)	630500.63	4176300.44	67.30900	(04021520)
630850.63	4176300.44	68.95719	(08021908)	631200.63	4176300.44	72.79413	(08021808)
631550.63	4176300.44	71.14205	(08021808)	631900.63	4176300.44	61.55778	(05122401)
632250.63	4176300.44	52.02292	(06020208)	632600.63	4176300.44	41.36278	(06020205)

632950.63	4176300.44	32.95370	(04121118)	633300.63	4176300.44	26.71401	(07021221)
629800.63	4176650.44	37.60019	(06122121)	630150.63	4176650.44	35.94284	(04021521)
630500.63	4176650.44	36.98742	(08011009)	630850.63	4176650.44	38.72125	(08011009)
631200.63	4176650.44	36.99402	(07022408)	631550.63	4176650.44	39.50595	(08021908)
631900.63	4176650.44	40.17868	(08021808)	632250.63	4176650.44	37.21285	(08031008)
632600.63	4176650.44	30.60789	(05122323)	632950.63	4176650.44	26.92965	(05121218)
633300.63	4176650.44	23.49520	(05010918)	629800.63	4177000.44	25.25143	(04021521)
630150.63	4177000.44	25.56911	(07021218)	630500.63	4177000.44	27.47152	(08011009)
630850.63	4177000.44	33.08612	(07091007)	631200.63	4177000.44	33.16538	(07091007)
631550.63	4177000.44	32.88618	(07091007)	631900.63	4177000.44	28.02981	(08021908)
632250.63	4177000.44	27.96080	(08021808)	632600.63	4177000.44	28.86707	(08031008)
632950.63	4177000.44	30.02317	(08031008)	633300.63	4177000.44	21.65643	(08031008)
629800.63	4177350.44	20.11878	(04120908)	630150.63	4177350.44	20.80929	(07021218)
630500.63	4177350.44	21.09260	(08011009)	630850.63	4177350.44	26.36584	(07091007)
631200.63	4177350.44	30.56535	(07091007)	631550.63	4177350.44	30.99613	(07091007)
631900.63	4177350.44	21.52164	(07022408)	632250.63	4177350.44	21.72218	(08021908)
632600.63	4177350.44	20.78278	(08021908)	632950.63	4177350.44	20.32103	(08021808)
633300.63	4177350.44	25.33332	(08031008)	631670.70	4175493.59	50.29950	(06011617)
631669.80	4175641.41	64.02081	(06011617)	631665.32	4175796.39	99.85729	(07010217)
631417.17	4175826.85	117.31665	(07010217)	631417.17	4175673.66	71.22109	(06011617)
631422.55	4175484.63	49.15416	(06011617)	631268.42	4175983.74	646.21788	(05121217)
631275.69	4175523.99	54.74223	(07012317)	631345.65	4175419.50	48.25477	(07011417)
631384.72	4175441.30	46.54672	(07012317)	631491.93	4175442.21	46.02087	(06011617)
631491.93	4175414.95	43.69104	(06011617)	631385.63	4175413.14	48.29538	(07011417)
631358.37	4175395.87	46.95151	(07011417)	631409.25	4175336.81	44.28053	(07011417)
631567.35	4175235.96	38.55210	(07011417)	631756.33	4175028.80	31.24313	(04122822)
631807.22	4175003.36	30.62963	(05020818)	631867.18	4174987.91	29.64305	(05020818)
631849.92	4175988.28	118.91161	(04122902)	631268.74	4175963.75	382.20198	(08011001)
631269.05	4175943.76	283.10786	(07010217)	631269.37	4175923.77	229.56278	(07010217)
631269.68	4175903.78	193.08754	(07010217)	631270.00	4175883.79	166.26966	(07010217)
631270.32	4175863.81	145.22632	(07010217)	631270.63	4175843.82	127.68677	(07010217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	113.85168	(06011617)	631271.26	4175803.84	105.23053	(06011617)
631271.58	4175783.85	98.24333	(06011617)	631271.90	4175763.86	92.20998	(06011617)
631272.21	4175743.87	86.93527	(06011617)	631272.53	4175723.88	82.15608	(06011617)
631272.85	4175703.89	77.77609	(06011617)	631273.16	4175683.90	73.82876	(06011617)
631273.48	4175663.91	70.24178	(06011617)	631273.79	4175643.92	67.03488	(06011617)

631274.11	4175623.94	64.11040	(06011617)	631274.43	4175603.95	61.22326	(06011617)
631274.74	4175583.96	58.20852	(06011617)	631275.06	4175563.97	58.29488	(07011417)
631275.37	4175543.98	56.39999	(07011417)	631285.68	4175509.06	53.65959	(07012317)
631295.68	4175494.14	52.39913	(07012317)	631305.67	4175479.21	51.35154	(07012317)
631315.67	4175464.28	50.43937	(07011417)	631325.66	4175449.35	49.81508	(07011417)
631335.66	4175434.43	48.53032	(07012317)	631358.67	4175426.77	49.02543	(07011417)
631371.70	4175434.03	49.28125	(07011417)	631402.59	4175441.45	44.42959	(06011617)
631420.46	4175441.60	44.86956	(06011617)	631438.33	4175441.76	45.23547	(06011617)
631456.19	4175441.91	45.55483	(06011617)	631474.06	4175442.06	45.82834	(06011617)
631491.93	4175428.58	44.86447	(06011617)	631474.21	4175414.65	43.35413	(06011617)
631456.50	4175414.35	42.97511	(06011617)	631438.78	4175414.05	42.55112	(06011617)
631421.06	4175413.74	43.50431	(07012317)	631403.35	4175413.44	47.36003	(07012317)
631372.00	4175404.51	47.68083	(07011417)	631371.09	4175381.11	46.31049	(07011417)
631383.81	4175366.34	45.54494	(07011417)	631396.53	4175351.58	44.88695	(07011417)
631425.06	4175326.73	43.88958	(07011417)	631440.87	4175316.64	43.29293	(07011417)
631456.68	4175306.56	42.92522	(07011417)	631472.49	4175296.47	42.42792	(07011417)
631488.30	4175286.39	41.82173	(07011417)	631504.11	4175276.30	41.33954	(07011417)
631519.92	4175266.22	40.79097	(07011417)	631535.73	4175256.13	40.04713	(07011417)
631551.54	4175246.05	39.38687	(07011417)	631579.95	4175222.15	37.60051	(07011417)
631592.55	4175208.34	36.91122	(04022318)	631605.15	4175194.53	36.15017	(04022318)
631617.74	4175180.72	35.83616	(04022318)	631630.34	4175166.91	34.97257	(04022318)
631642.94	4175153.10	34.70649	(04022318)	631655.54	4175139.29	33.90942	(04022318)
631668.14	4175125.47	33.65432	(04122822)	631680.74	4175111.66	33.07578	(04122822)
631693.34	4175097.85	32.87659	(04122822)	631705.94	4175084.04	32.47449	(04122822)
631718.53	4175070.23	32.15976	(04122822)	631731.13	4175056.42	31.82907	(04122822)
631743.73	4175042.61	31.40532	(04122822)	631773.29	4175020.32	30.89892	(04122822)
631790.26	4175011.84	30.53721	(04122822)	631822.21	4174999.50	30.60472	(05020818)
631837.20	4174995.64	30.42801	(05020818)	631852.19	4174991.77	30.08759	(05020818)
631866.84	4175007.53	30.39250	(05011521)	631866.50	4175027.14	30.51034	(05011521)
631866.16	4175046.76	27.23397	(04022018)	631865.83	4175066.37	27.96563	(04022018)
631865.49	4175085.99	28.51242	(04022018)	631865.15	4175105.60	28.94902	(04022018)
631864.81	4175125.22	29.98368	(06011617)	631864.47	4175144.83	31.06155	(06011617)
631864.13	4175164.45	32.11392	(06011617)	631863.80	4175184.06	33.14055	(06011617)
631863.46	4175203.68	34.14498	(06011617)	631863.12	4175223.29	35.13123	(06011617)
631862.78	4175242.91	36.10198	(06011617)	631862.44	4175262.52	37.06215	(06011617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	38.01620	(06011617)	631861.77	4175301.75	38.96807	(06011617)

631861.43	4175321.37	39.92524	(06011617)	631861.09	4175340.98	40.88869	(06011617)
631860.75	4175360.60	41.86464	(06011617)	631860.41	4175380.21	42.85792	(06011617)
631860.07	4175399.83	43.86407	(06011617)	631859.73	4175419.44	44.88305	(06011617)
631859.40	4175439.06	45.91164	(06011617)	631859.06	4175458.67	46.93567	(06011617)
631858.72	4175478.29	47.93710	(06011617)	631858.38	4175497.90	48.88817	(06011617)
631858.04	4175517.52	49.74250	(06011617)	631857.70	4175537.13	50.44511	(06011617)
631857.37	4175556.75	51.92185	(06120617)	631857.03	4175576.36	53.62544	(06120617)
631856.69	4175595.98	55.26181	(06120617)	631856.35	4175615.59	56.76562	(06120617)
631856.01	4175635.21	58.82327	(08010918)	631855.67	4175654.82	61.24863	(05021801)
631855.33	4175674.44	64.35538	(07010217)	631855.00	4175694.05	68.74560	(07010217)
631854.66	4175713.67	73.04286	(07010217)	631854.32	4175733.28	77.04766	(07010217)
631853.98	4175752.90	80.47945	(07010217)	631853.64	4175772.51	82.95515	(07010217)
631853.30	4175792.13	84.00144	(07010217)	631852.97	4175811.74	86.96981	(05011606)
631852.63	4175831.36	92.90099	(05011606)	631852.29	4175850.97	97.33948	(06121504)
631851.95	4175870.59	102.42575	(08011020)	631851.61	4175890.20	106.05444	(05122420)
631851.27	4175909.82	110.78607	(07012218)	631850.94	4175929.43	114.37091	(05020819)
631850.60	4175949.05	116.78130	(07021102)	631850.26	4175968.66	117.63919	(06012822)
631830.54	4175988.13	123.89307	(04122902)	631811.15	4175987.98	129.20843	(04122902)
631791.77	4175987.83	135.12488	(04122902)	631772.39	4175987.67	141.46154	(04122902)
631753.00	4175987.52	148.43828	(04122902)	631733.62	4175987.37	156.21164	(06012822)
631714.24	4175987.22	164.89631	(06012822)	631694.85	4175987.07	174.57695	(06012822)
631675.47	4175986.92	185.60590	(06012822)	631656.09	4175986.77	198.22284	(06012822)
631636.70	4175986.62	212.79889	(06012822)	631617.32	4175986.46	229.71099	(06012822)
631597.94	4175986.31	249.72648	(06012822)	631578.55	4175986.16	273.98763	(06012822)
631559.17	4175986.01	303.92150	(06012822)	631539.79	4175985.86	342.22932	(06012822)
631520.40	4175985.71	393.13697	(06012822)	631501.02	4175985.56	464.28287	(07021102)
631481.64	4175985.40	572.88427	(07021102)	631462.25	4175985.25	672.61993	(05121217)
631442.87	4175985.10	692.10141	(05121217)	631423.49	4175984.95	692.42827	(05121217)
631404.10	4175984.80	688.45332	(05121217)	631384.72	4175984.65	683.30396	(05121217)
631365.34	4175984.50	677.41751	(05121217)	631345.95	4175984.35	670.44172	(05121217)
631326.57	4175984.19	663.55477	(05121217)	631307.19	4175984.04	656.97293	(05121217)
631287.80	4175983.89	651.45610	(05121217)	631050.63	4175100.50	35.77550	(07012317)
631050.63	4175200.50	38.76429	(07012317)	631050.63	4175300.50	42.41427	(07012317)
631050.63	4175400.50	46.73408	(07012317)	631050.63	4175500.50	61.93820	(06011109)
631050.63	4175600.50	69.67475	(06011109)	631050.63	4175700.50	89.19449	(06011109)
631050.63	4175800.50	103.25205	(06011617)	631050.63	4175900.50	177.98452	(07010217)
631050.63	4176000.50	635.75758	(07012318)	631050.63	4176100.50	152.18137	(05122401)
631150.63	4175100.50	35.96088	(07012317)	631150.63	4175200.50	39.34363	(07012317)
631150.63	4175300.50	42.66288	(07012317)	631150.63	4175400.50	46.43298	(07012317)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	52.46653	(07012317)	631150.63	4175600.50	63.46894	(05012117)
631150.63	4175700.50	76.80446	(06011617)	631150.63	4175800.50	103.35368	(06011617)
631150.63	4175900.50	181.38688	(07010217)	631150.63	4176000.50	647.30450	(07012318)
631150.63	4176100.50	152.79189	(05122401)	631250.63	4175100.50	35.96070	(07012317)
631250.63	4175200.50	39.31386	(07012317)	631250.63	4175300.50	43.21640	(07012317)
631250.63	4175400.50	47.67474	(07012317)	631250.63	4175500.50	53.48332	(07012317)
631250.63	4175600.50	61.99431	(07012317)	631250.63	4175700.50	77.04462	(06011617)
631250.63	4175800.50	103.52883	(06011617)	631250.63	4175900.50	187.64554	(07010217)
631250.63	4176000.50	641.47337	(07012318)	631250.63	4176100.50	156.12426	(05122401)
631350.63	4175100.50	36.94575	(07011417)	631350.63	4175200.50	39.59039	(07011417)
631350.63	4175300.50	42.23775	(07012317)	631350.63	4175400.50	47.23554	(07011417)
631350.63	4175500.50	49.56735	(06011617)	631350.63	4175600.50	61.36881	(06011617)
631350.63	4175700.50	76.57420	(06011617)	631350.63	4175800.50	103.18077	(06011617)
631350.63	4175900.50	187.64749	(07010217)	631350.63	4176000.50	621.89573	(07012318)
631350.63	4176100.50	156.52417	(05122401)	631450.63	4175100.50	36.94138	(07011417)
631450.63	4175200.50	39.59683	(07011417)	631450.63	4175300.50	42.76559	(07011417)
631450.63	4175400.50	41.50914	(06011617)	631450.63	4175500.50	50.91110	(06011617)
631450.63	4175600.50	61.06308	(06011617)	631450.63	4175700.50	75.40832	(06011617)
631450.63	4175800.50	102.33520	(07010217)	631450.63	4175900.50	181.01597	(07010217)
631450.63	4176000.50	587.56041	(07012318)	631450.63	4176100.50	152.81714	(05122401)
631550.63	4175100.50	36.05529	(07011417)	631550.63	4175200.50	38.32918	(07011417)
631550.63	4175300.50	41.30280	(07011417)	631550.63	4175400.50	43.21750	(06011617)
631550.63	4175500.50	51.04809	(06011617)	631550.63	4175600.50	60.44511	(06011617)
631550.63	4175700.50	74.04062	(06011617)	631550.63	4175800.50	102.09453	(07010217)
631550.63	4175900.50	171.23640	(07010217)	631550.63	4176000.50	308.12678	(04122902)
631550.63	4176100.50	145.35313	(08010924)	631650.63	4175100.50	33.87096	(04022318)
631650.63	4175200.50	36.15356	(04122822)	631650.63	4175300.50	37.22668	(06011617)
631650.63	4175400.50	43.86291	(06011617)	631650.63	4175500.50	50.87596	(06011617)
631650.63	4175600.50	59.75129	(06011617)	631650.63	4175700.50	72.01704	(06011617)
631650.63	4175800.50	101.69490	(07010217)	631650.63	4175900.50	148.67821	(06121504)
631650.63	4176000.50	199.35596	(04122902)	631650.63	4176100.50	135.29635	(06012918)
631750.63	4175100.50	28.79232	(04122822)	631750.63	4175200.50	32.34412	(06011617)
631750.63	4175300.50	38.32126	(06011617)	631750.63	4175400.50	44.06372	(06011617)
631750.63	4175500.50	50.51663	(06011617)	631750.63	4175600.50	58.17213	(06011617)
631750.63	4175700.50	69.62316	(05021801)	631750.63	4175800.50	97.23941	(07010217)
631750.63	4175900.50	128.55296	(08011020)	631750.63	4176000.50	148.28757	(04122902)
631750.63	4176100.50	121.87747	(06011620)	631850.63	4175100.50	28.86622	(04022018)
631850.63	4175200.50	33.81433	(06011617)	631850.63	4175300.50	38.85888	(06011617)
631850.63	4175400.50	43.94228	(06011617)	631850.63	4175500.50	49.22154	(06011617)
631850.63	4175600.50	55.76936	(06120617)	631850.63	4175700.50	70.20655	(07010217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0003950 , L0003951 , L0003952 , L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 , L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 , L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 , L0003975 , L0003976 , L0003977 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	85.32230	(04010924)	631850.63	4175900.50	109.14047	(05122420)
631850.63	4176000.50	118.02520	(04122902)	631850.63	4176100.50	106.48228	(07021221)
631950.63	4175100.50	30.13018	(06011617)	631950.63	4175200.50	34.77952	(06011617)
631950.63	4175300.50	39.03922	(06011617)	631950.63	4175400.50	42.93085	(06011617)
631950.63	4175500.50	46.83961	(06120617)	631950.63	4175600.50	53.76558	(05021801)
631950.63	4175700.50	68.18329	(07010217)	631950.63	4175800.50	78.75826	(05011606)
631950.63	4175900.50	93.26783	(07012218)	631950.63	4176000.50	97.65084	(04122902)
631950.63	4176100.50	91.74218	(07021221)	632050.63	4175100.50	31.26564	(06011617)
632050.63	4175200.50	35.11702	(06011617)	632050.63	4175300.50	38.32184	(06011617)
632050.63	4175400.50	39.99979	(06120617)	632050.63	4175500.50	45.02401	(06120617)
632050.63	4175600.50	52.09187	(07010217)	632050.63	4175700.50	62.74012	(07010217)
632050.63	4175800.50	71.06936	(05011606)	632050.63	4175900.50	80.57720	(05020819)
632050.63	4176000.50	83.09377	(04122902)	632050.63	4176100.50	80.15521	(07011318)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***
INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	23.25573	(05020818)	632304.44	4174354.52	17.95875	(08031018)
632192.15	4174956.32	23.03639	(05020818)	632420.62	4175510.15	36.03097	(05021801)
632418.97	4175552.92	39.38809	(07010217)	631187.00	4175727.00	72.40626	(04011017)
631166.00	4175729.00	73.52864	(04011017)	631121.00	4175719.00	70.75060	(04011017)
631035.00	4174830.00	24.76052	(06102817)	631106.00	4174825.00	24.60659	(06102817)
631937.00	4174528.00	18.99548	(07011417)	631322.00	4174522.00	18.39122	(05011817)
629800.63	4173850.44	8.15622	(04022923)	630150.63	4173850.44	7.40415	(07100818)
630500.63	4173850.44	8.50647	(05021806)	630850.63	4173850.44	12.56015	(04102617)
631200.63	4173850.44	9.48555	(04102623)	631550.63	4173850.44	14.80192	(05011817)
631900.63	4173850.44	12.13096	(08071406)	632250.63	4173850.44	15.66070	(08031018)
632600.63	4173850.44	16.24826	(08031018)	632950.63	4173850.44	15.17027	(04022018)
633300.63	4173850.44	15.36584	(04022018)	629800.63	4174200.44	11.04786	(07122718)
630150.63	4174200.44	11.98109	(05020718)	630500.63	4174200.44	15.39330	(06102817)
630850.63	4174200.44	15.88203	(04102617)	631200.63	4174200.44	13.93145	(05011817)
631550.63	4174200.44	17.68181	(04102617)	631900.63	4174200.44	17.61431	(05011817)
632250.63	4174200.44	17.40138	(08031018)	632600.63	4174200.44	17.26719	(04022018)

632950.63	4174200.44	17.92287	(04022018)	633300.63	4174200.44	16.07779	(05021018)
629800.63	4174550.44	22.37981	(06011109)	630150.63	4174550.44	20.89360	(06011109)
630500.63	4174550.44	23.41509	(06011109)	630850.63	4174550.44	20.57860	(06102817)
631200.63	4174550.44	20.19249	(04102617)	631550.63	4174550.44	20.09440	(04102617)
631900.63	4174550.44	19.42637	(07011417)	632250.63	4174550.44	19.85683	(05011520)
632600.63	4174550.44	20.73293	(04022018)	632950.63	4174550.44	19.27299	(05021018)
633300.63	4174550.44	16.41815	(06011617)	629800.63	4174900.44	25.04535	(04012317)
630150.63	4174900.44	24.77382	(06011109)	630500.63	4174900.44	30.51628	(06011109)
630850.63	4174900.44	30.90784	(06011109)	631200.63	4174900.44	25.63362	(06102817)
631550.63	4174900.44	24.05266	(07011417)	631900.63	4174900.44	23.85499	(07011417)
632250.63	4174900.44	22.78731	(05011521)	632600.63	4174900.44	23.15880	(04022018)
632950.63	4174900.44	20.34288	(06011617)	633300.63	4174900.44	18.22160	(06120617)
629800.63	4175250.44	30.53512	(04022118)	630150.63	4175250.44	33.14224	(06011109)
630500.63	4175250.44	35.59962	(04012317)	630850.63	4175250.44	41.57490	(06011109)
631200.63	4175250.44	40.33370	(06011109)	631550.63	4175250.44	30.69470	(07011417)
631900.63	4175250.44	28.34519	(06011617)	632250.63	4175250.44	28.52124	(06011617)
632600.63	4175250.44	26.47060	(06120617)	632950.63	4175250.44	24.39821	(05021801)
633300.63	4175250.44	26.77541	(06100508)	629800.63	4175600.44	110.08315	(06020109)
630150.63	4175600.44	107.08706	(06020109)	630500.63	4175600.44	89.22658	(06020109)
630850.63	4175600.44	63.31725	(06011109)	631200.63	4175600.44	57.36041	(06011109)
631550.63	4175600.44	47.97589	(05012117)	631900.63	4175600.44	45.67743	(06011617)
632250.63	4175600.44	43.53314	(07010217)	632600.63	4175600.44	46.61100	(06100508)
632950.63	4175600.44	43.48182	(06100508)	633300.63	4175600.44	34.52790	(06100508)
629800.63	4175950.44	112.50779	(04121304)	630150.63	4175950.44	245.98734	(04121304)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	291.66472	(04121304)	630850.63	4175950.44	250.37120	(04121304)
631200.63	4175950.44	240.95961	(08011001)	631550.63	4175950.44	242.16101	(08011001)
631900.63	4175950.44	208.92096	(05122223)	632250.63	4175950.44	93.43693	(07021102)
632600.63	4175950.44	57.12308	(06012822)	632950.63	4175950.44	41.05820	(06012822)
633300.63	4175950.44	31.11497	(06012822)	629800.63	4176300.44	59.50436	(06011024)
630150.63	4176300.44	52.11657	(05030324)	630500.63	4176300.44	53.21259	(07120622)
630850.63	4176300.44	51.63454	(08021908)	631200.63	4176300.44	56.43016	(08021808)
631550.63	4176300.44	57.68518	(08021808)	631900.63	4176300.44	53.75271	(08021808)
632250.63	4176300.44	51.21847	(05122401)	632600.63	4176300.44	44.64709	(06020208)
632950.63	4176300.44	36.99837	(06011620)	633300.63	4176300.44	30.10119	(04121118)
629800.63	4176650.44	35.07030	(07120622)	630150.63	4176650.44	27.49933	(04021520)
630500.63	4176650.44	27.86013	(04021521)	630850.63	4176650.44	29.42209	(08011009)

631200.63	4176650.44	29.00363	(07091007)	631550.63	4176650.44	31.02889	(08021908)
631900.63	4176650.44	31.57198	(08021808)	632250.63	4176650.44	31.15248	(08021808)
632600.63	4176650.44	30.37521	(08031008)	632950.63	4176650.44	25.76733	(07010308)
633300.63	4176650.44	23.70516	(06012919)	629800.63	4177000.44	19.42302	(04021521)
630150.63	4177000.44	19.35978	(04021521)	630500.63	4177000.44	20.78710	(08011009)
630850.63	4177000.44	25.83065	(07091007)	631200.63	4177000.44	26.03159	(07091007)
631550.63	4177000.44	26.82201	(07091007)	631900.63	4177000.44	25.37164	(07091007)
632250.63	4177000.44	22.23630	(08021908)	632600.63	4177000.44	22.54360	(08021808)
632950.63	4177000.44	26.26115	(08031008)	633300.63	4177000.44	25.42406	(08031008)
629800.63	4177350.44	15.31056	(04120903)	630150.63	4177350.44	15.71854	(07021218)
630500.63	4177350.44	15.98955	(08011009)	630850.63	4177350.44	20.50339	(07091007)
631200.63	4177350.44	23.80347	(07091007)	631550.63	4177350.44	24.50992	(07091007)
631900.63	4177350.44	24.05816	(07091007)	632250.63	4177350.44	16.92396	(07022408)
632600.63	4177350.44	17.63168	(08021908)	632950.63	4177350.44	17.51423	(08021808)
633300.63	4177350.44	20.39967	(08031008)	631670.70	4175493.59	39.38246	(06011617)
631669.80	4175641.41	51.46018	(06011617)	631665.32	4175796.39	83.12084	(07010217)
631417.17	4175826.85	94.84448	(07010217)	631417.17	4175673.66	55.78368	(06011617)
631422.55	4175484.63	44.32707	(06011109)	631268.42	4175983.74	555.89487	(05121217)
631275.69	4175523.99	53.82357	(06011109)	631345.65	4175419.50	45.88837	(06011109)
631384.72	4175441.30	44.89596	(06011109)	631491.93	4175442.21	36.64684	(08022002)
631491.93	4175414.95	35.34329	(08022002)	631385.63	4175413.14	43.35794	(06011109)
631358.37	4175395.87	43.05182	(06011109)	631409.25	4175336.81	33.76879	(07011417)
631567.35	4175235.96	30.30282	(07011417)	631756.33	4175028.80	25.80538	(07011417)
631807.22	4175003.36	25.41513	(07011417)	631867.18	4174987.91	25.17085	(07011417)
631849.92	4175988.28	521.63786	(06012822)	631268.74	4175963.75	308.96594	(05122223)
631269.05	4175943.76	222.50241	(07010217)	631269.37	4175923.77	179.96268	(07010217)
631269.68	4175903.78	151.32378	(07010217)	631270.00	4175883.79	130.49167	(07010217)
631270.32	4175863.81	116.24781	(06020109)	631270.63	4175843.82	104.52891	(06020109)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	91.41069	(06020109)	631271.26	4175803.84	82.19885	(06011617)
631271.58	4175783.85	79.70879	(04011017)	631271.90	4175763.86	78.93806	(04011017)
631272.21	4175743.87	72.52087	(04011017)	631272.53	4175723.88	65.21956	(04011017)
631272.85	4175703.89	61.38110	(06121421)	631273.16	4175683.90	60.76760	(05012117)
631273.48	4175663.91	60.12465	(06011109)	631273.79	4175643.92	58.80488	(06011109)
631274.11	4175623.94	56.60664	(06011109)	631274.43	4175603.95	56.44310	(06011109)
631274.74	4175583.96	56.62701	(06011109)	631275.06	4175563.97	56.90180	(06011109)
631275.37	4175543.98	55.43078	(06011109)	631285.68	4175509.06	52.45203	(06011109)

631295.68	4175494.14	51.94086	(06011109)	631305.67	4175479.21	50.85675	(06011109)
631315.67	4175464.28	49.72222	(06011109)	631325.66	4175449.35	48.73725	(06011109)
631335.66	4175434.43	47.04036	(06011109)	631358.67	4175426.77	46.20127	(06011109)
631371.70	4175434.03	45.94871	(06011109)	631402.59	4175441.45	42.77728	(06011109)
631420.46	4175441.60	40.89111	(06011109)	631438.33	4175441.76	39.16108	(06011109)
631456.19	4175441.91	37.37117	(06011109)	631474.06	4175442.06	36.64802	(08022002)
631491.93	4175428.58	35.98327	(08022002)	631474.21	4175414.65	35.31462	(08022002)
631456.50	4175414.35	35.27809	(08022002)	631438.78	4175414.05	36.64150	(06011109)
631421.06	4175413.74	38.94136	(06011109)	631403.35	4175413.44	41.26511	(06011109)
631372.00	4175404.51	43.18382	(06011109)	631371.09	4175381.11	40.84717	(06011109)
631383.81	4175366.34	38.25251	(06011109)	631396.53	4175351.58	35.51972	(06011109)
631425.06	4175326.73	33.44686	(07011417)	631440.87	4175316.64	32.98358	(07011417)
631456.68	4175306.56	32.68677	(07011417)	631472.49	4175296.47	32.31022	(07011417)
631488.30	4175286.39	31.89426	(07011417)	631504.11	4175276.30	31.56919	(07011417)
631519.92	4175266.22	31.24697	(07011417)	631535.73	4175256.13	30.87235	(07011417)
631551.54	4175246.05	30.59528	(07011417)	631579.95	4175222.15	29.90784	(07011417)
631592.55	4175208.34	29.58141	(07011417)	631605.15	4175194.53	29.18656	(07011417)
631617.74	4175180.72	28.89861	(07011417)	631630.34	4175166.91	28.51460	(07011417)
631642.94	4175153.10	28.25826	(07011417)	631655.54	4175139.29	27.90593	(07011417)
631668.14	4175125.47	27.65339	(07011417)	631680.74	4175111.66	27.33922	(07011417)
631693.34	4175097.85	27.07963	(07011417)	631705.94	4175084.04	26.78967	(07011417)
631718.53	4175070.23	26.53428	(07011417)	631731.13	4175056.42	26.28174	(07011417)
631743.73	4175042.61	26.02611	(07011417)	631773.29	4175020.32	25.65380	(07011417)
631790.26	4175011.84	25.51379	(07011417)	631822.21	4174999.50	25.36877	(07011417)
631837.20	4174995.64	25.30812	(07011417)	631852.19	4174991.77	25.24156	(07011417)
631866.84	4175007.53	25.51299	(07011417)	631866.50	4175027.14	25.83658	(07011417)
631866.16	4175046.76	26.44663	(07011417)	631865.83	4175066.37	26.71559	(07011417)
631865.49	4175085.99	26.60571	(07011417)	631865.15	4175105.60	26.66644	(07011417)
631864.81	4175125.22	26.63761	(07011417)	631864.47	4175144.83	26.51043	(07011417)
631864.13	4175164.45	26.17906	(07011417)	631863.80	4175184.06	26.04823	(07012317)
631863.46	4175203.68	26.39269	(06011617)	631863.12	4175223.29	27.16131	(06011617)
631862.78	4175242.91	27.92036	(06011617)	631862.44	4175262.52	28.68199	(06011617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	29.44629	(06011617)	631861.77	4175301.75	30.21735	(06011617)
631861.43	4175321.37	31.00199	(06011617)	631861.09	4175340.98	31.79191	(06011617)
631860.75	4175360.60	32.59840	(06011617)	631860.41	4175380.21	33.45172	(06011617)
631860.07	4175399.83	34.29185	(06011617)	631859.73	4175419.44	35.16720	(06011617)

631859.40	4175439.06	36.08556	(06011617)	631859.06	4175458.67	37.05069	(06011617)
631858.72	4175478.29	38.06984	(06011617)	631858.38	4175497.90	39.15025	(06011617)
631858.04	4175517.52	40.29600	(06011617)	631857.70	4175537.13	41.51553	(06011617)
631857.37	4175556.75	42.81942	(06011617)	631857.03	4175576.36	44.21538	(06011617)
631856.69	4175595.98	45.71927	(06011617)	631856.35	4175615.59	47.34253	(06011617)
631856.01	4175635.21	49.10446	(06011617)	631855.67	4175654.82	51.02973	(06011617)
631855.33	4175674.44	53.14462	(06011617)	631855.00	4175694.05	55.89210	(07010217)
631854.66	4175713.67	59.80857	(07010217)	631854.32	4175733.28	63.98414	(07010217)
631853.98	4175752.90	68.49362	(07010217)	631853.64	4175772.51	73.43733	(07010217)
631853.30	4175792.13	78.95406	(07010217)	631852.97	4175811.74	85.23508	(07010217)
631852.63	4175831.36	92.52364	(07010217)	631852.29	4175850.97	101.19207	(07010217)
631851.95	4175870.59	111.75863	(07010217)	631851.61	4175890.20	125.13353	(07010217)
631851.27	4175909.82	143.45824	(08011001)	631850.94	4175929.43	171.95847	(08011001)
631850.60	4175949.05	217.99154	(05122223)	631850.26	4175968.66	306.20135	(05121217)
631830.54	4175988.13	587.14612	(08011019)	631811.15	4175987.98	569.57095	(08011019)
631791.77	4175987.83	582.24660	(08011019)	631772.39	4175987.67	596.41148	(08011019)
631753.00	4175987.52	599.63378	(08011019)	631733.62	4175987.37	578.15861	(08011019)
631714.24	4175987.22	582.86152	(08011019)	631694.85	4175987.07	591.21934	(08011019)
631675.47	4175986.92	570.04460	(08011019)	631656.09	4175986.77	574.02228	(08011019)
631636.70	4175986.62	584.81888	(08011019)	631617.32	4175986.46	585.02380	(08011019)
631597.94	4175986.31	568.11999	(08011019)	631578.55	4175986.16	577.72998	(08011019)
631559.17	4175986.01	577.53411	(08011019)	631539.79	4175985.86	576.57797	(08011019)
631520.40	4175985.71	569.91108	(08011019)	631501.02	4175985.56	569.93236	(08011019)
631481.64	4175985.40	569.09251	(08011019)	631462.25	4175985.25	575.07336	(08011019)
631442.87	4175985.10	563.25431	(08011019)	631423.49	4175984.95	569.85547	(08011019)
631404.10	4175984.80	568.05541	(08011019)	631384.72	4175984.65	565.15792	(05121217)
631365.34	4175984.50	563.28240	(08011019)	631345.95	4175984.35	561.04061	(08011019)
631326.57	4175984.19	558.86794	(05121217)	631307.19	4175984.04	556.25430	(05121217)
631287.80	4175983.89	555.88171	(05121217)	631050.63	4175100.50	36.84100	(06011109)
631050.63	4175200.50	40.44406	(06011109)	631050.63	4175300.50	44.00270	(06011109)
631050.63	4175400.50	48.12488	(06011109)	631050.63	4175500.50	53.87103	(06011109)
631050.63	4175600.50	57.24311	(06011109)	631050.63	4175700.50	71.83208	(06011109)
631050.63	4175800.50	109.59849	(06020109)	631050.63	4175900.50	148.86513	(04022207)
631050.63	4176000.50	398.80699	(05122618)	631050.63	4176100.50	113.05017	(08021808)
631150.63	4175100.50	33.91300	(06011109)	631150.63	4175200.50	39.30697	(06011109)
631150.63	4175300.50	43.02402	(06011109)	631150.63	4175400.50	46.80662	(06011109)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

631150.63	4175500.50	51.59591 (06011109)	631150.63	4175600.50	56.16760 (06011109)
631150.63	4175700.50	67.34952 (04011017)	631150.63	4175800.50	97.72938 (06020109)
631150.63	4175900.50	142.83259 (07010217)	631150.63	4176000.50	418.84837 (07012418)
631150.63	4176100.50	113.36570 (05122401)	631250.63	4175100.50	28.96224 (06102817)
631250.63	4175200.50	34.84891 (06011109)	631250.63	4175300.50	41.27840 (06011109)
631250.63	4175400.50	46.55051 (06011109)	631250.63	4175500.50	52.70071 (06011109)
631250.63	4175600.50	58.35331 (06011109)	631250.63	4175700.50	60.88458 (06121421)
631250.63	4175800.50	80.87991 (06011617)	631250.63	4175900.50	147.08162 (07010217)
631250.63	4176000.50	432.48973 (07012418)	631250.63	4176100.50	117.88270 (05122401)
631350.63	4175100.50	27.95915 (07011417)	631350.63	4175200.50	30.08576 (07011417)
631350.63	4175300.50	34.82917 (06011109)	631350.63	4175400.50	44.01516 (06011109)
631350.63	4175500.50	50.76478 (06011109)	631350.63	4175600.50	53.24883 (06011109)
631350.63	4175700.50	59.59441 (06011617)	631350.63	4175800.50	81.34328 (07010217)
631350.63	4175900.50	148.25160 (07010217)	631350.63	4176000.50	438.76183 (07012318)
631350.63	4176100.50	121.33046 (05122401)	631450.63	4175100.50	27.98007 (07011417)
631450.63	4175200.50	30.07299 (07011417)	631450.63	4175300.50	32.55203 (07011417)
631450.63	4175400.50	34.56415 (08022002)	631450.63	4175500.50	43.46632 (06011109)
631450.63	4175600.50	52.21591 (05012117)	631450.63	4175700.50	59.66753 (06011617)
631450.63	4175800.50	83.50343 (07010217)	631450.63	4175900.50	147.87590 (07010217)
631450.63	4176000.50	450.05410 (07012318)	631450.63	4176100.50	123.82470 (05122401)
631550.63	4175100.50	27.52930 (07011417)	631550.63	4175200.50	29.54617 (07011417)
631550.63	4175300.50	32.44296 (07011417)	631550.63	4175400.50	34.63673 (06121420)
631550.63	4175500.50	39.72535 (06011617)	631550.63	4175600.50	47.98545 (05012117)
631550.63	4175700.50	59.53597 (06011617)	631550.63	4175800.50	84.73722 (07010217)
631550.63	4175900.50	146.63076 (07010217)	631550.63	4176000.50	458.63076 (07012318)
631550.63	4176100.50	122.79378 (05122401)	631650.63	4175100.50	27.23675 (07011417)
631650.63	4175200.50	29.35266 (07011417)	631650.63	4175300.50	30.90430 (07012317)
631650.63	4175400.50	34.08364 (06011617)	631650.63	4175500.50	39.81869 (06011617)
631650.63	4175600.50	47.46511 (06011617)	631650.63	4175700.50	58.98235 (06011617)
631650.63	4175800.50	84.68710 (07010217)	631650.63	4175900.50	144.61668 (07010217)
631650.63	4176000.50	466.61864 (07012318)	631650.63	4176100.50	122.45367 (08010924)
631750.63	4175100.50	27.49570 (07011417)	631750.63	4175200.50	29.57883 (07012317)
631750.63	4175300.50	29.87954 (07012317)	631750.63	4175400.50	34.32485 (06011617)
631750.63	4175500.50	39.75350 (06011617)	631750.63	4175600.50	46.98635 (06011617)
631750.63	4175700.50	57.78444 (06011617)	631750.63	4175800.50	83.58043 (07010217)
631750.63	4175900.50	140.97747 (07010217)	631750.63	4176000.50	472.12950 (07012318)
631750.63	4176100.50	120.75913 (07120624)	631850.63	4175100.50	25.90910 (07011417)
631850.63	4175200.50	26.94998 (07012317)	631850.63	4175300.50	30.14442 (06011617)
631850.63	4175400.50	34.34829 (06011617)	631850.63	4175500.50	39.34451 (06011617)
631850.63	4175600.50	46.14126 (06011617)	631850.63	4175700.50	57.16417 (07010217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0004262 , L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 , L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 , L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	81.58694	(07010217)	631850.63	4175900.50	133.82823	(07010217)
631850.63	4176000.50	437.52456	(06121322)	631850.63	4176100.50	116.39815	(06012918)
631950.63	4175100.50	27.11550	(07011417)	631950.63	4175200.50	27.48712	(07011417)
631950.63	4175300.50	30.28275	(06011617)	631950.63	4175400.50	34.06571	(06011617)
631950.63	4175500.50	38.79779	(06011617)	631950.63	4175600.50	45.29838	(06011617)
631950.63	4175700.50	57.06651	(07010217)	631950.63	4175800.50	79.46933	(07010217)
631950.63	4175900.50	126.73012	(08011001)	631950.63	4176000.50	217.61447	(04122902)
631950.63	4176100.50	112.52921	(06012918)	632050.63	4175100.50	24.45640	(04022318)
632050.63	4175200.50	27.04368	(06011617)	632050.63	4175300.50	30.24384	(06011617)
632050.63	4175400.50	33.77772	(06011617)	632050.63	4175500.50	38.30757	(06011617)
632050.63	4175600.50	44.55540	(06011617)	632050.63	4175700.50	57.00294	(07010217)
632050.63	4175800.50	77.63875	(07010217)	632050.63	4175900.50	113.44534	(08011020)
632050.63	4176000.50	150.07653	(04122902)	632050.63	4176100.50	105.67334	(05012018)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	106.38184	(05011817)	632304.44	4174354.52	73.12600	(05011817)
632192.15	4174956.32	96.30957	(08071406)	632420.62	4175510.15	136.92319	(06052002)
632418.97	4175552.92	138.31061	(07080303)	631187.00	4175727.00	206.89423	(05030403)
631166.00	4175729.00	200.71967	(05030403)	631121.00	4175719.00	191.54221	(05030403)
631035.00	4174830.00	100.71114	(08121017)	631106.00	4174825.00	103.07004	(06011109)
631937.00	4174528.00	87.25281	(04102617)	631322.00	4174522.00	96.15961	(06102817)
629800.63	4173850.44	12.52254	(04012317)	630150.63	4173850.44	22.82397	(04012317)
630500.63	4173850.44	46.56191	(06011109)	630850.63	4173850.44	44.86919	(06011021)
631200.63	4173850.44	46.26349	(06102817)	631550.63	4173850.44	50.45918	(05050803)
631900.63	4173850.44	47.24239	(05021805)	632250.63	4173850.44	49.72315	(07020623)
632600.63	4173850.44	52.24226	(08071406)	632950.63	4173850.44	45.32109	(05020818)
633300.63	4173850.44	41.79913	(05011520)	629800.63	4174200.44	22.60873	(07031618)
630150.63	4174200.44	31.66689	(04012317)	630500.63	4174200.44	53.35711	(04012317)
630850.63	4174200.44	74.75426	(06011109)	631200.63	4174200.44	76.18701	(06102817)
631550.63	4174200.44	68.61308	(06121420)	631900.63	4174200.44	68.27767	(04122823)
632250.63	4174200.44	59.48925	(08071405)	632600.63	4174200.44	50.22967	(06051924)
632950.63	4174200.44	52.97823	(08031018)	633300.63	4174200.44	48.10802	(04022018)
629800.63	4174550.44	44.62210	(04011017)	630150.63	4174550.44	49.74047	(04101819)
630500.63	4174550.44	67.55437	(05110618)	630850.63	4174550.44	78.21902	(07121217)
631200.63	4174550.44	89.44383	(05030118)	631550.63	4174550.44	87.30587	(08081805)
631900.63	4174550.44	81.68027	(04102617)	632250.63	4174550.44	82.98890	(05011817)
632600.63	4174550.44	74.01470	(08031018)	632950.63	4174550.44	63.68632	(05011317)

633300.63	4174550.44	49.84290	(05110817)	629800.63	4174900.44	43.32914	(05112423)
630150.63	4174900.44	58.51093	(04022118)	630500.63	4174900.44	79.07962	(07020624)
630850.63	4174900.44	99.29582	(05110618)	631200.63	4174900.44	118.76731	(06011109)
631550.63	4174900.44	114.36957	(07100818)	631900.63	4174900.44	111.15200	(04102617)
632250.63	4174900.44	85.04428	(08090903)	632600.63	4174900.44	83.99735	(05011317)
632950.63	4174900.44	72.94087	(05110817)	633300.63	4174900.44	57.14112	(05020802)
629800.63	4175250.44	58.76184	(04022207)	630150.63	4175250.44	70.65112	(07101502)
630500.63	4175250.44	92.59230	(06100918)	630850.63	4175250.44	120.98941	(04041823)
631200.63	4175250.44	150.24789	(05111717)	631550.63	4175250.44	198.92354	(07122718)
631900.63	4175250.44	169.92003	(04102617)	632250.63	4175250.44	116.94865	(04081924)
632600.63	4175250.44	99.05344	(07102905)	632950.63	4175250.44	75.84434	(04022223)
633300.63	4175250.44	59.21764	(07010217)	629800.63	4175600.44	56.95162	(06032819)
630150.63	4175600.44	77.85648	(06051906)	630500.63	4175600.44	110.57497	(06051906)
630850.63	4175600.44	145.44543	(06020109)	631200.63	4175600.44	304.03878	(06020109)
631550.63	4175600.44	328.41718	(06052306)	631900.63	4175600.44	279.22962	(08102618)
632250.63	4175600.44	167.46719	(08110218)	632600.63	4175600.44	126.48883	(04101518)
632950.63	4175600.44	82.21608	(06011618)	633300.63	4175600.44	66.35941	(05122223)
629800.63	4175950.44	52.02226	(05122618)	630150.63	4175950.44	63.02896	(05083119)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	96.26424	(05083119)	630850.63	4175950.44	126.12173	(05071702)
631200.63	4175950.44	169.44499	(06121423)	631550.63	4175950.44	164.12650	(04110906)
631900.63	4175950.44	601.24784	(06062806)	632250.63	4175950.44	265.98630	(08111818)
632600.63	4175950.44	141.32836	(05012018)	632950.63	4175950.44	100.46543	(07012418)
633300.63	4175950.44	69.43671	(07012318)	629800.63	4176300.44	47.26533	(06011217)
630150.63	4176300.44	63.60118	(06011217)	630500.63	4176300.44	74.00003	(05030321)
630850.63	4176300.44	93.02851	(06033021)	631200.63	4176300.44	112.44318	(07080103)
631550.63	4176300.44	132.09547	(06110119)	631900.63	4176300.44	189.98548	(05072006)
632250.63	4176300.44	217.16791	(04101619)	632600.63	4176300.44	142.25826	(07112517)
632950.63	4176300.44	98.90088	(05011418)	633300.63	4176300.44	75.27059	(05122401)
629800.63	4176650.44	49.20863	(07120622)	630150.63	4176650.44	51.16549	(05030322)
630500.63	4176650.44	62.60174	(06041301)	630850.63	4176650.44	73.38193	(07082502)
631200.63	4176650.44	85.42307	(05081406)	631550.63	4176650.44	96.68706	(05112506)
631900.63	4176650.44	126.20359	(04111519)	632250.63	4176650.44	147.22733	(07092304)
632600.63	4176650.44	109.70628	(06040701)	632950.63	4176650.44	100.74947	(08021808)
633300.63	4176650.44	68.87399	(04121022)	629800.63	4177000.44	42.27459	(06122121)
630150.63	4177000.44	47.93671	(04021520)	630500.63	4177000.44	51.09302	(04021521)
630850.63	4177000.44	58.02717	(04121223)	631200.63	4177000.44	64.88390	(07090905)
631550.63	4177000.44	71.63711	(07102902)	631900.63	4177000.44	84.81533	(04111519)
632250.63	4177000.44	94.33208	(06100919)	632600.63	4177000.44	82.82103	(05121423)
632950.63	4177000.44	71.87886	(05021219)	633300.63	4177000.44	60.99634	(08121517)

629800.63	4177350.44	31.38551	(04021520)	630150.63	4177350.44	37.12186	(04021521)
630500.63	4177350.44	40.33411	(04121223)	630850.63	4177350.44	50.13744	(07122917)
631200.63	4177350.44	61.34227	(08091907)	631550.63	4177350.44	54.64433	(06021703)
631900.63	4177350.44	58.08276	(05122220)	632250.63	4177350.44	71.25925	(04121819)
632600.63	4177350.44	69.03968	(06010520)	632950.63	4177350.44	80.35056	(06062806)
633300.63	4177350.44	48.88755	(05021219)	631670.70	4175493.59	228.18308	(06081406)
631669.80	4175641.41	572.16536	(06062806)	631665.32	4175796.39	151.60093	(06072903)
631417.17	4175826.85	361.33455	(05030402)	631417.17	4175673.66	352.30806	(06121422)
631422.55	4175484.63	172.18271	(05111717)	631268.42	4175983.74	163.14216	(05111617)
631275.69	4175523.99	262.66043	(06020109)	631345.65	4175419.50	249.60241	(05111717)
631384.72	4175441.30	168.08947	(05111717)	631491.93	4175442.21	160.16487	(04012317)
631491.93	4175414.95	157.19239	(04012317)	631385.63	4175413.14	154.48516	(05111717)
631358.37	4175395.87	223.76735	(05111717)	631409.25	4175336.81	150.75557	(05111717)
631567.35	4175235.96	227.60762	(05030118)	631756.33	4175028.80	117.08432	(07030618)
631807.22	4175003.36	121.12351	(07030618)	631867.18	4174987.91	114.75807	(05110722)
631849.92	4175988.28	437.44389	(06080603)	631268.74	4175963.75	169.88690	(06121423)
631269.05	4175943.76	181.99758	(06121423)	631269.37	4175923.77	187.56897	(06121423)
631269.68	4175903.78	191.80681	(06041503)	631270.00	4175883.79	196.68870	(05071702)
631270.32	4175863.81	228.74561	(05083119)	631270.63	4175843.82	239.02103	(05083119)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	248.79705	(06072903)	631271.26	4175803.84	251.90077	(06072903)
631271.58	4175783.85	248.70849	(06041223)	631271.90	4175763.86	243.01314	(06041223)
631272.21	4175743.87	236.07782	(05030403)	631272.53	4175723.88	236.73174	(07110902)
631272.85	4175703.89	263.13196	(06020109)	631273.16	4175683.90	287.00164	(06020109)
631273.48	4175663.91	305.91270	(06020109)	631273.79	4175643.92	318.85531	(06020109)
631274.11	4175623.94	324.09924	(06020109)	631274.43	4175603.95	323.68384	(06020109)
631274.74	4175583.96	316.56679	(06020109)	631275.06	4175563.97	303.36752	(06020109)
631275.37	4175543.98	285.01708	(06020109)	631285.68	4175509.06	240.58001	(06020109)
631295.68	4175494.14	223.07099	(08081806)	631305.67	4175479.21	243.33868	(08081806)
631315.67	4175464.28	256.47348	(08081806)	631325.66	4175449.35	260.32998	(08081806)
631335.66	4175434.43	257.64570	(08081806)	631358.67	4175426.77	297.25411	(05111717)
631371.70	4175434.03	166.73314	(05072102)	631402.59	4175441.45	175.46459	(05111717)
631420.46	4175441.60	177.06036	(05111717)	631438.33	4175441.76	170.94144	(05111717)
631456.19	4175441.91	163.46807	(04012317)	631474.06	4175442.06	163.25085	(04012317)
631491.93	4175428.58	159.28182	(04012317)	631474.21	4175414.65	163.52320	(04012317)
631456.50	4175414.35	167.42381	(04012317)	631438.78	4175414.05	167.97578	(04012317)
631421.06	4175413.74	162.57225	(04012317)	631403.35	4175413.44	159.29496	(05111717)
631372.00	4175404.51	267.13294	(05110618)	631371.09	4175381.11	214.22630	(05111717)
631383.81	4175366.34	224.51663	(08121017)	631396.53	4175351.58	181.49314	(07121217)
631425.06	4175326.73	144.40142	(08121017)	631440.87	4175316.64	146.80837	(08121017)

631456.68	4175306.56	140.36908	(08121017)	631472.49	4175296.47	130.93642	(08121017)
631488.30	4175286.39	130.25088	(07110901)	631504.11	4175276.30	130.03681	(04101605)
631519.92	4175266.22	127.69673	(04112417)	631535.73	4175256.13	141.01984	(08121017)
631551.54	4175246.05	236.75338	(05030118)	631579.95	4175222.15	243.41577	(06102817)
631592.55	4175208.34	236.01858	(06102817)	631605.15	4175194.53	207.50558	(06102817)
631617.74	4175180.72	173.00809	(06102817)	631630.34	4175166.91	158.29207	(07100818)
631642.94	4175153.10	154.20815	(07100818)	631655.54	4175139.29	150.21033	(08081805)
631668.14	4175125.47	149.29713	(08081805)	631680.74	4175111.66	146.11952	(08081805)
631693.34	4175097.85	140.65823	(08081805)	631705.94	4175084.04	133.42577	(08081805)
631718.53	4175070.23	124.71506	(08081805)	631731.13	4175056.42	115.04235	(05050803)
631743.73	4175042.61	114.03984	(07030618)	631773.29	4175020.32	120.63136	(07030618)
631790.26	4175011.84	121.99075	(07030618)	631822.21	4174999.50	120.91867	(05110722)
631837.20	4174995.64	120.43179	(05110722)	631852.19	4174991.77	118.34686	(05110722)
631866.84	4175007.53	117.38018	(04102617)	631866.50	4175027.14	120.36438	(04102617)
631866.16	4175046.76	123.57147	(04102617)	631865.83	4175066.37	126.81232	(04102617)
631865.49	4175085.99	130.14212	(04102617)	631865.15	4175105.60	133.55849	(04102617)
631864.81	4175125.22	137.13281	(04102617)	631864.47	4175144.83	140.86078	(04102617)
631864.13	4175164.45	144.77573	(04102617)	631863.80	4175184.06	148.92714	(04102617)
631863.46	4175203.68	153.34447	(04102617)	631863.12	4175223.29	167.69787	(04102617)
631862.78	4175242.91	178.55890	(04102617)	631862.44	4175262.52	182.83931	(04102617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	188.15538	(04102617)	631861.77	4175301.75	159.56295	(05110722)
631861.43	4175321.37	167.15892	(05110722)	631861.09	4175340.98	175.23107	(05110722)
631860.75	4175360.60	183.81312	(05110722)	631860.41	4175380.21	215.23577	(04102623)
631860.07	4175399.83	225.69884	(04102623)	631859.73	4175419.44	237.00220	(04102623)
631859.40	4175439.06	249.19565	(04102623)	631859.06	4175458.67	262.31569	(04102623)
631858.72	4175478.29	276.38731	(04102623)	631858.38	4175497.90	325.29318	(04102617)
631858.04	4175517.52	344.48947	(04102617)	631857.70	4175537.13	364.68979	(04102617)
631857.37	4175556.75	385.57911	(04102617)	631857.03	4175576.36	406.53365	(04102617)
631856.69	4175595.98	426.52245	(04102617)	631856.35	4175615.59	443.63515	(04102617)
631856.01	4175635.21	446.69504	(04102617)	631855.67	4175654.82	447.92727	(04102617)
631855.33	4175674.44	430.14916	(04102617)	631855.00	4175694.05	527.80064	(08102618)
631854.66	4175713.67	469.32301	(08102618)	631854.32	4175733.28	482.19543	(08071406)
631853.98	4175752.90	237.62959	(08071406)	631853.64	4175772.51	207.88135	(08102318)
631853.30	4175792.13	327.16907	(07121418)	631852.97	4175811.74	1118.51008	(08112619)
631852.63	4175831.36	1201.49564	(06111908)	631852.29	4175850.97	1114.34057	(06052306)
631851.95	4175870.59	1050.00404	(06062806)	631851.61	4175890.20	981.43008	(06062806)
631851.27	4175909.82	809.15652	(08062724)	631850.94	4175929.43	885.86479	(07102901)
631850.60	4175949.05	891.81343	(06100919)	631850.26	4175968.66	501.49718	(07102901)
631830.54	4175988.13	406.19370	(06080603)	631811.15	4175987.98	406.12459	(05072006)

631791.77	4175987.83	389.49586	(04111519)	631772.39	4175987.67	331.87185	(04111519)
631753.00	4175987.52	274.58420	(07080306)	631733.62	4175987.37	269.60698	(05042719)
631714.24	4175987.22	251.44141	(05042719)	631694.85	4175987.07	220.77597	(05042719)
631675.47	4175986.92	234.96558	(06110119)	631656.09	4175986.77	208.05986	(06110119)
631636.70	4175986.62	177.18217	(06110119)	631617.32	4175986.46	208.04162	(05081406)
631597.94	4175986.31	183.40693	(05081406)	631578.55	4175986.16	213.38395	(04110906)
631559.17	4175986.01	227.39572	(07080103)	631539.79	4175985.86	248.64344	(04082001)
631520.40	4175985.71	243.40421	(04082001)	631501.02	4175985.56	245.47183	(06033021)
631481.64	4175985.40	241.23228	(06033021)	631462.25	4175985.25	205.37512	(06033021)
631442.87	4175985.10	203.38153	(06033021)	631423.49	4175984.95	199.86978	(06033021)
631404.10	4175984.80	194.98098	(06033021)	631384.72	4175984.65	191.36418	(08081602)
631365.34	4175984.50	186.86388	(08081602)	631345.95	4175984.35	181.65452	(05072902)
631326.57	4175984.19	176.61969	(05072902)	631307.19	4175984.04	170.90805	(05072902)
631287.80	4175983.89	165.89099	(05111617)	631050.63	4175100.50	126.13077	(05111717)
631050.63	4175200.50	132.10354	(08081806)	631050.63	4175300.50	143.84518	(05072102)
631050.63	4175400.50	178.61421	(06020109)	631050.63	4175500.50	249.36797	(06020109)
631050.63	4175600.50	238.79663	(06020109)	631050.63	4175700.50	179.11815	(07110902)
631050.63	4175800.50	192.64763	(06072903)	631050.63	4175900.50	169.79527	(05083119)
631050.63	4176000.50	144.08806	(06121423)	631050.63	4176100.50	129.43215	(05072902)
631150.63	4175100.50	137.72726	(04012317)	631150.63	4175200.50	141.20957	(05111717)
631150.63	4175300.50	148.40696	(08081806)	631150.63	4175400.50	161.34936	(05072102)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	258.13961	(06020109)	631150.63	4175600.50	284.96853	(06020109)
631150.63	4175700.50	198.55151	(06020109)	631150.63	4175800.50	215.33230	(06072903)
631150.63	4175900.50	170.86144	(05071702)	631150.63	4176000.50	145.47520	(06121423)
631150.63	4176100.50	138.22442	(06033021)	631250.63	4175100.50	131.90304	(08121017)
631250.63	4175200.50	159.68768	(04012317)	631250.63	4175300.50	164.95542	(05111717)
631250.63	4175400.50	176.36726	(08081806)	631250.63	4175500.50	241.67061	(06020109)
631250.63	4175600.50	318.31346	(06020109)	631250.63	4175700.50	254.03713	(06020109)
631250.63	4175800.50	242.75332	(06072903)	631250.63	4175900.50	187.69129	(06041503)
631250.63	4176000.50	156.55200	(05051724)	631250.63	4176100.50	138.77731	(06033021)
631350.63	4175100.50	144.65482	(06011109)	631350.63	4175200.50	155.85021	(08121017)
631350.63	4175300.50	193.51730	(04012317)	631350.63	4175400.50	245.27891	(04012317)
631350.63	4175500.50	317.83810	(05072102)	631350.63	4175600.50	305.95481	(07110617)
631350.63	4175700.50	378.82185	(04041821)	631350.63	4175800.50	289.97990	(06072903)
631350.63	4175900.50	214.37242	(06121423)	631350.63	4176000.50	180.25000	(08081602)
631350.63	4176100.50	152.52803	(04082001)	631450.63	4175100.50	143.00304	(05030118)
631450.63	4175200.50	167.71537	(04101605)	631450.63	4175300.50	175.44499	(06041020)
631450.63	4175400.50	166.65056	(04012317)	631450.63	4175500.50	168.32965	(05111717)
631450.63	4175600.50	169.94486	(06051905)	631450.63	4175700.50	213.84704	(06121422)

631450.63	4175800.50	427.70673	(06072903)	631450.63	4175900.50	300.21288	(06121423)
631450.63	4176000.50	192.15430	(06033021)	631450.63	4176100.50	159.75686	(07082502)
631550.63	4175100.50	159.90117	(06102817)	631550.63	4175200.50	179.34083	(06102817)
631550.63	4175300.50	128.56905	(04101605)	631550.63	4175400.50	140.44195	(08121017)
631550.63	4175500.50	227.48572	(06062806)	631550.63	4175600.50	328.26973	(06052306)
631550.63	4175700.50	323.51800	(07121418)	631550.63	4175800.50	275.89309	(06072903)
631550.63	4175900.50	113.93688	(06121423)	631550.63	4176000.50	237.70841	(04082001)
631550.63	4176100.50	170.55932	(05112504)	631650.63	4175100.50	142.37981	(08081805)
631650.63	4175200.50	198.56506	(06102817)	631650.63	4175300.50	114.20297	(06102817)
631650.63	4175400.50	110.39255	(07102901)	631650.63	4175500.50	260.45963	(06081406)
631650.63	4175600.50	469.24986	(06062806)	631650.63	4175700.50	612.85704	(04121018)
631650.63	4175800.50	168.92567	(06072903)	631650.63	4175900.50	68.51775	(06121423)
631650.63	4176000.50	204.55055	(06110119)	631650.63	4176100.50	185.80522	(06110119)
631750.63	4175100.50	124.95188	(07030618)	631750.63	4175200.50	173.00492	(05050803)
631750.63	4175300.50	64.56867	(05050803)	631750.63	4175400.50	73.40845	(06102817)
631750.63	4175500.50	154.58413	(04020106)	631750.63	4175600.50	303.64490	(04020106)
631750.63	4175700.50	568.92789	(08062724)	631750.63	4175800.50	583.09855	(07121418)
631750.63	4175900.50	174.33902	(04020106)	631750.63	4176000.50	266.76458	(07080306)
631750.63	4176100.50	208.02249	(04111019)	631850.63	4175100.50	132.64204	(05110722)
631850.63	4175200.50	148.95171	(04102617)	631850.63	4175300.50	166.45602	(05110722)
631850.63	4175400.50	214.92591	(05110722)	631850.63	4175500.50	304.93044	(04102623)
631850.63	4175600.50	454.11929	(04102617)	631850.63	4175700.50	564.11564	(08102618)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	564.51526	(07121418)	631850.63	4175900.50	881.78505	(06062806)
631850.63	4176000.50	417.07581	(06080603)	631850.63	4176100.50	283.39654	(05072006)
631950.63	4175100.50	121.10927	(04102617)	631950.63	4175200.50	130.74342	(08102618)
631950.63	4175300.50	173.26722	(05011817)	631950.63	4175400.50	172.12336	(08102618)
631950.63	4175500.50	249.18667	(08071406)	631950.63	4175600.50	211.96922	(08071406)
631950.63	4175700.50	339.29190	(06052002)	631950.63	4175800.50	490.63042	(04030118)
631950.63	4175900.50	568.14256	(07112517)	631950.63	4176000.50	503.49237	(06062806)
631950.63	4176100.50	358.39149	(08062724)	632050.63	4175100.50	123.41658	(05011817)
632050.63	4175200.50	133.90109	(08071406)	632050.63	4175300.50	137.96728	(08071406)
632050.63	4175400.50	185.55770	(08031018)	632050.63	4175500.50	192.03302	(08031018)
632050.63	4175600.50	235.07687	(07102905)	632050.63	4175700.50	256.39001	(04110905)
632050.63	4175800.50	371.87299	(07102804)	632050.63	4175900.50	440.77399	(06111908)
632050.63	4176000.50	385.50481	(06052306)	632050.63	4176100.50	349.57987	(06062806)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	120.20545	(07102905)	632304.44	4174354.52	73.96835	(08031018)
632192.15	4174956.32	115.67453	(07102905)	632420.62	4175510.15	149.13262	(04082203)
632418.97	4175552.92	150.73469	(07091005)	631187.00	4175727.00	166.96947	(04110906)
631166.00	4175729.00	157.11101	(07082502)	631121.00	4175719.00	150.68751	(07080103)
631035.00	4174830.00	222.61252	(04012317)	631106.00	4174825.00	206.14576	(08121017)
631937.00	4174528.00	92.95744	(08071406)	631322.00	4174522.00	119.58361	(07100818)
629800.63	4173850.44	17.99196	(06121421)	630150.63	4173850.44	36.53588	(04012317)
630500.63	4173850.44	72.59151	(06011109)	630850.63	4173850.44	63.12855	(06102817)
631200.63	4173850.44	51.89054	(08081805)	631550.63	4173850.44	51.74834	(07030618)
631900.63	4173850.44	49.43083	(04102617)	632250.63	4173850.44	54.94271	(08071406)
632600.63	4173850.44	53.89424	(08031018)	632950.63	4173850.44	48.72389	(05011317)
633300.63	4173850.44	39.69442	(05011417)	629800.63	4174200.44	25.03918	(07020624)
630150.63	4174200.44	52.19488	(06121421)	630500.63	4174200.44	95.71853	(04012317)
630850.63	4174200.44	107.34856	(06011109)	631200.63	4174200.44	82.55924	(07100818)
631550.63	4174200.44	75.32580	(05110722)	631900.63	4174200.44	71.66043	(05011817)
632250.63	4174200.44	67.94876	(08031018)	632600.63	4174200.44	63.58491	(05011317)
632950.63	4174200.44	53.79485	(05011417)	633300.63	4174200.44	45.06805	(06011617)
629800.63	4174550.44	48.56287	(07111023)	630150.63	4174550.44	79.78515	(04011017)
630500.63	4174550.44	98.92061	(06121421)	630850.63	4174550.44	129.68141	(08121017)
631200.63	4174550.44	179.26153	(06102817)	631550.63	4174550.44	105.76201	(05110722)
631900.63	4174550.44	99.86304	(08071406)	632250.63	4174550.44	83.16420	(08090905)
632600.63	4174550.44	76.87845	(05110817)	632950.63	4174550.44	61.11908	(05020802)
633300.63	4174550.44	53.58599	(04022223)	629800.63	4174900.44	60.22546	(04022207)
630150.63	4174900.44	69.03339	(07110617)	630500.63	4174900.44	120.03183	(04041822)
630850.63	4174900.44	181.24820	(08081806)	631200.63	4174900.44	273.22900	(06011109)
631550.63	4174900.44	157.10746	(05110722)	631900.63	4174900.44	124.03475	(06052001)
632250.63	4174900.44	109.11306	(07102905)	632600.63	4174900.44	86.72431	(06052002)
632950.63	4174900.44	71.03212	(07010217)	633300.63	4174900.44	57.59180	(07020218)
629800.63	4175250.44	56.81500	(06032819)	630150.63	4175250.44	81.50442	(06032819)
630500.63	4175250.44	119.50144	(06051906)	630850.63	4175250.44	181.15577	(04041821)
631200.63	4175250.44	361.71995	(04041822)	631550.63	4175250.44	324.25167	(05011817)
631900.63	4175250.44	202.32847	(07080303)	632250.63	4175250.44	153.22068	(04101518)
632600.63	4175250.44	114.66248	(04030118)	632950.63	4175250.44	84.85952	(05121217)
633300.63	4175250.44	64.90281	(05011522)	629800.63	4175600.44	51.67363	(07042002)
630150.63	4175600.44	71.60678	(07042002)	630500.63	4175600.44	97.73030	(06041503)
630850.63	4175600.44	136.29513	(06011217)	631200.63	4175600.44	192.80309	(05081503)
631550.63	4175600.44	232.78853	(06102817)	631900.63	4175600.44	192.42469	(06102818)
632250.63	4175600.44	165.40411	(08010919)	632600.63	4175600.44	130.25806	(06121320)
632950.63	4175600.44	101.78066	(07012418)	633300.63	4175600.44	70.08801	(07012318)
629800.63	4175950.44	53.88977	(06011217)	630150.63	4175950.44	66.92570	(07120622)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** *** 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	83.94236	(06080604)	630850.63	4175950.44	106.60654	(07080103)
631200.63	4175950.44	127.96017	(04083005)	631550.63	4175950.44	174.59150	(06052305)
631900.63	4175950.44	173.35641	(08102318)	632250.63	4175950.44	128.32631	(08040221)
632600.63	4175950.44	105.80430	(04111606)	632950.63	4175950.44	92.40757	(06121503)
633300.63	4175950.44	69.43687	(05122401)	629800.63	4176300.44	47.82932	(05030322)
630150.63	4176300.44	58.29365	(06041301)	630500.63	4176300.44	69.18581	(07010318)
630850.63	4176300.44	83.85182	(04101820)	631200.63	4176300.44	102.44086	(08091907)
631550.63	4176300.44	108.57508	(06052305)	631900.63	4176300.44	116.80817	(07091007)
632250.63	4176300.44	120.05333	(06062806)	632600.63	4176300.44	98.19364	(06052306)
632950.63	4176300.44	79.86062	(04121101)	633300.63	4176300.44	61.57368	(04121024)
629800.63	4176650.44	46.11556	(04021520)	630150.63	4176650.44	51.28268	(04021521)
630500.63	4176650.44	55.98547	(04121223)	630850.63	4176650.44	63.95442	(07021218)
631200.63	4176650.44	74.47495	(05112506)	631550.63	4176650.44	82.31920	(05112507)
631900.63	4176650.44	96.54155	(07091007)	632250.63	4176650.44	84.78864	(06072006)
632600.63	4176650.44	83.47455	(06062806)	632950.63	4176650.44	66.98636	(06122320)
633300.63	4176650.44	61.55843	(08021808)	629800.63	4177000.44	37.44523	(04021521)
630150.63	4177000.44	44.08872	(04120903)	630500.63	4177000.44	52.58190	(07122917)
630850.63	4177000.44	63.42938	(08091907)	631200.63	4177000.44	63.23210	(07021108)
631550.63	4177000.44	66.73686	(07122904)	631900.63	4177000.44	67.07642	(04081203)
632250.63	4177000.44	67.10242	(05022620)	632600.63	4177000.44	62.02453	(04121820)
632950.63	4177000.44	56.38488	(08122905)	633300.63	4177000.44	53.25719	(08021908)
629800.63	4177350.44	35.65129	(04120903)	630150.63	4177350.44	38.42330	(07012719)
630500.63	4177350.44	42.96805	(07021218)	630850.63	4177350.44	51.83913	(08091907)
631200.63	4177350.44	50.44396	(06021703)	631550.63	4177350.44	54.50784	(07122904)
631900.63	4177350.44	56.98880	(05122402)	632250.63	4177350.44	55.64845	(06012820)
632600.63	4177350.44	53.11521	(06120218)	632950.63	4177350.44	54.84762	(06062806)
633300.63	4177350.44	39.00032	(08122905)	631670.70	4175493.59	587.45937	(05072102)
631669.80	4175641.41	341.72047	(06011109)	631665.32	4175796.39	120.16800	(06102817)
631417.17	4175826.85	205.80897	(07102902)	631417.17	4175673.66	280.27677	(05112506)
631422.55	4175484.63	385.59857	(05122507)	631268.42	4175983.74	131.87590	(06110119)
631275.69	4175523.99	255.09892	(05061703)	631345.65	4175419.50	457.57823	(05083119)
631384.72	4175441.30	515.97524	(06121423)	631491.93	4175442.21	375.49155	(06011109)
631491.93	4175414.95	599.66239	(04012317)	631385.63	4175413.14	539.79301	(05071702)
631358.37	4175395.87	466.69788	(06072903)	631409.25	4175336.81	725.43243	(05072102)
631567.35	4175235.96	275.86254	(05110722)	631756.33	4175028.80	161.42938	(08031018)
631807.22	4175003.36	151.14168	(08031018)	631867.18	4174987.91	137.96640	(04081924)
631849.92	4175988.28	171.12341	(08091905)	631268.74	4175963.75	134.72433	(06110119)
631269.05	4175943.76	137.14111	(06110119)	631269.37	4175923.77	138.97647	(06110119)
631269.68	4175903.78	143.88370	(06110119)	631270.00	4175883.79	149.34651	(06110119)
631270.32	4175863.81	149.85297	(04083005)	631270.63	4175843.82	168.33568	(04083005)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	172.26126	(04083005)	631271.26	4175803.84	176.04949	(07090904)
631271.58	4175783.85	181.56849	(05081406)	631271.90	4175763.86	184.20970	(04101820)
631272.21	4175743.87	187.78512	(04101820)	631272.53	4175723.88	193.46357	(05112504)
631272.85	4175703.89	185.46532	(07090904)	631273.16	4175683.90	192.11405	(07082502)
631273.48	4175663.91	205.87224	(07082502)	631273.79	4175643.92	216.97188	(07082502)
631274.11	4175623.94	199.85664	(04082001)	631274.43	4175603.95	232.91085	(04082001)
631274.74	4175583.96	244.07502	(04082001)	631275.06	4175563.97	246.22537	(04082001)
631275.37	4175543.98	251.26589	(07102702)	631285.68	4175509.06	260.28701	(08081602)
631295.68	4175494.14	299.61441	(08081602)	631305.67	4175479.21	321.96503	(05111617)
631315.67	4175464.28	332.47562	(05111617)	631325.66	4175449.35	350.29075	(06121423)
631335.66	4175434.43	378.95000	(05071702)	631358.67	4175426.77	430.10082	(05071702)
631371.70	4175434.03	491.27031	(05071702)	631402.59	4175441.45	525.66106	(06121423)
631420.46	4175441.60	529.64429	(06121423)	631438.33	4175441.76	246.72162	(05081406)
631456.19	4175441.91	208.27809	(07090905)	631474.06	4175442.06	296.19785	(06110119)
631491.93	4175428.58	469.34524	(06011109)	631474.21	4175414.65	395.10920	(04012317)
631456.50	4175414.35	290.37266	(05083119)	631438.78	4175414.05	341.78840	(05083119)
631421.06	4175413.74	598.84270	(05071702)	631403.35	4175413.44	567.46897	(05071702)
631372.00	4175404.51	506.90298	(05030320)	631371.09	4175381.11	532.16313	(06092418)
631383.81	4175366.34	607.91756	(04041821)	631396.53	4175351.58	693.73401	(07110617)
631425.06	4175326.73	1065.43983	(08081806)	631440.87	4175316.64	1240.09311	(05111717)
631456.68	4175306.56	962.44193	(05111717)	631472.49	4175296.47	792.63693	(06011109)
631488.30	4175286.39	627.21273	(04101605)	631504.11	4175276.30	581.74588	(08081805)
631519.92	4175266.22	521.23232	(08081805)	631535.73	4175256.13	344.78555	(04102617)
631551.54	4175246.05	314.82815	(05011817)	631579.95	4175222.15	266.51562	(04102617)
631592.55	4175208.34	243.21679	(04102617)	631605.15	4175194.53	252.30383	(05011817)
631617.74	4175180.72	241.48569	(05011817)	631630.34	4175166.91	232.96462	(08071406)
631642.94	4175153.10	219.09319	(08071406)	631655.54	4175139.29	203.57117	(08090903)
631668.14	4175125.47	195.51982	(08090903)	631680.74	4175111.66	184.28350	(08090903)
631693.34	4175097.85	179.46284	(08090903)	631705.94	4175084.04	175.72411	(08031018)
631718.53	4175070.23	172.18458	(08031018)	631731.13	4175056.42	168.61340	(08031018)
631743.73	4175042.61	165.03074	(08031018)	631773.29	4175020.32	159.22980	(08031018)
631790.26	4175011.84	155.73491	(08031018)	631822.21	4174999.50	146.32330	(08031018)
631837.20	4174995.64	142.14252	(04081924)	631852.19	4174991.77	140.54118	(04081924)
631866.84	4175007.53	139.56374	(08090905)	631866.50	4175027.14	143.80151	(05011317)
631866.16	4175046.76	148.78136	(08090519)	631865.83	4175066.37	155.43219	(08090519)
631865.49	4175085.99	159.41343	(08090519)	631865.15	4175105.60	161.42675	(05011417)
631864.81	4175125.22	167.41865	(05110817)	631864.47	4175144.83	175.68446	(07102905)
631864.13	4175164.45	180.73319	(07102905)	631863.80	4175184.06	180.69978	(07102905)
631863.46	4175203.68	193.58816	(06052002)	631863.12	4175223.29	207.79553	(06052002)
631862.78	4175242.91	221.73942	(06052002)	631862.44	4175262.52	242.56031	(07080303)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***

INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	282.29071	(04110905)	631861.77	4175301.75	323.87368	(04101518)
631861.43	4175321.37	348.81156	(04101518)	631861.09	4175340.98	385.86440	(04083003)
631860.75	4175360.60	440.37317	(04083003)	631860.41	4175380.21	464.95555	(04083003)
631860.07	4175399.83	468.18187	(08091903)	631859.73	4175419.44	456.16663	(05030407)
631859.40	4175439.06	430.22774	(05030407)	631859.06	4175458.67	379.00725	(08021518)
631858.72	4175478.29	315.45580	(08021518)	631858.38	4175497.90	245.20923	(08021518)
631858.04	4175517.52	201.57438	(08010919)	631857.70	4175537.13	186.62363	(06111908)
631857.37	4175556.75	185.29163	(06102818)	631857.03	4175576.36	181.01984	(06102818)
631856.69	4175595.98	169.06057	(06102818)	631856.35	4175615.59	165.17079	(07112517)
631856.01	4175635.21	167.49438	(07092306)	631855.67	4175654.82	165.75523	(07092306)
631855.33	4175674.44	159.21727	(06052306)	631855.00	4175694.05	163.90018	(06052306)
631854.66	4175713.67	165.70132	(06110304)	631854.32	4175733.28	169.29158	(06110304)
631853.98	4175752.90	169.14808	(06110304)	631853.64	4175772.51	165.34255	(06110304)
631853.30	4175792.13	167.06012	(04082204)	631852.97	4175811.74	171.81685	(07102824)
631852.63	4175831.36	174.31664	(07102824)	631852.29	4175850.97	172.45270	(08040220)
631851.95	4175870.59	169.65389	(08040220)	631851.61	4175890.20	164.60672	(08040220)
631851.27	4175909.82	216.91544	(04082204)	631850.94	4175929.43	181.52094	(06062806)
631850.60	4175949.05	204.29104	(04050604)	631850.26	4175968.66	176.53094	(04050604)
631830.54	4175988.13	174.62144	(07092304)	631811.15	4175987.98	178.82508	(06081406)
631791.77	4175987.83	182.17293	(07091007)	631772.39	4175987.67	208.13262	(05082502)
631753.00	4175987.52	238.03497	(06100919)	631733.62	4175987.37	247.90383	(07102901)
631714.24	4175987.22	249.69647	(07102901)	631694.85	4175987.07	248.50454	(06080603)
631675.47	4175986.92	258.75718	(07091007)	631656.09	4175986.77	254.81919	(07091007)
631636.70	4175986.62	246.50337	(07091007)	631617.32	4175986.46	234.05942	(07091007)
631597.94	4175986.31	218.09309	(07091007)	631578.55	4175986.16	212.98823	(04111519)
631559.17	4175986.01	204.11432	(04111519)	631539.79	4175985.86	189.23238	(04111519)
631520.40	4175985.71	169.64221	(04111519)	631501.02	4175985.56	166.61234	(04111019)
631481.64	4175985.40	164.46087	(04111019)	631462.25	4175985.25	157.80153	(04111019)
631442.87	4175985.10	147.86716	(07080306)	631423.49	4175984.95	146.23318	(07080306)
631404.10	4175984.80	145.37807	(07102902)	631384.72	4175984.65	142.85522	(07102902)
631365.34	4175984.50	138.42330	(05042719)	631345.95	4175984.35	135.84866	(07071003)
631326.57	4175984.19	136.79074	(08091907)	631307.19	4175984.04	138.14799	(08091907)
631287.80	4175983.89	136.26072	(08091907)	631050.63	4175100.50	273.06716	(05072102)
631050.63	4175200.50	262.89883	(07110617)	631050.63	4175300.50	245.69205	(04041821)
631050.63	4175400.50	256.72705	(06072903)	631050.63	4175500.50	194.89915	(06041503)
631050.63	4175600.50	167.27894	(08081602)	631050.63	4175700.50	141.85651	(04082001)
631050.63	4175800.50	130.98760	(07080103)	631050.63	4175900.50	119.42608	(04110906)
631050.63	4176000.50	111.93190	(05112504)	631050.63	4176100.50	105.88419	(05081406)
631150.63	4175100.50	296.38962	(08081806)	631150.63	4175200.50	319.85057	(05030319)
631150.63	4175300.50	318.27734	(04041821)	631150.63	4175400.50	313.42067	(06072903)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***
INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	219.49936	(06121423)	631150.63	4175600.50	181.09039	(06033021)
631150.63	4175700.50	158.52593	(07080103)	631150.63	4175800.50	141.21270	(04110906)
631150.63	4175900.50	128.48576	(04101820)	631150.63	4176000.50	119.56645	(04083005)
631150.63	4176100.50	106.22816	(07090905)	631250.63	4175100.50	348.46062	(04012317)
631250.63	4175200.50	370.50327	(08081806)	631250.63	4175300.50	425.07258	(07110617)
631250.63	4175400.50	391.52449	(06072903)	631250.63	4175500.50	243.70135	(05072902)
631250.63	4175600.50	210.60333	(04082001)	631250.63	4175700.50	194.56185	(04110906)
631250.63	4175800.50	172.06849	(05081406)	631250.63	4175900.50	135.72583	(07090905)
631250.63	4176000.50	128.09619	(06110119)	631250.63	4176100.50	121.11064	(08091907)
631350.63	4175100.50	377.19882	(06011109)	631350.63	4175200.50	471.18900	(04012317)
631350.63	4175300.50	567.49241	(06051905)	631350.63	4175400.50	472.43572	(06072903)
631350.63	4175500.50	329.15739	(06033021)	631350.63	4175600.50	258.05609	(05122507)
631350.63	4175700.50	233.98996	(06110119)	631350.63	4175800.50	179.09376	(07071003)
631350.63	4175900.50	168.34731	(08091907)	631350.63	4176000.50	132.31561	(05042719)
631350.63	4176100.50	121.73613	(07102902)	631450.63	4175100.50	305.14607	(06102817)
631450.63	4175200.50	462.70614	(06102817)	631450.63	4175300.50	876.42914	(08121017)
631450.63	4175400.50	681.39433	(04041821)	631450.63	4175500.50	512.07128	(08091907)
631450.63	4175600.50	428.45068	(05042719)	631450.63	4175700.50	296.99459	(07080306)
631450.63	4175800.50	217.59859	(07030418)	631450.63	4175900.50	174.81287	(07030418)
631450.63	4176000.50	145.22400	(07030418)	631450.63	4176100.50	129.85741	(04111019)
631550.63	4175100.50	217.93067	(05110722)	631550.63	4175200.50	271.34416	(04102617)
631550.63	4175300.50	232.82032	(06102817)	631550.63	4175400.50	752.90398	(04022118)
631550.63	4175500.50	503.54289	(04101605)	631550.63	4175600.50	232.65655	(06102817)
631550.63	4175700.50	74.23205	(08081805)	631550.63	4175800.50	229.76794	(05020318)
631550.63	4175900.50	177.02045	(07122819)	631550.63	4176000.50	194.50046	(04111519)
631550.63	4176100.50	132.37069	(06052305)	631650.63	4175100.50	195.23074	(08071406)
631650.63	4175200.50	215.71040	(08071406)	631650.63	4175300.50	59.28334	(07102906)
631650.63	4175400.50	172.32892	(06012710)	631650.63	4175500.50	607.52528	(05122619)
631650.63	4175600.50	406.63623	(06011109)	631650.63	4175700.50	193.91035	(05030118)
631650.63	4175800.50	115.19465	(06102817)	631650.63	4175900.50	107.27581	(06080603)
631650.63	4176000.50	249.11933	(07091007)	631650.63	4176100.50	175.42266	(07091007)
631750.63	4175100.50	175.18665	(08031018)	631750.63	4175200.50	230.06546	(07102905)
631750.63	4175300.50	113.54541	(07102906)	631750.63	4175400.50	232.67826	(08091903)
631750.63	4175500.50	349.63950	(04041822)	631750.63	4175600.50	334.72312	(05111717)
631750.63	4175700.50	208.13533	(08121017)	631750.63	4175800.50	131.25628	(04050604)
631750.63	4175900.50	149.43040	(06081406)	631750.63	4176000.50	212.78240	(07091007)
631750.63	4176100.50	183.92318	(07091007)	631850.63	4175100.50	164.23648	(08090519)
631850.63	4175200.50	189.28566	(06052002)	631850.63	4175300.50	339.33549	(04110905)
631850.63	4175400.50	528.94127	(08091903)	631850.63	4175500.50	265.39037	(08021518)

631850.63 4175600.50 164.04814 (05072806) 631850.63 4175700.50 163.56593 (06052306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK10 ***
INCLUDING SOURCE(S): STCK10 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	168.93582	(07102824)	631850.63	4175900.50	160.76722	(08040220)
631850.63	4176000.50	167.61781	(08091905)	631850.63	4176100.50	146.27043	(06081406)
631950.63	4175100.50	154.41082	(07102905)	631950.63	4175200.50	181.60443	(06052002)
631950.63	4175300.50	226.08574	(04101518)	631950.63	4175400.50	288.41965	(08091903)
631950.63	4175500.50	375.16896	(07092305)	631950.63	4175600.50	377.56737	(06102818)
631950.63	4175700.50	186.55087	(07092306)	631950.63	4175800.50	261.32785	(06052306)
631950.63	4175900.50	179.36420	(04082204)	631950.63	4176000.50	161.16154	(06062806)
631950.63	4176100.50	136.39707	(04050604)	632050.63	4175100.50	136.69372	(06052002)
632050.63	4175200.50	159.75597	(07080303)	632050.63	4175300.50	188.86836	(06100506)
632050.63	4175400.50	239.76311	(08091903)	632050.63	4175500.50	232.13987	(07102907)
632050.63	4175600.50	225.19409	(06111908)	632050.63	4175700.50	201.96914	(05072806)
632050.63	4175800.50	172.69917	(08040221)	632050.63	4175900.50	163.74152	(06052306)
632050.63	4176000.50	145.23437	(04082204)	632050.63	4176100.50	142.65435	(06062806)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***
INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	131.12886	(05011317)	632304.44	4174354.52	76.87598	(08031018)
632192.15	4174956.32	126.42617	(05011317)	632420.62	4175510.15	144.73289	(06011618)
632418.97	4175552.92	136.78463	(04030118)	631187.00	4175727.00	508.00584	(06072903)
631166.00	4175729.00	474.50782	(06072903)	631121.00	4175719.00	447.75697	(06072903)
631035.00	4174830.00	123.37137	(05030118)	631106.00	4174825.00	136.82939	(06102817)
631937.00	4174528.00	103.75348	(08071406)	631322.00	4174522.00	81.50131	(05050803)
629800.63	4173850.44	13.93223	(04012317)	630150.63	4173850.44	31.08992	(06011109)
630500.63	4173850.44	35.47242	(05012117)	630850.63	4173850.44	53.79819	(06102817)

631200.63	4173850.44	39.73619	(06121420)	631550.63	4173850.44	51.09293	(05021805)
631900.63	4173850.44	43.89781	(04122824)	632250.63	4173850.44	52.57953	(08071406)
632600.63	4173850.44	48.80274	(05020818)	632950.63	4173850.44	44.71268	(05011520)
633300.63	4173850.44	37.83426	(06122122)	629800.63	4174200.44	22.19588	(06121421)
630150.63	4174200.44	45.56690	(04012317)	630500.63	4174200.44	84.60067	(06011109)
630850.63	4174200.44	77.00239	(06102817)	631200.63	4174200.44	62.70769	(06121420)
631550.63	4174200.44	71.04393	(04122823)	631900.63	4174200.44	71.45143	(05021804)
632250.63	4174200.44	64.85385	(04122822)	632600.63	4174200.44	61.68864	(05011520)
632950.63	4174200.44	52.66167	(06122122)	633300.63	4174200.44	38.68001	(07021118)
629800.63	4174550.44	43.76318	(07020624)	630150.63	4174550.44	64.71851	(06121421)
630500.63	4174550.44	92.05379	(04012317)	630850.63	4174550.44	96.75740	(06011109)
631200.63	4174550.44	90.37530	(08081805)	631550.63	4174550.44	97.10951	(04102617)
631900.63	4174550.44	107.91723	(05011817)	632250.63	4174550.44	96.69399	(08031018)
632600.63	4174550.44	75.03840	(05011317)	632950.63	4174550.44	65.58142	(06011617)
633300.63	4174550.44	46.95241	(05020802)	629800.63	4174900.44	48.52658	(07111023)
630150.63	4174900.44	80.29811	(06120217)	630500.63	4174900.44	96.44001	(06121421)
630850.63	4174900.44	122.84887	(08121017)	631200.63	4174900.44	144.92377	(06102817)
631550.63	4174900.44	143.29925	(04102617)	631900.63	4174900.44	125.25046	(08090903)
632250.63	4174900.44	117.30733	(05011317)	632600.63	4174900.44	93.80482	(06011617)
632950.63	4174900.44	76.63670	(06120617)	633300.63	4174900.44	53.06605	(05021801)
629800.63	4175250.44	72.21811	(04022207)	630150.63	4175250.44	84.95784	(07101502)
630500.63	4175250.44	127.11479	(04041822)	630850.63	4175250.44	169.42395	(08081806)
631200.63	4175250.44	209.36580	(06011109)	631550.63	4175250.44	200.42527	(04102617)
631900.63	4175250.44	191.37160	(05051824)	632250.63	4175250.44	149.39739	(08021718)
632600.63	4175250.44	102.79739	(05021801)	632950.63	4175250.44	83.34885	(07010217)
633300.63	4175250.44	54.07866	(07020218)	629800.63	4175600.44	87.01627	(04121304)
630150.63	4175600.44	124.26828	(04121304)	630500.63	4175600.44	152.05454	(05030402)
630850.63	4175600.44	252.53576	(05030401)	631200.63	4175600.44	469.85112	(07110617)
631550.63	4175600.44	542.70532	(07102905)	631900.63	4175600.44	342.91275	(04101518)
632250.63	4175600.44	209.67618	(04030118)	632600.63	4175600.44	121.59286	(04030118)
632950.63	4175600.44	67.79357	(05121217)	633300.63	4175600.44	46.20465	(05011522)
629800.63	4175950.44	66.23200	(06011024)	630150.63	4175950.44	114.96225	(06011024)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	157.12324	(06011217)	630850.63	4175950.44	216.97650	(05072902)
631200.63	4175950.44	286.71228	(07082502)	631550.63	4175950.44	420.69177	(06100919)
631900.63	4175950.44	253.16517	(05072806)	632250.63	4175950.44	170.45610	(04041919)
632600.63	4175950.44	116.82744	(06012918)	632950.63	4175950.44	80.05667	(06121320)
633300.63	4175950.44	52.58279	(07012418)	629800.63	4176300.44	56.09374	(04041820)
630150.63	4176300.44	91.60805	(07120622)	630500.63	4176300.44	114.03396	(07120623)
630850.63	4176300.44	143.33020	(07082502)	631200.63	4176300.44	163.55407	(08091907)

631550.63	4176300.44	163.14176	(05072006)	631900.63	4176300.44	178.12478	(06062806)
632250.63	4176300.44	121.25713	(04121019)	632600.63	4176300.44	92.04303	(05020806)
632950.63	4176300.44	70.99901	(05020719)	633300.63	4176300.44	51.23386	(05122401)
629800.63	4176650.44	60.95077	(06122121)	630150.63	4176650.44	79.66511	(04021520)
630500.63	4176650.44	85.16668	(04010518)	630850.63	4176650.44	102.82365	(07090904)
631200.63	4176650.44	112.61172	(05112506)	631550.63	4176650.44	110.58574	(04111519)
631900.63	4176650.44	105.94602	(06081406)	632250.63	4176650.44	123.49327	(06062806)
632600.63	4176650.44	81.22525	(06052306)	632950.63	4176650.44	61.20162	(07120406)
633300.63	4176650.44	42.99828	(05020806)	629800.63	4177000.44	41.87950	(04021521)
630150.63	4177000.44	60.61189	(04010518)	630500.63	4177000.44	74.81170	(04120908)
630850.63	4177000.44	80.56346	(04022021)	631200.63	4177000.44	79.05617	(07021108)
631550.63	4177000.44	77.24400	(08122723)	631900.63	4177000.44	74.65217	(04020619)
632250.63	4177000.44	70.50476	(07010323)	632600.63	4177000.44	67.55266	(06062806)
632950.63	4177000.44	53.03531	(08021908)	633300.63	4177000.44	48.68927	(08021808)
629800.63	4177350.44	42.27923	(04010518)	630150.63	4177350.44	49.04875	(04120908)
630500.63	4177350.44	54.06131	(08122718)	630850.63	4177350.44	69.71841	(08091907)
631200.63	4177350.44	61.36883	(06020124)	631550.63	4177350.44	60.65656	(08122723)
631900.63	4177350.44	59.11353	(05021302)	632250.63	4177350.44	55.97448	(06122319)
632600.63	4177350.44	51.12005	(06062806)	632950.63	4177350.44	41.00240	(08122905)
633300.63	4177350.44	40.56081	(08021908)	631670.70	4175493.59	327.71109	(05011417)
631669.80	4175641.41	566.63026	(04101518)	631665.32	4175796.39	493.50731	(06111908)
631417.17	4175826.85	179.17735	(04101820)	631417.17	4175673.66	643.03139	(08010919)
631422.55	4175484.63	153.96829	(06102817)	631268.42	4175983.74	299.93702	(04101820)
631275.69	4175523.99	362.85947	(05111717)	631345.65	4175419.50	407.31729	(06102817)
631384.72	4175441.30	371.95856	(07100818)	631491.93	4175442.21	388.42011	(04102617)
631491.93	4175414.95	376.88825	(04102617)	631385.63	4175413.14	375.89327	(06102817)
631358.37	4175395.87	397.45571	(06102817)	631409.25	4175336.81	228.87049	(08081805)
631567.35	4175235.96	201.03802	(08102618)	631756.33	4175028.80	151.67890	(08071406)
631807.22	4175003.36	127.49982	(08071406)	631867.18	4174987.91	141.58258	(08090903)
631849.92	4175988.28	244.24382	(07092306)	631268.74	4175963.75	481.75890	(04101820)
631269.05	4175943.76	492.95271	(04082205)	631269.37	4175923.77	474.89171	(07010318)
631269.68	4175903.78	399.28359	(07120623)	631270.00	4175883.79	370.10547	(04082001)
631270.32	4175863.81	412.71623	(04082001)	631270.63	4175843.82	428.35517	(04082001)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	473.44114	(06033021)	631271.26	4175803.84	512.32665	(06033021)
631271.58	4175783.85	543.04180	(06121423)	631271.90	4175763.86	632.13101	(06121423)
631272.21	4175743.87	684.87448	(05021218)	631272.53	4175723.88	855.38638	(05021218)
631272.85	4175703.89	923.29946	(06072903)	631273.16	4175683.90	869.64317	(06041223)
631273.48	4175663.91	725.46227	(06041223)	631273.79	4175643.92	625.75330	(06121422)
631274.11	4175623.94	561.00377	(07110617)	631274.43	4175603.95	523.11300	(07110617)

631274.74	4175583.96	439.57485	(05072102)	631275.06	4175563.97	422.06879	(05072102)
631275.37	4175543.98	387.21153	(05072102)	631285.68	4175509.06	346.35604	(05111717)
631295.68	4175494.14	303.10589	(05111717)	631305.67	4175479.21	321.99147	(08081806)
631315.67	4175464.28	423.83766	(04012317)	631325.66	4175449.35	424.99443	(08121017)
631335.66	4175434.43	434.69421	(04101605)	631358.67	4175426.77	412.28444	(06102817)
631371.70	4175434.03	417.06881	(06102817)	631402.59	4175441.45	171.52438	(06102817)
631420.46	4175441.60	153.81727	(05122422)	631438.33	4175441.76	346.72252	(07030618)
631456.19	4175441.91	341.92358	(07030618)	631474.06	4175442.06	376.08273	(04102623)
631491.93	4175428.58	382.25977	(04102617)	631474.21	4175414.65	375.90149	(04102617)
631456.50	4175414.35	322.53479	(07030618)	631438.78	4175414.05	329.17998	(07030618)
631421.06	4175413.74	335.45852	(08081805)	631403.35	4175413.44	349.80871	(08081805)
631372.00	4175404.51	390.14146	(06102817)	631371.09	4175381.11	339.41543	(06102817)
631383.81	4175366.34	257.81349	(06102817)	631396.53	4175351.58	241.87968	(08081805)
631425.06	4175326.73	215.50615	(07030618)	631440.87	4175316.64	222.12240	(07030618)
631456.68	4175306.56	221.39037	(07030618)	631472.49	4175296.47	215.70864	(05110722)
631488.30	4175286.39	214.79250	(04102617)	631504.11	4175276.30	218.54000	(04102617)
631519.92	4175266.22	216.76968	(04102617)	631535.73	4175256.13	210.02990	(04102617)
631551.54	4175246.05	198.98013	(04102617)	631579.95	4175222.15	198.52430	(08102618)
631592.55	4175208.34	194.26431	(08102618)	631605.15	4175194.53	188.72313	(08102618)
631617.74	4175180.72	181.90649	(08102618)	631630.34	4175166.91	177.37664	(05011817)
631642.94	4175153.10	176.57937	(05011817)	631655.54	4175139.29	174.99196	(05011817)
631668.14	4175125.47	172.49447	(05011817)	631680.74	4175111.66	169.43010	(05011817)
631693.34	4175097.85	167.31424	(08071406)	631705.94	4175084.04	165.32349	(08071406)
631718.53	4175070.23	162.68793	(08071406)	631731.13	4175056.42	159.48921	(08071406)
631743.73	4175042.61	155.80866	(08071406)	631773.29	4175020.32	144.79255	(08071406)
631790.26	4175011.84	136.61310	(08071406)	631822.21	4174999.50	132.88944	(08090903)
631837.20	4174995.64	137.12437	(08090903)	631852.19	4174991.77	140.04452	(08090903)
631866.84	4175007.53	145.47960	(08090903)	631866.50	4175027.14	148.36483	(08090903)
631866.16	4175046.76	153.62871	(08031018)	631865.83	4175066.37	159.11965	(08031018)
631865.49	4175085.99	163.17625	(08031018)	631865.15	4175105.60	165.59486	(08031018)
631864.81	4175125.22	168.23543	(06052001)	631864.47	4175144.83	171.96742	(06052001)
631864.13	4175164.45	173.49123	(06052001)	631863.80	4175184.06	177.53868	(04081924)
631863.46	4175203.68	181.50254	(04081924)	631863.12	4175223.29	183.04946	(08090905)
631862.78	4175242.91	183.62300	(08090905)	631862.44	4175262.52	188.96266	(05051824)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	201.82642	(05051824)	631861.77	4175301.75	210.73992	(05051824)
631861.43	4175321.37	214.77496	(05051824)	631861.09	4175340.98	215.07207	(05011417)
631860.75	4175360.60	216.12626	(07082501)	631860.41	4175380.21	225.18035	(05110817)
631860.07	4175399.83	238.96871	(07102905)	631859.73	4175419.44	247.77263	(07102905)
631859.40	4175439.06	246.00777	(07102905)	631859.06	4175458.67	243.34728	(08022004)

631858.72	4175478.29	256.92750	(06052002)	631858.38	4175497.90	286.74163	(06052002)
631858.04	4175517.52	297.79111	(06052002)	631857.70	4175537.13	306.94770	(06072803)
631857.37	4175556.75	322.89480	(06072803)	631857.03	4175576.36	314.04541	(04110905)
631856.69	4175595.98	354.91567	(04101518)	631856.35	4175615.59	366.12887	(04101518)
631856.01	4175635.21	364.50751	(07102803)	631855.67	4175654.82	379.54522	(04030118)
631855.33	4175674.44	362.83383	(04030118)	631855.00	4175694.05	314.89108	(06111521)
631854.66	4175713.67	321.83992	(05020803)	631854.32	4175733.28	354.52719	(05020803)
631853.98	4175752.90	346.49475	(05012118)	631853.64	4175772.51	368.98992	(07102907)
631853.30	4175792.13	358.96353	(08040222)	631852.97	4175811.74	333.16893	(08010919)
631852.63	4175831.36	319.12808	(06111908)	631852.29	4175850.97	330.68258	(06111908)
631851.95	4175870.59	312.14046	(06102818)	631851.61	4175890.20	300.91995	(06102818)
631851.27	4175909.82	271.18800	(05072806)	631850.94	4175929.43	266.26073	(05072806)
631850.60	4175949.05	261.36371	(07112517)	631850.26	4175968.66	257.38951	(07092306)
631830.54	4175988.13	238.54838	(06052306)	631811.15	4175987.98	254.26477	(06052306)
631791.77	4175987.83	264.39785	(06052306)	631772.39	4175987.67	267.51522	(06052306)
631753.00	4175987.52	263.11078	(06052306)	631733.62	4175987.37	258.37550	(06110304)
631714.24	4175987.22	266.79507	(06062806)	631694.85	4175987.07	283.39480	(06062806)
631675.47	4175986.92	290.13936	(06062806)	631656.09	4175986.77	285.68046	(06062806)
631636.70	4175986.62	269.94357	(06062806)	631617.32	4175986.46	270.12637	(07092304)
631597.94	4175986.31	277.58469	(06081406)	631578.55	4175986.16	274.90056	(06081406)
631559.17	4175986.01	276.75190	(07102901)	631539.79	4175985.86	276.49304	(06080603)
631520.40	4175985.71	269.42344	(05072006)	631501.02	4175985.56	283.06634	(05072006)
631481.64	4175985.40	297.48816	(05072006)	631462.25	4175985.25	296.95064	(05072006)
631442.87	4175985.10	329.35463	(07030418)	631423.49	4175984.95	354.43916	(07030418)
631404.10	4175984.80	377.20802	(05112506)	631384.72	4175984.65	399.22172	(05112506)
631365.34	4175984.50	404.24692	(07071003)	631345.95	4175984.35	428.54912	(07090905)
631326.57	4175984.19	443.22568	(07090905)	631307.19	4175984.04	435.80741	(07090905)
631287.80	4175983.89	402.56961	(04101820)	631050.63	4175100.50	164.82771	(06011109)
631050.63	4175200.50	178.83718	(04012317)	631050.63	4175300.50	200.87315	(05111717)
631050.63	4175400.50	227.40967	(05072102)	631050.63	4175500.50	257.99177	(04041822)
631050.63	4175600.50	307.49869	(05030401)	631050.63	4175700.50	386.34475	(06072903)
631050.63	4175800.50	315.53632	(06121423)	631050.63	4175900.50	271.86098	(06033021)
631050.63	4176000.50	230.73610	(04082001)	631050.63	4176100.50	192.32541	(07082502)
631150.63	4175100.50	162.85942	(04101605)	631150.63	4175200.50	195.35045	(06011109)
631150.63	4175300.50	208.40794	(04012317)	631150.63	4175400.50	253.89997	(05111717)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	312.23150	(05072102)	631150.63	4175600.50	369.62672	(07110617)
631150.63	4175700.50	491.10983	(06072903)	631150.63	4175800.50	368.91801	(05111617)
631150.63	4175900.50	298.20848	(04082001)	631150.63	4176000.50	244.31207	(07082502)
631150.63	4176100.50	203.11510	(05112504)	631250.63	4175100.50	177.01240	(06102817)

631250.63	4175200.50	194.66280	(06102817)	631250.63	4175300.50	219.62829	(06011109)
631250.63	4175400.50	266.42176	(06011109)	631250.63	4175500.50	437.47090	(05072102)
631250.63	4175600.50	514.98852	(07110617)	631250.63	4175700.50	827.70185	(06072903)
631250.63	4175800.50	538.00029	(08081602)	631250.63	4175900.50	551.58307	(04082001)
631250.63	4176000.50	268.45191	(04101820)	631250.63	4176100.50	211.17423	(07090905)
631350.63	4175100.50	162.10555	(08081805)	631350.63	4175200.50	182.47248	(08081805)
631350.63	4175300.50	223.53383	(06102817)	631350.63	4175400.50	401.74587	(06102817)
631350.63	4175500.50	255.78407	(08121017)	631350.63	4175600.50	347.52829	(05072102)
631350.63	4175700.50	689.68435	(06072903)	631350.63	4175800.50	315.17949	(06033021)
631350.63	4175900.50	249.59544	(04101820)	631350.63	4176000.50	401.94107	(07090905)
631350.63	4176100.50	218.38035	(05112506)	631450.63	4175100.50	160.08120	(07030618)
631450.63	4175200.50	182.99315	(07030618)	631450.63	4175300.50	218.21221	(07030618)
631450.63	4175400.50	323.85185	(04102623)	631450.63	4175500.50	194.05736	(05122422)
631450.63	4175600.50	165.13835	(06052001)	631450.63	4175700.50	1069.40996	(05012118)
631450.63	4175800.50	187.03904	(06062806)	631450.63	4175900.50	369.48555	(04111019)
631450.63	4176000.50	300.40278	(07030418)	631450.63	4176100.50	210.03616	(06052305)
631550.63	4175100.50	171.55325	(04102617)	631550.63	4175200.50	190.91814	(04102617)
631550.63	4175300.50	219.04547	(08102618)	631550.63	4175400.50	274.57958	(05011817)
631550.63	4175500.50	294.48517	(06052001)	631550.63	4175600.50	542.99691	(07102905)
631550.63	4175700.50	1255.12833	(05012118)	631550.63	4175800.50	549.47180	(07092306)
631550.63	4175900.50	467.33366	(05082502)	631550.63	4176000.50	267.17627	(06080603)
631550.63	4176100.50	208.74651	(08112520)	631650.63	4175100.50	160.71310	(05011817)
631650.63	4175200.50	191.63546	(08071406)	631650.63	4175300.50	208.12897	(08071406)
631650.63	4175400.50	266.70940	(08031018)	631650.63	4175500.50	398.52066	(08031018)
631650.63	4175600.50	648.00626	(04042519)	631650.63	4175700.50	581.18658	(04030118)
631650.63	4175800.50	489.42873	(06102818)	631650.63	4175900.50	340.79945	(06052306)
631650.63	4176000.50	265.03677	(06062806)	631650.63	4176100.50	220.01918	(08062724)
631750.63	4175100.50	147.79268	(08071406)	631750.63	4175200.50	179.67199	(08090903)
631750.63	4175300.50	213.99049	(04082919)	631750.63	4175400.50	249.73428	(05051824)
631750.63	4175500.50	306.39888	(07102905)	631750.63	4175600.50	411.88317	(06072803)
631750.63	4175700.50	394.32644	(08091903)	631750.63	4175800.50	412.05771	(06111908)
631750.63	4175900.50	312.48174	(07092306)	631750.63	4176000.50	249.98474	(06110304)
631750.63	4176100.50	228.38478	(06062806)	631850.63	4175100.50	164.97710	(08031018)
631850.63	4175200.50	181.15943	(04081924)	631850.63	4175300.50	209.76902	(05051824)
631850.63	4175400.50	237.16389	(07102905)	631850.63	4175500.50	288.52119	(06052002)
631850.63	4175600.50	363.74797	(04101518)	631850.63	4175700.50	317.27976	(07102804)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK11 ***

INCLUDING SOURCE(S): STCK11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	348.52038	(08010919)	631850.63	4175900.50	284.75902	(06102818)
631850.63	4176000.50	231.08200	(07092306)	631850.63	4176100.50	207.99090	(06110304)
631950.63	4175100.50	158.95454	(04081924)	631950.63	4175200.50	173.71886	(08090519)

631950.63	4175300.50	197.40594	(05110817)	631950.63	4175400.50	216.50837	(08022004)
631950.63	4175500.50	258.28510	(08110218)	631950.63	4175600.50	307.78430	(04101518)
631950.63	4175700.50	262.56572	(07102804)	631950.63	4175800.50	310.69001	(07102907)
631950.63	4175900.50	276.93512	(06111908)	631950.63	4176000.50	228.64321	(07112517)
631950.63	4176100.50	200.67190	(06052306)	632050.63	4175100.50	149.52223	(05011317)
632050.63	4175200.50	171.11189	(05011417)	632050.63	4175300.50	191.27412	(07102905)
632050.63	4175400.50	212.99339	(06052002)	632050.63	4175500.50	235.55736	(04081304)
632050.63	4175600.50	261.65597	(07102803)	632050.63	4175700.50	218.79222	(07102804)
632050.63	4175800.50	253.23470	(07102907)	632050.63	4175900.50	237.25354	(06111908)
632050.63	4176000.50	202.09259	(05072806)	632050.63	4176100.50	189.51269	(07092306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	154.99579	(05112916)	632304.44	4174354.52	94.44019	(08031018)
632192.15	4174956.32	159.46051	(05011417)	632420.62	4175510.15	150.15799	(04030118)
632418.97	4175552.92	134.58776	(05011522)	631187.00	4175727.00	477.69122	(08081602)
631166.00	4175729.00	524.04973	(08081602)	631121.00	4175719.00	416.02078	(05061703)
631035.00	4174830.00	132.26933	(06011109)	631106.00	4174825.00	127.28569	(05030118)
631937.00	4174528.00	113.42145	(08071406)	631322.00	4174522.00	83.78558	(08081805)
629800.63	4173850.44	12.41398	(04012317)	630150.63	4173850.44	24.89231	(06011109)
630500.63	4173850.44	39.64407	(06011109)	630850.63	4173850.44	56.41001	(06102817)
631200.63	4173850.44	40.67625	(06121420)	631550.63	4173850.44	52.29774	(05021805)
631900.63	4173850.44	46.95068	(04122824)	632250.63	4173850.44	53.30077	(08071406)
632600.63	4173850.44	52.40396	(08031018)	632950.63	4173850.44	40.33383	(05011317)
633300.63	4173850.44	37.68770	(05021018)	629800.63	4174200.44	22.34465	(06121421)
630150.63	4174200.44	43.84316	(04012317)	630500.63	4174200.44	75.56555	(06011109)
630850.63	4174200.44	70.51483	(06102817)	631200.63	4174200.44	62.27833	(08081805)
631550.63	4174200.44	72.82203	(04122823)	631900.63	4174200.44	82.69590	(07011417)
632250.63	4174200.44	74.61326	(04122822)	632600.63	4174200.44	64.97129	(05011520)
632950.63	4174200.44	55.74455	(05112916)	633300.63	4174200.44	51.24469	(06011617)
629800.63	4174550.44	49.29820	(04011017)	630150.63	4174550.44	53.43677	(06121421)
630500.63	4174550.44	94.79892	(04012317)	630850.63	4174550.44	112.71256	(06011109)
631200.63	4174550.44	95.22693	(07100818)	631550.63	4174550.44	107.84689	(04102617)
631900.63	4174550.44	123.40811	(08071406)	632250.63	4174550.44	95.70380	(08031018)
632600.63	4174550.44	89.59073	(05112916)	632950.63	4174550.44	75.05355	(06011617)
633300.63	4174550.44	49.44702	(06121106)	629800.63	4174900.44	49.57570	(06121217)
630150.63	4174900.44	70.48817	(04022118)	630500.63	4174900.44	91.01910	(05122619)
630850.63	4174900.44	138.33637	(04012317)	631200.63	4174900.44	153.77681	(06102817)
631550.63	4174900.44	169.09985	(04102617)	631900.63	4174900.44	167.32772	(08031018)
632250.63	4174900.44	147.77701	(05011417)	632600.63	4174900.44	99.55491	(05020802)
632950.63	4174900.44	77.88044	(04022223)	633300.63	4174900.44	45.97305	(05021801)
629800.63	4175250.44	50.17015	(04022207)	630150.63	4175250.44	98.05178	(04022207)

630500.63	4175250.44	132.71341	(07110617)	630850.63	4175250.44	178.10079	(06051905)
631200.63	4175250.44	208.87109	(06011109)	631550.63	4175250.44	274.79999	(08102618)
631900.63	4175250.44	238.67924	(05110817)	632250.63	4175250.44	165.40807	(08110218)
632600.63	4175250.44	119.17409	(07010217)	632950.63	4175250.44	78.01371	(07020218)
633300.63	4175250.44	53.10564	(06011618)	629800.63	4175600.44	71.86781	(05122618)
630150.63	4175600.44	112.51920	(05122618)	630500.63	4175600.44	167.47024	(05122618)
630850.63	4175600.44	288.51833	(06072903)	631200.63	4175600.44	785.45224	(05030320)
631550.63	4175600.44	1273.08935	(04030118)	631900.63	4175600.44	286.97568	(07102804)
632250.63	4175600.44	161.76124	(06011619)	632600.63	4175600.44	103.88641	(06011619)
632950.63	4175600.44	66.34809	(06011619)	633300.63	4175600.44	45.79929	(06011619)
629800.63	4175950.44	81.01074	(06011024)	630150.63	4175950.44	108.64733	(06011217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***
INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	138.93598	(05051724)	630850.63	4175950.44	191.18430	(07102702)
631200.63	4175950.44	260.16234	(04101820)	631550.63	4175950.44	292.12878	(07102901)
631900.63	4175950.44	188.86942	(06052306)	632250.63	4175950.44	153.10428	(06111908)
632600.63	4175950.44	102.09168	(05122401)	632950.63	4175950.44	79.82315	(06012918)
633300.63	4175950.44	52.39942	(05012018)	629800.63	4176300.44	75.64672	(07120622)
630150.63	4176300.44	87.95192	(05030322)	630500.63	4176300.44	115.81396	(04021520)
630850.63	4176300.44	141.42017	(04082205)	631200.63	4176300.44	160.17991	(08091907)
631550.63	4176300.44	145.39763	(05072006)	631900.63	4176300.44	129.47145	(08102318)
632250.63	4176300.44	123.18367	(06052306)	632600.63	4176300.44	85.77808	(07120406)
632950.63	4176300.44	65.21064	(04011021)	633300.63	4176300.44	47.59821	(06121503)
629800.63	4176650.44	60.67306	(06122121)	630150.63	4176650.44	69.43734	(04021521)
630500.63	4176650.44	93.74565	(04120903)	630850.63	4176650.44	98.77899	(05122507)
631200.63	4176650.44	108.87465	(05112506)	631550.63	4176650.44	101.40194	(04111519)
631900.63	4176650.44	90.37485	(05082502)	632250.63	4176650.44	109.14916	(06062806)
632600.63	4176650.44	77.09437	(08021908)	632950.63	4176650.44	63.31312	(08021808)
633300.63	4176650.44	41.70856	(05011818)	629800.63	4177000.44	53.51715	(04021521)
630150.63	4177000.44	63.81664	(04010518)	630500.63	4177000.44	74.81713	(07012719)
630850.63	4177000.44	85.88212	(08091907)	631200.63	4177000.44	80.53060	(06020107)
631550.63	4177000.44	79.83892	(08122723)	631900.63	4177000.44	71.71958	(04020619)
632250.63	4177000.44	65.28707	(06010522)	632600.63	4177000.44	74.57539	(06062806)
632950.63	4177000.44	55.96760	(08021908)	633300.63	4177000.44	43.40259	(08021808)
629800.63	4177350.44	44.14033	(04010518)	630150.63	4177350.44	53.32306	(04120908)
630500.63	4177350.44	58.40790	(07021218)	630850.63	4177350.44	66.91687	(08091907)
631200.63	4177350.44	64.24358	(06020124)	631550.63	4177350.44	61.56092	(08122723)
631900.63	4177350.44	57.59212	(05021302)	632250.63	4177350.44	52.35734	(05022620)
632600.63	4177350.44	45.10214	(05121423)	632950.63	4177350.44	45.13303	(06062806)
633300.63	4177350.44	39.23972	(08021908)	631670.70	4175493.59	487.12857	(06052002)
631669.80	4175641.41	579.36256	(07102907)	631665.32	4175796.39	389.15856	(06040701)

631417.17	4175826.85	146.29023	(05112506)	631417.17	4175673.66	369.38162	(05051824)
631422.55	4175484.63	203.85694	(04102623)	631268.42	4175983.74	265.29271	(07090905)
631275.69	4175523.99	716.16108	(06121422)	631345.65	4175419.50	459.54384	(08121017)
631384.72	4175441.30	191.58575	(08121017)	631491.93	4175442.21	574.80495	(04102617)
631491.93	4175414.95	561.31702	(04102617)	631385.63	4175413.14	432.31267	(06102817)
631358.37	4175395.87	425.11644	(04101605)	631409.25	4175336.81	273.31246	(08081805)
631567.35	4175235.96	266.12527	(08102618)	631756.33	4175028.80	174.10583	(08090903)
631807.22	4175003.36	183.59609	(08090903)	631867.18	4174987.91	187.50035	(08031018)
631849.92	4175988.28	188.48892	(06110304)	631268.74	4175963.75	402.96635	(04083005)
631269.05	4175943.76	294.50936	(04082205)	631269.37	4175923.77	263.56871	(04101820)
631269.68	4175903.78	280.21305	(04101820)	631270.00	4175883.79	287.08088	(04101820)
631270.32	4175863.81	280.54569	(04101820)	631270.63	4175843.82	266.52510	(04101820)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	273.65292	(07082502)	631271.26	4175803.84	286.10260	(07082502)
631271.58	4175783.85	307.88866	(04082001)	631271.90	4175763.86	328.26894	(04082001)
631272.21	4175743.87	334.15647	(06033021)	631272.53	4175723.88	378.73833	(06033021)
631272.85	4175703.89	399.15567	(06033021)	631273.16	4175683.90	484.38951	(06121423)
631273.48	4175663.91	548.09814	(06121423)	631273.79	4175643.92	662.94965	(05021218)
631274.11	4175623.94	835.55205	(05021218)	631274.43	4175603.95	902.94286	(06072903)
631274.74	4175583.96	843.13788	(06041223)	631275.06	4175563.97	689.94060	(06041223)
631275.37	4175543.98	816.57839	(08112618)	631285.68	4175509.06	732.83473	(07110617)
631295.68	4175494.14	641.67413	(06051905)	631305.67	4175479.21	624.53400	(05072102)
631315.67	4175464.28	564.16960	(05111717)	631325.66	4175449.35	529.29522	(05111717)
631335.66	4175434.43	483.34025	(04012317)	631358.67	4175426.77	454.53462	(08121017)
631371.70	4175434.03	461.40559	(04101605)	631402.59	4175441.45	434.41049	(07100818)
631420.46	4175441.60	199.98716	(04102623)	631438.33	4175441.76	418.31793	(07030618)
631456.19	4175441.91	420.73825	(07030618)	631474.06	4175442.06	392.44511	(07030618)
631491.93	4175428.58	567.63669	(04102617)	631474.21	4175414.65	565.53418	(04102617)
631456.50	4175414.35	391.35249	(07030618)	631438.78	4175414.05	393.45882	(07030618)
631421.06	4175413.74	401.44304	(08081805)	631403.35	4175413.44	422.88951	(06102817)
631372.00	4175404.51	425.94708	(06102817)	631371.09	4175381.11	386.61331	(04101605)
631383.81	4175366.34	319.98459	(06102817)	631396.53	4175351.58	282.18594	(07100818)
631425.06	4175326.73	259.64796	(08081805)	631440.87	4175316.64	261.52705	(07030618)
631456.68	4175306.56	262.00292	(07030618)	631472.49	4175296.47	268.57450	(04102617)
631488.30	4175286.39	280.21605	(04102617)	631504.11	4175276.30	280.80398	(04102617)
631519.92	4175266.22	271.37403	(04102617)	631535.73	4175256.13	272.42286	(08102618)
631551.54	4175246.05	272.93558	(08102618)	631579.95	4175222.15	255.24128	(08102618)
631592.55	4175208.34	245.35886	(05011817)	631605.15	4175194.53	242.14782	(05011817)
631617.74	4175180.72	237.11623	(05011817)	631630.34	4175166.91	230.80554	(05011817)
631642.94	4175153.10	224.80229	(08071406)	631655.54	4175139.29	218.04225	(08071406)

631668.14	4175125.47	210.27617	(08071406)	631680.74	4175111.66	201.99215	(08071406)
631693.34	4175097.85	193.99022	(08071406)	631705.94	4175084.04	186.25943	(08071406)
631718.53	4175070.23	178.06552	(08071406)	631731.13	4175056.42	172.33499	(08090903)
631743.73	4175042.61	173.46003	(08090903)	631773.29	4175020.32	179.75066	(08090903)
631790.26	4175011.84	182.95560	(08090903)	631822.21	4174999.50	182.72882	(08090903)
631837.20	4174995.64	183.14894	(08031018)	631852.19	4174991.77	186.58241	(08031018)
631866.84	4175007.53	189.93260	(08031018)	631866.50	4175027.14	189.71319	(08031018)
631866.16	4175046.76	193.50366	(06052001)	631865.83	4175066.37	194.33477	(06052001)
631865.49	4175085.99	199.69184	(04081924)	631865.15	4175105.60	204.14426	(04081924)
631864.81	4175125.22	207.60361	(08090905)	631864.47	4175144.83	207.01892	(08090905)
631864.13	4175164.45	213.07156	(05011317)	631863.80	4175184.06	221.97628	(05051824)
631863.46	4175203.68	233.04673	(05051824)	631863.12	4175223.29	239.49004	(08090519)
631862.78	4175242.91	240.90218	(06072902)	631862.44	4175262.52	244.09546	(07082501)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	249.92613	(05110817)	631861.77	4175301.75	265.27250	(07102905)
631861.43	4175321.37	275.69225	(07102905)	631861.09	4175340.98	269.48828	(07102905)
631860.75	4175360.60	269.88400	(08022004)	631860.41	4175380.21	275.50586	(08021718)
631860.07	4175399.83	307.44265	(06052002)	631859.73	4175419.44	320.29359	(08110218)
631859.40	4175439.06	314.85143	(07080303)	631859.06	4175458.67	330.58181	(06072803)
631858.72	4175478.29	331.78777	(04081304)	631858.38	4175497.90	348.22671	(04101518)
631858.04	4175517.52	353.46168	(04101518)	631857.70	4175537.13	350.48361	(07102803)
631857.37	4175556.75	366.94923	(04030118)	631857.03	4175576.36	342.28905	(04030118)
631856.69	4175595.98	312.25890	(06111521)	631856.35	4175615.59	321.55224	(05020803)
631856.01	4175635.21	345.55336	(05012118)	631855.67	4175654.82	339.14081	(08010920)
631855.33	4175674.44	360.97751	(07102907)	631855.00	4175694.05	347.67157	(08040222)
631854.66	4175713.67	324.23463	(08010919)	631854.32	4175733.28	290.38482	(06111908)
631853.98	4175752.90	295.74493	(06111908)	631853.64	4175772.51	280.19951	(06111908)
631853.30	4175792.13	267.22076	(06102818)	631852.97	4175811.74	242.65733	(06102818)
631852.63	4175831.36	236.32355	(05072806)	631852.29	4175850.97	227.95234	(07112517)
631851.95	4175870.59	223.71411	(07092306)	631851.61	4175890.20	214.20985	(07092306)
631851.27	4175909.82	207.71367	(06052306)	631850.94	4175929.43	209.93798	(06052306)
631850.60	4175949.05	206.27582	(06052306)	631850.26	4175968.66	197.33975	(06052306)
631830.54	4175988.13	186.64966	(06110304)	631811.15	4175987.98	188.51299	(06062806)
631791.77	4175987.83	201.56260	(06062806)	631772.39	4175987.67	210.18964	(06062806)
631753.00	4175987.52	213.62081	(06062806)	631733.62	4175987.37	211.29664	(06062806)
631714.24	4175987.22	203.15511	(06062806)	631694.85	4175987.07	201.01444	(04050604)
631675.47	4175986.92	204.84912	(08091905)	631656.09	4175986.77	208.74888	(07092304)
631636.70	4175986.62	213.01745	(06081406)	631617.32	4175986.46	212.59969	(05082502)
631597.94	4175986.31	217.14345	(06100919)	631578.55	4175986.16	219.38130	(07102901)
631559.17	4175986.01	217.86055	(06080603)	631539.79	4175985.86	222.80957	(05072006)

631520.40	4175985.71	231.05907	(05072006)	631501.02	4175985.56	231.40305	(05072006)
631481.64	4175985.40	232.12637	(05072006)	631462.25	4175985.25	259.04762	(07030418)
631442.87	4175985.10	296.35512	(07030418)	631423.49	4175984.95	322.78349	(07030418)
631404.10	4175984.80	334.83687	(07030418)	631384.72	4175984.65	359.79393	(05112506)
631365.34	4175984.50	361.98240	(07071003)	631345.95	4175984.35	380.27755	(07071003)
631326.57	4175984.19	374.85607	(08091907)	631307.19	4175984.04	386.84536	(07090905)
631287.80	4175983.89	338.09423	(07090905)	631050.63	4175100.50	166.05760	(04012317)
631050.63	4175200.50	186.53173	(05111717)	631050.63	4175300.50	211.93262	(05072102)
631050.63	4175400.50	235.86215	(07110617)	631050.63	4175500.50	294.38881	(05030401)
631050.63	4175600.50	385.79016	(06072903)	631050.63	4175700.50	320.45546	(06121423)
631050.63	4175800.50	279.69042	(06033021)	631050.63	4175900.50	241.86980	(04082001)
631050.63	4176000.50	204.17077	(07082502)	631050.63	4176100.50	179.53017	(05112504)
631150.63	4175100.50	181.59881	(06011109)	631150.63	4175200.50	188.01604	(04012317)
631150.63	4175300.50	226.47345	(05111717)	631150.63	4175400.50	283.07488	(05072102)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***

INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	338.60250	(07110617)	631150.63	4175600.50	488.06937	(06072903)
631150.63	4175700.50	456.86158	(06080604)	631150.63	4175800.50	477.46052	(07080103)
631150.63	4175900.50	267.47043	(07082502)	631150.63	4176000.50	221.45180	(04101820)
631150.63	4176100.50	190.55329	(04083005)	631250.63	4175100.50	182.54511	(06102817)
631250.63	4175200.50	200.85918	(06011109)	631250.63	4175300.50	244.94981	(06011109)
631250.63	4175400.50	307.01808	(05111717)	631250.63	4175500.50	638.61398	(07110617)
631250.63	4175600.50	1160.83274	(06072903)	631250.63	4175700.50	439.73721	(08081602)
631250.63	4175800.50	323.03189	(04082001)	631250.63	4175900.50	292.47152	(04101820)
631250.63	4176000.50	240.08414	(07090905)	631250.63	4176100.50	202.28515	(08091907)
631350.63	4175100.50	176.00298	(08081805)	631350.63	4175200.50	204.25943	(07100818)
631350.63	4175300.50	265.31034	(06102817)	631350.63	4175400.50	431.06250	(04101605)
631350.63	4175500.50	315.87542	(05072102)	631350.63	4175600.50	676.47190	(06072903)
631350.63	4175700.50	317.80340	(07102905)	631350.63	4175800.50	203.94009	(04101820)
631350.63	4175900.50	207.65571	(07090905)	631350.63	4176000.50	338.05366	(05112506)
631350.63	4176100.50	199.09034	(05112506)	631450.63	4175100.50	178.01916	(07030618)
631450.63	4175200.50	208.59803	(07030618)	631450.63	4175300.50	257.16939	(07030618)
631450.63	4175400.50	390.76463	(08102618)	631450.63	4175500.50	309.38308	(08102618)
631450.63	4175600.50	1045.42955	(04030118)	631450.63	4175700.50	209.66898	(08090903)
631450.63	4175800.50	458.52902	(04111019)	631450.63	4175900.50	304.91756	(04111019)
631450.63	4176000.50	267.59063	(07030418)	631450.63	4176100.50	193.04618	(06052305)
631550.63	4175100.50	203.26225	(04102617)	631550.63	4175200.50	250.71099	(08102618)
631550.63	4175300.50	293.16893	(08102618)	631550.63	4175400.50	381.83015	(08071406)
631550.63	4175500.50	928.86833	(07102905)	631550.63	4175600.50	1271.37187	(04030118)
631550.63	4175700.50	325.38689	(06102818)	631550.63	4175800.50	309.06434	(08112520)
631550.63	4175900.50	326.53080	(07102901)	631550.63	4176000.50	214.13636	(08112520)

631550.63	4176100.50	188.06123	(05072006)	631650.63	4175100.50	208.11161	(05011817)
631650.63	4175200.50	226.90894	(08071406)	631650.63	4175300.50	294.42376	(08031018)
631650.63	4175400.50	359.33930	(08090519)	631650.63	4175500.50	514.26748	(06052002)
631650.63	4175600.50	554.02482	(05020803)	631650.63	4175700.50	642.88609	(05072806)
631650.63	4175800.50	404.06128	(04101619)	631650.63	4175900.50	247.39339	(08102318)
631650.63	4176000.50	206.61555	(06081406)	631650.63	4176100.50	175.41272	(06100919)
631750.63	4175100.50	206.73332	(08090903)	631750.63	4175200.50	240.82461	(04082919)
631750.63	4175300.50	282.22472	(05051824)	631750.63	4175400.50	334.16505	(07102905)
631750.63	4175500.50	441.00004	(06072803)	631750.63	4175600.50	392.14854	(08091903)
631750.63	4175700.50	369.69524	(06111908)	631750.63	4175800.50	281.31081	(07092306)
631750.63	4175900.50	227.66510	(06110304)	631750.63	4176000.50	208.00533	(06062806)
631750.63	4176100.50	165.36110	(04050604)	631850.63	4175100.50	203.40351	(04081924)
631850.63	4175200.50	230.33759	(05051824)	631850.63	4175300.50	259.44747	(07102905)
631850.63	4175400.50	306.24189	(06052002)	631850.63	4175500.50	354.87668	(04101518)
631850.63	4175600.50	316.15341	(07102804)	631850.63	4175700.50	340.38117	(08010919)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK12 ***
INCLUDING SOURCE(S): STCK12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	257.79378	(06102818)	631850.63	4175900.50	205.98214	(07092306)
631850.63	4176000.50	184.48961	(06110304)	631850.63	4176100.50	176.66450	(06062806)
631950.63	4175100.50	190.59237	(05011317)	631950.63	4175200.50	220.77243	(05110817)
631950.63	4175300.50	236.20318	(08022004)	631950.63	4175400.50	270.26615	(04021502)
631950.63	4175500.50	291.22508	(04101518)	631950.63	4175600.50	261.66301	(07102804)
631950.63	4175700.50	309.65013	(07102907)	631950.63	4175800.50	246.17637	(06111908)
631950.63	4175900.50	201.64777	(07112517)	631950.63	4176000.50	176.32916	(06052306)
631950.63	4176100.50	157.51743	(06110304)	632050.63	4175100.50	186.34275	(05011417)
632050.63	4175200.50	205.11303	(07102905)	632050.63	4175300.50	217.87500	(07111901)
632050.63	4175400.50	244.52112	(04081304)	632050.63	4175500.50	239.13463	(07102803)
632050.63	4175600.50	217.72607	(07102804)	632050.63	4175700.50	257.03614	(07102907)
632050.63	4175800.50	215.99107	(06111908)	632050.63	4175900.50	187.14515	(06102818)
632050.63	4176000.50	170.21485	(07092306)	632050.63	4176100.50	158.72154	(06052306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***
INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	129.92615	(05011417)	632304.44	4174354.52	73.58299	(05011521)
632192.15	4174956.32	119.92794	(05011417)	632420.62	4175510.15	129.42286	(06011618)
632418.97	4175552.92	141.03459	(04030118)	631187.00	4175727.00	928.25678	(06011217)
631166.00	4175729.00	857.62255	(06011217)	631121.00	4175719.00	637.24749	(05071702)
631035.00	4174830.00	137.33914	(06102817)	631106.00	4174825.00	121.99414	(07100818)
631937.00	4174528.00	84.87441	(04122822)	631322.00	4174522.00	83.50196	(07030618)
629800.63	4173850.44	11.66858	(04012317)	630150.63	4173850.44	42.21676	(06011109)
630500.63	4173850.44	27.09837	(06011021)	630850.63	4173850.44	44.35603	(08022002)
631200.63	4173850.44	31.42614	(05010417)	631550.63	4173850.44	58.59139	(04102617)
631900.63	4173850.44	50.20984	(07011417)	632250.63	4173850.44	44.17102	(04122822)
632600.63	4173850.44	47.57313	(05011521)	632950.63	4173850.44	42.87716	(04022018)
633300.63	4173850.44	34.62368	(05112916)	629800.63	4174200.44	23.99077	(04012317)
630150.63	4174200.44	34.43418	(07121217)	630500.63	4174200.44	69.37208	(06011109)
630850.63	4174200.44	74.47650	(06102817)	631200.63	4174200.44	51.10195	(05050803)
631550.63	4174200.44	85.46987	(04102617)	631900.63	4174200.44	80.05152	(05011817)
632250.63	4174200.44	66.12312	(08031018)	632600.63	4174200.44	54.72934	(05011317)
632950.63	4174200.44	50.31091	(05112916)	633300.63	4174200.44	48.38830	(06011617)
629800.63	4174550.44	41.95351	(04101819)	630150.63	4174550.44	68.17927	(04012317)
630500.63	4174550.44	99.84625	(06011109)	630850.63	4174550.44	108.38304	(06102817)
631200.63	4174550.44	85.56764	(05050803)	631550.63	4174550.44	106.50479	(04102617)
631900.63	4174550.44	81.69418	(04122822)	632250.63	4174550.44	79.89781	(05011520)
632600.63	4174550.44	74.93910	(05112916)	632950.63	4174550.44	67.50774	(06011617)
633300.63	4174550.44	45.30919	(06121106)	629800.63	4174900.44	54.57650	(04022118)
630150.63	4174900.44	77.81747	(07020624)	630500.63	4174900.44	111.78118	(04012317)
630850.63	4174900.44	146.67666	(06011109)	631200.63	4174900.44	133.02312	(08081805)
631550.63	4174900.44	122.29551	(08102618)	631900.63	4174900.44	125.07313	(08031018)
632250.63	4174900.44	112.95303	(05011417)	632600.63	4174900.44	88.42029	(05020802)
632950.63	4174900.44	68.50707	(04022223)	633300.63	4174900.44	48.54812	(05021801)
629800.63	4175250.44	70.18494	(04022207)	630150.63	4175250.44	94.35825	(07110617)
630500.63	4175250.44	157.55659	(04022118)	630850.63	4175250.44	193.68893	(05111717)
631200.63	4175250.44	194.82381	(07100818)	631550.63	4175250.44	187.29478	(08090903)
631900.63	4175250.44	173.55341	(07102905)	632250.63	4175250.44	130.61303	(04022223)
632600.63	4175250.44	105.70644	(07010217)	632950.63	4175250.44	72.40606	(07020218)
633300.63	4175250.44	48.62184	(07020218)	629800.63	4175600.44	79.83022	(04121304)
630150.63	4175600.44	114.11777	(06032819)	630500.63	4175600.44	175.12354	(05030403)
630850.63	4175600.44	310.60772	(06121422)	631200.63	4175600.44	655.87852	(05072102)
631550.63	4175600.44	581.39805	(04110905)	631900.63	4175600.44	253.77790	(07102803)
632250.63	4175600.44	183.70547	(04030118)	632600.63	4175600.44	117.46601	(05011522)
632950.63	4175600.44	77.04425	(05011522)	633300.63	4175600.44	48.55051	(05011522)
629800.63	4175950.44	77.37021	(06011024)	630150.63	4175950.44	115.92924	(06011024)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** *** 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	189.77336	(06011217)	630850.63	4175950.44	243.99458	(07102702)
631200.63	4175950.44	346.22895	(06110119)	631550.63	4175950.44	300.49354	(06110304)
631900.63	4175950.44	221.62281	(05081502)	632250.63	4175950.44	150.46706	(07120624)
632600.63	4175950.44	114.34463	(05012018)	632950.63	4175950.44	76.99895	(07012418)
633300.63	4175950.44	49.29405	(07012418)	629800.63	4176300.44	73.99502	(07120622)
630150.63	4176300.44	90.18997	(05030322)	630500.63	4176300.44	127.05882	(04082001)
630850.63	4176300.44	153.28600	(04101820)	631200.63	4176300.44	157.38166	(07102902)
631550.63	4176300.44	158.73731	(06100919)	631900.63	4176300.44	147.14127	(06110304)
632250.63	4176300.44	112.69821	(07120406)	632600.63	4176300.44	91.98392	(05011418)
632950.63	4176300.44	66.40382	(06121503)	633300.63	4176300.44	46.21017	(05122401)
629800.63	4176650.44	63.84943	(06122121)	630150.63	4176650.44	76.03323	(04021521)
630500.63	4176650.44	86.21220	(04082205)	630850.63	4176650.44	106.46851	(07090905)
631200.63	4176650.44	109.12826	(07030418)	631550.63	4176650.44	106.88688	(08112520)
631900.63	4176650.44	97.17041	(04050604)	632250.63	4176650.44	84.91168	(05021219)
632600.63	4176650.44	82.91058	(08021808)	632950.63	4176650.44	58.11910	(05011818)
633300.63	4176650.44	42.19510	(04121024)	629800.63	4177000.44	55.96678	(04021521)
630150.63	4177000.44	64.73950	(04120903)	630500.63	4177000.44	73.68258	(07122917)
630850.63	4177000.44	93.89625	(08091907)	631200.63	4177000.44	76.60207	(07030418)
631550.63	4177000.44	84.45525	(05072006)	631900.63	4177000.44	73.21313	(05022620)
632250.63	4177000.44	88.40214	(06062806)	632600.63	4177000.44	59.61123	(05021219)
632950.63	4177000.44	49.39428	(08121517)	633300.63	4177000.44	37.23081	(08122903)
629800.63	4177350.44	45.37391	(04120903)	630150.63	4177350.44	48.70247	(07012719)
630500.63	4177350.44	53.72362	(04022021)	630850.63	4177350.44	61.30997	(06013008)
631200.63	4177350.44	60.16348	(08122722)	631550.63	4177350.44	61.26614	(08021903)
631900.63	4177350.44	59.21605	(06012820)	632250.63	4177350.44	54.53652	(06010522)
632600.63	4177350.44	65.11224	(06062806)	632950.63	4177350.44	41.13369	(08021908)
633300.63	4177350.44	31.50957	(07021220)	631670.70	4175493.59	269.10964	(06052002)
631669.80	4175641.41	371.78812	(04083003)	631665.32	4175796.39	354.52146	(08040222)
631417.17	4175826.85	260.20429	(07092306)	631417.17	4175673.66	634.68919	(04083003)
631422.55	4175484.63	211.29080	(06052001)	631268.42	4175983.74	280.82557	(07102902)
631275.69	4175523.99	323.80203	(07030618)	631345.65	4175419.50	332.75904	(07030618)
631384.72	4175441.30	154.47067	(08102618)	631491.93	4175442.21	466.07412	(05102618)
631491.93	4175414.95	445.10561	(06052001)	631385.63	4175413.14	366.12798	(08102618)
631358.37	4175395.87	329.19021	(04102617)	631409.25	4175336.81	230.80315	(08102618)
631567.35	4175235.96	184.72561	(08090903)	631756.33	4175028.80	150.63504	(08031018)
631807.22	4175003.36	143.32757	(08031018)	631867.18	4174987.91	136.23556	(04081924)
631849.92	4175988.28	211.71823	(05072806)	631268.74	4175963.75	388.65000	(05112506)
631269.05	4175943.76	410.44619	(05112506)	631269.37	4175923.77	379.54059	(05042719)
631269.68	4175903.78	284.90074	(04111019)	631270.00	4175883.79	310.68146	(04111019)
631270.32	4175863.81	338.40903	(04111019)	631270.63	4175843.82	366.07616	(04111019)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	392.66628	(04111019)	631271.26	4175803.84	411.56261	(04111019)
631271.58	4175783.85	408.16558	(04111019)	631271.90	4175763.86	511.57627	(06033021)
631272.21	4175743.87	722.35109	(06033021)	631272.53	4175723.88	1107.91055	(06121423)
631272.85	4175703.89	1366.56164	(06092418)	631273.16	4175683.90	1324.19576	(06092418)
631273.48	4175663.91	870.45349	(07110617)	631273.79	4175643.92	591.35427	(05072102)
631274.11	4175623.94	451.35839	(05072102)	631274.43	4175603.95	399.15587	(07030618)
631274.74	4175583.96	396.66572	(07030618)	631275.06	4175563.97	376.25223	(07030618)
631275.37	4175543.98	350.30054	(07030618)	631285.68	4175509.06	337.81487	(07030618)
631295.68	4175494.14	370.96122	(07030618)	631305.67	4175479.21	368.41554	(07030618)
631315.67	4175464.28	339.27838	(05110722)	631325.66	4175449.35	215.50448	(05011817)
631335.66	4175434.43	342.47913	(07030618)	631358.67	4175426.77	350.11441	(04102617)
631371.70	4175434.03	362.37819	(04102617)	631402.59	4175441.45	166.69857	(08102618)
631420.46	4175441.60	181.32430	(06052001)	631438.33	4175441.76	213.48875	(06052001)
631456.19	4175441.91	435.50910	(06052001)	631474.06	4175442.06	459.43425	(06052001)
631491.93	4175428.58	458.99614	(06052001)	631474.21	4175414.65	419.30379	(06052001)
631456.50	4175414.35	399.22875	(08090903)	631438.78	4175414.05	385.76849	(05011817)
631421.06	4175413.74	380.03857	(05011817)	631403.35	4175413.44	376.32871	(08102618)
631372.00	4175404.51	344.41270	(08102618)	631371.09	4175381.11	321.80850	(08102618)
631383.81	4175366.34	306.06802	(08102618)	631396.53	4175351.58	242.31927	(04102617)
631425.06	4175326.73	223.14045	(08102618)	631440.87	4175316.64	225.04314	(05011817)
631456.68	4175306.56	224.56247	(05011817)	631472.49	4175296.47	220.83890	(05011817)
631488.30	4175286.39	215.47669	(08071406)	631504.11	4175276.30	208.43840	(08071406)
631519.92	4175266.22	199.24343	(08071406)	631535.73	4175256.13	188.38195	(08071406)
631551.54	4175246.05	185.28089	(08090903)	631579.95	4175222.15	181.16800	(08090903)
631592.55	4175208.34	177.46335	(08090903)	631605.15	4175194.53	173.77195	(08090903)
631617.74	4175180.72	170.48515	(08031018)	631630.34	4175166.91	168.37300	(08031018)
631642.94	4175153.10	166.10582	(08031018)	631655.54	4175139.29	163.83859	(08031018)
631668.14	4175125.47	161.47708	(08031018)	631680.74	4175111.66	159.20780	(08031018)
631693.34	4175097.85	158.01474	(08031018)	631705.94	4175084.04	156.74993	(08031018)
631718.53	4175070.23	155.36884	(08031018)	631731.13	4175056.42	153.88620	(08031018)
631743.73	4175042.61	152.31403	(08031018)	631773.29	4175020.32	149.14653	(08031018)
631790.26	4175011.84	146.68627	(08031018)	631822.21	4174999.50	140.87704	(06052001)
631837.20	4174995.64	138.59645	(06052001)	631852.19	4174991.77	135.97023	(04081924)
631866.84	4175007.53	139.49874	(04081924)	631866.50	4175027.14	141.26361	(04081924)
631866.16	4175046.76	142.24417	(08090905)	631865.83	4175066.37	143.34669	(05011317)
631865.49	4175085.99	147.70934	(05011317)	631865.15	4175105.60	150.22546	(05011317)
631864.81	4175125.22	150.65693	(05011317)	631864.47	4175144.83	158.65572	(08090519)
631864.13	4175164.45	164.97978	(08090519)	631863.80	4175184.06	168.57939	(08090519)
631863.46	4175203.68	170.56158	(06100507)	631863.12	4175223.29	170.71037	(06051904)
631862.78	4175242.91	172.76547	(05110817)	631862.44	4175262.52	177.47964	(05110817)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	183.54450	(07102905)	631861.77	4175301.75	191.13751	(07102905)
631861.43	4175321.37	193.88750	(07102905)	631861.09	4175340.98	191.37961	(07102905)
631860.75	4175360.60	188.96089	(08022004)	631860.41	4175380.21	191.89449	(08021718)
631860.07	4175399.83	200.00294	(06052002)	631859.73	4175419.44	215.79439	(06052002)
631859.40	4175439.06	224.17569	(06052002)	631859.06	4175458.67	228.04832	(08110218)
631858.72	4175478.29	223.83349	(08110218)	631858.38	4175497.90	230.39245	(07080303)
631858.04	4175517.52	231.87117	(04081304)	631857.70	4175537.13	248.33522	(04110905)
631857.37	4175556.75	261.90422	(04110905)	631857.03	4175576.36	268.93408	(04101518)
631856.69	4175595.98	264.38198	(06100506)	631856.35	4175615.59	267.61133	(07102803)
631856.01	4175635.21	294.39136	(04083003)	631855.67	4175654.82	315.29731	(04083003)
631855.33	4175674.44	312.85398	(04083003)	631855.00	4175694.05	311.72365	(08091903)
631854.66	4175713.67	310.82061	(06041502)	631854.32	4175733.28	310.49560	(05030407)
631853.98	4175752.90	293.96482	(08021518)	631853.64	4175772.51	267.84186	(08021518)
631853.30	4175792.13	270.67220	(07102907)	631852.97	4175811.74	272.87016	(07102907)
631852.63	4175831.36	264.95641	(08040222)	631852.29	4175850.97	253.22294	(08010919)
631851.95	4175870.59	239.46157	(04041919)	631851.61	4175890.20	241.81491	(06111908)
631851.27	4175909.82	244.04729	(06111908)	631850.94	4175929.43	235.04750	(06111908)
631850.60	4175949.05	232.45136	(06102818)	631850.26	4175968.66	221.66325	(06102818)
631830.54	4175988.13	216.18366	(05072806)	631811.15	4175987.98	218.28935	(05072806)
631791.77	4175987.83	218.03832	(05072806)	631772.39	4175987.67	222.49091	(07112517)
631753.00	4175987.52	226.90895	(07112517)	631733.62	4175987.37	233.12517	(07092306)
631714.24	4175987.22	237.10247	(07092306)	631694.85	4175987.07	237.42160	(07092306)
631675.47	4175986.92	238.96900	(06052306)	631656.09	4175986.77	251.92459	(06052306)
631636.70	4175986.62	260.44106	(06052306)	631617.32	4175986.46	263.67736	(06052306)
631597.94	4175986.31	263.58086	(06110304)	631578.55	4175986.16	265.07129	(06110304)
631559.17	4175986.01	266.10422	(06062806)	631539.79	4175985.86	280.07187	(06062806)
631520.40	4175985.71	286.30142	(06062806)	631501.02	4175985.56	285.05345	(06062806)
631481.64	4175985.40	351.94602	(06062806)	631462.25	4175985.25	407.65452	(07092304)
631442.87	4175985.10	413.61450	(06081406)	631423.49	4175984.95	401.80937	(06081406)
631404.10	4175984.80	384.09634	(06080603)	631384.72	4175984.65	371.02679	(06080603)
631365.34	4175984.50	347.22418	(08112318)	631345.95	4175984.35	342.91827	(04111519)
631326.57	4175984.19	320.65689	(04111519)	631307.19	4175984.04	298.50672	(07030418)
631287.80	4175983.89	292.66417	(07080306)	631050.63	4175100.50	161.14619	(05030118)
631050.63	4175200.50	182.51545	(04101605)	631050.63	4175300.50	223.33788	(06011109)
631050.63	4175400.50	266.45805	(04012317)	631050.63	4175500.50	318.15155	(05072102)
631050.63	4175600.50	456.17442	(07110617)	631050.63	4175700.50	464.06581	(06072903)
631050.63	4175800.50	419.90802	(05072902)	631050.63	4175900.50	322.09793	(04082001)
631050.63	4176000.50	240.04811	(04082205)	631050.63	4176100.50	199.96954	(04101820)
631150.63	4175100.50	156.62904	(07100818)	631150.63	4175200.50	198.03194	(06102817)
631150.63	4175300.50	227.52524	(06102817)	631150.63	4175400.50	269.16906	(06011109)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	420.36126	(06011109)	631150.63	4175600.50	684.40602	(08081806)
631150.63	4175700.50	662.66087	(05030402)	631150.63	4175800.50	704.85733	(07080103)
631150.63	4175900.50	409.00292	(05081406)	631150.63	4176000.50	250.53802	(07090905)
631150.63	4176100.50	216.10162	(08091907)	631250.63	4175100.50	155.08420	(08081805)
631250.63	4175200.50	180.34983	(08081805)	631250.63	4175300.50	215.56152	(08081805)
631250.63	4175400.50	275.34706	(07100818)	631250.63	4175500.50	223.69661	(04101605)
631250.63	4175600.50	440.78266	(05111717)	631250.63	4175700.50	1357.43930	(06092418)
631250.63	4175800.50	431.45443	(05042719)	631250.63	4175900.50	306.16963	(07030418)
631250.63	4176000.50	258.52356	(05112506)	631250.63	4176100.50	209.26216	(07080306)
631350.63	4175100.50	162.53312	(05110722)	631350.63	4175200.50	184.44077	(05110722)
631350.63	4175300.50	216.39112	(05110722)	631350.63	4175400.50	322.43599	(04102617)
631350.63	4175500.50	135.61166	(08081805)	631350.63	4175600.50	168.26553	(07102905)
631350.63	4175700.50	975.26229	(06092418)	631350.63	4175800.50	179.18435	(06110304)
631350.63	4175900.50	155.90799	(06081406)	631350.63	4176000.50	313.85549	(04111519)
631350.63	4176100.50	210.67392	(04111519)	631450.63	4175100.50	162.43166	(04102617)
631450.63	4175200.50	186.53797	(08102618)	631450.63	4175300.50	219.74879	(05011817)
631450.63	4175400.50	377.80303	(05011817)	631450.63	4175500.50	254.97785	(05051824)
631450.63	4175600.50	386.27834	(06052002)	631450.63	4175700.50	859.23577	(08091903)
631450.63	4175800.50	375.34495	(06102818)	631450.63	4175900.50	254.55632	(06110304)
631450.63	4176000.50	352.58206	(06081406)	631450.63	4176100.50	216.03505	(07102901)
631550.63	4175100.50	164.95087	(05011817)	631550.63	4175200.50	178.98755	(08071406)
631550.63	4175300.50	213.37851	(08031018)	631550.63	4175400.50	259.79590	(04081924)
631550.63	4175500.50	581.57729	(07102905)	631550.63	4175600.50	582.01649	(04110905)
631550.63	4175700.50	599.92621	(05020803)	631550.63	4175800.50	502.81508	(06111908)
631550.63	4175900.50	515.21629	(08040221)	631550.63	4176000.50	270.01741	(06062806)
631550.63	4176100.50	206.15938	(04050604)	631650.63	4175100.50	156.34854	(08090903)
631650.63	4175200.50	181.54987	(08031018)	631650.63	4175300.50	198.47947	(08090905)
631650.63	4175400.50	243.01394	(05011417)	631650.63	4175500.50	278.05842	(08021718)
631650.63	4175600.50	366.74238	(04110905)	631650.63	4175700.50	446.02471	(08091903)
631650.63	4175800.50	357.06752	(08010919)	631650.63	4175900.50	294.06625	(05072806)
631650.63	4176000.50	251.70117	(06052306)	631650.63	4176100.50	210.19761	(06062806)
631750.63	4175100.50	157.77745	(06052001)	631750.63	4175200.50	167.28632	(08090905)
631750.63	4175300.50	197.17723	(05011417)	631750.63	4175400.50	222.37179	(07102905)
631750.63	4175500.50	263.14662	(08110218)	631750.63	4175600.50	310.99910	(04101518)
631750.63	4175700.50	358.54499	(08091903)	631750.63	4175800.50	309.89173	(08040222)
631750.63	4175900.50	267.05934	(06102818)	631750.63	4176000.50	225.19720	(07092306)
631750.63	4176100.50	201.58889	(06052306)	631850.63	4175100.50	149.64104	(05011317)
631850.63	4175200.50	171.66839	(08090519)	631850.63	4175300.50	190.51158	(07102905)
631850.63	4175400.50	198.06484	(06052002)	631850.63	4175500.50	232.17847	(07080303)
631850.63	4175600.50	267.16381	(06100506)	631850.63	4175700.50	314.71908	(08091903)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK13 ***

INCLUDING SOURCE(S): STCK13 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	274.48405	(07102907)	631850.63	4175900.50	244.76061	(06111908)
631850.63	4176000.50	211.53043	(05072806)	631850.63	4176100.50	184.73858	(07092306)
631950.63	4175100.50	153.54648	(05011417)	631950.63	4175200.50	164.61564	(05110817)
631950.63	4175300.50	170.31968	(08022004)	631950.63	4175400.50	202.57448	(06052002)
631950.63	4175500.50	210.68352	(04081304)	631950.63	4175600.50	240.02773	(07102803)
631950.63	4175700.50	272.15360	(08091903)	631950.63	4175800.50	234.69784	(07102907)
631950.63	4175900.50	214.78795	(04041919)	631950.63	4176000.50	203.06590	(06102818)
631950.63	4176100.50	177.97089	(07112517)	632050.63	4175100.50	146.03914	(05110817)
632050.63	4175200.50	152.81085	(07102905)	632050.63	4175300.50	160.29550	(08021718)
632050.63	4175400.50	176.89686	(04021502)	632050.63	4175500.50	200.79512	(04110905)
632050.63	4175600.50	220.39134	(04030118)	632050.63	4175700.50	229.10673	(08091903)
632050.63	4175800.50	200.82291	(08010920)	632050.63	4175900.50	194.83870	(08010919)
632050.63	4176000.50	195.54324	(06111908)	632050.63	4176100.50	165.72948	(05072806)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	120.55631	(05110817)	632304.44	4174354.52	69.11753	(05011520)
632192.15	4174956.32	110.64414	(05110817)	632420.62	4175510.15	143.34112	(05011522)
632418.97	4175552.92	156.30468	(05011522)	631187.00	4175727.00	285.88054	(07090905)
631166.00	4175729.00	566.62997	(04082001)	631121.00	4175719.00	536.38283	(04082001)
631035.00	4174830.00	175.79086	(06102817)	631106.00	4174825.00	140.70116	(07100818)
631937.00	4174528.00	81.29892	(08090903)	631322.00	4174522.00	88.45223	(07030618)
629800.63	4173850.44	15.91514	(04012317)	630150.63	4173850.44	44.95998	(06011109)
630500.63	4173850.44	31.74287	(06011021)	630850.63	4173850.44	44.64434	(08022002)
631200.63	4173850.44	32.25873	(05122422)	631550.63	4173850.44	61.31504	(04102617)
631900.63	4173850.44	49.02205	(07011417)	632250.63	4173850.44	48.99371	(04122822)
632600.63	4173850.44	48.28390	(05011521)	632950.63	4173850.44	44.84154	(04022018)
633300.63	4173850.44	32.13018	(08030618)	629800.63	4174200.44	22.95362	(05111717)
630150.63	4174200.44	48.91465	(04012317)	630500.63	4174200.44	99.11782	(06011109)
630850.63	4174200.44	92.33887	(06102817)	631200.63	4174200.44	56.17910	(05050803)
631550.63	4174200.44	86.89856	(04102617)	631900.63	4174200.44	77.29540	(08071406)

632250.63	4174200.44	66.89662 (08031018)	632600.63	4174200.44	59.32191 (04022018)
632950.63	4174200.44	44.06875 (05011417)	633300.63	4174200.44	46.19182 (06011617)
629800.63	4174550.44	49.40296 (07020624)	630150.63	4174550.44	71.68531 (06121421)
630500.63	4174550.44	85.98378 (08121017)	630850.63	4174550.44	108.85860 (06102817)
631200.63	4174550.44	94.40579 (05050803)	631550.63	4174550.44	104.21987 (04102617)
631900.63	4174550.44	83.46955 (04122822)	632250.63	4174550.44	82.10810 (05011317)
632600.63	4174550.44	65.71176 (05110817)	632950.63	4174550.44	53.91255 (05020802)
633300.63	4174550.44	46.34001 (06120617)	629800.63	4174900.44	57.34589 (06121217)
630150.63	4174900.44	98.78785 (06120217)	630500.63	4174900.44	124.26531 (04041824)
630850.63	4174900.44	193.63845 (06011109)	631200.63	4174900.44	158.01750 (08081805)
631550.63	4174900.44	134.02881 (05011817)	631900.63	4174900.44	119.79411 (04081924)
632250.63	4174900.44	104.51633 (05110817)	632600.63	4174900.44	84.78919 (06120617)
632950.63	4174900.44	67.79979 (05021801)	633300.63	4174900.44	51.06162 (07010217)
629800.63	4175250.44	69.07205 (04022207)	630150.63	4175250.44	110.66051 (06041224)
630500.63	4175250.44	151.93845 (06121217)	630850.63	4175250.44	248.83378 (08081806)
631200.63	4175250.44	282.27111 (06102817)	631550.63	4175250.44	209.11937 (08031018)
631900.63	4175250.44	164.69701 (08022004)	632250.63	4175250.44	124.78698 (07080303)
632600.63	4175250.44	103.78116 (07020218)	632950.63	4175250.44	72.35108 (06011618)
633300.63	4175250.44	48.49154 (06011618)	629800.63	4175600.44	71.79111 (05122618)
630150.63	4175600.44	108.50678 (05122618)	630500.63	4175600.44	167.11334 (05122618)
630850.63	4175600.44	293.79500 (06072903)	631200.63	4175600.44	1490.94014 (05030320)
631550.63	4175600.44	632.59218 (04030118)	631900.63	4175600.44	291.81662 (08091903)
632250.63	4175600.44	180.93605 (06011619)	632600.63	4175600.44	123.96990 (06011619)
632950.63	4175600.44	76.29603 (06011619)	633300.63	4175600.44	48.03815 (06011619)
629800.63	4175950.44	72.21403 (06011024)	630150.63	4175950.44	113.00328 (06011217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
630500.63	4175950.44	151.72497 (08081602)	630850.63	4175950.44	190.46801 (04082001)
631200.63	4175950.44	257.69333 (08091907)	631550.63	4175950.44	291.17828 (08102318)
631900.63	4175950.44	200.69751 (05072806)	632250.63	4175950.44	164.37216 (06111908)
632600.63	4175950.44	111.30934 (07120624)	632950.63	4175950.44	76.83118 (06012918)
633300.63	4175950.44	51.23652 (06121320)	629800.63	4176300.44	65.57711 (07120622)
630150.63	4176300.44	86.53801 (06122121)	630500.63	4176300.44	103.32928 (07010318)
630850.63	4176300.44	125.95279 (05081406)	631200.63	4176300.44	142.61213 (07080306)
631550.63	4176300.44	162.35310 (07091007)	631900.63	4176300.44	153.01239 (06062806)
632250.63	4176300.44	116.92742 (08021808)	632600.63	4176300.44	94.57775 (04121022)
632950.63	4176300.44	67.54940 (05011418)	633300.63	4176300.44	47.25400 (05011322)
629800.63	4176650.44	61.65352 (04021520)	630150.63	4176650.44	70.07110 (04021521)
630500.63	4176650.44	80.00092 (04120908)	630850.63	4176650.44	97.97878 (08091907)
631200.63	4176650.44	102.43025 (07030418)	631550.63	4176650.44	109.51904 (05072006)
631900.63	4176650.44	98.69652 (06072006)	632250.63	4176650.44	94.01927 (06062806)

632600.63	4176650.44	76.33478	(07021220)	632950.63	4176650.44	60.74042	(07120406)
633300.63	4176650.44	42.55404	(05020806)	629800.63	4177000.44	46.31617	(04021521)
630150.63	4177000.44	52.19643	(04121223)	630500.63	4177000.44	63.94426	(08122718)
630850.63	4177000.44	82.23364	(08091907)	631200.63	4177000.44	77.67200	(08122722)
631550.63	4177000.44	82.86786	(05072006)	631900.63	4177000.44	77.97122	(06013004)
632250.63	4177000.44	70.66768	(06062806)	632600.63	4177000.44	61.44045	(08122905)
632950.63	4177000.44	49.49065	(07021220)	633300.63	4177000.44	48.21409	(08021808)
629800.63	4177350.44	40.69457	(04120903)	630150.63	4177350.44	46.92401	(07012719)
630500.63	4177350.44	51.64412	(04022021)	630850.63	4177350.44	60.78612	(08011009)
631200.63	4177350.44	61.59083	(08122722)	631550.63	4177350.44	64.16258	(06020918)
631900.63	4177350.44	61.57954	(04020619)	632250.63	4177350.44	56.27887	(06120218)
632600.63	4177350.44	62.17229	(06062806)	632950.63	4177350.44	39.51291	(05010604)
633300.63	4177350.44	37.38661	(08021908)	631670.70	4175493.59	327.21695	(04110905)
631669.80	4175641.41	394.01657	(05030407)	631665.32	4175796.39	315.58513	(05072806)
631417.17	4175826.85	187.18122	(06081406)	631417.17	4175673.66	546.30552	(05072102)
631422.55	4175484.63	227.24992	(06052002)	631268.42	4175983.74	228.92623	(04111019)
631275.69	4175523.99	672.70301	(08121017)	631345.65	4175419.50	394.12552	(07030618)
631384.72	4175441.30	143.92871	(07030618)	631491.93	4175442.21	500.63367	(07102905)
631491.93	4175414.95	441.08684	(08090519)	631385.63	4175413.14	375.19457	(05011817)
631358.37	4175395.87	374.56148	(04102617)	631409.25	4175336.81	264.58753	(05011817)
631567.35	4175235.96	202.18800	(08031018)	631756.33	4175028.80	143.55493	(04081924)
631807.22	4175003.36	138.47028	(04081924)	631867.18	4174987.91	132.32639	(05011317)
631849.92	4175988.28	197.92161	(07092306)	631268.74	4175963.75	268.47328	(07080306)
631269.05	4175943.76	276.15685	(07080306)	631269.37	4175923.77	287.56118	(07102902)
631269.68	4175903.78	287.59268	(04111019)	631270.00	4175883.79	305.16008	(04111019)
631270.32	4175863.81	324.30701	(04111019)	631270.63	4175843.82	344.36267	(04111019)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	373.63628	(07030418)	631271.26	4175803.84	401.56975	(07030418)
631271.58	4175783.85	435.17492	(07030418)	631271.90	4175763.86	471.35228	(07030418)
631272.21	4175743.87	535.66136	(07080306)	631272.53	4175723.88	575.13160	(04083004)
631272.85	4175703.89	642.65833	(07102902)	631273.16	4175683.90	704.71960	(05042719)
631273.48	4175663.91	616.79472	(05042719)	631273.79	4175643.92	593.13056	(06121423)
631274.11	4175623.94	957.33919	(06121423)	631274.43	4175603.95	1083.80281	(05071702)
631274.74	4175583.96	1320.04045	(07110617)	631275.06	4175563.97	1043.39538	(05072102)
631275.37	4175543.98	829.43167	(05111717)	631285.68	4175509.06	545.70862	(08121017)
631295.68	4175494.14	501.76233	(07030618)	631305.67	4175479.21	491.91844	(07030618)
631315.67	4175464.28	441.84947	(04102617)	631325.66	4175449.35	341.27957	(05011817)
631335.66	4175434.43	414.64283	(07030618)	631358.67	4175426.77	396.86258	(04102617)
631371.70	4175434.03	390.65990	(04102617)	631402.59	4175441.45	138.37606	(05051824)
631420.46	4175441.60	161.48783	(05051824)	631438.33	4175441.76	188.37748	(07102905)

631456.19	4175441.91	464.42062	(08090519)	631474.06	4175442.06	474.69446	(07102905)
631491.93	4175428.58	461.31851	(07102905)	631474.21	4175414.65	428.43587	(08090519)
631456.50	4175414.35	406.37112	(05051824)	631438.78	4175414.05	393.13778	(06052001)
631421.06	4175413.74	377.29210	(06052001)	631403.35	4175413.44	378.49957	(05011817)
631372.00	4175404.51	373.59692	(04102617)	631371.09	4175381.11	347.34547	(08102618)
631383.81	4175366.34	334.62141	(08102618)	631396.53	4175351.58	271.81864	(05011817)
631425.06	4175326.73	258.06147	(05011817)	631440.87	4175316.64	249.10713	(08071406)
631456.68	4175306.56	236.98236	(08071406)	631472.49	4175296.47	222.20351	(08071406)
631488.30	4175286.39	218.05060	(08090903)	631504.11	4175276.30	215.62547	(08031018)
631519.92	4175266.22	214.46036	(08031018)	631535.73	4175256.13	211.70571	(08031018)
631551.54	4175246.05	207.52697	(08031018)	631579.95	4175222.15	196.28056	(08031018)
631592.55	4175208.34	190.53834	(08031018)	631605.15	4175194.53	185.01603	(08031018)
631617.74	4175180.72	179.64442	(08031018)	631630.34	4175166.91	174.48528	(08031018)
631642.94	4175153.10	170.18475	(06052001)	631655.54	4175139.29	167.12620	(06052001)
631668.14	4175125.47	164.04405	(06052001)	631680.74	4175111.66	160.99015	(06052001)
631693.34	4175097.85	157.89730	(06052001)	631705.94	4175084.04	154.82561	(06052001)
631718.53	4175070.23	151.77026	(06052001)	631731.13	4175056.42	148.73230	(06052001)
631743.73	4175042.61	145.92102	(04081924)	631773.29	4175020.32	142.53337	(04081924)
631790.26	4175011.84	140.80899	(04081924)	631822.21	4174999.50	136.03343	(04081924)
631837.20	4174995.64	133.84170	(08090905)	631852.19	4174991.77	131.88562	(05011317)
631866.84	4175007.53	135.36932	(05011317)	631866.50	4175027.14	136.80444	(05011317)
631866.16	4175046.76	142.07726	(08090519)	631865.83	4175066.37	147.18170	(08090519)
631865.49	4175085.99	151.01883	(05011417)	631865.15	4175105.60	153.23883	(05011417)
631864.81	4175125.22	152.74536	(05011417)	631864.47	4175144.83	156.76889	(05110817)
631864.13	4175164.45	160.53837	(05110817)	631863.80	4175184.06	166.50468	(07102905)
631863.46	4175203.68	172.58319	(07102905)	631863.12	4175223.29	174.48785	(07102905)
631862.78	4175242.91	171.88540	(07102905)	631862.44	4175262.52	171.00403	(08022004)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	172.94803	(08021718)	631861.77	4175301.75	187.53931	(06052002)
631861.43	4175321.37	201.04136	(06052002)	631861.09	4175340.98	207.71559	(06052002)
631860.75	4175360.60	209.58920	(08110218)	631860.41	4175380.21	207.54068	(07080303)
631860.07	4175399.83	213.63446	(07080303)	631859.73	4175419.44	216.06612	(04110905)
631859.40	4175439.06	238.52309	(04110905)	631859.06	4175458.67	250.76301	(04101518)
631858.72	4175478.29	255.78216	(04101518)	631858.38	4175497.90	252.37019	(06100506)
631858.04	4175517.52	258.30058	(04083003)	631857.70	4175537.13	295.21911	(04083003)
631857.37	4175556.75	313.61287	(04083003)	631857.03	4175576.36	308.74530	(04083003)
631856.69	4175595.98	309.86213	(08091903)	631856.35	4175615.59	308.73446	(06041502)
631856.01	4175635.21	307.28143	(05030407)	631855.67	4175654.82	289.88335	(08021518)
631855.33	4175674.44	262.60606	(08021518)	631855.00	4175694.05	273.53549	(07102907)
631854.66	4175713.67	274.34145	(07102907)	631854.32	4175733.28	266.04390	(08040222)

631853.98	4175752.90	253.96772	(08010919)	631853.64	4175772.51	242.55139	(08111818)
631853.30	4175792.13	250.83501	(06111908)	631852.97	4175811.74	252.30601	(06111908)
631852.63	4175831.36	242.45310	(06111908)	631852.29	4175850.97	235.63768	(06102818)
631851.95	4175870.59	224.26801	(06102818)	631851.61	4175890.20	217.82086	(05072806)
631851.27	4175909.82	216.15715	(05072806)	631850.94	4175929.43	210.32672	(07112517)
631850.60	4175949.05	208.01968	(07112517)	631850.26	4175968.66	204.30099	(07092306)
631830.54	4175988.13	194.89717	(07092306)	631811.15	4175987.98	195.05768	(06052306)
631791.77	4175987.83	206.77932	(06052306)	631772.39	4175987.67	215.71509	(06052306)
631753.00	4175987.52	221.42380	(06052306)	631733.62	4175987.37	223.42395	(06052306)
631714.24	4175987.22	221.47077	(06052306)	631694.85	4175987.07	221.14781	(06110304)
631675.47	4175986.92	220.00175	(06110304)	631656.09	4175986.77	222.48767	(04101619)
631636.70	4175986.62	235.52593	(06062806)	631617.32	4175986.46	244.76275	(06062806)
631597.94	4175986.31	248.30328	(06062806)	631578.55	4175986.16	245.67931	(06062806)
631559.17	4175986.01	239.81648	(08102318)	631539.79	4175985.86	244.83505	(04050604)
631520.40	4175985.71	250.96320	(07092304)	631501.02	4175985.56	258.75642	(06081406)
631481.64	4175985.40	313.36771	(06081406)	631462.25	4175985.25	355.73406	(06081406)
631442.87	4175985.10	362.82181	(07102901)	631423.49	4175984.95	359.65222	(06080603)
631404.10	4175984.80	344.23950	(06080603)	631384.72	4175984.65	329.69216	(07091007)
631365.34	4175984.50	320.20451	(04111519)	631345.95	4175984.35	310.98915	(04111519)
631326.57	4175984.19	287.45609	(04111519)	631307.19	4175984.04	252.74571	(04111519)
631287.80	4175983.89	243.78338	(04111019)	631050.63	4175100.50	214.82408	(04101605)
631050.63	4175200.50	267.06074	(06011109)	631050.63	4175300.50	309.42276	(04012317)
631050.63	4175400.50	360.24860	(08081806)	631050.63	4175500.50	506.77711	(07110617)
631050.63	4175600.50	462.47484	(06072903)	631050.63	4175700.50	369.21525	(05072902)
631050.63	4175800.50	281.77560	(04082001)	631050.63	4175900.50	218.07002	(04082205)
631050.63	4176000.50	186.64312	(05081406)	631050.63	4176100.50	159.92526	(07090905)
631150.63	4175100.50	217.01647	(06102817)	631150.63	4175200.50	254.87794	(06102817)
631150.63	4175300.50	319.18561	(06011109)	631150.63	4175400.50	408.06988	(04012317)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	625.22124	(05072102)	631150.63	4175600.50	631.60263	(05030320)
631150.63	4175700.50	602.47461	(04082001)	631150.63	4175800.50	372.93824	(04082205)
631150.63	4175900.50	289.22346	(04083005)	631150.63	4176000.50	205.35488	(08091907)
631150.63	4176100.50	178.45852	(08091907)	631250.63	4175100.50	191.55462	(08081805)
631250.63	4175200.50	227.13539	(08081805)	631250.63	4175300.50	276.22371	(07100818)
631250.63	4175400.50	409.12427	(06102817)	631250.63	4175500.50	700.98722	(08121017)
631250.63	4175600.50	1139.73488	(05071702)	631250.63	4175700.50	484.89413	(05112506)
631250.63	4175800.50	392.27826	(07102902)	631250.63	4175900.50	266.01209	(07030418)
631250.63	4176000.50	215.43819	(07080306)	631250.63	4176100.50	181.57309	(07080306)
631350.63	4175100.50	180.87872	(05110722)	631350.63	4175200.50	208.92843	(05110722)
631350.63	4175300.50	255.81619	(04102617)	631350.63	4175400.50	374.59250	(04102617)

631350.63	4175500.50	184.56045	(05021806)	631350.63	4175600.50	742.04659	(04041821)
631350.63	4175700.50	335.29276	(08121017)	631350.63	4175800.50	138.91288	(06081406)
631350.63	4175900.50	142.69203	(04020106)	631350.63	4176000.50	282.60761	(04111519)
631350.63	4176100.50	193.30177	(04111519)	631450.63	4175100.50	174.40644	(08102618)
631450.63	4175200.50	199.60393	(05011817)	631450.63	4175300.50	239.45479	(08071406)
631450.63	4175400.50	384.36143	(06052001)	631450.63	4175500.50	327.94785	(06052002)
631450.63	4175600.50	840.63242	(08091903)	631450.63	4175700.50	372.79424	(05072102)
631450.63	4175800.50	218.16544	(06110304)	631450.63	4175900.50	215.77272	(06081406)
631450.63	4176000.50	287.14558	(07091007)	631450.63	4176100.50	236.45723	(07091007)
631550.63	4175100.50	164.94853	(08071406)	631550.63	4175200.50	185.06993	(08031018)
631550.63	4175300.50	221.44787	(04081924)	631550.63	4175400.50	281.89949	(07102905)
631550.63	4175500.50	491.17603	(07111901)	631550.63	4175600.50	632.44526	(04030118)
631550.63	4175700.50	472.47426	(06111908)	631550.63	4175800.50	332.40785	(07092306)
631550.63	4175900.50	308.22779	(05011319)	631550.63	4176000.50	235.10554	(04050604)
631550.63	4176100.50	200.98982	(06081406)	631650.63	4175100.50	161.23944	(08031018)
631650.63	4175200.50	176.49873	(04081924)	631650.63	4175300.50	212.59247	(05011417)
631650.63	4175400.50	250.37278	(06052002)	631650.63	4175500.50	344.55050	(04110905)
631650.63	4175600.50	443.69902	(08091903)	631650.63	4175700.50	410.39133	(07121418)
631650.63	4175800.50	321.57316	(05072806)	631650.63	4175900.50	275.16177	(06052306)
631650.63	4176000.50	227.71417	(06062806)	631650.63	4176100.50	193.99854	(06062806)
631750.63	4175100.50	152.88386	(08090905)	631750.63	4175200.50	175.80626	(08090519)
631750.63	4175300.50	199.94949	(07102905)	631750.63	4175400.50	238.45282	(08110218)
631750.63	4175500.50	293.79975	(04101518)	631750.63	4175600.50	356.60097	(08091903)
631750.63	4175700.50	317.16828	(08040222)	631750.63	4175800.50	278.00816	(06102818)
631750.63	4175900.50	237.55436	(07092306)	631750.63	4176000.50	217.31461	(06052306)
631750.63	4176100.50	181.46029	(06062806)	631850.63	4175100.50	153.47549	(05011417)
631850.63	4175200.50	171.85622	(07102905)	631850.63	4175300.50	183.94978	(06052002)
631850.63	4175400.50	215.58354	(07080303)	631850.63	4175500.50	254.92950	(06100506)
631850.63	4175600.50	312.90485	(08091903)	631850.63	4175700.50	277.05415	(07102907)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK14 ***

INCLUDING SOURCE(S): STCK14 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	253.96664	(06111908)	631850.63	4175900.50	218.03401	(05072806)
631850.63	4176000.50	191.38715	(07092306)	631850.63	4176100.50	179.24717	(06052306)
631950.63	4175100.50	147.22689	(05110817)	631950.63	4175200.50	152.68688	(08022004)
631950.63	4175300.50	186.29840	(06052002)	631950.63	4175400.50	199.01312	(04110905)
631950.63	4175500.50	227.57082	(07102803)	631950.63	4175600.50	270.57078	(08091903)
631950.63	4175700.50	238.04631	(07102907)	631950.63	4175800.50	219.61138	(04041919)
631950.63	4175900.50	208.14389	(06102818)	631950.63	4176000.50	187.04114	(07112517)
631950.63	4176100.50	162.15423	(08040221)	632050.63	4175100.50	135.40663	(07102905)
632050.63	4175200.50	141.77386	(08021718)	632050.63	4175300.50	161.53423	(04021502)
632050.63	4175400.50	189.72660	(04110905)	632050.63	4175500.50	208.65743	(04030118)

632050.63	4175600.50	227.63466	(08091903)	632050.63	4175700.50	204.35500	(08010920)
632050.63	4175800.50	198.27763	(08010919)	632050.63	4175900.50	200.27364	(06111908)
632050.63	4176000.50	174.59725	(05072806)	632050.63	4176100.50	156.48575	(07092306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	110.34332	(08071406)	632304.44	4174354.52	77.52975	(05011817)
632192.15	4174956.32	104.03292	(08090903)	632420.62	4175510.15	192.21549	(04110905)
632418.97	4175552.92	222.47039	(04101518)	631187.00	4175727.00	240.29052	(06072903)
631166.00	4175729.00	235.12857	(06072903)	631121.00	4175719.00	229.25874	(06072903)
631035.00	4174830.00	116.83999	(04012317)	631106.00	4174825.00	105.31427	(08121017)
631937.00	4174528.00	91.84254	(04102617)	631322.00	4174522.00	91.64272	(06102817)
629800.63	4173850.44	12.18079	(06121421)	630150.63	4173850.44	24.81704	(04012317)
630500.63	4173850.44	40.57160	(06011109)	630850.63	4173850.44	47.70377	(05012117)
631200.63	4173850.44	49.91161	(06102817)	631550.63	4173850.44	48.20295	(05050803)
631900.63	4173850.44	45.19160	(05021805)	632250.63	4173850.44	49.03133	(04122824)
632600.63	4173850.44	52.36812	(08071406)	632950.63	4173850.44	46.88939	(08031018)
633300.63	4173850.44	42.04029	(05011520)	629800.63	4174200.44	20.38556	(08081806)
630150.63	4174200.44	34.27915	(06121421)	630500.63	4174200.44	62.77403	(04012317)
630850.63	4174200.44	76.84747	(06011109)	631200.63	4174200.44	72.60890	(06102817)
631550.63	4174200.44	66.84577	(08081805)	631900.63	4174200.44	64.99409	(04122823)
632250.63	4174200.44	61.77387	(05011817)	632600.63	4174200.44	56.36260	(04122822)
632950.63	4174200.44	54.06086	(05011520)	633300.63	4174200.44	47.76562	(05011317)
629800.63	4174550.44	43.05263	(06120217)	630150.63	4174550.44	49.43436	(07020624)
630500.63	4174550.44	71.05610	(06121421)	630850.63	4174550.44	87.29869	(04012317)
631200.63	4174550.44	86.87332	(04101605)	631550.63	4174550.44	86.68324	(08081805)
631900.63	4174550.44	87.60307	(04102617)	632250.63	4174550.44	87.37919	(08071406)
632600.63	4174550.44	78.44463	(08031018)	632950.63	4174550.44	65.01473	(05011317)
633300.63	4174550.44	55.44367	(06011617)	629800.63	4174900.44	38.97531	(05122617)
630150.63	4174900.44	59.53623	(07111023)	630500.63	4174900.44	86.35384	(04011017)
630850.63	4174900.44	101.98718	(04041824)	631200.63	4174900.44	116.93669	(08121017)
631550.63	4174900.44	123.30540	(06102817)	631900.63	4174900.44	117.59046	(04102617)
632250.63	4174900.44	101.67120	(08090903)	632600.63	4174900.44	89.89947	(05011417)
632950.63	4174900.44	72.22591	(04012318)	633300.63	4174900.44	64.48153	(06120617)
629800.63	4175250.44	47.62676	(04022207)	630150.63	4175250.44	81.38154	(04022207)
630500.63	4175250.44	96.11985	(07110617)	630850.63	4175250.44	125.81294	(04041822)
631200.63	4175250.44	153.28803	(08081806)	631550.63	4175250.44	252.40815	(07122718)
631900.63	4175250.44	186.91508	(08102618)	632250.63	4175250.44	138.55179	(05051824)
632600.63	4175250.44	114.46753	(08021718)	632950.63	4175250.44	87.94958	(06121018)
633300.63	4175250.44	71.62514	(07010217)	629800.63	4175600.44	67.27916	(04121304)
630150.63	4175600.44	95.09408	(04121304)	630500.63	4175600.44	122.32694	(04121304)
630850.63	4175600.44	153.91986	(05030403)	631200.63	4175600.44	219.16732	(05030401)

631550.63	4175600.44	262.62798	(06111908)	631900.63	4175600.44	270.62903	(06052002)
632250.63	4175600.44	276.40808	(04101518)	632600.63	4175600.44	188.03573	(04030118)
632950.63	4175600.44	122.52443	(04030118)	633300.63	4175600.44	69.98309	(05011522)
629800.63	4175950.44	50.87601	(07042002)	630150.63	4175950.44	71.22641	(07042002)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	105.14378	(06011024)	630850.63	4175950.44	133.37811	(06121423)
631200.63	4175950.44	167.43232	(08081602)	631550.63	4175950.44	202.17726	(05081406)
631900.63	4175950.44	277.42239	(06081406)	632250.63	4175950.44	235.04530	(05072806)
632600.63	4175950.44	176.23938	(04041919)	632950.63	4175950.44	114.29164	(06012918)
633300.63	4175950.44	80.69137	(06121320)	629800.63	4176300.44	52.07910	(06011217)
630150.63	4176300.44	58.37232	(05030321)	630500.63	4176300.44	79.66491	(05110619)
630850.63	4176300.44	97.68985	(07120623)	631200.63	4176300.44	109.71158	(04110906)
631550.63	4176300.44	130.08869	(08091907)	631900.63	4176300.44	140.21872	(05072006)
632250.63	4176300.44	177.65577	(06062806)	632600.63	4176300.44	119.90280	(04121019)
632950.63	4176300.44	86.31651	(05020806)	633300.63	4176300.44	75.39878	(05020719)
629800.63	4176650.44	43.04008	(07120622)	630150.63	4176650.44	57.13103	(06122121)
630500.63	4176650.44	66.92750	(04021520)	630850.63	4176650.44	72.27541	(04110906)
631200.63	4176650.44	85.59548	(04083005)	631550.63	4176650.44	92.08034	(05112506)
631900.63	4176650.44	99.21152	(04111519)	632250.63	4176650.44	105.67726	(06081406)
632600.63	4176650.44	114.68716	(06062806)	632950.63	4176650.44	81.89104	(06052306)
633300.63	4176650.44	62.11393	(07120406)	629800.63	4177000.44	40.15445	(04021520)
630150.63	4177000.44	41.32994	(04021521)	630500.63	4177000.44	53.52987	(04010518)
630850.63	4177000.44	59.50487	(04120908)	631200.63	4177000.44	69.65462	(08091907)
631550.63	4177000.44	69.42066	(07080306)	631900.63	4177000.44	69.66721	(04111519)
632250.63	4177000.44	69.68034	(07102901)	632600.63	4177000.44	66.25374	(06010521)
632950.63	4177000.44	61.65074	(06062806)	633300.63	4177000.44	51.66567	(06122320)
629800.63	4177350.44	36.40890	(04021521)	630150.63	4177350.44	40.73826	(04010518)
630500.63	4177350.44	44.32573	(04120908)	630850.63	4177350.44	49.44359	(08122718)
631200.63	4177350.44	59.65982	(08091907)	631550.63	4177350.44	53.56000	(06020124)
631900.63	4177350.44	53.10392	(08122723)	632250.63	4177350.44	55.69140	(04121819)
632600.63	4177350.44	54.78202	(06122319)	632950.63	4177350.44	53.86790	(06062806)
633300.63	4177350.44	42.58099	(08122905)	631670.70	4175493.59	161.61186	(06062806)
631669.80	4175641.41	560.94189	(06102818)	631665.32	4175796.39	142.38797	(06121423)
631417.17	4175826.85	357.10752	(05111617)	631417.17	4175673.66	509.17733	(05030401)
631422.55	4175484.63	246.00202	(06051905)	631268.42	4175983.74	166.18425	(06033021)
631275.69	4175523.99	227.75167	(07110617)	631345.65	4175419.50	226.66808	(05072102)
631384.72	4175441.30	218.64546	(05072102)	631491.93	4175442.21	204.62590	(05072102)
631491.93	4175414.95	207.97627	(05111717)	631385.63	4175413.14	264.63482	(05072102)
631358.37	4175395.87	223.14629	(05072102)	631409.25	4175336.81	240.96151	(05111717)
631567.35	4175235.96	257.37015	(04101605)	631756.33	4175028.80	121.12217	(07030618)

631807.22	4175003.36	124.98304	(07030618)	631867.18	4174987.91	124.62723	(04102617)
631849.92	4175988.28	232.92114	(05072006)	631268.74	4175963.75	175.50262	(06033021)
631269.05	4175943.76	179.80664	(06033021)	631269.37	4175923.77	184.76699	(08081602)
631269.68	4175903.78	185.54139	(05072902)	631270.00	4175883.79	188.19081	(05111617)
631270.32	4175863.81	192.35654	(06011217)	631270.63	4175843.82	207.08741	(06121423)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	214.09790	(06121423)	631271.26	4175803.84	220.97873	(06041503)
631271.58	4175783.85	226.46660	(05071702)	631271.90	4175763.86	234.81850	(05083119)
631272.21	4175743.87	252.46217	(06072903)	631272.53	4175723.88	270.93300	(06072903)
631272.85	4175703.89	274.48300	(06072903)	631273.16	4175683.90	271.19108	(06041223)
631273.48	4175663.91	264.65259	(06041223)	631273.79	4175643.92	248.45493	(05030403)
631274.11	4175623.94	249.46155	(07110902)	631274.43	4175603.95	246.64229	(05030401)
631274.74	4175583.96	236.72044	(05030401)	631275.06	4175563.97	226.89476	(04041821)
631275.37	4175543.98	221.70474	(04041821)	631285.68	4175509.06	235.44360	(07110617)
631295.68	4175494.14	234.82019	(07110617)	631305.67	4175479.21	226.28033	(07110617)
631315.67	4175464.28	220.56273	(04041822)	631325.66	4175449.35	220.70684	(05030319)
631335.66	4175434.43	223.72199	(06051905)	631358.67	4175426.77	234.81599	(05072102)
631371.70	4175434.03	267.94880	(05072102)	631402.59	4175441.45	236.69301	(05072102)
631420.46	4175441.60	240.61190	(05072102)	631438.33	4175441.76	239.48394	(05072102)
631456.19	4175441.91	234.12671	(05072102)	631474.06	4175442.06	220.32456	(05072102)
631491.93	4175428.58	206.83528	(05111717)	631474.21	4175414.65	211.23529	(05111717)
631456.50	4175414.35	211.19347	(05111717)	631438.78	4175414.05	212.53283	(05072102)
631421.06	4175413.74	214.92527	(05072102)	631403.35	4175413.44	207.27526	(05072102)
631372.00	4175404.51	231.48886	(05072102)	631371.09	4175381.11	234.56071	(08081806)
631383.81	4175366.34	240.07521	(08081806)	631396.53	4175351.58	244.55722	(05111717)
631425.06	4175326.73	258.34857	(05111717)	631440.87	4175316.64	265.15324	(05111717)
631456.68	4175306.56	255.44886	(05111717)	631472.49	4175296.47	262.68653	(06041020)
631488.30	4175286.39	238.54600	(06041020)	631504.11	4175276.30	247.34391	(04012317)
631519.92	4175266.22	214.58928	(04012317)	631535.73	4175256.13	247.56279	(08121017)
631551.54	4175246.05	249.57904	(07122718)	631579.95	4175222.15	242.40435	(04101605)
631592.55	4175208.34	231.82947	(06102817)	631605.15	4175194.53	214.23492	(06102817)
631617.74	4175180.72	187.04011	(06102817)	631630.34	4175166.91	177.58494	(06102817)
631642.94	4175153.10	166.02042	(06102817)	631655.54	4175139.29	154.86382	(07100818)
631668.14	4175125.47	150.26161	(08081805)	631680.74	4175111.66	149.92505	(08081805)
631693.34	4175097.85	146.88866	(08081805)	631705.94	4175084.04	141.56022	(08081805)
631718.53	4175070.23	134.23246	(08081805)	631731.13	4175056.42	125.36747	(08081805)
631743.73	4175042.61	117.86498	(07030618)	631773.29	4175020.32	124.84132	(07030618)
631790.26	4175011.84	126.13436	(07030618)	631822.21	4174999.50	125.51388	(05110722)
631837.20	4174995.64	124.33998	(05110722)	631852.19	4174991.77	121.42266	(05110722)
631866.84	4175007.53	127.63285	(04102617)	631866.50	4175027.14	130.89056	(04102617)

631866.16	4175046.76	134.39178	(04102617)	631865.83	4175066.37	137.91944	(04102617)
631865.49	4175085.99	141.54073	(04102617)	631865.15	4175105.60	145.26509	(04102617)
631864.81	4175125.22	149.15025	(04102617)	631864.47	4175144.83	153.20864	(04102617)
631864.13	4175164.45	157.47431	(04102617)	631863.80	4175184.06	162.00035	(04102617)
631863.46	4175203.68	166.89259	(04102617)	631863.12	4175223.29	185.88930	(04102617)
631862.78	4175242.91	199.04735	(04102617)	631862.44	4175262.52	203.31611	(04102617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	208.66265	(04102617)	631861.77	4175301.75	207.25359	(08102618)
631861.43	4175321.37	173.54177	(05110722)	631861.09	4175340.98	182.54519	(05110722)
631860.75	4175360.60	192.11596	(05110722)	631860.41	4175380.21	202.25056	(05110722)
631860.07	4175399.83	212.92766	(05110722)	631859.73	4175419.44	224.07731	(05110722)
631859.40	4175439.06	276.15829	(04102623)	631859.06	4175458.67	290.59708	(04102623)
631858.72	4175478.29	305.50996	(04102623)	631858.38	4175497.90	360.31603	(04102617)
631858.04	4175517.52	378.04888	(04102617)	631857.70	4175537.13	393.18785	(04102617)
631857.37	4175556.75	402.33882	(04102617)	631857.03	4175576.36	399.24168	(04102617)
631856.69	4175595.98	373.16573	(04102617)	631856.35	4175615.59	305.77633	(04102617)
631856.01	4175635.21	391.29095	(04110905)	631855.67	4175654.82	622.68884	(04110905)
631855.33	4175674.44	789.13391	(04101518)	631855.00	4175694.05	922.36138	(05020803)
631854.66	4175713.67	1215.30515	(07102907)	631854.32	4175733.28	1012.57082	(06111908)
631853.98	4175752.90	741.37965	(06102818)	631853.64	4175772.51	577.39847	(07092306)
631853.30	4175792.13	491.92007	(06110304)	631852.97	4175811.74	440.33328	(06062806)
631852.63	4175831.36	406.23366	(06062806)	631852.29	4175850.97	351.51736	(06062806)
631851.95	4175870.59	315.56315	(06081406)	631851.61	4175890.20	295.10542	(06081406)
631851.27	4175909.82	402.39451	(04020106)	631850.94	4175929.43	398.18201	(06080603)
631850.60	4175949.05	375.85543	(06080603)	631850.26	4175968.66	300.60056	(05072006)
631830.54	4175988.13	236.94500	(05072006)	631811.15	4175987.98	238.59446	(04111519)
631791.77	4175987.83	234.51174	(04111519)	631772.39	4175987.67	232.52296	(07030418)
631753.00	4175987.52	239.02251	(07030418)	631733.62	4175987.37	236.21316	(07080306)
631714.24	4175987.22	233.91173	(07102902)	631694.85	4175987.07	228.89272	(05042719)
631675.47	4175986.92	244.57640	(08091907)	631656.09	4175986.77	238.94909	(08091907)
631636.70	4175986.62	232.16771	(06110119)	631617.32	4175986.46	248.20627	(04083005)
631597.94	4175986.31	244.59042	(07090904)	631578.55	4175986.16	257.77061	(04101820)
631559.17	4175986.01	253.98750	(05112504)	631539.79	4175985.86	253.98016	(07082502)
631520.40	4175985.71	264.60628	(07082502)	631501.02	4175985.56	269.97080	(07082502)
631481.64	4175985.40	226.13995	(07082502)	631462.25	4175985.25	188.43574	(04082001)
631442.87	4175985.10	190.99955	(04082001)	631423.49	4175984.95	191.13951	(04082001)
631404.10	4175984.80	188.88879	(04082001)	631384.72	4175984.65	184.42616	(04082001)
631365.34	4175984.50	178.02169	(04082001)	631345.95	4175984.35	169.98306	(04082001)
631326.57	4175984.19	166.36267	(07102702)	631307.19	4175984.04	164.71924	(07102702)
631287.80	4175983.89	164.98145	(06033021)	631050.63	4175100.50	129.59756	(08081806)

631050.63	4175200.50	144.47776	(05072102)	631050.63	4175300.50	146.81286	(05030319)
631050.63	4175400.50	171.67114	(07110617)	631050.63	4175500.50	168.76739	(04041821)
631050.63	4175600.50	190.39081	(07110902)	631050.63	4175700.50	210.16278	(06072903)
631050.63	4175800.50	177.94970	(05071702)	631050.63	4175900.50	162.71742	(06121423)
631050.63	4176000.50	146.93457	(05072902)	631050.63	4176100.50	129.32027	(06033021)
631150.63	4175100.50	138.42095	(05111717)	631150.63	4175200.50	145.06302	(08081806)
631150.63	4175300.50	160.47810	(05072102)	631150.63	4175400.50	166.24595	(07110617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	178.23172	(04041821)	631150.63	4175600.50	206.51789	(07110902)
631150.63	4175700.50	234.51019	(06072903)	631150.63	4175800.50	193.80139	(05071702)
631150.63	4175900.50	163.54035	(06011217)	631150.63	4176000.50	156.58736	(06033021)
631150.63	4176100.50	130.41727	(07120623)	631250.63	4175100.50	147.83226	(04012317)
631250.63	4175200.50	156.17695	(05111717)	631250.63	4175300.50	166.79158	(05072102)
631250.63	4175400.50	187.11078	(04041823)	631250.63	4175500.50	220.34621	(07110617)
631250.63	4175600.50	236.58469	(05030401)	631250.63	4175700.50	263.31559	(06072903)
631250.63	4175800.50	215.54889	(06041503)	631250.63	4175900.50	179.72370	(05051724)
631250.63	4176000.50	157.04096	(06033021)	631250.63	4176100.50	144.41742	(04082001)
631350.63	4175100.50	143.28217	(08121017)	631350.63	4175200.50	174.52926	(04012317)
631350.63	4175300.50	193.01944	(05111717)	631350.63	4175400.50	223.65641	(05072102)
631350.63	4175500.50	320.14915	(04041823)	631350.63	4175600.50	322.09864	(04041821)
631350.63	4175700.50	317.43476	(06072903)	631350.63	4175800.50	248.60729	(06041503)
631350.63	4175900.50	209.97048	(08081602)	631350.63	4176000.50	173.24141	(04082001)
631350.63	4176100.50	146.60670	(07082502)	631450.63	4175100.50	151.55410	(06011109)
631450.63	4175200.50	171.63598	(08121017)	631450.63	4175300.50	279.67521	(06041020)
631450.63	4175400.50	212.84166	(05111717)	631450.63	4175500.50	238.91859	(06051905)
631450.63	4175600.50	327.43125	(06121422)	631450.63	4175700.50	515.11782	(06072903)
631450.63	4175800.50	506.64628	(06121423)	631450.63	4175900.50	337.82978	(06033021)
631450.63	4176000.50	180.92480	(07082502)	631450.63	4176100.50	151.93878	(04082205)
631550.63	4175100.50	156.49750	(06102817)	631550.63	4175200.50	180.52983	(04101605)
631550.63	4175300.50	145.82795	(08121017)	631550.63	4175400.50	171.18441	(04012317)
631550.63	4175500.50	198.74974	(05072102)	631550.63	4175600.50	262.76390	(06111908)
631550.63	4175700.50	468.64663	(06072903)	631550.63	4175800.50	254.06740	(06121423)
631550.63	4175900.50	146.76860	(04082001)	631550.63	4176000.50	249.63726	(05112504)
631550.63	4176100.50	159.79270	(04083005)	631650.63	4175100.50	145.65863	(07100818)
631650.63	4175200.50	230.37103	(06102817)	631650.63	4175300.50	114.84274	(04101605)
631650.63	4175400.50	128.62233	(04101605)	631650.63	4175500.50	172.45546	(06062806)
631650.63	4175600.50	330.44453	(07092306)	631650.63	4175700.50	446.83835	(05020803)
631650.63	4175800.50	150.85552	(06121423)	631650.63	4175900.50	83.39167	(04082001)
631650.63	4176000.50	234.47038	(08091907)	631650.63	4176100.50	169.91416	(08091907)
631750.63	4175100.50	129.77041	(07030618)	631750.63	4175200.50	187.16146	(08081805)

631750.63 4175300.50 74.08898 (06102817) 631750.63 4175400.50 84.35911 (06102817)
631750.63 4175500.50 115.97030 (06081406) 631750.63 4175600.50 273.01727 (06062806)
631750.63 4175700.50 944.37154 (05012118) 631750.63 4175800.50 134.92749 (06081406)
631750.63 4175900.50 93.27605 (04111519) 631750.63 4176000.50 233.86657 (07030418)
631750.63 4176100.50 172.80633 (07030418) 631850.63 4175100.50 140.72611 (04102617)
631850.63 4175200.50 164.81260 (04102617) 631850.63 4175300.50 174.59041 (05110722)
631850.63 4175400.50 230.93572 (05110722) 631850.63 4175500.50 347.95820 (04102623)
631850.63 4175600.50 423.69105 (04102617) 631850.63 4175700.50 1162.80510 (05012118)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	456.54725	(06110304)	631850.63	4175900.50	281.29764	(06081406)
631850.63	4176000.50	226.70808	(05072006)	631850.63	4176100.50	186.56579	(05072006)
631950.63	4175100.50	130.80271	(08102618)	631950.63	4175200.50	150.78721	(05011817)
631950.63	4175300.50	212.21553	(08071406)	631950.63	4175400.50	225.90136	(06052001)
631950.63	4175500.50	205.60367	(08071406)	631950.63	4175600.50	338.89239	(06052002)
631950.63	4175700.50	571.97384	(05020803)	631950.63	4175800.50	561.67534	(06052306)
631950.63	4175900.50	348.44933	(06062806)	631950.63	4176000.50	246.87942	(08062724)
631950.63	4176100.50	186.25691	(06112624)	632050.63	4175100.50	131.28222	(08071406)
632050.63	4175200.50	135.05615	(08090903)	632050.63	4175300.50	169.75221	(08031018)
632050.63	4175400.50	220.10191	(04081924)	632050.63	4175500.50	303.93542	(05110817)
632050.63	4175600.50	361.97492	(07111901)	632050.63	4175700.50	385.85413	(05020803)
632050.63	4175800.50	463.75849	(06111908)	632050.63	4175900.50	295.36022	(06052306)
632050.63	4176000.50	256.22189	(06062806)	632050.63	4176100.50	197.21385	(06062806)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	114.21216	(08090903)	632304.44	4174354.52	83.79301	(08071406)

632192.15	4174956.32	123.63124	(08090903)	632420.62	4175510.15	241.83537	(04101606)
632418.97	4175552.92	247.31823	(04030118)	631187.00	4175727.00	202.26331	(06041503)
631166.00	4175729.00	198.21009	(06041503)	631121.00	4175719.00	194.70313	(06041503)
631035.00	4174830.00	107.21190	(04012317)	631106.00	4174825.00	117.41522	(04012317)
631937.00	4174528.00	98.36723	(04102617)	631322.00	4174522.00	84.61300	(05030118)
629800.63	4173850.44	14.22177	(06121421)	630150.63	4173850.44	23.17375	(04012317)
630500.63	4173850.44	32.95210	(06011109)	630850.63	4173850.44	47.90359	(06011109)
631200.63	4173850.44	52.05065	(06102817)	631550.63	4173850.44	47.64279	(06121420)
631900.63	4173850.44	44.86785	(04122823)	632250.63	4173850.44	49.32564	(04122824)
632600.63	4173850.44	52.02344	(08071406)	632950.63	4173850.44	52.76816	(08031018)
633300.63	4173850.44	43.22089	(05011317)	629800.63	4174200.44	18.79768	(07020624)
630150.63	4174200.44	35.51081	(06121421)	630500.63	4174200.44	62.60125	(04012317)
630850.63	4174200.44	71.12967	(06011109)	631200.63	4174200.44	66.70515	(06102817)
631550.63	4174200.44	68.78660	(08081805)	631900.63	4174200.44	67.92014	(04102617)
632250.63	4174200.44	70.65998	(05011817)	632600.63	4174200.44	60.44062	(08090903)
632950.63	4174200.44	55.64775	(05011520)	633300.63	4174200.44	54.53403	(05011417)
629800.63	4174550.44	37.48658	(04022118)	630150.63	4174550.44	56.35401	(04011017)
630500.63	4174550.44	63.84857	(05122619)	630850.63	4174550.44	93.56386	(04012317)
631200.63	4174550.44	97.46261	(06011109)	631550.63	4174550.44	88.10022	(07100818)
631900.63	4174550.44	95.42816	(04102617)	632250.63	4174550.44	93.01081	(08071406)
632600.63	4174550.44	79.85292	(04081924)	632950.63	4174550.44	80.86750	(05011417)
633300.63	4174550.44	63.60236	(06011617)	629800.63	4174900.44	39.87384	(05031518)
630150.63	4174900.44	58.11234	(06121217)	630500.63	4174900.44	84.18462	(04022118)
630850.63	4174900.44	99.79273	(08081806)	631200.63	4174900.44	123.52322	(04012317)
631550.63	4174900.44	131.95920	(06102817)	631900.63	4174900.44	126.98940	(04102617)
632250.63	4174900.44	120.28219	(08031018)	632600.63	4174900.44	114.26085	(05011417)
632950.63	4174900.44	84.83741	(05020802)	633300.63	4174900.44	74.72127	(04022223)
629800.63	4175250.44	44.39183	(08012221)	630150.63	4175250.44	60.75285	(06121422)
630500.63	4175250.44	98.82180	(04022207)	630850.63	4175250.44	140.15424	(07110617)
631200.63	4175250.44	162.11738	(06051905)	631550.63	4175250.44	286.56735	(08121017)
631900.63	4175250.44	257.65287	(05011817)	632250.63	4175250.44	181.44446	(07102905)
632600.63	4175250.44	153.37254	(08110218)	632950.63	4175250.44	99.39241	(04022224)
633300.63	4175250.44	82.42911	(07020218)	629800.63	4175600.44	55.35445	(05122618)
630150.63	4175600.44	80.29012	(05122618)	630500.63	4175600.44	114.10945	(05122618)
630850.63	4175600.44	165.14088	(06072903)	631200.63	4175600.44	247.24062	(06072903)
631550.63	4175600.44	488.10362	(06072903)	631900.63	4175600.44	1016.21797	(04030118)
632250.63	4175600.44	259.21205	(07102804)	632600.63	4175600.44	149.18729	(06011619)
632950.63	4175600.44	99.44763	(06011619)	633300.63	4175600.44	69.87401	(06011619)
629800.63	4175950.44	61.81928	(06011024)	630150.63	4175950.44	81.66555	(06011024)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

630500.63	4175950.44	107.01598	(06011217)	630850.63	4175950.44	131.94249	(05051724)
631200.63	4175950.44	155.50816	(07102702)	631550.63	4175950.44	273.59127	(05081406)
631900.63	4175950.44	210.56583	(08112520)	632250.63	4175950.44	178.28892	(07092306)
632600.63	4175950.44	152.36817	(06111908)	632950.63	4175950.44	96.73510	(04041919)
633300.63	4175950.44	80.65632	(06012918)	629800.63	4176300.44	48.44718	(04041820)
630150.63	4176300.44	74.91348	(07120622)	630500.63	4176300.44	80.20746	(05030322)
630850.63	4176300.44	103.67847	(04082001)	631200.63	4176300.44	113.74966	(04082205)
631550.63	4176300.44	123.48966	(08091907)	631900.63	4176300.44	122.33993	(05072006)
632250.63	4176300.44	117.53562	(08102318)	632600.63	4176300.44	120.32137	(06052306)
632950.63	4176300.44	81.77045	(05011818)	633300.63	4176300.44	65.41729	(04011021)
629800.63	4176650.44	45.83783	(05030322)	630150.63	4176650.44	58.09828	(06122121)
630500.63	4176650.44	64.24443	(04081205)	630850.63	4176650.44	75.43755	(04082205)
631200.63	4176650.44	82.57766	(05122507)	631550.63	4176650.44	89.42709	(07102902)
631900.63	4176650.44	89.28226	(04111519)	632250.63	4176650.44	83.16128	(05082502)
632600.63	4176650.44	104.89839	(06062806)	632950.63	4176650.44	73.89677	(06052306)
633300.63	4176650.44	59.58006	(08021808)	629800.63	4177000.44	46.31822	(04021520)
630150.63	4177000.44	52.45186	(04021521)	630500.63	4177000.44	57.12742	(04120903)
630850.63	4177000.44	60.99879	(07012719)	631200.63	4177000.44	75.43966	(08091907)
631550.63	4177000.44	68.06486	(07080306)	631900.63	4177000.44	63.70536	(04111519)
632250.63	4177000.44	61.08785	(07102901)	632600.63	4177000.44	58.55878	(06010522)
632950.63	4177000.44	71.52597	(06062806)	633300.63	4177000.44	55.03852	(08021908)
629800.63	4177350.44	39.51933	(04021521)	630150.63	4177350.44	42.46334	(04010518)
630500.63	4177350.44	47.60639	(04120908)	630850.63	4177350.44	52.42468	(07021218)
631200.63	4177350.44	57.23572	(08091907)	631550.63	4177350.44	53.41431	(06020124)
631900.63	4177350.44	52.06159	(08122723)	632250.63	4177350.44	50.38977	(05021302)
632600.63	4177350.44	47.33669	(05121501)	632950.63	4177350.44	43.20171	(05121423)
633300.63	4177350.44	44.22343	(06062806)	631670.70	4175493.59	197.03000	(07092306)
631669.80	4175641.41	518.20559	(04101518)	631665.32	4175796.39	113.37282	(07082502)
631417.17	4175826.85	307.19665	(06033021)	631417.17	4175673.66	365.83449	(05071702)
631422.55	4175484.63	301.36003	(07110617)	631268.42	4175983.74	166.46690	(04082001)
631275.69	4175523.99	244.22216	(07110902)	631345.65	4175419.50	247.30965	(07110617)
631384.72	4175441.30	275.69002	(07110617)	631491.93	4175442.21	283.53463	(07110617)
631491.93	4175414.95	242.41144	(05072102)	631385.63	4175413.14	262.53776	(04041822)
631358.37	4175395.87	232.80926	(07110617)	631409.25	4175336.81	234.76392	(05072102)
631567.35	4175235.96	267.58951	(08121017)	631756.33	4175028.80	129.10841	(07030618)
631807.22	4175003.36	133.63794	(05110722)	631867.18	4174987.91	138.72485	(04102617)
631849.92	4175988.28	188.02723	(05072006)	631268.74	4175963.75	169.97149	(04082001)
631269.05	4175943.76	169.59970	(04082001)	631269.37	4175923.77	167.85705	(07102702)
631269.68	4175903.78	175.37809	(07102702)	631270.00	4175883.79	182.15147	(06033021)
631270.32	4175863.81	193.01696	(06033021)	631270.63	4175843.82	198.68695	(08081602)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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631270.95	4175823.83	204.96658	(08081602)	631271.26	4175803.84	206.78297	(05072902)
631271.58	4175783.85	209.40335	(05111617)	631271.90	4175763.86	214.25321	(06011217)
631272.21	4175743.87	220.53745	(06121423)	631272.53	4175723.88	228.31304	(06121423)
631272.85	4175703.89	234.40778	(06041503)	631273.16	4175683.90	240.14246	(05071702)
631273.48	4175663.91	241.28306	(05071702)	631273.79	4175643.92	255.04273	(06072903)
631274.11	4175623.94	274.04739	(06072903)	631274.43	4175603.95	277.71642	(06072903)
631274.74	4175583.96	274.52424	(06041223)	631275.06	4175563.97	267.58652	(06041223)
631275.37	4175543.98	247.04184	(06041223)	631285.68	4175509.06	246.44855	(05030401)
631295.68	4175494.14	244.56872	(05030401)	631305.67	4175479.21	236.47295	(06121422)
631315.67	4175464.28	232.42056	(04041821)	631325.66	4175449.35	233.66292	(07110617)
631335.66	4175434.43	244.99133	(07110617)	631358.67	4175426.77	255.37191	(07110617)
631371.70	4175434.03	264.63240	(07110617)	631402.59	4175441.45	323.62375	(07110617)
631420.46	4175441.60	375.86207	(04041821)	631438.33	4175441.76	304.65332	(07110617)
631456.19	4175441.91	301.82400	(07110617)	631474.06	4175442.06	296.99256	(07110617)
631491.93	4175428.58	260.90649	(07110617)	631474.21	4175414.65	245.67876	(06051905)
631456.50	4175414.35	254.80257	(07110617)	631438.78	4175414.05	376.48735	(07121517)
631421.06	4175413.74	352.61589	(07110617)	631403.35	4175413.44	296.46426	(05112423)
631372.00	4175404.51	243.48983	(07110617)	631371.09	4175381.11	225.90531	(05030319)
631383.81	4175366.34	228.42803	(06051905)	631396.53	4175351.58	233.81280	(05072102)
631425.06	4175326.73	266.57447	(08081806)	631440.87	4175316.64	302.98931	(08081806)
631456.68	4175306.56	326.87362	(05111717)	631472.49	4175296.47	326.86311	(05111717)
631488.30	4175286.39	317.82918	(05111717)	631504.11	4175276.30	299.74674	(04012317)
631519.92	4175266.22	294.05278	(04012317)	631535.73	4175256.13	290.16869	(08121017)
631551.54	4175246.05	283.47168	(08121017)	631579.95	4175222.15	258.93589	(04101605)
631592.55	4175208.34	254.08909	(04101605)	631605.15	4175194.53	244.62963	(04101605)
631617.74	4175180.72	208.95220	(04101605)	631630.34	4175166.91	187.33950	(06102817)
631642.94	4175153.10	183.67821	(06102817)	631655.54	4175139.29	175.81305	(06102817)
631668.14	4175125.47	163.86012	(06102817)	631680.74	4175111.66	156.52984	(07100818)
631693.34	4175097.85	154.14613	(08081805)	631705.94	4175084.04	151.49386	(08081805)
631718.53	4175070.23	146.12446	(08081805)	631731.13	4175056.42	138.49157	(08081805)
631743.73	4175042.61	129.12020	(08081805)	631773.29	4175020.32	133.37267	(07030618)
631790.26	4175011.84	134.71835	(07030618)	631822.21	4174999.50	133.70791	(05110722)
631837.20	4174995.64	131.61770	(05110722)	631852.19	4174991.77	135.94005	(04102617)
631866.84	4175007.53	142.16869	(04102617)	631866.50	4175027.14	145.89040	(04102617)
631866.16	4175046.76	149.86423	(04102617)	631865.83	4175066.37	153.86114	(04102617)
631865.49	4175085.99	157.95992	(04102617)	631865.15	4175105.60	162.16075	(04102617)
631864.81	4175125.22	166.52364	(04102617)	631864.47	4175144.83	171.07079	(04102617)
631864.13	4175164.45	175.84551	(04102617)	631863.80	4175184.06	180.89443	(04102617)
631863.46	4175203.68	186.34786	(04102617)	631863.12	4175223.29	213.30106	(04102617)
631862.78	4175242.91	254.46405	(08102618)	631862.44	4175262.52	264.67044	(08102618)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

631862.10	4175282.14	274.45276	(08102618)	631861.77	4175301.75	175.31134	(05110722)
631861.43	4175321.37	185.00710	(05110722)	631861.09	4175340.98	195.21805	(05110722)
631860.75	4175360.60	205.80183	(05110722)	631860.41	4175380.21	216.55388	(05110722)
631860.07	4175399.83	226.97461	(05110722)	631859.73	4175419.44	236.34566	(05110722)
631859.40	4175439.06	243.25013	(05110722)	631859.06	4175458.67	245.33548	(05110722)
631858.72	4175478.29	314.06154	(04102623)	631858.38	4175497.90	297.85348	(07102905)
631858.04	4175517.52	385.93167	(06052002)	631857.70	4175537.13	490.64623	(06052002)
631857.37	4175556.75	669.15724	(04101518)	631857.03	4175576.36	1052.15736	(04101518)
631856.69	4175595.98	1111.46115	(04030118)	631856.35	4175615.59	1138.96363	(07102907)
631856.01	4175635.21	814.03178	(08010919)	631855.67	4175654.82	592.69223	(06102818)
631855.33	4175674.44	451.12869	(06102818)	631855.00	4175694.05	350.06046	(07092306)
631854.66	4175713.67	276.94788	(07092306)	631854.32	4175733.28	281.06745	(05020318)
631853.98	4175752.90	277.71651	(05020318)	631853.64	4175772.51	268.25222	(05020318)
631853.30	4175792.13	255.91652	(05020318)	631852.97	4175811.74	242.52146	(05020318)
631852.63	4175831.36	228.93607	(05020318)	631852.29	4175850.97	215.74116	(05020318)
631851.95	4175870.59	203.06466	(05020318)	631851.61	4175890.20	191.12767	(05020318)
631851.27	4175909.82	256.43384	(04020106)	631850.94	4175929.43	245.23192	(05072006)
631850.60	4175949.05	239.98897	(05072006)	631850.26	4175968.66	230.92327	(05072006)
631830.54	4175988.13	185.41463	(05072006)	631811.15	4175987.98	186.17342	(04111519)
631791.77	4175987.83	191.78559	(06052305)	631772.39	4175987.67	209.05489	(07030418)
631753.00	4175987.52	220.56520	(07030418)	631733.62	4175987.37	223.95952	(07030418)
631714.24	4175987.22	222.05576	(07080306)	631694.85	4175987.07	220.70383	(07102902)
631675.47	4175986.92	246.74253	(05112506)	631656.09	4175986.77	246.83842	(07071003)
631636.70	4175986.62	247.38170	(08091907)	631617.32	4175986.46	269.55463	(07090905)
631597.94	4175986.31	268.07894	(07090905)	631578.55	4175986.16	263.47223	(04083005)
631559.17	4175986.01	279.57570	(04101820)	631539.79	4175985.86	291.10685	(04101820)
631520.40	4175985.71	295.15587	(04101820)	631501.02	4175985.56	282.38469	(04101820)
631481.64	4175985.40	218.63473	(05112504)	631462.25	4175985.25	181.77916	(04082205)
631442.87	4175985.10	175.31023	(04082205)	631423.49	4175984.95	174.25935	(07082502)
631404.10	4175984.80	176.17356	(07082502)	631384.72	4175984.65	175.41926	(07082502)
631365.34	4175984.50	172.11690	(07082502)	631345.95	4175984.35	166.52031	(07082502)
631326.57	4175984.19	164.22514	(07080103)	631307.19	4175984.04	166.06738	(04082001)
631287.80	4175983.89	167.20640	(04082001)	631050.63	4175100.50	138.54964	(05072102)
631050.63	4175200.50	141.16737	(05030319)	631050.63	4175300.50	166.90686	(07110617)
631050.63	4175400.50	165.96259	(04041821)	631050.63	4175500.50	187.99018	(07110902)
631050.63	4175600.50	212.76988	(06072903)	631050.63	4175700.50	186.05052	(05071702)
631050.63	4175800.50	170.93429	(06121423)	631050.63	4175900.50	159.73258	(05072902)
631050.63	4176000.50	139.34741	(06033021)	631050.63	4176100.50	133.89681	(04082001)
631150.63	4175100.50	137.07457	(08081806)	631150.63	4175200.50	154.38166	(05072102)
631150.63	4175300.50	162.21877	(07110617)	631150.63	4175400.50	173.98796	(04041821)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	204.81455	(07110902)	631150.63	4175600.50	236.13691	(06072903)
631150.63	4175700.50	202.21377	(05071702)	631150.63	4175800.50	179.68366	(06011217)
631150.63	4175900.50	168.48263	(06033021)	631150.63	4176000.50	142.50133	(07120623)
631150.63	4176100.50	136.05529	(04082001)	631250.63	4175100.50	146.00610	(05111717)
631250.63	4175200.50	156.33774	(05072102)	631250.63	4175300.50	174.52427	(04041823)
631250.63	4175400.50	209.30194	(07110617)	631250.63	4175500.50	231.77288	(05030401)
631250.63	4175600.50	265.33201	(06072903)	631250.63	4175700.50	227.67912	(06041503)
631250.63	4175800.50	199.42082	(05051724)	631250.63	4175900.50	172.36945	(07102702)
631250.63	4176000.50	160.64160	(04082001)	631250.63	4176100.50	139.15520	(07082502)
631350.63	4175100.50	156.60144	(04012317)	631350.63	4175200.50	172.91164	(05111717)
631350.63	4175300.50	204.20567	(05072102)	631350.63	4175400.50	236.34470	(07110617)
631350.63	4175500.50	269.61713	(05030401)	631350.63	4175600.50	320.51782	(06072903)
631350.63	4175700.50	266.69547	(06121423)	631350.63	4175800.50	237.16170	(08081602)
631350.63	4175900.50	199.50854	(04082001)	631350.63	4176000.50	166.44606	(07082502)
631350.63	4176100.50	140.68430	(04082205)	631450.63	4175100.50	152.89250	(06011109)
631450.63	4175200.50	189.14673	(04012317)	631450.63	4175300.50	288.13076	(05111717)
631450.63	4175400.50	325.72871	(07121517)	631450.63	4175500.50	345.56465	(06121422)
631450.63	4175600.50	523.66921	(06072903)	631450.63	4175700.50	375.27598	(06121423)
631450.63	4175800.50	290.27563	(06033021)	631450.63	4175900.50	358.44557	(04082001)
631450.63	4176000.50	174.53282	(04082205)	631450.63	4176100.50	152.02595	(04101820)
631550.63	4175100.50	155.44823	(04101605)	631550.63	4175200.50	200.97677	(08121017)
631550.63	4175300.50	145.55313	(05111717)	631550.63	4175400.50	212.90964	(05072102)
631550.63	4175500.50	277.32920	(07110617)	631550.63	4175600.50	488.13416	(06072903)
631550.63	4175700.50	289.52990	(06121423)	631550.63	4175800.50	212.00019	(04082001)
631550.63	4175900.50	152.87583	(07082502)	631550.63	4176000.50	275.02721	(04101820)
631550.63	4176100.50	156.46803	(07090905)	631650.63	4175100.50	161.81426	(06102817)
631650.63	4175200.50	243.29736	(06102817)	631650.63	4175300.50	119.53558	(04101605)
631650.63	4175400.50	143.15493	(05111717)	631650.63	4175500.50	219.24959	(06102818)
631650.63	4175600.50	454.13215	(04030118)	631650.63	4175700.50	216.01417	(06052002)
631650.63	4175800.50	122.26666	(04082001)	631650.63	4175900.50	107.09929	(04101820)
631650.63	4176000.50	243.20386	(07071003)	631650.63	4176100.50	156.69348	(05112506)
631750.63	4175100.50	140.82449	(08081805)	631750.63	4175200.50	205.33074	(08081805)
631750.63	4175300.50	76.66398	(06102817)	631750.63	4175400.50	85.22624	(04101605)
631750.63	4175500.50	174.30379	(07092306)	631750.63	4175600.50	849.19116	(05012118)
631750.63	4175700.50	161.03846	(07102905)	631750.63	4175800.50	73.14094	(07090905)
631750.63	4175900.50	73.74954	(04111519)	631750.63	4176000.50	217.02368	(07030418)
631750.63	4176100.50	155.18644	(07030418)	631850.63	4175100.50	159.59815	(04102617)
631850.63	4175200.50	187.57067	(04102617)	631850.63	4175300.50	189.52017	(05110722)
631850.63	4175400.50	257.30879	(05110722)	631850.63	4175500.50	285.28586	(07102905)
631850.63	4175600.50	1125.60242	(05012118)	631850.63	4175700.50	314.40995	(07092306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	256.68452	(05020318)	631850.63	4175900.50	262.17088	(04020106)
631850.63	4176000.50	183.47189	(05072006)	631850.63	4176100.50	152.77499	(05072006)
631950.63	4175100.50	150.94515	(05011817)	631950.63	4175200.50	181.52969	(05011817)
631950.63	4175300.50	303.24355	(08090903)	631950.63	4175400.50	260.11077	(05051824)
631950.63	4175500.50	543.95246	(06052002)	631950.63	4175600.50	699.77453	(08112619)
631950.63	4175700.50	476.25664	(05072806)	631950.63	4175800.50	440.19456	(06062806)
631950.63	4175900.50	260.87152	(06112624)	631950.63	4176000.50	177.21191	(06100919)
631950.63	4176100.50	150.80201	(06080603)	632050.63	4175100.50	138.09235	(08090903)
632050.63	4175200.50	174.34931	(08031018)	632050.63	4175300.50	202.36527	(04082919)
632050.63	4175400.50	264.88016	(07102905)	632050.63	4175500.50	353.97702	(06072803)
632050.63	4175600.50	414.11934	(04030118)	632050.63	4175700.50	376.56237	(06111908)
632050.63	4175800.50	267.05000	(07092306)	632050.63	4175900.50	223.13307	(06062806)
632050.63	4176000.50	178.41877	(06062806)	632050.63	4176100.50	155.35389	(08062724)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	154.26734	(08090903)	632304.44	4174354.52	90.33180	(08071406)
632192.15	4174956.32	160.54830	(06052001)	632420.62	4175510.15	193.08065	(07090902)
632418.97	4175552.92	219.53991	(05020803)	631187.00	4175727.00	186.60284	(05051724)
631166.00	4175729.00	180.77295	(05110401)	631121.00	4175719.00	175.84612	(05111617)
631035.00	4174830.00	106.33733	(05111717)	631106.00	4174825.00	105.94116	(05111717)
631937.00	4174528.00	109.55936	(04102617)	631322.00	4174522.00	86.97445	(05030118)
629800.63	4173850.44	13.95578	(07031618)	630150.63	4173850.44	19.23206	(04012317)
630500.63	4173850.44	26.13340	(06011109)	630850.63	4173850.44	54.06107	(06011109)
631200.63	4173850.44	52.62703	(06102817)	631550.63	4173850.44	49.18872	(06121420)
631900.63	4173850.44	46.48562	(05110722)	632250.63	4173850.44	53.90660	(05021804)
632600.63	4173850.44	51.22921	(06051924)	632950.63	4173850.44	58.42462	(08031018)
633300.63	4173850.44	51.91091	(04022018)	629800.63	4174200.44	22.30695	(07020624)
630150.63	4174200.44	31.18377	(08081806)	630500.63	4174200.44	53.58638	(04012317)
630850.63	4174200.44	59.79810	(06011109)	631200.63	4174200.44	64.02365	(05030118)
631550.63	4174200.44	71.47831	(08081805)	631900.63	4174200.44	74.70677	(04102617)
632250.63	4174200.44	83.84427	(05011817)	632600.63	4174200.44	77.55038	(08031018)
632950.63	4174200.44	71.62381	(05011317)	633300.63	4174200.44	59.44022	(05011417)
629800.63	4174550.44	36.02014	(05112423)	630150.63	4174550.44	53.06929	(06120217)
630500.63	4174550.44	60.53740	(05122619)	630850.63	4174550.44	81.29699	(04012317)
631200.63	4174550.44	102.34571	(06011109)	631550.63	4174550.44	93.44335	(07100818)
631900.63	4174550.44	107.67846	(04102617)	632250.63	4174550.44	95.57615	(08071406)
632600.63	4174550.44	95.89000	(08090905)	632950.63	4174550.44	87.02153	(05110817)

633300.63	4174550.44	64.87288	(05020802)	629800.63	4174900.44	45.46746	(06041224)
630150.63	4174900.44	54.24249	(07110617)	630500.63	4174900.44	77.72015	(06121217)
630850.63	4174900.44	103.76804	(05072102)	631200.63	4174900.44	115.68688	(04012317)
631550.63	4174900.44	134.54255	(06102817)	631900.63	4174900.44	143.51160	(04102617)
632250.63	4174900.44	148.64166	(05102618)	632600.63	4174900.44	133.86984	(05110817)
632950.63	4174900.44	93.29344	(06120617)	633300.63	4174900.44	78.01753	(05021801)
629800.63	4175250.44	47.96535	(06051906)	630150.63	4175250.44	72.61863	(06051906)
630500.63	4175250.44	93.95447	(06121422)	630850.63	4175250.44	127.86695	(04041821)
631200.63	4175250.44	173.73575	(07110617)	631550.63	4175250.44	289.45576	(05111717)
631900.63	4175250.44	369.74840	(05011817)	632250.63	4175250.44	236.49547	(06052002)
632600.63	4175250.44	180.24966	(04081304)	632950.63	4175250.44	116.70754	(06011618)
633300.63	4175250.44	78.50462	(06011618)	629800.63	4175600.44	63.53231	(05122618)
630150.63	4175600.44	86.33729	(05122618)	630500.63	4175600.44	107.02069	(05122618)
630850.63	4175600.44	160.05310	(05083119)	631200.63	4175600.44	214.08509	(05071702)
631550.63	4175600.44	254.40694	(06121423)	631900.63	4175600.44	304.91893	(06102818)
632250.63	4175600.44	281.89543	(08040222)	632600.63	4175600.44	166.53268	(05012118)
632950.63	4175600.44	109.85708	(07012318)	633300.63	4175600.44	77.50686	(07012318)
629800.63	4175950.44	57.97407	(06011024)	630150.63	4175950.44	80.26800	(06011217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	94.64335	(05111617)	630850.63	4175950.44	130.04929	(06033021)
631200.63	4175950.44	152.78614	(04082001)	631550.63	4175950.44	271.87746	(07090904)
631900.63	4175950.44	186.83423	(08112520)	632250.63	4175950.44	142.20619	(06110304)
632600.63	4175950.44	121.59629	(05072806)	632950.63	4175950.44	104.13076	(06111908)
633300.63	4175950.44	66.22537	(05122401)	629800.63	4176300.44	57.38642	(07120622)
630150.63	4176300.44	60.15479	(05110619)	630500.63	4176300.44	84.16077	(06122121)
630850.63	4176300.44	99.53355	(07080103)	631200.63	4176300.44	114.94868	(04101820)
631550.63	4176300.44	117.87654	(07071003)	631900.63	4176300.44	110.72577	(05072006)
632250.63	4176300.44	101.84670	(08091905)	632600.63	4176300.44	87.12082	(06110304)
632950.63	4176300.44	69.43601	(07031619)	633300.63	4176300.44	57.92317	(05020806)
629800.63	4176650.44	51.17657	(06122121)	630150.63	4176650.44	65.71924	(04021520)
630500.63	4176650.44	73.12721	(04021521)	630850.63	4176650.44	76.93367	(05112504)
631200.63	4176650.44	85.54231	(07090905)	631550.63	4176650.44	87.66438	(07102902)
631900.63	4176650.44	83.35910	(04111519)	632250.63	4176650.44	77.31849	(05082502)
632600.63	4176650.44	79.58012	(06062806)	632950.63	4176650.44	57.39570	(05021219)
633300.63	4176650.44	52.24222	(08021808)	629800.63	4177000.44	40.62102	(04021520)
630150.63	4177000.44	51.55300	(04021521)	630500.63	4177000.44	58.88957	(04120903)
630850.63	4177000.44	66.19033	(07122917)	631200.63	4177000.44	78.70384	(08091907)
631550.63	4177000.44	67.12957	(07080306)	631900.63	4177000.44	62.94665	(08122723)
632250.63	4177000.44	58.42033	(04021506)	632600.63	4177000.44	53.68517	(06120218)
632950.63	4177000.44	65.01975	(06062806)	633300.63	4177000.44	43.38859	(08021908)

629800.63	4177350.44	35.45892	(04021521)	630150.63	4177350.44	45.38032	(04120903)
630500.63	4177350.44	46.22437	(07012719)	630850.63	4177350.44	53.74474	(07021218)
631200.63	4177350.44	54.06411	(08091907)	631550.63	4177350.44	54.57008	(06020124)
631900.63	4177350.44	52.28374	(08122723)	632250.63	4177350.44	49.44149	(05021719)
632600.63	4177350.44	45.86444	(05022620)	632950.63	4177350.44	41.59480	(06010521)
633300.63	4177350.44	46.01475	(06062806)	631670.70	4175493.59	448.23878	(04030118)
631669.80	4175641.41	221.10653	(08090519)	631665.32	4175796.39	113.51468	(07090905)
631417.17	4175826.85	233.03306	(04082001)	631417.17	4175673.66	302.00147	(08081602)
631422.55	4175484.63	372.26185	(06041223)	631268.42	4175983.74	156.03633	(07082502)
631275.69	4175523.99	271.31679	(06072903)	631345.65	4175419.50	259.62367	(06092418)
631384.72	4175441.30	287.24060	(06092418)	631491.93	4175442.21	484.27296	(06072903)
631491.93	4175414.95	419.78724	(05030402)	631385.63	4175413.14	275.78195	(05030401)
631358.37	4175395.87	250.84758	(05030401)	631409.25	4175336.81	250.08736	(07110617)
631567.35	4175235.96	273.83237	(04012317)	631756.33	4175028.80	143.94269	(07030618)
631807.22	4175003.36	150.32743	(05110722)	631867.18	4174987.91	162.77058	(04102617)
631849.92	4175988.28	160.51219	(05072006)	631268.74	4175963.75	158.73449	(07082502)
631269.05	4175943.76	160.78086	(07080103)	631269.37	4175923.77	164.85957	(07080103)
631269.68	4175903.78	169.43098	(04082001)	631270.00	4175883.79	177.40871	(04082001)
631270.32	4175863.81	181.72269	(04082001)	631270.63	4175843.82	181.95321	(04082001)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	181.09694	(07102702)	631271.26	4175803.84	190.03976	(07102702)
631271.58	4175783.85	194.06755	(07102702)	631271.90	4175763.86	201.39861	(06033021)
631272.21	4175743.87	207.49973	(08081602)	631272.53	4175723.88	214.54045	(08081602)
631272.85	4175703.89	216.75928	(05072902)	631273.16	4175683.90	219.88976	(05111617)
631273.48	4175663.91	224.06148	(05111617)	631273.79	4175643.92	227.57186	(06011217)
631274.11	4175623.94	232.36932	(06121423)	631274.43	4175603.95	238.77773	(06041503)
631274.74	4175583.96	243.97308	(05071702)	631275.06	4175563.97	245.08459	(05071702)
631275.37	4175543.98	252.51282	(06072903)	631285.68	4175509.06	280.52674	(06072903)
631295.68	4175494.14	280.78130	(06072903)	631305.67	4175479.21	286.08720	(06041223)
631315.67	4175464.28	283.52359	(06041223)	631325.66	4175449.35	271.18872	(06041223)
631335.66	4175434.43	256.94184	(07110902)	631358.67	4175426.77	268.67899	(06092418)
631371.70	4175434.03	277.83506	(06092418)	631402.59	4175441.45	301.66102	(06092418)
631420.46	4175441.60	345.19798	(04041821)	631438.33	4175441.76	453.84120	(06092418)
631456.19	4175441.91	570.19409	(06092418)	631474.06	4175442.06	574.06228	(06041223)
631491.93	4175428.58	494.95945	(06041223)	631474.21	4175414.65	517.01908	(06092418)
631456.50	4175414.35	514.49104	(06092418)	631438.78	4175414.05	417.19036	(04041821)
631421.06	4175413.74	328.49859	(04041821)	631403.35	4175413.44	286.01055	(05030401)
631372.00	4175404.51	263.41923	(05030401)	631371.09	4175381.11	238.89560	(06121422)
631383.81	4175366.34	238.52259	(07110617)	631396.53	4175351.58	249.53105	(07110617)
631425.06	4175326.73	245.62449	(07110617)	631440.87	4175316.64	253.41772	(05030319)

631456.68	4175306.56	298.65486	(06051905)	631472.49	4175296.47	328.28613	(05072102)
631488.30	4175286.39	330.22620	(05072102)	631504.11	4175276.30	314.86442	(05072102)
631519.92	4175266.22	291.37348	(05111717)	631535.73	4175256.13	296.11344	(05111717)
631551.54	4175246.05	284.62545	(05111717)	631579.95	4175222.15	263.58892	(04012317)
631592.55	4175208.34	257.60348	(08121017)	631605.15	4175194.53	246.19154	(06011109)
631617.74	4175180.72	229.80944	(04101605)	631630.34	4175166.91	212.44194	(04101605)
631642.94	4175153.10	190.29144	(06102817)	631655.54	4175139.29	192.41949	(06102817)
631668.14	4175125.47	188.32244	(06102817)	631680.74	4175111.66	178.97938	(06102817)
631693.34	4175097.85	170.74029	(07100818)	631705.94	4175084.04	166.60814	(08081805)
631718.53	4175070.23	164.45029	(08081805)	631731.13	4175056.42	158.79015	(08081805)
631743.73	4175042.61	150.22072	(08081805)	631773.29	4175020.32	149.58405	(07030618)
631790.26	4175011.84	151.29129	(07030618)	631822.21	4174999.50	149.60776	(05110722)
631837.20	4174995.64	157.03786	(04102617)	631852.19	4174991.77	161.54361	(04102617)
631866.84	4175007.53	167.07945	(04102617)	631866.50	4175027.14	171.70794	(04102617)
631866.16	4175046.76	176.62298	(04102617)	631865.83	4175066.37	181.54062	(04102617)
631865.49	4175085.99	186.55571	(04102617)	631865.15	4175105.60	191.65577	(04102617)
631864.81	4175125.22	196.90616	(04102617)	631864.47	4175144.83	202.32173	(04102617)
631864.13	4175164.45	207.95149	(04102617)	631863.80	4175184.06	216.84584	(08102618)
631863.46	4175203.68	229.47307	(08102618)	631863.12	4175223.29	261.68386	(04102617)
631862.78	4175242.91	379.45769	(08102618)	631862.44	4175262.52	388.65887	(08102618)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	397.26567	(08102618)	631861.77	4175301.75	244.93398	(06052001)
631861.43	4175321.37	283.53596	(06052001)	631861.09	4175340.98	315.50313	(06052001)
631860.75	4175360.60	336.59058	(06052001)	631860.41	4175380.21	371.32598	(05051824)
631860.07	4175399.83	414.70898	(08090519)	631859.73	4175419.44	495.93297	(07102905)
631859.40	4175439.06	659.08975	(06052002)	631859.06	4175458.67	836.60609	(06052002)
631858.72	4175478.29	1141.29311	(04101518)	631858.38	4175497.90	1184.65671	(04030118)
631858.04	4175517.52	948.16867	(07102907)	631857.70	4175537.13	788.81630	(08010919)
631857.37	4175556.75	492.40793	(08010919)	631857.03	4175576.36	325.81260	(06021018)
631856.69	4175595.98	361.83307	(08091906)	631856.35	4175615.59	374.64614	(07080305)
631856.01	4175635.21	353.98493	(08112318)	631855.67	4175654.82	356.06447	(08112318)
631855.33	4175674.44	334.95267	(04111519)	631855.00	4175694.05	293.64203	(05020318)
631854.66	4175713.67	282.14901	(05020318)	631854.32	4175733.28	269.23766	(05020318)
631853.98	4175752.90	255.75843	(05020318)	631853.64	4175772.51	242.35548	(05020318)
631853.30	4175792.13	229.32329	(05020318)	631852.97	4175811.74	216.86497	(05020318)
631852.63	4175831.36	205.05361	(05020318)	631852.29	4175850.97	207.40161	(05020318)
631851.95	4175870.59	197.65627	(05020318)	631851.61	4175890.20	194.17695	(04020106)
631851.27	4175909.82	184.05209	(04020106)	631850.94	4175929.43	203.41276	(05072006)
631850.60	4175949.05	198.38425	(05072006)	631850.26	4175968.66	191.01829	(05072006)
631830.54	4175988.13	162.77099	(05020318)	631811.15	4175987.98	169.61103	(06052305)

631791.77	4175987.83	178.65682	(07030418)	631772.39	4175987.67	198.11094	(07030418)
631753.00	4175987.52	212.21742	(07030418)	631733.62	4175987.37	219.64458	(07030418)
631714.24	4175987.22	219.77310	(07030418)	631694.85	4175987.07	242.13311	(05112506)
631675.47	4175986.92	250.64398	(05112506)	631656.09	4175986.77	249.20410	(07071003)
631636.70	4175986.62	253.12855	(07071003)	631617.32	4175986.46	252.50579	(08091907)
631597.94	4175986.31	268.05402	(07090905)	631578.55	4175986.16	252.37800	(06110119)
631559.17	4175986.01	248.05589	(06110119)	631539.79	4175985.86	266.54795	(04083005)
631520.40	4175985.71	279.84127	(04083005)	631501.02	4175985.56	259.98078	(04083005)
631481.64	4175985.40	203.34121	(04083005)	631462.25	4175985.25	181.38144	(04101820)
631442.87	4175985.10	178.64159	(04101820)	631423.49	4175984.95	172.58925	(04101820)
631404.10	4175984.80	170.22375	(05112504)	631384.72	4175984.65	168.00833	(04082205)
631365.34	4175984.50	164.48299	(04082205)	631345.95	4175984.35	158.41034	(04082205)
631326.57	4175984.19	155.93893	(04110906)	631307.19	4175984.04	155.72057	(07082502)
631287.80	4175983.89	156.93964	(07082502)	631050.63	4175100.50	129.39112	(05030319)
631050.63	4175200.50	154.65501	(07110617)	631050.63	4175300.50	154.18928	(04041821)
631050.63	4175400.50	179.58261	(07110902)	631050.63	4175500.50	209.67628	(06072903)
631050.63	4175600.50	186.70837	(05071702)	631050.63	4175700.50	171.18081	(06121423)
631050.63	4175800.50	162.41326	(05072902)	631050.63	4175900.50	144.51345	(06080604)
631050.63	4176000.50	138.72774	(04082001)	631050.63	4176100.50	126.58734	(07080103)
631150.63	4175100.50	141.31217	(05072102)	631150.63	4175200.50	151.36345	(07110617)
631150.63	4175300.50	162.47903	(04041821)	631150.63	4175400.50	196.17224	(07110902)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	233.43542	(06072903)	631150.63	4175600.50	201.82028	(05071702)
631150.63	4175700.50	185.25529	(06011217)	631150.63	4175800.50	171.22904	(06033021)
631150.63	4175900.50	147.71413	(07120623)	631150.63	4176000.50	140.46772	(04082001)
631150.63	4176100.50	132.97609	(07082502)	631250.63	4175100.50	143.34395	(05072102)
631250.63	4175200.50	156.76738	(04041823)	631250.63	4175300.50	190.58511	(07110617)
631250.63	4175400.50	219.51503	(05030401)	631250.63	4175500.50	262.41445	(06072903)
631250.63	4175600.50	230.91811	(06041503)	631250.63	4175700.50	206.97819	(05051724)
631250.63	4175800.50	185.95799	(07102702)	631250.63	4175900.50	170.54550	(04082001)
631250.63	4176000.50	151.16655	(07082502)	631250.63	4176100.50	131.55672	(04082205)
631350.63	4175100.50	153.10034	(05111717)	631350.63	4175200.50	179.99596	(05072102)
631350.63	4175300.50	212.25248	(07110617)	631350.63	4175400.50	252.29948	(05030401)
631350.63	4175500.50	316.36213	(06072903)	631350.63	4175600.50	405.40099	(05111617)
631350.63	4175700.50	253.93809	(08081602)	631350.63	4175800.50	221.05141	(05081503)
631350.63	4175900.50	188.13930	(07082502)	631350.63	4176000.50	158.86114	(04082205)
631350.63	4176100.50	141.46963	(04101820)	631450.63	4175100.50	166.12501	(04012317)
631450.63	4175200.50	189.49877	(05111717)	631450.63	4175300.50	258.49375	(06051905)
631450.63	4175400.50	430.27357	(05030401)	631450.63	4175500.50	511.43312	(06072903)
631450.63	4175600.50	346.15340	(06121423)	631450.63	4175700.50	276.88587	(06033021)

631450.63	4175800.50	236.65161	(04082001)	631450.63	4175900.50	236.76580	(07080103)
631450.63	4176000.50	174.01393	(04101820)	631450.63	4176100.50	143.68846	(04083005)
631550.63	4175100.50	173.01922	(06011109)	631550.63	4175200.50	229.71873	(04012317)
631550.63	4175300.50	143.92888	(05072102)	631550.63	4175400.50	244.38416	(06121422)
631550.63	4175500.50	461.26138	(06072903)	631550.63	4175600.50	254.32181	(06121423)
631550.63	4175700.50	199.18573	(04082001)	631550.63	4175800.50	163.03420	(07082502)
631550.63	4175900.50	170.03235	(04101820)	631550.63	4176000.50	281.61040	(07090905)
631550.63	4176100.50	151.95304	(08091907)	631650.63	4175100.50	181.06814	(06102817)
631650.63	4175200.50	245.09808	(04101605)	631650.63	4175300.50	101.85048	(05111717)
631650.63	4175400.50	160.75478	(07110617)	631650.63	4175500.50	484.19144	(04030118)
631650.63	4175600.50	308.24398	(06052002)	631650.63	4175700.50	146.29527	(04082919)
631650.63	4175800.50	119.71094	(04101820)	631650.63	4175900.50	119.10461	(07090905)
631650.63	4176000.50	247.74087	(05112506)	631650.63	4176100.50	151.79310	(05112506)
631750.63	4175100.50	165.58239	(08081805)	631750.63	4175200.50	232.68776	(08081805)
631750.63	4175300.50	90.08173	(04102623)	631750.63	4175400.50	114.88909	(06052001)
631750.63	4175500.50	922.12266	(04030118)	631750.63	4175600.50	233.89016	(08090519)
631750.63	4175700.50	84.96269	(06052001)	631750.63	4175800.50	78.83902	(05112506)
631750.63	4175900.50	78.71157	(05112506)	631750.63	4176000.50	209.50478	(07030418)
631750.63	4176100.50	146.23048	(07030418)	631850.63	4175100.50	192.34035	(04102617)
631850.63	4175200.50	227.76104	(04102617)	631850.63	4175300.50	215.95789	(05110722)
631850.63	4175400.50	388.85040	(08090519)	631850.63	4175500.50	1164.87985	(04030118)
631850.63	4175600.50	359.34648	(08112318)	631850.63	4175700.50	305.13187	(05020318)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	227.05885	(05020318)	631850.63	4175900.50	187.84533	(04020106)
631850.63	4176000.50	156.94054	(05072006)	631850.63	4176100.50	135.71443	(04111519)
631950.63	4175100.50	192.38241	(05011817)	631950.63	4175200.50	225.06943	(08090903)
631950.63	4175300.50	482.74707	(08031018)	631950.63	4175400.50	563.07002	(07102905)
631950.63	4175500.50	635.17754	(04030118)	631950.63	4175600.50	624.59005	(06102818)
631950.63	4175700.50	167.21755	(07102901)	631950.63	4175800.50	225.88706	(08040220)
631950.63	4175900.50	211.32412	(05082502)	631950.63	4176000.50	151.45661	(06080603)
631950.63	4176100.50	129.48240	(08112520)	632050.63	4175100.50	192.95472	(04082919)
632050.63	4175200.50	240.81453	(04082919)	632050.63	4175300.50	284.07435	(07102905)
632050.63	4175400.50	433.66011	(06072803)	632050.63	4175500.50	414.13705	(04030118)
632050.63	4175600.50	334.93959	(06111908)	632050.63	4175700.50	247.09174	(07020318)
632050.63	4175800.50	216.86145	(08103007)	632050.63	4175900.50	164.30955	(08102318)
632050.63	4176000.50	144.46444	(06081406)	632050.63	4176100.50	126.22019	(05082502)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	241.44240	(04082919)	632304.44	4174354.52	98.86480	(06051924)
632192.15	4174956.32	229.77767	(05011317)	632420.62	4175510.15	167.16670	(07102907)
632418.97	4175552.92	160.84266	(08040222)	631187.00	4175727.00	169.38434	(06080604)
631166.00	4175729.00	164.68990	(06080604)	631121.00	4175719.00	160.56842	(06033021)
631035.00	4174830.00	100.24722	(08081806)	631106.00	4174825.00	103.76101	(04041824)
631937.00	4174528.00	128.81984	(04102617)	631322.00	4174522.00	90.27900	(06011109)
629800.63	4173850.44	13.32277	(07031618)	630150.63	4173850.44	15.71209	(04012317)
630500.63	4173850.44	29.02876	(04012317)	630850.63	4173850.44	56.00709	(06011109)
631200.63	4173850.44	52.50580	(06102817)	631550.63	4173850.44	52.42653	(08081805)
631900.63	4173850.44	49.31266	(05110722)	632250.63	4173850.44	67.61111	(05021804)
632600.63	4173850.44	65.13290	(04122822)	632950.63	4173850.44	66.63492	(05011521)
633300.63	4173850.44	58.76388	(06122122)	629800.63	4174200.44	21.68966	(06120217)
630150.63	4174200.44	29.40809	(08081806)	630500.63	4174200.44	46.40722	(06120517)
630850.63	4174200.44	57.59406	(04012317)	631200.63	4174200.44	64.83679	(05030118)
631550.63	4174200.44	74.62670	(08081805)	631900.63	4174200.44	83.34004	(04102617)
632250.63	4174200.44	118.11877	(05011817)	632600.63	4174200.44	113.94872	(08031018)
632950.63	4174200.44	89.86927	(05011317)	633300.63	4174200.44	65.72877	(05110817)
629800.63	4174550.44	35.42679	(06121217)	630150.63	4174550.44	47.63234	(04022118)
630500.63	4174550.44	63.97193	(07020624)	630850.63	4174550.44	76.27748	(06120517)
631200.63	4174550.44	96.37352	(06011109)	631550.63	4174550.44	99.14901	(07100818)
631900.63	4174550.44	127.25780	(04102617)	632250.63	4174550.44	132.75689	(08090903)
632600.63	4174550.44	140.63788	(05011317)	632950.63	4174550.44	102.88803	(06011617)
633300.63	4174550.44	77.17019	(06121106)	629800.63	4174900.44	45.87345	(04022207)
630150.63	4174900.44	56.67840	(06041224)	630500.63	4174900.44	76.53337	(07110617)
630850.63	4174900.44	94.77360	(04022118)	631200.63	4174900.44	115.62469	(04041824)
631550.63	4174900.44	138.25543	(05030118)	631900.63	4174900.44	224.11992	(08102618)
632250.63	4174900.44	215.68087	(05011317)	632600.63	4174900.44	150.74810	(08022004)
632950.63	4174900.44	111.78097	(05021801)	633300.63	4174900.44	90.01297	(07010217)
629800.63	4175250.44	54.75297	(04121304)	630150.63	4175250.44	73.76399	(04121304)
630500.63	4175250.44	89.73157	(06072904)	630850.63	4175250.44	126.73442	(07110902)
631200.63	4175250.44	164.28658	(06121422)	631550.63	4175250.44	273.18756	(05072102)
631900.63	4175250.44	574.75631	(08031018)	632250.63	4175250.44	281.12294	(04081304)
632600.63	4175250.44	147.88169	(06011618)	632950.63	4175250.44	108.10205	(05122223)
633300.63	4175250.44	76.88133	(05121217)	629800.63	4175600.44	48.20410	(04101604)
630150.63	4175600.44	74.69949	(07042002)	630500.63	4175600.44	105.11913	(07042002)
630850.63	4175600.44	139.34185	(06072906)	631200.63	4175600.44	191.72579	(05111617)
631550.63	4175600.44	299.27484	(05110817)	631900.63	4175600.44	283.40544	(04020106)
632250.63	4175600.44	174.73756	(06111908)	632600.63	4175600.44	121.52741	(08010919)
632950.63	4175600.44	85.57982	(06121320)	633300.63	4175600.44	65.75405	(07012418)
629800.63	4175950.44	56.96478	(06011217)	630150.63	4175950.44	73.68551	(04041820)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/13/23

*** AERMET - VERSION 18081 *** *** *** 15:02:10

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	99.08661	(07120622)	630850.63	4175950.44	116.16641	(07102702)
631200.63	4175950.44	144.64923	(07082502)	631550.63	4175950.44	198.12211	(07090904)
631900.63	4175950.44	207.18069	(07091007)	632250.63	4175950.44	126.39169	(06062806)
632600.63	4175950.44	97.29974	(07092306)	632950.63	4175950.44	70.78872	(05011418)
633300.63	4175950.44	57.63198	(06121503)	629800.63	4176300.44	55.35310	(07120622)
630150.63	4176300.44	67.59950	(05030120)	630500.63	4176300.44	87.03157	(04021520)
630850.63	4176300.44	97.24413	(05051803)	631200.63	4176300.44	111.40196	(07090904)
631550.63	4176300.44	117.08260	(05112506)	631900.63	4176300.44	108.28573	(07091007)
632250.63	4176300.44	93.65257	(06081406)	632600.63	4176300.44	81.44568	(06062806)
632950.63	4176300.44	64.27445	(06052306)	633300.63	4176300.44	53.35436	(05011818)
629800.63	4176650.44	50.50022	(06122121)	630150.63	4176650.44	54.33636	(05110620)
630500.63	4176650.44	68.60070	(04021018)	630850.63	4176650.44	83.11158	(04120908)
631200.63	4176650.44	87.07252	(07090905)	631550.63	4176650.44	87.35483	(07080306)
631900.63	4176650.44	79.63033	(04111519)	632250.63	4176650.44	74.16151	(07091007)
632600.63	4176650.44	61.78468	(05111721)	632950.63	4176650.44	53.74806	(05010604)
633300.63	4176650.44	46.38631	(07021220)	629800.63	4177000.44	38.68277	(04021521)
630150.63	4177000.44	48.59658	(04010518)	630500.63	4177000.44	60.04755	(04121223)
630850.63	4177000.44	66.30944	(07122917)	631200.63	4177000.44	79.54419	(08091907)
631550.63	4177000.44	69.87963	(06021703)	631900.63	4177000.44	66.63259	(08122723)
632250.63	4177000.44	59.08608	(05021302)	632600.63	4177000.44	53.32837	(06010520)
632950.63	4177000.44	56.69405	(06062806)	633300.63	4177000.44	40.26403	(05010604)
629800.63	4177350.44	35.80020	(04010518)	630150.63	4177350.44	40.65030	(04120903)
630500.63	4177350.44	49.93149	(07012719)	630850.63	4177350.44	56.54205	(04022021)
631200.63	4177350.44	54.22320	(06033022)	631550.63	4177350.44	56.70639	(06020124)
631900.63	4177350.44	54.20371	(08122723)	632250.63	4177350.44	49.50429	(05021719)
632600.63	4177350.44	45.43732	(05021722)	632950.63	4177350.44	40.39127	(07010323)
633300.63	4177350.44	44.00078	(06062806)	631670.70	4175493.59	527.67458	(04042519)
631669.80	4175641.41	287.61619	(08090903)	631665.32	4175796.39	109.94158	(05011817)
631417.17	4175826.85	190.58166	(04082205)	631417.17	4175673.66	186.65458	(04082001)
631422.55	4175484.63	426.03279	(06121423)	631268.42	4175983.74	146.50157	(04082205)
631275.69	4175523.99	219.47894	(06011217)	631345.65	4175419.50	283.27327	(06072903)
631384.72	4175441.30	409.92889	(05071702)	631491.93	4175442.21	508.09494	(05083119)
631491.93	4175414.95	573.65374	(06072903)	631385.63	4175413.14	369.41368	(05030320)
631358.37	4175395.87	290.05127	(06072903)	631409.25	4175336.81	260.21863	(06041223)
631567.35	4175235.96	273.75071	(05072102)	631756.33	4175028.80	174.38774	(08081805)
631807.22	4175003.36	182.62936	(05110722)	631867.18	4174987.91	240.66299	(08102618)
631849.92	4175988.28	162.26547	(07091007)	631268.74	4175963.75	148.08778	(04110906)
631269.05	4175943.76	151.99582	(04110906)	631269.37	4175923.77	153.99914	(04110906)
631269.68	4175903.78	158.66815	(07082502)	631270.00	4175883.79	164.70046	(07082502)
631270.32	4175863.81	168.24164	(07082502)	631270.63	4175843.82	170.70822	(07080103)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	176.02283	(07080103)	631271.26	4175803.84	178.18419	(07080103)
631271.58	4175783.85	184.73589	(05081503)	631271.90	4175763.86	187.99181	(05081503)
631272.21	4175743.87	187.43824	(05081503)	631272.53	4175723.88	247.08475	(05081503)
631272.85	4175703.89	266.09972	(05081503)	631273.16	4175683.90	237.49225	(05081503)
631273.48	4175663.91	206.47995	(05081503)	631273.79	4175643.92	216.75104	(05061703)
631274.11	4175623.94	257.12942	(05061703)	631274.43	4175603.95	271.69711	(05061703)
631274.74	4175583.96	237.02222	(05061703)	631275.06	4175563.97	220.83106	(05111617)
631275.37	4175543.98	223.47424	(06011217)	631285.68	4175509.06	225.62748	(06041503)
631295.68	4175494.14	250.07306	(06011217)	631305.67	4175479.21	282.07224	(06011217)
631315.67	4175464.28	260.94792	(06011217)	631325.66	4175449.35	255.60178	(05083119)
631335.66	4175434.43	266.70441	(06072903)	631358.67	4175426.77	285.25088	(06072903)
631371.70	4175434.03	355.02258	(05030320)	631402.59	4175441.45	426.20107	(05071702)
631420.46	4175441.60	440.72381	(05071702)	631438.33	4175441.76	315.36366	(05083119)
631456.19	4175441.91	416.50325	(06072903)	631474.06	4175442.06	503.24602	(05083119)
631491.93	4175428.58	548.20581	(06072903)	631474.21	4175414.65	560.91542	(06072903)
631456.50	4175414.35	476.02465	(06072903)	631438.78	4175414.05	351.80387	(06072903)
631421.06	4175413.74	408.46444	(05030320)	631403.35	4175413.44	389.25845	(05030320)
631372.00	4175404.51	334.50647	(05030320)	631371.09	4175381.11	295.73639	(06041223)
631383.81	4175366.34	294.62817	(06041223)	631396.53	4175351.58	282.56639	(06041223)
631425.06	4175326.73	260.53448	(05030401)	631440.87	4175316.64	261.41191	(05030401)
631456.68	4175306.56	274.51008	(05030401)	631472.49	4175296.47	304.57163	(06121422)
631488.30	4175286.39	304.53038	(07110617)	631504.11	4175276.30	305.17989	(07110617)
631519.92	4175266.22	295.79239	(07110617)	631535.73	4175256.13	278.01052	(07110617)
631551.54	4175246.05	272.95660	(05072102)	631579.95	4175222.15	258.90906	(05072102)
631592.55	4175208.34	252.92407	(05111717)	631605.15	4175194.53	246.38532	(04012317)
631617.74	4175180.72	239.58171	(04012317)	631630.34	4175166.91	231.31252	(08121017)
631642.94	4175153.10	219.72029	(06011109)	631655.54	4175139.29	208.14475	(06011109)
631668.14	4175125.47	208.11610	(06102817)	631680.74	4175111.66	212.76408	(06102817)
631693.34	4175097.85	208.81776	(06102817)	631705.94	4175084.04	199.45672	(07100818)
631718.53	4175070.23	195.59962	(07100818)	631731.13	4175056.42	191.46042	(08081805)
631743.73	4175042.61	185.20112	(08081805)	631773.29	4175020.32	181.09866	(07030618)
631790.26	4175011.84	184.54248	(07030618)	631822.21	4174999.50	193.41390	(04102617)
631837.20	4174995.64	203.75594	(04102617)	631852.19	4174991.77	218.78553	(08102618)
631866.84	4175007.53	253.82939	(08102618)	631866.50	4175027.14	267.80378	(08102618)
631866.16	4175046.76	282.38191	(08102618)	631865.83	4175066.37	296.56452	(08102618)
631865.49	4175085.99	310.40650	(08102618)	631865.15	4175105.60	323.67182	(08102618)
631864.81	4175125.22	336.23852	(08102618)	631864.47	4175144.83	347.77115	(08102618)
631864.13	4175164.45	359.79850	(08102618)	631863.80	4175184.06	389.84599	(05011817)
631863.46	4175203.68	420.51781	(05011817)	631863.12	4175223.29	527.06708	(05011817)
631862.78	4175242.91	801.28823	(05011817)	631862.44	4175262.52	800.65775	(08071406)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	739.49092	(05051824)	631861.77	4175301.75	744.95986	(06052001)
631861.43	4175321.37	927.56443	(07102905)	631861.09	4175340.98	1055.95357	(08021718)
631860.75	4175360.60	1141.59123	(06052002)	631860.41	4175380.21	1256.60942	(05071701)
631860.07	4175399.83	718.32589	(04030118)	631859.73	4175419.44	316.16125	(04042519)
631859.40	4175439.06	196.14768	(08010919)	631859.06	4175458.67	164.19857	(04020106)
631858.72	4175478.29	271.93036	(06021018)	631858.38	4175497.90	390.66138	(06021018)
631858.04	4175517.52	449.75644	(08112520)	631857.70	4175537.13	476.48026	(08112520)
631857.37	4175556.75	477.71294	(08112520)	631857.03	4175576.36	438.84206	(08091906)
631856.69	4175595.98	423.21965	(05072006)	631856.35	4175615.59	389.65308	(07080305)
631856.01	4175635.21	349.21216	(08112318)	631855.67	4175654.82	333.76718	(08112318)
631855.33	4175674.44	317.89954	(08112318)	631855.00	4175694.05	302.17213	(08112318)
631854.66	4175713.67	278.33920	(04111519)	631854.32	4175733.28	264.91233	(04111519)
631853.98	4175752.90	234.56930	(05020318)	631853.64	4175772.51	222.52066	(05020318)
631853.30	4175792.13	223.42460	(05020318)	631852.97	4175811.74	213.38661	(05020318)
631852.63	4175831.36	203.97796	(05020318)	631852.29	4175850.97	195.19764	(05020318)
631851.95	4175870.59	186.94725	(05020318)	631851.61	4175890.20	221.49250	(07091007)
631851.27	4175909.82	213.57394	(07091007)	631850.94	4175929.43	206.16069	(07091007)
631850.60	4175949.05	191.56424	(07091007)	631850.26	4175968.66	169.12332	(07091007)
631830.54	4175988.13	154.38325	(05020318)	631811.15	4175987.98	161.86865	(06052305)
631791.77	4175987.83	172.19014	(07030418)	631772.39	4175987.67	192.38020	(07030418)
631753.00	4175987.52	208.09957	(07030418)	631733.62	4175987.37	217.95476	(07030418)
631714.24	4175987.22	221.13175	(07030418)	631694.85	4175987.07	220.22981	(05112506)
631675.47	4175986.92	238.13779	(05112506)	631656.09	4175986.77	230.31703	(07071003)
631636.70	4175986.62	246.41210	(07071003)	631617.32	4175986.46	235.84707	(08091907)
631597.94	4175986.31	248.26791	(08091907)	631578.55	4175986.16	254.71463	(08091907)
631559.17	4175986.01	250.43801	(06110119)	631539.79	4175985.86	255.87280	(06110119)
631520.40	4175985.71	241.91753	(06110119)	631501.02	4175985.56	232.74911	(04083005)
631481.64	4175985.40	202.20740	(07090905)	631462.25	4175985.25	170.51861	(04083005)
631442.87	4175985.10	170.98472	(04083005)	631423.49	4175984.95	167.98573	(04083005)
631404.10	4175984.80	164.46965	(05081406)	631384.72	4175984.65	163.21518	(04101820)
631365.34	4175984.50	160.85346	(04101820)	631345.95	4175984.35	155.63465	(04101820)
631326.57	4175984.19	154.13914	(05112504)	631307.19	4175984.04	151.77452	(04082205)
631287.80	4175983.89	150.26782	(04082205)	631050.63	4175100.50	135.52838	(07110617)
631050.63	4175200.50	135.38096	(04041821)	631050.63	4175300.50	158.63576	(07110902)
631050.63	4175400.50	191.17751	(06072903)	631050.63	4175500.50	175.24150	(05071702)
631050.63	4175600.50	161.54180	(06011217)	631050.63	4175700.50	154.94790	(05072902)
631050.63	4175800.50	141.78786	(06080604)	631050.63	4175900.50	136.49687	(04082001)
631050.63	4176000.50	128.40747	(07080103)	631050.63	4176100.50	121.06753	(07082502)
631150.63	4175100.50	134.67245	(07110617)	631150.63	4175200.50	143.69641	(04041821)
631150.63	4175300.50	174.24834	(07110902)	631150.63	4175400.50	213.45819	(06072903)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	191.76557	(05071702)	631150.63	4175600.50	180.65180	(06011217)
631150.63	4175700.50	167.51021	(06033021)	631150.63	4175800.50	148.55826	(07120623)
631150.63	4175900.50	142.47901	(07080103)	631150.63	4176000.50	134.58097	(07082502)
631150.63	4176100.50	122.53816	(04082205)	631250.63	4175100.50	140.15525	(04041823)
631250.63	4175200.50	166.26349	(07110617)	631250.63	4175300.50	192.88910	(05030401)
631250.63	4175400.50	240.72056	(06072903)	631250.63	4175500.50	217.42114	(06041503)
631250.63	4175600.50	202.36969	(05111617)	631250.63	4175700.50	189.48548	(07102702)
631250.63	4175800.50	175.54011	(05081503)	631250.63	4175900.50	158.74162	(07082502)
631250.63	4176000.50	141.62918	(04082205)	631250.63	4176100.50	128.41965	(05112504)
631350.63	4175100.50	157.88032	(05072102)	631350.63	4175200.50	183.23222	(07110617)
631350.63	4175300.50	219.37828	(05030401)	631350.63	4175400.50	287.60643	(06072903)
631350.63	4175500.50	351.02802	(06011217)	631350.63	4175600.50	371.38819	(08081602)
631350.63	4175700.50	348.10400	(04082001)	631350.63	4175800.50	285.89607	(05051803)
631350.63	4175900.50	178.96371	(04082205)	631350.63	4176000.50	155.38213	(04101820)
631350.63	4176100.50	136.87698	(04083005)	631450.63	4175100.50	166.77687	(05111717)
631450.63	4175200.50	194.75870	(06051905)	631450.63	4175300.50	245.04964	(05030401)
631450.63	4175400.50	419.68179	(06072903)	631450.63	4175500.50	208.05425	(06121423)
631450.63	4175600.50	171.54710	(06033021)	631450.63	4175700.50	171.11971	(07082502)
631450.63	4175800.50	179.02131	(04082205)	631450.63	4175900.50	190.86505	(04101820)
631450.63	4176000.50	164.21077	(04083005)	631450.63	4176100.50	144.90198	(07090905)
631550.63	4175100.50	183.33176	(04012317)	631550.63	4175200.50	237.95796	(05072102)
631550.63	4175300.50	104.42789	(06121422)	631550.63	4175400.50	260.85140	(06072903)
631550.63	4175500.50	289.16821	(08012218)	631550.63	4175600.50	299.16577	(05110817)
631550.63	4175700.50	215.60625	(04081924)	631550.63	4175800.50	150.75852	(04101820)
631550.63	4175900.50	156.56575	(07090905)	631550.63	4176000.50	262.36304	(07090905)
631550.63	4176100.50	148.73447	(08091907)	631650.63	4175100.50	195.36782	(05030118)
631650.63	4175200.50	251.35773	(08121017)	631650.63	4175300.50	70.29086	(06121422)
631650.63	4175400.50	161.18778	(06072903)	631650.63	4175500.50	496.90059	(04042519)
631650.63	4175600.50	367.82332	(06052001)	631650.63	4175700.50	201.50155	(08090903)
631650.63	4175800.50	114.26394	(07090905)	631650.63	4175900.50	112.83663	(07071003)
631650.63	4176000.50	247.85040	(05112506)	631650.63	4176100.50	141.24104	(05112506)
631750.63	4175100.50	207.75001	(08081805)	631750.63	4175200.50	275.61244	(08081805)
631750.63	4175300.50	178.68118	(08102618)	631750.63	4175400.50	557.15517	(08012218)
631750.63	4175500.50	458.12800	(06052001)	631750.63	4175600.50	262.58597	(08102618)
631750.63	4175700.50	153.15016	(08102618)	631750.63	4175800.50	77.57263	(05112506)
631750.63	4175900.50	73.34994	(05112506)	631750.63	4176000.50	205.88927	(07030418)
631750.63	4176100.50	140.93395	(07030418)	631850.63	4175100.50	305.28243	(08102618)
631850.63	4175200.50	407.92268	(08102618)	631850.63	4175300.50	710.40611	(06052001)
631850.63	4175400.50	661.96019	(04030118)	631850.63	4175500.50	477.31207	(08112520)

631850.63 4175600.50 399.12867 (08112318) 631850.63 4175700.50 294.78846 (04111519)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***
INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	221.19685	(05020318)	631850.63	4175900.50	216.65180	(07091007)
631850.63	4176000.50	158.79644	(07091007)	631850.63	4176100.50	128.76248	(07091007)
631950.63	4175100.50	298.67977	(08090903)	631950.63	4175200.50	440.76104	(04082919)
631950.63	4175300.50	531.64204	(07102905)	631950.63	4175400.50	484.52544	(04030118)
631950.63	4175500.50	352.20386	(06102818)	631950.63	4175600.50	224.41935	(06112624)
631950.63	4175700.50	248.44619	(07091007)	631950.63	4175800.50	155.33059	(06021018)
631950.63	4175900.50	240.41963	(07091007)	631950.63	4176000.50	204.41153	(07091007)
631950.63	4176100.50	176.51997	(07091007)	632050.63	4175100.50	326.31044	(04082919)
632050.63	4175200.50	372.31595	(05110817)	632050.63	4175300.50	424.81092	(06072803)
632050.63	4175400.50	374.33164	(07102804)	632050.63	4175500.50	269.35500	(06111908)
632050.63	4175600.50	236.19270	(06052306)	632050.63	4175700.50	206.81017	(04082204)
632050.63	4175800.50	183.65121	(08102318)	632050.63	4175900.50	155.74533	(07091007)
632050.63	4176000.50	167.06724	(07091007)	632050.63	4176100.50	165.61525	(07091007)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	106.73577	(08031018)	632304.44	4174354.52	64.88391	(04122822)
632192.15	4174956.32	97.01966	(04081924)	632420.62	4175510.15	124.50247	(07010217)
632418.97	4175552.92	127.70039	(07020218)	631187.00	4175727.00	514.94650	(07110617)
631166.00	4175729.00	469.91467	(04041821)	631121.00	4175719.00	301.66463	(04041821)
631035.00	4174830.00	114.53362	(05030118)	631106.00	4174825.00	124.98849	(06102817)
631937.00	4174528.00	89.20266	(05011817)	631322.00	4174522.00	81.76967	(04102621)
629800.63	4173850.44	13.61322	(04012317)	630150.63	4173850.44	31.81220	(06011109)
630500.63	4173850.44	37.90052	(05012117)	630850.63	4173850.44	51.80414	(06102817)

631200.63	4173850.44	41.09012	(06121420)	631550.63	4173850.44	43.56600	(05021805)
631900.63	4173850.44	55.72971	(04102617)	632250.63	4173850.44	60.38723	(05011817)
632600.63	4173850.44	45.42884	(04122822)	632950.63	4173850.44	42.06762	(05011521)
633300.63	4173850.44	38.44488	(04022018)	629800.63	4174200.44	19.46355	(06121421)
630150.63	4174200.44	42.72107	(04012317)	630500.63	4174200.44	81.66214	(06011109)
630850.63	4174200.44	71.47608	(06102817)	631200.63	4174200.44	58.99851	(05071804)
631550.63	4174200.44	61.89543	(07030618)	631900.63	4174200.44	69.79722	(07020623)
632250.63	4174200.44	68.48777	(08071406)	632600.63	4174200.44	54.94474	(08031018)
632950.63	4174200.44	49.44584	(04022018)	633300.63	4174200.44	37.93327	(08030618)
629800.63	4174550.44	33.76385	(05122619)	630150.63	4174550.44	62.70636	(06121421)
630500.63	4174550.44	85.92368	(04012317)	630850.63	4174550.44	95.70356	(06011109)
631200.63	4174550.44	87.04565	(04112917)	631550.63	4174550.44	82.02688	(07030618)
631900.63	4174550.44	86.58094	(08071405)	632250.63	4174550.44	73.21235	(08031018)
632600.63	4174550.44	65.65718	(05011317)	632950.63	4174550.44	52.79766	(08030618)
633300.63	4174550.44	51.35799	(06011617)	629800.63	4174900.44	46.89160	(04022118)
630150.63	4174900.44	85.01010	(07020624)	630500.63	4174900.44	109.11758	(06121421)
630850.63	4174900.44	119.07088	(08121017)	631200.63	4174900.44	139.27913	(06102817)
631550.63	4174900.44	109.52090	(07030618)	631900.63	4174900.44	118.91991	(08071406)
632250.63	4174900.44	89.45591	(05011317)	632600.63	4174900.44	78.07333	(05110817)
632950.63	4174900.44	62.84753	(05020802)	633300.63	4174900.44	50.79384	(06120617)
629800.63	4175250.44	58.90761	(06041224)	630150.63	4175250.44	75.95800	(06121217)
630500.63	4175250.44	131.31915	(04022118)	630850.63	4175250.44	164.18682	(08081806)
631200.63	4175250.44	190.99397	(06011109)	631550.63	4175250.44	181.23797	(07030618)
631900.63	4175250.44	145.25374	(08031018)	632250.63	4175250.44	123.76717	(05110817)
632600.63	4175250.44	90.53090	(04022223)	632950.63	4175250.44	67.44364	(05021801)
633300.63	4175250.44	58.71767	(07010217)	629800.63	4175600.44	52.96205	(06032819)
630150.63	4175600.44	73.11031	(06051906)	630500.63	4175600.44	113.27297	(04041821)
630850.63	4175600.44	194.49520	(04041821)	631200.63	4175600.44	355.33783	(05072102)
631550.63	4175600.44	234.30997	(05112506)	631900.63	4175600.44	255.90798	(06052002)
632250.63	4175600.44	160.59561	(05071701)	632600.63	4175600.44	107.23235	(06011618)
632950.63	4175600.44	71.86662	(05122223)	633300.63	4175600.44	51.68048	(05121217)
629800.63	4175950.44	53.88106	(05122618)	630150.63	4175950.44	91.70499	(07042002)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	153.36018	(07042002)	630850.63	4175950.44	219.66196	(06121423)
631200.63	4175950.44	310.28905	(06033021)	631550.63	4175950.44	530.96591	(06080603)
631900.63	4175950.44	323.46269	(06111908)	632250.63	4175950.44	213.39232	(05012018)
632600.63	4175950.44	135.00116	(07012418)	632950.63	4175950.44	83.80255	(07012318)
633300.63	4175950.44	54.15949	(07012318)	629800.63	4176300.44	61.06190	(06011217)
630150.63	4176300.44	76.37587	(05030321)	630500.63	4176300.44	108.30713	(05110619)
630850.63	4176300.44	139.51147	(04082001)	631200.63	4176300.44	150.41504	(04083005)

631550.63	4176300.44	168.89600	(04111519)	631900.63	4176300.44	278.40200	(06062806)
632250.63	4176300.44	149.86117	(04121021)	632600.63	4176300.44	102.23570	(05011418)
632950.63	4176300.44	70.91234	(05011322)	633300.63	4176300.44	49.45868	(08010924)
629800.63	4176650.44	47.71231	(05030322)	630150.63	4176650.44	72.45328	(06122121)
630500.63	4176650.44	81.44187	(04021521)	630850.63	4176650.44	91.67292	(05112504)
631200.63	4176650.44	160.87104	(08091907)	631550.63	4176650.44	104.44782	(04111519)
631900.63	4176650.44	125.07247	(06081406)	632250.63	4176650.44	140.26385	(06062806)
632600.63	4176650.44	96.44883	(08121517)	632950.63	4176650.44	63.69814	(05011818)
633300.63	4176650.44	45.09890	(04121024)	629800.63	4177000.44	51.40602	(04021520)
630150.63	4177000.44	59.71382	(04021521)	630500.63	4177000.44	62.45904	(04120903)
630850.63	4177000.44	71.34024	(08122718)	631200.63	4177000.44	97.02144	(05112506)
631550.63	4177000.44	71.31803	(06052305)	631900.63	4177000.44	77.67443	(04020619)
632250.63	4177000.44	79.81125	(07010323)	632600.63	4177000.44	75.24460	(08122905)
632950.63	4177000.44	57.79454	(07021220)	633300.63	4177000.44	43.72298	(08021808)
629800.63	4177350.44	41.32039	(04021521)	630150.63	4177350.44	47.32213	(04120903)
630500.63	4177350.44	50.65851	(07122917)	630850.63	4177350.44	74.28776	(08091907)
631200.63	4177350.44	60.96950	(07021108)	631550.63	4177350.44	55.12563	(07122904)
631900.63	4177350.44	56.78075	(05021719)	632250.63	4177350.44	60.97322	(06122319)
632600.63	4177350.44	55.66093	(06062806)	632950.63	4177350.44	45.87399	(05010604)
633300.63	4177350.44	37.77773	(08021908)	631670.70	4175493.59	220.93063	(08090903)
631669.80	4175641.41	399.49849	(08090519)	631665.32	4175796.39	900.27809	(06111521)
631417.17	4175826.85	481.89545	(05030402)	631417.17	4175673.66	531.10347	(06062806)
631422.55	4175484.63	129.71690	(04101605)	631268.42	4175983.74	352.07683	(04082001)
631275.69	4175523.99	265.84927	(05111717)	631345.65	4175419.50	344.45207	(04101605)
631384.72	4175441.30	247.14727	(07100818)	631491.93	4175442.21	251.66664	(07030618)
631491.93	4175414.95	230.98156	(07030618)	631385.63	4175413.14	309.42227	(06102817)
631358.37	4175395.87	313.45472	(06102817)	631409.25	4175336.81	197.75221	(07100818)
631567.35	4175235.96	174.70135	(07030618)	631756.33	4175028.80	129.06996	(08102618)
631807.22	4175003.36	134.70746	(05011817)	631867.18	4174987.91	129.24747	(08071406)
631849.92	4175988.28	319.18020	(05072806)	631268.74	4175963.75	451.26063	(06033021)
631269.05	4175943.76	512.13635	(06033021)	631269.37	4175923.77	544.30413	(06033021)
631269.68	4175903.78	594.73026	(06121423)	631270.00	4175883.79	700.03885	(06121423)
631270.32	4175863.81	754.40040	(06121423)	631270.63	4175843.82	795.68661	(05071702)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	463.37474	(05071702)	631271.26	4175803.84	426.95918	(05030320)
631271.58	4175783.85	402.36030	(06072904)	631271.90	4175763.86	340.69223	(06072904)
631272.21	4175743.87	346.20452	(04041821)	631272.53	4175723.88	363.34388	(07110617)
631272.85	4175703.89	378.90110	(07110617)	631273.16	4175683.90	367.12512	(07110617)
631273.48	4175663.91	336.82503	(06051905)	631273.79	4175643.92	349.91944	(05072102)
631274.11	4175623.94	356.99435	(05072102)	631274.43	4175603.95	337.46198	(05072102)

631274.74	4175583.96	301.26400	(05111717)	631275.06	4175563.97	294.90397	(05111717)
631275.37	4175543.98	289.03953	(05111717)	631285.68	4175509.06	245.14033	(04012317)
631295.68	4175494.14	238.27984	(08121017)	631305.67	4175479.21	231.62770	(08121017)
631315.67	4175464.28	317.87402	(04012317)	631325.66	4175449.35	283.33391	(07011517)
631335.66	4175434.43	368.56559	(04101605)	631358.67	4175426.77	333.87455	(04101605)
631371.70	4175434.03	327.95283	(06102817)	631402.59	4175441.45	260.83833	(07100818)
631420.46	4175441.60	113.37998	(04101605)	631438.33	4175441.76	261.56557	(07100818)
631456.19	4175441.91	247.37427	(07100818)	631474.06	4175442.06	257.18606	(08081805)
631491.93	4175428.58	241.00575	(07030618)	631474.21	4175414.65	234.70196	(08081805)
631456.50	4175414.35	248.02294	(08081805)	631438.78	4175414.05	252.89401	(08081805)
631421.06	4175413.74	277.72731	(06102817)	631403.35	4175413.44	299.08457	(06102817)
631372.00	4175404.51	313.53286	(06102817)	631371.09	4175381.11	284.08771	(06102817)
631383.81	4175366.34	239.20975	(06102817)	631396.53	4175351.58	211.34752	(06102817)
631425.06	4175326.73	196.32722	(08081805)	631440.87	4175316.64	192.66596	(08081805)
631456.68	4175306.56	183.17021	(08081805)	631472.49	4175296.47	162.76934	(08081805)
631488.30	4175286.39	157.68658	(07030618)	631504.11	4175276.30	163.05571	(07030618)
631519.92	4175266.22	180.85179	(07030618)	631535.73	4175256.13	182.48701	(07030618)
631551.54	4175246.05	179.93654	(07030618)	631579.95	4175222.15	201.09384	(04102623)
631592.55	4175208.34	204.10218	(04102617)	631605.15	4175194.53	208.74744	(04102617)
631617.74	4175180.72	196.76880	(04102617)	631630.34	4175166.91	197.22209	(08102618)
631642.94	4175153.10	166.58358	(08102618)	631655.54	4175139.29	159.89711	(04102617)
631668.14	4175125.47	153.21434	(04102617)	631680.74	4175111.66	146.04861	(04102617)
631693.34	4175097.85	142.19542	(08102618)	631705.94	4175084.04	140.97578	(08102618)
631718.53	4175070.23	138.94157	(08102618)	631731.13	4175056.42	136.22710	(08102618)
631743.73	4175042.61	132.92759	(08102618)	631773.29	4175020.32	131.71073	(05011817)
631790.26	4175011.84	133.97453	(05011817)	631822.21	4174999.50	134.73996	(05011817)
631837.20	4174995.64	133.45156	(05011817)	631852.19	4174991.77	131.45873	(08071406)
631866.84	4175007.53	130.28653	(08071406)	631866.50	4175027.14	131.09647	(08071406)
631866.16	4175046.76	131.62663	(08071406)	631865.83	4175066.37	131.61917	(08071406)
631865.49	4175085.99	131.14228	(08071406)	631865.15	4175105.60	130.17577	(08071406)
631864.81	4175125.22	128.76545	(08071406)	631864.47	4175144.83	127.46550	(08090903)
631864.13	4175164.45	131.87417	(08090903)	631863.80	4175184.06	135.68780	(08090903)
631863.46	4175203.68	138.79536	(08090903)	631863.12	4175223.29	141.07264	(08090903)
631862.78	4175242.91	162.48413	(08071406)	631862.44	4175262.52	151.30221	(08031018)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	155.00431	(08031018)	631861.77	4175301.75	157.42223	(08031018)
631861.43	4175321.37	158.38683	(08031018)	631861.09	4175340.98	158.63190	(04081924)
631860.75	4175360.60	163.05577	(04081924)	631860.41	4175380.21	165.37723	(04081924)
631860.07	4175399.83	167.70873	(05011317)	631859.73	4175419.44	173.44018	(05011317)
631859.40	4175439.06	182.82792	(05051824)	631859.06	4175458.67	189.82054	(05051824)

631858.72	4175478.29	195.44209	(05011417)	631858.38	4175497.90	199.99841	(05011417)
631858.04	4175517.52	205.98998	(05110817)	631857.70	4175537.13	212.67442	(07102905)
631857.37	4175556.75	224.70225	(07102905)	631857.03	4175576.36	228.62159	(07102905)
631856.69	4175595.98	225.97452	(06052002)	631856.35	4175615.59	265.12339	(06052002)
631856.01	4175635.21	289.79537	(06052002)	631855.67	4175654.82	298.56063	(06072803)
631855.33	4175674.44	322.24269	(06072803)	631855.00	4175694.05	318.94488	(06072803)
631854.66	4175713.67	324.99590	(06111919)	631854.32	4175733.28	337.79865	(04083003)
631853.98	4175752.90	425.01491	(07102822)	631853.64	4175772.51	535.88721	(07102822)
631853.30	4175792.13	536.90705	(06111521)	631852.97	4175811.74	525.62186	(07090902)
631852.63	4175831.36	521.92430	(04081403)	631852.29	4175850.97	469.82276	(06062805)
631851.95	4175870.59	460.78012	(04102219)	631851.61	4175890.20	448.92822	(06081403)
631851.27	4175909.82	354.50806	(08111818)	631850.94	4175929.43	365.50896	(06111908)
631850.60	4175949.05	343.75835	(06102818)	631850.26	4175968.66	317.90774	(05072806)
631830.54	4175988.13	320.58653	(05072806)	631811.15	4175987.98	331.39002	(04121018)
631791.77	4175987.83	373.33046	(04121018)	631772.39	4175987.67	394.78422	(04121019)
631753.00	4175987.52	447.88861	(06052306)	631733.62	4175987.37	485.15211	(06052306)
631714.24	4175987.22	471.34600	(06052306)	631694.85	4175987.07	463.13030	(06062806)
631675.47	4175986.92	540.92583	(06062806)	631656.09	4175986.77	557.65674	(06062806)
631636.70	4175986.62	501.74335	(06062806)	631617.32	4175986.46	419.38705	(08062724)
631597.94	4175986.31	419.42905	(06081406)	631578.55	4175986.16	378.48272	(06081406)
631559.17	4175986.01	349.74897	(06080603)	631539.79	4175985.86	335.15281	(07030418)
631520.40	4175985.71	379.02762	(07030418)	631501.02	4175985.56	504.46723	(05112506)
631481.64	4175985.40	489.60189	(05112506)	631462.25	4175985.25	433.58307	(08091907)
631442.87	4175985.10	430.67283	(08091907)	631423.49	4175984.95	390.98771	(06110119)
631404.10	4175984.80	341.08965	(06110119)	631384.72	4175984.65	299.11139	(04083005)
631365.34	4175984.50	326.29007	(04101820)	631345.95	4175984.35	341.70655	(07082502)
631326.57	4175984.19	367.95403	(04082001)	631307.19	4175984.04	391.46164	(04082001)
631287.80	4175983.89	406.63045	(04082001)	631050.63	4175100.50	156.31166	(06011109)
631050.63	4175200.50	165.86399	(08121017)	631050.63	4175300.50	196.25056	(04012317)
631050.63	4175400.50	211.97385	(05111717)	631050.63	4175500.50	250.00641	(05072102)
631050.63	4175600.50	258.86630	(07110617)	631050.63	4175700.50	256.11488	(04041821)
631050.63	4175800.50	256.85481	(06072903)	631050.63	4175900.50	283.92978	(06041503)
631050.63	4176000.50	233.22973	(08081602)	631050.63	4176100.50	185.50760	(04082001)
631150.63	4175100.50	154.36282	(04101605)	631150.63	4175200.50	180.14099	(06011109)
631150.63	4175300.50	194.47606	(08121017)	631150.63	4175400.50	240.97466	(04012317)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	272.57703	(08081806)	631150.63	4175600.50	324.26359	(05030319)
631150.63	4175700.50	390.45268	(04041822)	631150.63	4175800.50	317.02572	(05030320)
631150.63	4175900.50	337.59427	(06121423)	631150.63	4176000.50	257.49274	(06033021)
631150.63	4176100.50	198.78837	(04082001)	631250.63	4175100.50	163.37663	(06102817)

631250.63	4175200.50	169.38848	(06102817)	631250.63	4175300.50	201.56846	(04101605)
631250.63	4175400.50	240.90500	(08121017)	631250.63	4175500.50	255.63567	(05111717)
631250.63	4175600.50	349.17396	(05072102)	631250.63	4175700.50	404.76536	(07110617)
631250.63	4175800.50	414.78776	(05030320)	631250.63	4175900.50	631.37276	(06121423)
631250.63	4176000.50	277.95692	(04082001)	631250.63	4176100.50	202.87195	(04082205)
631350.63	4175100.50	142.84885	(07100818)	631350.63	4175200.50	165.20695	(06102817)
631350.63	4175300.50	209.97319	(06102817)	631350.63	4175400.50	317.10205	(04101605)
631350.63	4175500.50	203.87514	(08121017)	631350.63	4175600.50	250.09260	(06062806)
631350.63	4175700.50	275.32112	(04121018)	631350.63	4175800.50	471.34431	(06072903)
631350.63	4175900.50	239.52686	(06121423)	631350.63	4176000.50	311.99498	(04101820)
631350.63	4176100.50	253.70943	(06110119)	631450.63	4175100.50	127.88098	(05050803)
631450.63	4175200.50	147.00977	(08081805)	631450.63	4175300.50	183.85517	(08081805)
631450.63	4175400.50	243.40424	(08081805)	631450.63	4175500.50	319.37290	(07100818)
631450.63	4175600.50	194.06590	(06081406)	631450.63	4175700.50	636.94749	(06062806)
631450.63	4175800.50	600.96372	(06020519)	631450.63	4175900.50	434.30738	(06110119)
631450.63	4176000.50	415.02885	(08091907)	631450.63	4176100.50	302.58167	(05112506)
631550.63	4175100.50	135.49928	(07030618)	631550.63	4175200.50	172.45820	(04102623)
631550.63	4175300.50	148.94595	(04122823)	631550.63	4175400.50	102.53435	(08081805)
631550.63	4175500.50	149.18231	(08081805)	631550.63	4175600.50	234.37839	(05112506)
631550.63	4175700.50	334.88946	(08091907)	631550.63	4175800.50	761.60562	(04121018)
631550.63	4175900.50	649.52246	(07102901)	631550.63	4176000.50	320.67287	(05072006)
631550.63	4176100.50	246.39904	(05072006)	631650.63	4175100.50	153.89560	(04102617)
631650.63	4175200.50	223.90730	(08102618)	631650.63	4175300.50	112.98800	(08102618)
631650.63	4175400.50	123.24658	(08090903)	631650.63	4175500.50	244.47878	(08090903)
631650.63	4175600.50	327.05213	(06052001)	631650.63	4175700.50	547.84115	(07102905)
631650.63	4175800.50	920.61392	(07090902)	631650.63	4175900.50	667.61310	(06052306)
631650.63	4176000.50	493.01879	(06062806)	631650.63	4176100.50	305.98907	(08062724)
631750.63	4175100.50	147.90831	(05011817)	631750.63	4175200.50	262.09330	(05011817)
631750.63	4175300.50	140.17303	(08090903)	631750.63	4175400.50	184.55964	(08031018)
631750.63	4175500.50	213.85328	(04081924)	631750.63	4175600.50	261.99850	(05110817)
631750.63	4175700.50	401.83735	(06072803)	631750.63	4175800.50	720.57712	(07102804)
631750.63	4175900.50	460.37688	(05081502)	631750.63	4176000.50	459.07981	(06052306)
631750.63	4176100.50	397.68480	(06062806)	631850.63	4175100.50	137.65254	(08071406)
631850.63	4175200.50	137.76683	(08090903)	631850.63	4175300.50	159.20490	(08031018)
631850.63	4175400.50	169.55953	(04081924)	631850.63	4175500.50	202.80808	(05011417)
631850.63	4175600.50	231.38701	(06052002)	631850.63	4175700.50	317.17720	(06072803)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	541.27617	(07102804)	631850.63	4175900.50	407.15570	(06081403)
631850.63	4176000.50	303.45686	(05072806)	631850.63	4176100.50	325.39829	(06052306)
631950.63	4175100.50	127.24441	(08031018)	631950.63	4175200.50	135.42102	(06052001)

631950.63	4175300.50	145.09069	(08090905)	631950.63	4175400.50	168.06421	(08090519)
631950.63	4175500.50	195.82450	(07102905)	631950.63	4175600.50	252.05130	(06052002)
631950.63	4175700.50	276.67733	(06091119)	631950.63	4175800.50	419.86089	(07102804)
631950.63	4175900.50	367.03048	(05080806)	631950.63	4176000.50	271.32549	(05081405)
631950.63	4176100.50	257.41945	(04121018)	632050.63	4175100.50	118.28794	(04081924)
632050.63	4175200.50	129.36749	(05011317)	632050.63	4175300.50	145.89896	(05011417)
632050.63	4175400.50	161.03295	(07102905)	632050.63	4175500.50	170.20220	(06052002)
632050.63	4175600.50	220.05553	(07080303)	632050.63	4175700.50	227.26246	(07062003)
632050.63	4175800.50	331.63496	(07102804)	632050.63	4175900.50	300.06459	(05080305)
632050.63	4176000.50	242.92615	(06111908)	632050.63	4176100.50	202.95834	(05072806)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	122.64946	(04081924)	632304.44	4174354.52	68.36727	(05020818)
632192.15	4174956.32	124.95765	(05011317)	632420.62	4175510.15	153.79602	(06011618)
632418.97	4175552.92	147.57308	(06011618)	631187.00	4175727.00	395.35601	(05030320)
631166.00	4175729.00	371.39395	(05030320)	631121.00	4175719.00	320.18291	(05030320)
631035.00	4174830.00	121.27575	(06011109)	631106.00	4174825.00	113.89818	(05030118)
631937.00	4174528.00	94.89961	(05011817)	631322.00	4174522.00	80.51956	(08081805)
629800.63	4173850.44	12.77240	(04012317)	630150.63	4173850.44	26.20831	(06011109)
630500.63	4173850.44	35.14745	(06011109)	630850.63	4173850.44	52.18092	(06102817)
631200.63	4173850.44	40.86038	(08081805)	631550.63	4173850.44	44.62981	(07030618)
631900.63	4173850.44	53.96974	(04102617)	632250.63	4173850.44	51.45626	(05011817)
632600.63	4173850.44	47.04342	(05020818)	632950.63	4173850.44	45.06445	(05011520)
633300.63	4173850.44	39.86212	(04022018)	629800.63	4174200.44	23.15705	(06121421)
630150.63	4174200.44	43.25462	(04012317)	630500.63	4174200.44	74.25727	(06011109)
630850.63	4174200.44	63.30410	(06102817)	631200.63	4174200.44	58.01175	(07100818)
631550.63	4174200.44	63.22809	(07030618)	631900.63	4174200.44	65.35723	(04122824)
632250.63	4174200.44	56.16367	(06051924)	632600.63	4174200.44	60.88761	(05011521)
632950.63	4174200.44	54.70847	(04022018)	633300.63	4174200.44	37.88316	(05030408)
629800.63	4174550.44	48.15498	(07020624)	630150.63	4174550.44	62.09841	(06121421)
630500.63	4174550.44	93.42738	(04012317)	630850.63	4174550.44	105.13491	(06011109)
631200.63	4174550.44	84.10089	(07111022)	631550.63	4174550.44	83.80203	(07030618)
631900.63	4174550.44	94.71384	(05011817)	632250.63	4174550.44	88.53282	(08031018)
632600.63	4174550.44	77.15547	(05011317)	632950.63	4174550.44	58.78267	(07021118)
633300.63	4174550.44	44.92947	(05020802)	629800.63	4174900.44	50.58857	(06121217)
630150.63	4174900.44	81.42236	(06120217)	630500.63	4174900.44	94.28907	(04101819)
630850.63	4174900.44	129.52136	(04012317)	631200.63	4174900.44	134.62551	(06102817)
631550.63	4174900.44	113.10278	(05110722)	631900.63	4174900.44	105.22354	(08071406)
632250.63	4174900.44	117.31258	(05011317)	632600.63	4174900.44	96.13567	(06011617)
632950.63	4174900.44	76.58456	(06120617)	633300.63	4174900.44	56.20745	(08010918)
629800.63	4175250.44	74.88390	(04022207)	630150.63	4175250.44	94.86874	(06041224)

630500.63	4175250.44	132.94032	(06121217)	630850.63	4175250.44	178.61909	(05072102)
631200.63	4175250.44	186.55708	(06011109)	631550.63	4175250.44	192.43932	(07030618)
631900.63	4175250.44	181.16872	(04081924)	632250.63	4175250.44	161.14624	(08022004)
632600.63	4175250.44	124.68597	(05021801)	632950.63	4175250.44	95.23407	(07010217)
633300.63	4175250.44	54.09466	(07020218)	629800.63	4175600.44	67.66570	(04121304)
630150.63	4175600.44	98.82606	(06032819)	630500.63	4175600.44	142.07076	(06032819)
630850.63	4175600.44	222.64755	(07110902)	631200.63	4175600.44	437.50416	(07110617)
631550.63	4175600.44	280.49695	(05051824)	631900.63	4175600.44	352.42105	(05071701)
632250.63	4175600.44	195.67636	(05122223)	632600.63	4175600.44	126.09721	(05121217)
632950.63	4175600.44	79.23782	(05011522)	633300.63	4175600.44	51.40350	(05011522)
629800.63	4175950.44	62.03495	(07042002)	630150.63	4175950.44	107.48315	(06011024)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	149.53271	(06011217)	630850.63	4175950.44	210.02200	(05051724)
631200.63	4175950.44	285.19529	(04082001)	631550.63	4175950.44	282.76419	(06080603)
631900.63	4175950.44	291.64964	(07092306)	632250.63	4175950.44	177.47786	(06111908)
632600.63	4175950.44	123.57331	(06012918)	632950.63	4175950.44	81.43053	(06121320)
633300.63	4175950.44	52.50293	(07012418)	629800.63	4176300.44	60.28154	(04041820)
630150.63	4176300.44	104.21225	(07120622)	630500.63	4176300.44	115.33980	(06122121)
630850.63	4176300.44	143.97997	(07082502)	631200.63	4176300.44	148.78356	(07090905)
631550.63	4176300.44	129.24652	(06052305)	631900.63	4176300.44	143.50593	(08102318)
632250.63	4176300.44	149.15266	(06052306)	632600.63	4176300.44	102.46402	(04121022)
632950.63	4176300.44	70.29863	(05020719)	633300.63	4176300.44	50.90129	(05122401)
629800.63	4176650.44	55.48474	(06122121)	630150.63	4176650.44	84.18766	(04021520)
630500.63	4176650.44	84.25839	(04021521)	630850.63	4176650.44	98.91254	(04101820)
631200.63	4176650.44	107.02145	(08091907)	631550.63	4176650.44	92.78589	(06052305)
631900.63	4176650.44	94.08631	(05082502)	632250.63	4176650.44	125.89448	(06062806)
632600.63	4176650.44	86.20674	(06052306)	632950.63	4176650.44	63.68215	(08122903)
633300.63	4176650.44	45.94731	(05020806)	629800.63	4177000.44	47.11382	(04021520)
630150.63	4177000.44	54.74010	(04021018)	630500.63	4177000.44	71.07148	(04120908)
630850.63	4177000.44	75.31290	(07021218)	631200.63	4177000.44	72.41134	(06013008)
631550.63	4177000.44	66.61642	(06052305)	631900.63	4177000.44	69.41737	(04121819)
632250.63	4177000.44	66.13661	(06120218)	632600.63	4177000.44	78.20849	(06062806)
632950.63	4177000.44	61.12433	(08021908)	633300.63	4177000.44	50.67589	(08021808)
629800.63	4177350.44	37.35745	(04010518)	630150.63	4177350.44	44.07747	(04121223)
630500.63	4177350.44	54.68245	(07122917)	630850.63	4177350.44	64.73803	(08091907)
631200.63	4177350.44	55.15572	(07021108)	631550.63	4177350.44	52.87684	(07122904)
631900.63	4177350.44	50.95666	(07021206)	632250.63	4177350.44	51.58265	(05022620)
632600.63	4177350.44	45.85372	(05121423)	632950.63	4177350.44	43.89052	(06062806)
633300.63	4177350.44	43.31363	(08021908)	631670.70	4175493.59	317.61864	(04082919)
631669.80	4175641.41	681.11174	(07080303)	631665.32	4175796.39	567.06380	(07092306)

631417.17	4175826.85	198.55867	(05042719)	631417.17	4175673.66	496.55044	(04041919)
631422.55	4175484.63	284.20976	(07100818)	631268.42	4175983.74	290.94647	(07082502)
631275.69	4175523.99	356.68160	(05072102)	631345.65	4175419.50	374.63747	(08121017)
631384.72	4175441.30	170.21227	(07100818)	631491.93	4175442.21	290.22402	(07030618)
631491.93	4175414.95	261.92766	(07030618)	631385.63	4175413.14	321.81610	(04101605)
631358.37	4175395.87	330.22089	(04101605)	631409.25	4175336.81	220.44236	(06102817)
631567.35	4175235.96	184.31140	(07030618)	631756.33	4175028.80	141.93084	(05011817)
631807.22	4175003.36	136.91017	(08071406)	631867.18	4174987.91	117.19826	(08090903)
631849.92	4175988.28	271.92202	(06052306)	631268.74	4175963.75	442.14596	(07082502)
631269.05	4175943.76	478.99584	(07082502)	631269.37	4175923.77	517.62343	(04082001)
631269.68	4175903.78	501.47645	(07120623)	631270.00	4175883.79	444.00868	(08081602)
631270.32	4175863.81	402.23298	(06033021)	631270.63	4175843.82	456.58195	(06033021)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	483.43908	(06033021)	631271.26	4175803.84	481.68474	(08081602)
631271.58	4175783.85	509.25230	(06121423)	631271.90	4175763.86	536.05915	(06121423)
631272.21	4175743.87	547.34076	(05071702)	631272.53	4175723.88	538.90995	(05071702)
631272.85	4175703.89	512.23695	(05030402)	631273.16	4175683.90	540.97572	(05030402)
631273.48	4175663.91	559.46660	(06092418)	631273.79	4175643.92	535.61958	(06092418)
631274.11	4175623.94	496.58094	(07110617)	631274.43	4175603.95	512.46735	(07110617)
631274.74	4175583.96	474.73009	(07110617)	631275.06	4175563.97	398.74089	(07110617)
631275.37	4175543.98	363.24141	(05072102)	631285.68	4175509.06	407.81355	(05030319)
631295.68	4175494.14	419.63381	(06051905)	631305.67	4175479.21	432.52871	(08081806)
631315.67	4175464.28	447.71971	(05111717)	631325.66	4175449.35	409.50536	(04012317)
631335.66	4175434.43	402.00886	(08121017)	631358.67	4175426.77	366.99869	(08121017)
631371.70	4175434.03	362.96239	(08121017)	631402.59	4175441.45	226.58774	(07100818)
631420.46	4175441.60	225.71838	(08081805)	631438.33	4175441.76	275.66782	(05030118)
631456.19	4175441.91	249.67956	(05020718)	631474.06	4175442.06	267.91743	(06102817)
631491.93	4175428.58	275.53834	(07030618)	631474.21	4175414.65	223.30139	(07030618)
631456.50	4175414.35	258.83428	(06102817)	631438.78	4175414.05	284.01432	(06102817)
631421.06	4175413.74	298.94914	(06102817)	631403.35	4175413.44	303.13233	(04101605)
631372.00	4175404.51	327.57606	(04101605)	631371.09	4175381.11	305.70716	(04101605)
631383.81	4175366.34	258.22199	(04101605)	631396.53	4175351.58	234.01090	(06102817)
631425.06	4175326.73	200.91604	(06102817)	631440.87	4175316.64	165.09455	(06102817)
631456.68	4175306.56	139.93911	(06102817)	631472.49	4175296.47	156.62964	(07030618)
631488.30	4175286.39	199.85465	(08081805)	631504.11	4175276.30	188.13829	(07030618)
631519.92	4175266.22	193.28190	(07030618)	631535.73	4175256.13	194.21396	(07030618)
631551.54	4175246.05	190.95019	(07030618)	631579.95	4175222.15	209.31413	(04102617)
631592.55	4175208.34	210.71614	(04102617)	631605.15	4175194.53	212.83383	(04102617)
631617.74	4175180.72	198.53449	(04102617)	631630.34	4175166.91	169.11335	(04102617)
631642.94	4175153.10	161.77163	(04102617)	631655.54	4175139.29	157.07189	(08102618)

631668.14	4175125.47	153.31200	(08102618)	631680.74	4175111.66	148.81895	(08102618)
631693.34	4175097.85	143.69583	(08102618)	631705.94	4175084.04	142.67814	(05011817)
631718.53	4175070.23	143.46202	(05011817)	631731.13	4175056.42	143.57412	(05011817)
631743.73	4175042.61	143.05890	(05011817)	631773.29	4175020.32	141.19373	(08071406)
631790.26	4175011.84	139.82731	(08071406)	631822.21	4174999.50	133.26833	(08071406)
631837.20	4174995.64	128.51920	(08071406)	631852.19	4174991.77	122.86028	(08071406)
631866.84	4175007.53	124.11918	(08090903)	631866.50	4175027.14	130.74976	(08090903)
631866.16	4175046.76	136.91321	(08090903)	631865.83	4175066.37	142.37118	(08090903)
631865.49	4175085.99	146.98449	(08090903)	631865.15	4175105.60	150.59862	(08090903)
631864.81	4175125.22	153.07382	(08090903)	631864.47	4175144.83	158.04829	(08031018)
631864.13	4175164.45	162.42437	(08031018)	631863.80	4175184.06	168.37130	(06052001)
631863.46	4175203.68	175.50809	(06052001)	631863.12	4175223.29	180.51515	(06052001)
631862.78	4175242.91	183.02864	(06052001)	631862.44	4175262.52	188.06926	(04081924)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***

INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	192.11697	(04081924)	631861.77	4175301.75	192.75417	(08090905)
631861.43	4175321.37	208.33116	(05051824)	631861.09	4175340.98	225.39662	(05051824)
631860.75	4175360.60	237.20373	(05051824)	631860.41	4175380.21	242.22882	(05051824)
631860.07	4175399.83	240.74942	(05011417)	631859.73	4175419.44	248.34232	(07102905)
631859.40	4175439.06	281.02531	(07102905)	631859.06	4175458.67	299.24890	(07102905)
631858.72	4175478.29	298.14693	(07102905)	631858.38	4175497.90	293.93200	(08022004)
631858.04	4175517.52	322.52642	(06052002)	631857.70	4175537.13	366.93764	(06052002)
631857.37	4175556.75	372.13258	(08110218)	631857.03	4175576.36	385.52918	(07080303)
631856.69	4175595.98	389.47280	(04081304)	631856.35	4175615.59	382.28252	(06091119)
631856.01	4175635.21	384.05147	(07062003)	631855.67	4175654.82	439.05684	(07102822)
631855.33	4175674.44	535.29047	(07102822)	631855.00	4175694.05	534.19237	(06111521)
631854.66	4175713.67	524.02133	(08112505)	631854.32	4175733.28	510.76748	(04081403)
631853.98	4175752.90	408.83851	(06062805)	631853.64	4175772.51	402.78796	(05080806)
631853.30	4175792.13	390.06425	(06081403)	631852.97	4175811.74	370.15030	(06111908)
631852.63	4175831.36	384.93394	(06111908)	631852.29	4175850.97	358.19875	(06102818)
631851.95	4175870.59	333.03260	(05072806)	631851.61	4175890.20	333.89404	(05072806)
631851.27	4175909.82	321.91462	(07112517)	631850.94	4175929.43	314.51761	(07092306)
631850.60	4175949.05	289.32625	(07092306)	631850.26	4175968.66	272.51130	(06052306)
631830.54	4175988.13	273.44650	(06052306)	631811.15	4175987.98	265.39593	(06052306)
631791.77	4175987.83	261.27584	(06110304)	631772.39	4175987.67	259.79250	(06062806)
631753.00	4175987.52	275.75583	(06062806)	631733.62	4175987.37	280.91655	(06062806)
631714.24	4175987.22	273.97766	(06062806)	631694.85	4175987.07	255.13211	(06062806)
631675.47	4175986.92	249.33590	(08062724)	631656.09	4175986.77	254.02257	(06081406)
631636.70	4175986.62	250.22168	(06081406)	631617.32	4175986.46	241.94138	(06100919)
631597.94	4175986.31	242.85687	(06080603)	631578.55	4175986.16	241.55052	(05072006)
631559.17	4175986.01	238.75372	(04111519)	631539.79	4175985.86	242.51723	(07030418)

631520.40	4175985.71	258.34813	(07030418)	631501.02	4175985.56	260.17395	(07030418)
631481.64	4175985.40	251.46123	(07080306)	631462.25	4175985.25	268.40805	(05112506)
631442.87	4175985.10	284.85473	(05112506)	631423.49	4175984.95	289.07798	(05112506)
631404.10	4175984.80	319.55611	(07090905)	631384.72	4175984.65	338.90470	(07090905)
631365.34	4175984.50	361.63143	(04101820)	631345.95	4175984.35	389.46812	(04101820)
631326.57	4175984.19	403.44633	(04101820)	631307.19	4175984.04	402.12653	(04101820)
631287.80	4175983.89	373.72492	(05112504)	631050.63	4175100.50	149.58871	(08121017)
631050.63	4175200.50	172.75970	(04012317)	631050.63	4175300.50	192.00597	(05111717)
631050.63	4175400.50	231.22424	(05072102)	631050.63	4175500.50	351.65053	(06020109)
631050.63	4175600.50	314.19547	(06020109)	631050.63	4175700.50	258.02199	(06072903)
631050.63	4175800.50	277.11073	(06041503)	631050.63	4175900.50	269.49095	(08081602)
631050.63	4176000.50	215.10377	(04082001)	631050.63	4176100.50	184.17016	(07080103)
631150.63	4175100.50	161.14816	(06011109)	631150.63	4175200.50	170.53374	(08121017)
631150.63	4175300.50	208.43697	(04012317)	631150.63	4175400.50	237.50311	(08081806)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***
INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	341.63452	(06020109)	631150.63	4175600.50	402.75159	(06020109)
631150.63	4175700.50	331.37436	(05030402)	631150.63	4175800.50	354.77668	(06011217)
631150.63	4175900.50	302.27677	(06033021)	631150.63	4176000.50	236.63642	(04082001)
631150.63	4176100.50	186.75384	(04082205)	631250.63	4175100.50	150.18023	(06102817)
631250.63	4175200.50	173.70280	(04101605)	631250.63	4175300.50	209.22439	(06011109)
631250.63	4175400.50	263.78752	(04012317)	631250.63	4175500.50	524.94319	(05072102)
631250.63	4175600.50	487.06403	(07110617)	631250.63	4175700.50	509.60722	(05030402)
631250.63	4175800.50	494.04730	(05111617)	631250.63	4175900.50	532.79866	(07120623)
631250.63	4176000.50	243.42222	(04082205)	631250.63	4176100.50	204.94898	(04101820)
631350.63	4175100.50	145.64192	(06102817)	631350.63	4175200.50	182.27846	(06102817)
631350.63	4175300.50	209.79762	(06102817)	631350.63	4175400.50	338.20393	(08121017)
631350.63	4175500.50	247.93808	(05111717)	631350.63	4175600.50	367.01323	(07110617)
631350.63	4175700.50	473.37885	(06072903)	631350.63	4175800.50	344.91127	(06033021)
631350.63	4175900.50	221.55984	(07082502)	631350.63	4176000.50	359.99794	(04101820)
631350.63	4176100.50	200.17507	(08091907)	631450.63	4175100.50	133.16372	(08081805)
631450.63	4175200.50	156.71853	(08081805)	631450.63	4175300.50	144.13341	(06102817)
631450.63	4175400.50	251.34514	(06102817)	631450.63	4175500.50	202.28441	(05050803)
631450.63	4175600.50	367.63787	(07100818)	631450.63	4175700.50	437.18490	(05071701)
631450.63	4175800.50	239.15073	(07102905)	631450.63	4175900.50	187.70201	(04111019)
631450.63	4176000.50	267.76772	(05112506)	631450.63	4176100.50	180.68782	(05112506)
631550.63	4175100.50	140.90147	(05110722)	631550.63	4175200.50	180.99950	(04102623)
631550.63	4175300.50	155.66175	(08102618)	631550.63	4175400.50	211.17884	(08102618)
631550.63	4175500.50	117.95827	(08090903)	631550.63	4175600.50	280.70601	(05051824)
631550.63	4175700.50	1137.23663	(05071701)	631550.63	4175800.50	334.68972	(06110304)
631550.63	4175900.50	344.71001	(06080603)	631550.63	4176000.50	230.98774	(04111519)

631550.63	4176100.50	168.58537	(04111519)	631650.63	4175100.50	150.58953	(04102617)
631650.63	4175200.50	206.00821	(04102617)	631650.63	4175300.50	200.31368	(05011817)
631650.63	4175400.50	234.09918	(08071406)	631650.63	4175500.50	429.00152	(08031018)
631650.63	4175600.50	803.98461	(05110817)	631650.63	4175700.50	918.65990	(07090902)
631650.63	4175800.50	695.44892	(06052306)	631650.63	4175900.50	347.93069	(06062806)
631650.63	4176000.50	245.17998	(06081406)	631650.63	4176100.50	192.58099	(07102901)
631750.63	4175100.50	151.39626	(08071406)	631750.63	4175200.50	159.14359	(08071406)
631750.63	4175300.50	194.38028	(08031018)	631750.63	4175400.50	253.66924	(04082919)
631750.63	4175500.50	319.25268	(05011417)	631750.63	4175600.50	501.91691	(08110218)
631750.63	4175700.50	720.20179	(07102804)	631750.63	4175800.50	485.83757	(06111908)
631750.63	4175900.50	352.90889	(06052306)	631750.63	4176000.50	272.22108	(06062806)
631750.63	4176100.50	195.98596	(08062724)	631850.63	4175100.50	148.77297	(08090903)
631850.63	4175200.50	171.43379	(06052001)	631850.63	4175300.50	196.08558	(04081924)
631850.63	4175400.50	246.07949	(05051824)	631850.63	4175500.50	296.88943	(08022004)
631850.63	4175600.50	392.04926	(04081304)	631850.63	4175700.50	539.87762	(07102804)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK7 ***
INCLUDING SOURCE(S): STCK7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	370.77268	(04041919)	631850.63	4175900.50	323.28266	(07112517)
631850.63	4176000.50	265.03715	(06052306)	631850.63	4176100.50	213.86856	(06062806)
631950.63	4175100.50	154.02871	(06052001)	631950.63	4175200.50	167.33966	(08090905)
631950.63	4175300.50	207.67628	(08090519)	631950.63	4175400.50	261.72842	(07102905)
631950.63	4175500.50	307.83634	(06052002)	631950.63	4175600.50	323.61996	(06091119)
631950.63	4175700.50	418.73245	(07102804)	631950.63	4175800.50	329.12335	(05080806)
631950.63	4175900.50	284.31790	(06102818)	631950.63	4176000.50	262.88258	(07092306)
631950.63	4176100.50	215.46242	(06052306)	632050.63	4175100.50	146.44060	(05011317)
632050.63	4175200.50	178.05268	(05011417)	632050.63	4175300.50	207.68751	(07102905)
632050.63	4175400.50	227.52365	(08021718)	632050.63	4175500.50	263.22994	(07080303)
632050.63	4175600.50	264.30611	(07062003)	632050.63	4175700.50	331.86855	(07102804)
632050.63	4175800.50	274.06021	(05080305)	632050.63	4175900.50	263.82378	(06111908)
632050.63	4176000.50	244.80897	(05072806)	632050.63	4176100.50	186.86664	(07092306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***
INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	188.67474	(05011317)	632304.44	4174354.52	86.70458	(08031018)
632192.15	4174956.32	174.60715	(05011417)	632420.62	4175510.15	175.62350	(05121217)
632418.97	4175552.92	186.60251	(05011522)	631187.00	4175727.00	457.33068	(05072902)
631166.00	4175729.00	509.83770	(05111617)	631121.00	4175719.00	342.08790	(06011217)
631035.00	4174830.00	127.95659	(06011109)	631106.00	4174825.00	113.54416	(04101605)
631937.00	4174528.00	110.47555	(05011817)	631322.00	4174522.00	85.55443	(08081805)
629800.63	4173850.44	11.06252	(06041020)	630150.63	4173850.44	20.88032	(06011109)
630500.63	4173850.44	41.85345	(06011109)	630850.63	4173850.44	50.69449	(06102817)
631200.63	4173850.44	42.83045	(08081805)	631550.63	4173850.44	46.26109	(07030618)
631900.63	4173850.44	42.12402	(07020623)	632250.63	4173850.44	55.65845	(08071406)
632600.63	4173850.44	52.22798	(05020818)	632950.63	4173850.44	47.96667	(05011520)
633300.63	4173850.44	39.32390	(05021018)	629800.63	4174200.44	21.89251	(07031618)
630150.63	4174200.44	38.14671	(04012317)	630500.63	4174200.44	62.23971	(06011109)
630850.63	4174200.44	56.79018	(05030118)	631200.63	4174200.44	62.52877	(07100818)
631550.63	4174200.44	65.49006	(07030618)	631900.63	4174200.44	72.72579	(05021804)
632250.63	4174200.44	69.47920	(04122822)	632600.63	4174200.44	74.25393	(05011520)
632950.63	4174200.44	59.00686	(05021018)	633300.63	4174200.44	47.00190	(06011617)
629800.63	4174550.44	48.16234	(06120217)	630150.63	4174550.44	50.67031	(04101819)
630500.63	4174550.44	83.01487	(04012317)	630850.63	4174550.44	105.35565	(06011109)
631200.63	4174550.44	93.22031	(06102817)	631550.63	4174550.44	87.55140	(05110722)
631900.63	4174550.44	113.25437	(05011817)	632250.63	4174550.44	111.24823	(08031018)
632600.63	4174550.44	92.10807	(05021018)	632950.63	4174550.44	87.66114	(06011617)
633300.63	4174550.44	52.20170	(05020802)	629800.63	4174900.44	45.83712	(05122617)
630150.63	4174900.44	63.83140	(04022118)	630500.63	4174900.44	93.76370	(07020624)
630850.63	4174900.44	122.91201	(04012317)	631200.63	4174900.44	122.21749	(05030118)
631550.63	4174900.44	126.68763	(04102623)	631900.63	4174900.44	148.66706	(08090903)
632250.63	4174900.44	158.42577	(05011417)	632600.63	4174900.44	98.05767	(05020802)
632950.63	4174900.44	75.58743	(06120617)	633300.63	4174900.44	50.46753	(05021801)
629800.63	4175250.44	50.74634	(08012221)	630150.63	4175250.44	98.82559	(04022207)
630500.63	4175250.44	121.68364	(07101502)	630850.63	4175250.44	162.68528	(05030319)
631200.63	4175250.44	199.05735	(04012317)	631550.63	4175250.44	224.75119	(04102617)
631900.63	4175250.44	305.20723	(08090519)	632250.63	4175250.44	161.44174	(07111901)
632600.63	4175250.44	117.54104	(07010217)	632950.63	4175250.44	87.37242	(07020218)
633300.63	4175250.44	56.03731	(06011618)	629800.63	4175600.44	60.38944	(05122618)
630150.63	4175600.44	85.62573	(05122618)	630500.63	4175600.44	124.10800	(05122618)
630850.63	4175600.44	188.28761	(05030402)	631200.63	4175600.44	392.72958	(05030402)
631550.63	4175600.44	872.64904	(04042519)	631900.63	4175600.44	471.98729	(07102804)
632250.63	4175600.44	234.75114	(06011619)	632600.63	4175600.44	137.73563	(06011619)
632950.63	4175600.44	80.53219	(06011619)	633300.63	4175600.44	51.45561	(06011619)
629800.63	4175950.44	73.06315	(06011024)	630150.63	4175950.44	102.03350	(06011217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	140.35822	(04041820)	630850.63	4175950.44	192.38728	(06080604)
631200.63	4175950.44	251.56199	(04082205)	631550.63	4175950.44	203.47166	(06052305)
631900.63	4175950.44	190.46513	(06052306)	632250.63	4175950.44	154.71552	(06102818)
632600.63	4175950.44	112.85584	(05122401)	632950.63	4175950.44	75.86183	(08010924)
633300.63	4175950.44	48.27793	(05012018)	629800.63	4176300.44	74.28982	(07120622)
630150.63	4176300.44	90.78237	(05030322)	630500.63	4176300.44	128.01871	(04021520)
630850.63	4176300.44	137.25513	(04110906)	631200.63	4176300.44	152.21067	(07090905)
631550.63	4176300.44	117.72079	(06052305)	631900.63	4176300.44	120.58315	(08091905)
632250.63	4176300.44	108.14190	(06052306)	632600.63	4176300.44	83.00406	(08122903)
632950.63	4176300.44	63.97391	(04121024)	633300.63	4176300.44	49.07749	(06121503)
629800.63	4176650.44	67.01161	(06122121)	630150.63	4176650.44	70.61467	(04021520)
630500.63	4176650.44	95.66055	(04010518)	630850.63	4176650.44	102.22486	(07122917)
631200.63	4176650.44	102.64706	(05112506)	631550.63	4176650.44	86.91911	(06052305)
631900.63	4176650.44	83.75113	(06100919)	632250.63	4176650.44	93.94628	(06062806)
632600.63	4176650.44	69.92275	(08021908)	632950.63	4176650.44	61.16020	(08021808)
633300.63	4176650.44	43.11112	(05011818)	629800.63	4177000.44	49.40824	(04021521)
630150.63	4177000.44	66.20721	(04010518)	630500.63	4177000.44	78.11232	(04120908)
630850.63	4177000.44	83.82112	(04022021)	631200.63	4177000.44	76.76878	(07021108)
631550.63	4177000.44	63.22172	(05112507)	631900.63	4177000.44	64.22351	(04121819)
632250.63	4177000.44	61.05568	(06010520)	632600.63	4177000.44	70.33161	(06062806)
632950.63	4177000.44	49.87368	(08021908)	633300.63	4177000.44	38.15522	(08021808)
629800.63	4177350.44	44.23682	(04010518)	630150.63	4177350.44	51.91891	(04120908)
630500.63	4177350.44	54.97644	(08122718)	630850.63	4177350.44	67.08595	(08091907)
631200.63	4177350.44	57.72728	(06020107)	631550.63	4177350.44	51.85217	(07122904)
631900.63	4177350.44	51.63087	(07021206)	632250.63	4177350.44	48.21997	(06013004)
632600.63	4177350.44	44.18012	(06010521)	632950.63	4177350.44	45.61608	(06062806)
633300.63	4177350.44	35.62464	(08021908)	631670.70	4175493.59	630.24705	(04042519)
631669.80	4175641.41	618.54760	(04041919)	631665.32	4175796.39	344.68537	(06062806)
631417.17	4175826.85	157.28795	(04101820)	631417.17	4175673.66	680.19097	(04042519)
631422.55	4175484.63	207.70241	(07100818)	631268.42	4175983.74	260.54834	(04101820)
631275.69	4175523.99	703.71783	(06121422)	631345.65	4175419.50	392.40505	(05111717)
631384.72	4175441.30	245.49020	(05030118)	631491.93	4175442.21	369.82421	(07030618)
631491.93	4175414.95	324.91337	(07030618)	631385.63	4175413.14	339.71092	(08121017)
631358.37	4175395.87	328.59057	(08121017)	631409.25	4175336.81	246.03022	(06102817)
631567.35	4175235.96	223.73355	(04102617)	631756.33	4175028.80	174.75096	(08071406)
631807.22	4175003.36	150.11551	(08071406)	631867.18	4174987.91	173.45598	(08090903)
631849.92	4175988.28	181.60790	(06062806)	631268.74	4175963.75	427.23978	(04101820)
631269.05	4175943.76	419.64674	(04082205)	631269.37	4175923.77	280.43379	(07080103)
631269.68	4175903.78	274.35648	(05112504)	631270.00	4175883.79	298.15043	(07082502)
631270.32	4175863.81	315.61859	(07082502)	631270.63	4175843.82	319.74064	(07082502)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	347.07276	(04082001)	631271.26	4175803.84	367.14806	(04082001)
631271.58	4175783.85	369.58836	(04082001)	631271.90	4175763.86	365.24633	(06033021)
631272.21	4175743.87	395.60113	(06033021)	631272.53	4175723.88	403.20878	(06033021)
631272.85	4175703.89	396.46553	(08081602)	631273.16	4175683.90	393.37337	(06121423)
631273.48	4175663.91	462.90641	(06121423)	631273.79	4175643.92	488.97968	(05071702)
631274.11	4175623.94	487.60036	(05071702)	631274.43	4175603.95	488.74667	(05030402)
631274.74	4175583.96	519.66392	(05030402)	631275.06	4175563.97	531.72251	(06092418)
631275.37	4175543.98	771.58900	(08112618)	631285.68	4175509.06	653.60378	(07110617)
631295.68	4175494.14	626.78564	(07110617)	631305.67	4175479.21	562.45980	(07110617)
631315.67	4175464.28	501.04014	(05072102)	631325.66	4175449.35	478.06640	(05072102)
631335.66	4175434.43	429.12098	(05072102)	631358.67	4175426.77	395.05683	(05111717)
631371.70	4175434.03	367.98465	(04012317)	631402.59	4175441.45	177.39720	(07100818)
631420.46	4175441.60	245.00476	(07100818)	631438.33	4175441.76	293.78815	(06041020)
631456.19	4175441.91	353.34915	(05030118)	631474.06	4175442.06	374.14598	(06102817)
631491.93	4175428.58	346.44891	(07030618)	631474.21	4175414.65	296.55411	(06102817)
631456.50	4175414.35	320.11086	(06102817)	631438.78	4175414.05	312.97294	(06102817)
631421.06	4175413.74	296.67691	(05030118)	631403.35	4175413.44	318.03222	(04101605)
631372.00	4175404.51	334.42318	(08121017)	631371.09	4175381.11	311.11539	(08121017)
631383.81	4175366.34	279.80065	(04101605)	631396.53	4175351.58	257.30882	(04101605)
631425.06	4175326.73	245.54136	(06102817)	631440.87	4175316.64	227.35275	(06102817)
631456.68	4175306.56	204.20810	(06102817)	631472.49	4175296.47	173.66754	(07030618)
631488.30	4175286.39	251.44967	(08081805)	631504.11	4175276.30	238.06832	(08081805)
631519.92	4175266.22	218.63361	(08081805)	631535.73	4175256.13	215.91235	(07030618)
631551.54	4175246.05	223.12593	(04102617)	631579.95	4175222.15	217.56576	(08102618)
631592.55	4175208.34	221.88359	(08102618)	631605.15	4175194.53	223.22318	(08102618)
631617.74	4175180.72	221.57070	(08102618)	631630.34	4175166.91	217.55287	(08102618)
631642.94	4175153.10	211.25723	(08102618)	631655.54	4175139.29	203.35497	(08102618)
631668.14	4175125.47	194.05751	(08102618)	631680.74	4175111.66	188.75278	(05011817)
631693.34	4175097.85	187.73915	(05011817)	631705.94	4175084.04	186.38715	(05011817)
631718.53	4175070.23	183.91775	(05011817)	631731.13	4175056.42	181.32909	(08071406)
631743.73	4175042.61	178.46625	(08071406)	631773.29	4175020.32	168.73119	(08071406)
631790.26	4175011.84	160.30944	(08071406)	631822.21	4174999.50	154.80399	(08090903)
631837.20	4174995.64	163.27461	(08090903)	631852.19	4174991.77	169.61149	(08090903)
631866.84	4175007.53	179.88359	(08090903)	631866.50	4175027.14	184.29706	(08090903)
631866.16	4175046.76	191.51346	(08031018)	631865.83	4175066.37	208.26180	(06052001)
631865.49	4175085.99	226.86644	(06052001)	631865.15	4175105.60	241.49760	(06052001)
631864.81	4175125.22	250.42377	(06052001)	631864.47	4175144.83	254.36500	(05102618)
631864.13	4175164.45	263.40627	(04081924)	631863.80	4175184.06	269.59154	(04081924)
631863.46	4175203.68	269.90328	(08090905)	631863.12	4175223.29	272.87655	(05011317)
631862.78	4175242.91	287.91882	(05051824)	631862.44	4175262.52	311.17507	(05051824)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	327.69253	(08090519)	631861.77	4175301.75	324.89211	(06072902)
631861.43	4175321.37	331.92713	(05110817)	631861.09	4175340.98	344.20702	(05110817)
631860.75	4175360.60	351.32007	(04042519)	631860.41	4175380.21	328.03132	(04042519)
631860.07	4175399.83	318.48362	(08021718)	631859.73	4175419.44	336.73020	(07111901)
631859.40	4175439.06	338.45786	(07111901)	631859.06	4175458.67	310.37994	(06092719)
631858.72	4175478.29	320.09291	(06111919)	631858.38	4175497.90	424.31359	(06111919)
631858.04	4175517.52	452.77548	(06091119)	631857.70	4175537.13	450.91096	(07062003)
631857.37	4175556.75	451.62466	(07102822)	631857.03	4175576.36	532.42539	(07102822)
631856.69	4175595.98	529.84033	(06111521)	631856.35	4175615.59	522.84493	(08112505)
631856.01	4175635.21	499.35507	(04081403)	631855.67	4175654.82	353.16219	(04081303)
631855.33	4175674.44	335.65785	(08112619)	631855.00	4175694.05	345.58301	(07092305)
631854.66	4175713.67	353.74994	(06111908)	631854.32	4175733.28	359.88202	(06111908)
631853.98	4175752.90	333.68784	(06102818)	631853.64	4175772.51	305.01984	(06102818)
631853.30	4175792.13	260.24602	(05072806)	631852.97	4175811.74	248.46540	(07112517)
631852.63	4175831.36	242.06964	(07092306)	631852.29	4175850.97	227.80926	(07092306)
631851.95	4175870.59	219.75616	(06052306)	631851.61	4175890.20	218.02877	(06052306)
631851.27	4175909.82	209.64019	(06052306)	631850.94	4175929.43	195.83083	(06052306)
631850.60	4175949.05	187.19468	(06110304)	631850.26	4175968.66	177.23414	(06062806)
631830.54	4175988.13	190.62949	(06062806)	631811.15	4175987.98	195.22477	(06062806)
631791.77	4175987.83	194.87301	(06062806)	631772.39	4175987.67	189.04862	(06062806)
631753.00	4175987.52	180.67361	(04050604)	631733.62	4175987.37	183.86106	(08091905)
631714.24	4175987.22	187.63812	(06081406)	631694.85	4175987.07	190.87201	(06081406)
631675.47	4175986.92	189.12140	(08112520)	631656.09	4175986.77	205.21030	(08112520)
631636.70	4175986.62	214.82555	(08112520)	631617.32	4175986.46	221.30485	(05072006)
631597.94	4175986.31	223.68967	(05072006)	631578.55	4175986.16	221.20297	(04111519)
631559.17	4175986.01	218.46287	(04111519)	631539.79	4175985.86	207.32864	(04111519)
631520.40	4175985.71	192.58590	(04111019)	631501.02	4175985.56	227.20891	(07030418)
631481.64	4175985.40	242.34803	(07030418)	631462.25	4175985.25	248.04667	(07030418)
631442.87	4175985.10	276.57852	(05112506)	631423.49	4175984.95	299.46286	(05112506)
631404.10	4175984.80	311.01573	(05112506)	631384.72	4175984.65	334.21721	(07090905)
631365.34	4175984.50	364.83686	(07090905)	631345.95	4175984.35	381.53611	(07090905)
631326.57	4175984.19	383.13406	(07090905)	631307.19	4175984.04	373.86087	(04083005)
631287.80	4175983.89	346.69906	(04101820)	631050.63	4175100.50	153.91934	(04012317)
631050.63	4175200.50	170.82210	(05111717)	631050.63	4175300.50	202.18122	(05072102)
631050.63	4175400.50	245.17160	(07110617)	631050.63	4175500.50	288.67262	(05030401)
631050.63	4175600.50	264.02612	(05030402)	631050.63	4175700.50	296.41600	(06121423)
631050.63	4175800.50	271.24603	(08081602)	631050.63	4175900.50	237.28103	(04082001)
631050.63	4176000.50	206.64854	(07080103)	631050.63	4176100.50	175.76436	(04110906)
631150.63	4175100.50	151.17367	(08121017)	631150.63	4175200.50	180.08382	(04012317)
631150.63	4175300.50	201.53426	(08081806)	631150.63	4175400.50	245.35731	(05030319)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	324.81654	(06121422)	631150.63	4175600.50	337.89705	(05030402)
631150.63	4175700.50	409.10368	(06011217)	631150.63	4175800.50	342.86698	(07080103)
631150.63	4175900.50	269.76551	(07080103)	631150.63	4176000.50	216.01272	(04110906)
631150.63	4176100.50	192.48647	(04101820)	631250.63	4175100.50	155.77123	(04101605)
631250.63	4175200.50	187.28370	(06011109)	631250.63	4175300.50	222.01714	(04012317)
631250.63	4175400.50	287.80970	(05072102)	631250.63	4175500.50	563.29637	(07110617)
631250.63	4175600.50	473.06001	(05030402)	631250.63	4175700.50	422.20524	(05111617)
631250.63	4175800.50	398.41509	(04082001)	631250.63	4175900.50	314.70058	(05122621)
631250.63	4176000.50	243.93439	(04101820)	631250.63	4176100.50	190.75838	(07090905)
631350.63	4175100.50	166.09704	(06102817)	631350.63	4175200.50	188.89999	(06102817)
631350.63	4175300.50	224.18671	(06011109)	631350.63	4175400.50	348.86833	(05111717)
631350.63	4175500.50	286.83529	(07110617)	631350.63	4175600.50	568.69889	(05030320)
631350.63	4175700.50	384.67913	(08021718)	631350.63	4175800.50	238.58215	(04082919)
631350.63	4175900.50	219.74086	(04101820)	631350.63	4176000.50	367.00165	(07090905)
631350.63	4176100.50	192.08041	(07071003)	631450.63	4175100.50	152.52957	(08081805)
631450.63	4175200.50	179.35229	(08081805)	631450.63	4175300.50	206.86108	(06102817)
631450.63	4175400.50	302.28933	(06102817)	631450.63	4175500.50	132.77171	(05050803)
631450.63	4175600.50	1037.95085	(05071702)	631450.63	4175700.50	524.53942	(04082919)
631450.63	4175800.50	218.20862	(04111019)	631450.63	4175900.50	293.40830	(05042719)
631450.63	4176000.50	252.63389	(05112506)	631450.63	4176100.50	183.61993	(07030418)
631550.63	4175100.50	165.19944	(04102617)	631550.63	4175200.50	201.90520	(04102617)
631550.63	4175300.50	251.34803	(04102617)	631550.63	4175400.50	329.93868	(08102618)
631550.63	4175500.50	547.94541	(06052001)	631550.63	4175600.50	871.45395	(04042519)
631550.63	4175700.50	644.80438	(07102901)	631550.63	4175800.50	285.38572	(07030418)
631550.63	4175900.50	208.92677	(04020106)	631550.63	4176000.50	209.78227	(04111519)
631550.63	4176100.50	148.93554	(04111519)	631650.63	4175100.50	194.67660	(08102618)
631650.63	4175200.50	220.63901	(05011817)	631650.63	4175300.50	267.07195	(08071406)
631650.63	4175400.50	463.01685	(04082919)	631650.63	4175500.50	684.55768	(05110817)
631650.63	4175600.50	915.70624	(07090902)	631650.63	4175700.50	650.25175	(07092306)
631650.63	4175800.50	345.96624	(06062806)	631650.63	4175900.50	228.32328	(05082502)
631650.63	4176000.50	204.72287	(08112520)	631650.63	4176100.50	154.75298	(06080603)
631750.63	4175100.50	177.08766	(08071406)	631750.63	4175200.50	231.76261	(08090903)
631750.63	4175300.50	359.72196	(04082919)	631750.63	4175400.50	443.80530	(05011417)
631750.63	4175500.50	434.65858	(07111901)	631750.63	4175600.50	717.60475	(07102804)
631750.63	4175700.50	461.84039	(06111908)	631750.63	4175800.50	280.50765	(06052306)
631750.63	4175900.50	228.59411	(06062806)	631750.63	4176000.50	178.06354	(04050604)
631750.63	4176100.50	157.24916	(06081406)	631850.63	4175100.50	228.08393	(06052001)
631850.63	4175200.50	276.58995	(04081924)	631850.63	4175300.50	335.43930	(08090519)
631850.63	4175400.50	324.14860	(08022004)	631850.63	4175500.50	433.42621	(06111919)
631850.63	4175600.50	538.30270	(07102804)	631850.63	4175700.50	349.18007	(04041919)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK8 ***

INCLUDING SOURCE(S): STCK8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	254.78805	(05072806)	631850.63	4175900.50	214.45945	(06052306)
631850.63	4176000.50	182.34591	(06062806)	631850.63	4176100.50	155.37339	(06062806)
631950.63	4175100.50	227.95244	(08090905)	631950.63	4175200.50	277.14974	(08090519)
631950.63	4175300.50	298.52632	(04042519)	631950.63	4175400.50	273.97932	(07111901)
631950.63	4175500.50	372.16906	(06091119)	631950.63	4175600.50	417.95087	(07102804)
631950.63	4175700.50	286.35887	(08112619)	631950.63	4175800.50	281.13842	(06102818)
631950.63	4175900.50	205.32046	(07092306)	631950.63	4176000.50	172.40793	(06052306)
631950.63	4176100.50	148.37660	(06062806)	632050.63	4175100.50	230.13634	(05011417)
632050.63	4175200.50	253.41063	(05110817)	632050.63	4175300.50	229.36009	(08021718)
632050.63	4175400.50	208.33776	(06112002)	632050.63	4175500.50	298.59152	(07062003)
632050.63	4175600.50	330.84843	(07102804)	632050.63	4175700.50	228.91961	(05080305)
632050.63	4175800.50	258.04486	(06111908)	632050.63	4175900.50	191.27015	(05072806)
632050.63	4176000.50	159.05039	(07092306)	632050.63	4176100.50	147.74024	(06052306)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	174.83985	(08030618)	632304.44	4174354.52	100.72881	(08031018)
632192.15	4174956.32	162.34924	(05102601)	632420.62	4175510.15	185.38036	(06011619)
632418.97	4175552.92	182.82826	(04042619)	631187.00	4175727.00	213.84573	(05050806)
631166.00	4175729.00	218.70774	(05081503)	631121.00	4175719.00	337.63108	(05081503)
631035.00	4174830.00	142.87223	(08121017)	631106.00	4174825.00	160.28434	(06011109)
631937.00	4174528.00	137.81114	(08071406)	631322.00	4174522.00	93.28466	(08081805)
629800.63	4173850.44	14.08084	(06041020)	630150.63	4173850.44	25.50133	(04012317)
630500.63	4173850.44	59.33730	(06011109)	630850.63	4173850.44	60.04857	(06102817)
631200.63	4173850.44	45.49914	(08081805)	631550.63	4173850.44	48.56264	(07030618)
631900.63	4173850.44	50.04758	(07020623)	632250.63	4173850.44	60.28341	(06020105)
632600.63	4173850.44	54.96654	(08031018)	632950.63	4173850.44	46.94727	(04022018)
633300.63	4173850.44	38.66380	(05021018)	629800.63	4174200.44	20.38888	(08081806)
630150.63	4174200.44	36.30323	(06041020)	630500.63	4174200.44	60.20761	(04012317)
630850.63	4174200.44	68.06874	(04101605)	631200.63	4174200.44	68.43250	(07100818)
631550.63	4174200.44	69.14939	(07030618)	631900.63	4174200.44	98.31323	(05021804)

632250.63	4174200.44	90.50043	(04122822)	632600.63	4174200.44	69.51640	(05011520)
632950.63	4174200.44	57.00977	(08030618)	633300.63	4174200.44	57.79883	(06011617)
629800.63	4174550.44	40.70546	(06120217)	630150.63	4174550.44	54.06684	(07020624)
630500.63	4174550.44	71.33245	(06041020)	630850.63	4174550.44	109.41276	(06011109)
631200.63	4174550.44	119.77126	(06102817)	631550.63	4174550.44	95.89715	(04102623)
631900.63	4174550.44	148.08596	(05011817)	632250.63	4174550.44	116.10348	(05011520)
632600.63	4174550.44	90.85307	(08030618)	632950.63	4174550.44	71.63809	(06011617)
633300.63	4174550.44	58.09520	(06120617)	629800.63	4174900.44	43.59402	(04022208)
630150.63	4174900.44	65.73502	(06121217)	630500.63	4174900.44	89.92361	(06120217)
630850.63	4174900.44	113.94426	(06041020)	631200.63	4174900.44	155.91655	(04101605)
631550.63	4174900.44	168.02540	(04102623)	631900.63	4174900.44	206.78279	(08031018)
632250.63	4174900.44	145.64563	(05102601)	632600.63	4174900.44	128.33975	(06120617)
632950.63	4174900.44	90.33499	(05021801)	633300.63	4174900.44	65.86134	(07010217)
629800.63	4175250.44	57.27147	(06051906)	630150.63	4175250.44	81.39966	(08012221)
630500.63	4175250.44	108.61549	(04022207)	630850.63	4175250.44	165.74466	(07110617)
631200.63	4175250.44	202.55628	(08081806)	631550.63	4175250.44	387.34863	(04102617)
631900.63	4175250.44	336.50877	(07110823)	632250.63	4175250.44	220.89829	(07010217)
632600.63	4175250.44	141.27477	(07020218)	632950.63	4175250.44	87.52594	(06011618)
633300.63	4175250.44	56.92610	(05122223)	629800.63	4175600.44	63.87422	(05122618)
630150.63	4175600.44	83.82168	(05122618)	630500.63	4175600.44	130.77111	(05030320)
630850.63	4175600.44	213.98936	(05071702)	631200.63	4175600.44	300.57687	(06121423)
631550.63	4175600.44	279.70500	(06102218)	631900.63	4175600.44	264.69733	(06081403)
632250.63	4175600.44	178.92342	(04042619)	632600.63	4175600.44	127.97306	(04042619)
632950.63	4175600.44	77.88030	(07011518)	633300.63	4175600.44	50.78013	(07011518)
629800.63	4175950.44	61.70798	(06011217)	630150.63	4175950.44	80.20850	(06011217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	104.60073	(08081602)	630850.63	4175950.44	148.93847	(05081503)
631200.63	4175950.44	241.42264	(04101820)	631550.63	4175950.44	184.19734	(06052305)
631900.63	4175950.44	184.35583	(06062806)	632250.63	4175950.44	114.50069	(05072806)
632600.63	4175950.44	83.29827	(05020719)	632950.63	4175950.44	64.39297	(05122401)
633300.63	4175950.44	46.01619	(08010924)	629800.63	4176300.44	53.29797	(07120622)
630150.63	4176300.44	65.65535	(06122121)	630500.63	4176300.44	103.70155	(07102703)
630850.63	4176300.44	135.17108	(06110118)	631200.63	4176300.44	155.28156	(08091907)
631550.63	4176300.44	111.33443	(06052305)	631900.63	4176300.44	121.29924	(06081406)
632250.63	4176300.44	108.81339	(04101619)	632600.63	4176300.44	77.44871	(08021808)
632950.63	4176300.44	57.69657	(04121022)	633300.63	4176300.44	43.65832	(04011021)
629800.63	4176650.44	49.36649	(04021520)	630150.63	4176650.44	75.06986	(04021521)
630500.63	4176650.44	103.44995	(04120903)	630850.63	4176650.44	109.52134	(06041021)
631200.63	4176650.44	113.64845	(06033022)	631550.63	4176650.44	83.50580	(06052305)
631900.63	4176650.44	96.76319	(07091007)	632250.63	4176650.44	79.50293	(08102318)

632600.63	4176650.44	72.06470	(05010604)	632950.63	4176650.44	50.96613	(08121517)
633300.63	4176650.44	39.31817	(08122903)	629800.63	4177000.44	51.60775	(04021521)
630150.63	4177000.44	70.22706	(04120903)	630500.63	4177000.44	82.47085	(07012719)
630850.63	4177000.44	90.96222	(04022021)	631200.63	4177000.44	90.53363	(07021108)
631550.63	4177000.44	63.68508	(05112507)	631900.63	4177000.44	63.65474	(05031519)
632250.63	4177000.44	66.12386	(06122319)	632600.63	4177000.44	73.64513	(06062806)
632950.63	4177000.44	52.60658	(05010604)	633300.63	4177000.44	34.83083	(07021220)
629800.63	4177350.44	44.65730	(04120903)	630150.63	4177350.44	55.11958	(04120908)
630500.63	4177350.44	62.80528	(08122718)	630850.63	4177350.44	67.37477	(08091907)
631200.63	4177350.44	64.87589	(06021703)	631550.63	4177350.44	52.22001	(07122904)
631900.63	4177350.44	53.47492	(05122402)	632250.63	4177350.44	52.11051	(05021722)
632600.63	4177350.44	50.13259	(06010522)	632950.63	4177350.44	58.66915	(06062806)
633300.63	4177350.44	36.80042	(05021219)	631670.70	4175493.59	895.59545	(05072901)
631669.80	4175641.41	338.17055	(06110304)	631665.32	4175796.39	120.15164	(06081406)
631417.17	4175826.85	137.48921	(04022021)	631417.17	4175673.66	294.13309	(08090903)
631422.55	4175484.63	788.86191	(06121423)	631268.42	4175983.74	251.78022	(07090905)
631275.69	4175523.99	450.66564	(05030402)	631345.65	4175419.50	376.63234	(06121422)
631384.72	4175441.30	481.26291	(07110902)	631491.93	4175442.21	505.14678	(05111717)
631491.93	4175414.95	434.99787	(07030618)	631385.63	4175413.14	427.37991	(07110617)
631358.37	4175395.87	518.03447	(06041020)	631409.25	4175336.81	433.01275	(08121017)
631567.35	4175235.96	373.52336	(04102617)	631756.33	4175028.80	223.88226	(06051924)
631807.22	4175003.36	226.06614	(08090903)	631867.18	4174987.91	240.98010	(08031018)
631849.92	4175988.28	177.02935	(06062806)	631268.74	4175963.75	373.89148	(04083005)
631269.05	4175943.76	247.87001	(08122718)	631269.37	4175923.77	253.17728	(06041021)
631269.68	4175903.78	256.17129	(07122917)	631270.00	4175883.79	267.48632	(04081204)
631270.32	4175863.81	266.27926	(04081204)	631270.63	4175843.82	258.63306	(06041524)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***
INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	249.55676	(04120908)	631271.26	4175803.84	237.55515	(04121223)
631271.58	4175783.85	233.11718	(04120903)	631271.90	4175763.86	223.48998	(04010518)
631272.21	4175743.87	211.36178	(04010518)	631272.53	4175723.88	207.04407	(04082001)
631272.85	4175703.89	229.20999	(04082001)	631273.16	4175683.90	245.01718	(04082001)
631273.48	4175663.91	252.33872	(04082001)	631273.79	4175643.92	285.89437	(07102702)
631274.11	4175623.94	351.81224	(06080604)	631274.43	4175603.95	377.35663	(05061703)
631274.74	4175583.96	355.41368	(06121423)	631275.06	4175563.97	400.72393	(06121423)
631275.37	4175543.98	418.45615	(05071702)	631285.68	4175509.06	504.72370	(05030402)
631295.68	4175494.14	531.59126	(05030402)	631305.67	4175479.21	561.81332	(06092418)
631315.67	4175464.28	565.19583	(06092418)	631325.66	4175449.35	415.75038	(07110617)
631335.66	4175434.43	434.18413	(07110617)	631358.67	4175426.77	420.41816	(06121422)
631371.70	4175434.03	465.55565	(05030401)	631402.59	4175441.45	516.96532	(04041821)
631420.46	4175441.60	518.23522	(04041821)	631438.33	4175441.76	601.01430	(05030319)

631456.19	4175441.91	682.86140	(05072102)	631474.06	4175442.06	667.03824	(05111717)
631491.93	4175428.58	435.73394	(07030618)	631474.21	4175414.65	434.12293	(05111717)
631456.50	4175414.35	486.85444	(05111717)	631438.78	4175414.05	486.17186	(05111717)
631421.06	4175413.74	481.46935	(05072102)	631403.35	4175413.44	444.57974	(06051905)
631372.00	4175404.51	381.41523	(07110617)	631371.09	4175381.11	496.14784	(08121017)
631383.81	4175366.34	456.94862	(06011109)	631396.53	4175351.58	479.25054	(04101605)
631425.06	4175326.73	431.17865	(05030118)	631440.87	4175316.64	444.38254	(06102817)
631456.68	4175306.56	277.85238	(04101605)	631472.49	4175296.47	225.66162	(04101605)
631488.30	4175286.39	338.13447	(08081805)	631504.11	4175276.30	322.99441	(08081805)
631519.92	4175266.22	327.47897	(04102623)	631535.73	4175256.13	364.91294	(04102617)
631551.54	4175246.05	382.94037	(04102617)	631579.95	4175222.15	363.24003	(08102618)
631592.55	4175208.34	361.95388	(08102618)	631605.15	4175194.53	349.41914	(08102618)
631617.74	4175180.72	335.00272	(05011817)	631630.34	4175166.91	341.46442	(05011817)
631642.94	4175153.10	341.09693	(05011817)	631655.54	4175139.29	334.59165	(05011817)
631668.14	4175125.47	322.59363	(05011817)	631680.74	4175111.66	310.60837	(08071406)
631693.34	4175097.85	297.20318	(08071406)	631705.94	4175084.04	282.17404	(08071406)
631718.53	4175070.23	265.56830	(08071406)	631731.13	4175056.42	248.31594	(08071406)
631743.73	4175042.61	233.90707	(06051924)	631773.29	4175020.32	217.05795	(08090903)
631790.26	4175011.84	223.93060	(08090903)	631822.21	4174999.50	228.33311	(08031018)
631837.20	4174995.64	237.71016	(08031018)	631852.19	4174991.77	242.14412	(08031018)
631866.84	4175007.53	242.60801	(08031018)	631866.50	4175027.14	238.20181	(08031018)
631866.16	4175046.76	228.38762	(08031018)	631865.83	4175066.37	229.72729	(08081804)
631865.49	4175085.99	233.68360	(08081804)	631865.15	4175105.60	241.40593	(08090902)
631864.81	4175125.22	247.30974	(08090906)	631864.47	4175144.83	272.68257	(08090906)
631864.13	4175164.45	280.00742	(08090906)	631863.80	4175184.06	280.71269	(08090519)
631863.46	4175203.68	290.09475	(06111018)	631863.12	4175223.29	294.08265	(05110817)
631862.78	4175242.91	334.19460	(05102522)	631862.44	4175262.52	358.89736	(05102522)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	365.96790	(07110823)	631861.77	4175301.75	370.70038	(07062004)
631861.43	4175321.37	375.41480	(05102524)	631861.09	4175340.98	426.19668	(06092719)
631860.75	4175360.60	423.13933	(06092719)	631860.41	4175380.21	435.62678	(06112002)
631860.07	4175399.83	463.51714	(06111919)	631859.73	4175419.44	489.78346	(06091119)
631859.40	4175439.06	481.76358	(07062003)	631859.06	4175458.67	467.64745	(05112418)
631858.72	4175478.29	528.72700	(07102822)	631858.38	4175497.90	525.56617	(07102804)
631858.04	4175517.52	521.07892	(08112505)	631857.70	4175537.13	488.06515	(04081403)
631857.37	4175556.75	340.42599	(08021518)	631857.03	4175576.36	308.25017	(07102907)
631856.69	4175595.98	282.93633	(08040222)	631856.35	4175615.59	257.20146	(06111908)
631856.01	4175635.21	257.87945	(06111908)	631855.67	4175654.82	243.10403	(06111908)
631855.33	4175674.44	229.15960	(06102818)	631855.00	4175694.05	222.94619	(05072806)
631854.66	4175713.67	213.77257	(07112517)	631854.32	4175733.28	208.51720	(07092306)

631853.98	4175752.90	198.94534	(07092306)	631853.64	4175772.51	199.66219	(06052306)
631853.30	4175792.13	198.63913	(06052306)	631852.97	4175811.74	192.49697	(06052306)
631852.63	4175831.36	182.03600	(06052306)	631852.29	4175850.97	179.33782	(04101619)
631851.95	4175870.59	180.06749	(04101619)	631851.61	4175890.20	178.65178	(04082204)
631851.27	4175909.82	307.72691	(04082204)	631850.94	4175929.43	254.83503	(08103007)
631850.60	4175949.05	197.69724	(06062806)	631850.26	4175968.66	188.05155	(06062806)
631830.54	4175988.13	175.99908	(08102318)	631811.15	4175987.98	179.60987	(04050604)
631791.77	4175987.83	184.60209	(08091905)	631772.39	4175987.67	229.69283	(06081406)
631753.00	4175987.52	270.40919	(06081406)	631733.62	4175987.37	272.33474	(06081406)
631714.24	4175987.22	260.24827	(06081406)	631694.85	4175987.07	244.65583	(07102901)
631675.47	4175986.92	278.80111	(07091007)	631656.09	4175986.77	281.53435	(07091007)
631636.70	4175986.62	278.54246	(07091007)	631617.32	4175986.46	269.74381	(07091007)
631597.94	4175986.31	255.60931	(07091007)	631578.55	4175986.16	236.89423	(07091007)
631559.17	4175986.01	208.91177	(04111519)	631539.79	4175985.86	195.62233	(04111519)
631520.40	4175985.71	176.66608	(04111519)	631501.02	4175985.56	220.32131	(07030418)
631481.64	4175985.40	241.14347	(07030418)	631462.25	4175985.25	254.01498	(07030418)
631442.87	4175985.10	265.76718	(05112506)	631423.49	4175984.95	298.85201	(05112506)
631404.10	4175984.80	322.25716	(05112506)	631384.72	4175984.65	325.94129	(04083006)
631365.34	4175984.50	334.92380	(07071003)	631345.95	4175984.35	332.15064	(05112503)
631326.57	4175984.19	356.98271	(07090905)	631307.19	4175984.04	357.99927	(06102618)
631287.80	4175983.89	324.92517	(07110903)	631050.63	4175100.50	152.43139	(05111717)
631050.63	4175200.50	176.00981	(05072102)	631050.63	4175300.50	202.35956	(07110617)
631050.63	4175400.50	247.75572	(05030401)	631050.63	4175500.50	257.55361	(06072903)
631050.63	4175600.50	262.60713	(06121423)	631050.63	4175700.50	200.69034	(08081602)
631050.63	4175800.50	203.44649	(05081503)	631050.63	4175900.50	191.52059	(07080103)
631050.63	4176000.50	188.01090	(04110906)	631050.63	4176100.50	174.16328	(07092301)
631150.63	4175100.50	202.74676	(04012317)	631150.63	4175200.50	179.00674	(08081806)
631150.63	4175300.50	207.82345	(06051905)	631150.63	4175400.50	272.05060	(06121422)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***

INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	314.36241	(06072903)	631150.63	4175600.50	290.15368	(06121423)
631150.63	4175700.50	212.15566	(06033021)	631150.63	4175800.50	396.74820	(07082502)
631150.63	4175900.50	243.82663	(04110906)	631150.63	4176000.50	209.43657	(04101820)
631150.63	4176100.50	183.61764	(04083005)	631250.63	4175100.50	208.82702	(06011109)
631250.63	4175200.50	252.43538	(04012317)	631250.63	4175300.50	239.88614	(05072102)
631250.63	4175400.50	316.59917	(07110617)	631250.63	4175500.50	433.52096	(05030402)
631250.63	4175600.50	299.48447	(06121423)	631250.63	4175700.50	229.96523	(04082001)
631250.63	4175800.50	245.81554	(04120903)	631250.63	4175900.50	275.52939	(04081204)
631250.63	4176000.50	224.18329	(07090905)	631250.63	4176100.50	191.41121	(07090905)
631350.63	4175100.50	197.89984	(06102817)	631350.63	4175200.50	260.66878	(06011109)
631350.63	4175300.50	336.09550	(04012317)	631350.63	4175400.50	462.58784	(06041020)

631350.63	4175500.50	502.09016	(05030320)	631350.63	4175600.50	583.14895	(06033021)
631350.63	4175700.50	161.29004	(04120903)	631350.63	4175800.50	187.02876	(08122718)
631350.63	4175900.50	218.63773	(07102801)	631350.63	4176000.50	311.73969	(07071003)
631350.63	4176100.50	192.93349	(05112506)	631450.63	4175100.50	183.21696	(08081805)
631450.63	4175200.50	231.75834	(06102817)	631450.63	4175300.50	438.63842	(06102817)
631450.63	4175400.50	455.13010	(04012317)	631450.63	4175500.50	837.45861	(05071702)
631450.63	4175600.50	465.80307	(08031018)	631450.63	4175700.50	319.43885	(05011817)
631450.63	4175800.50	209.62897	(04111019)	631450.63	4175900.50	277.83745	(07102902)
631450.63	4176000.50	252.81253	(07030418)	631450.63	4176100.50	186.61654	(07030418)
631550.63	4175100.50	249.16958	(04102617)	631550.63	4175200.50	331.54770	(04102617)
631550.63	4175300.50	453.91537	(04102617)	631550.63	4175400.50	701.75417	(05011817)
631550.63	4175500.50	663.16599	(08060519)	631550.63	4175600.50	279.94286	(06102218)
631550.63	4175700.50	328.06341	(07030418)	631550.63	4175800.50	237.50556	(07030418)
631550.63	4175900.50	192.02341	(05020318)	631550.63	4176000.50	199.80574	(04111519)
631550.63	4176100.50	138.50700	(04111519)	631650.63	4175100.50	288.41607	(05011817)
631650.63	4175200.50	375.05325	(08071406)	631650.63	4175300.50	483.18624	(08031018)
631650.63	4175400.50	601.39989	(05102522)	631650.63	4175500.50	914.58432	(07090902)
631650.63	4175600.50	427.22869	(06052306)	631650.63	4175700.50	235.71789	(06110304)
631650.63	4175800.50	118.82293	(06081406)	631650.63	4175900.50	113.47144	(06081406)
631650.63	4176000.50	277.48082	(07091007)	631650.63	4176100.50	199.63905	(07091007)
631750.63	4175100.50	271.64287	(08090903)	631750.63	4175200.50	319.41854	(08031018)
631750.63	4175300.50	386.24938	(08090519)	631750.63	4175400.50	590.21596	(06092719)
631750.63	4175500.50	716.21313	(07102804)	631750.63	4175600.50	333.44204	(06111908)
631750.63	4175700.50	250.55429	(06052306)	631750.63	4175800.50	175.16175	(06110304)
631750.63	4175900.50	148.28148	(08040220)	631750.63	4176000.50	220.72708	(06081406)
631750.63	4176100.50	186.48536	(07091007)	631850.63	4175100.50	241.82714	(08081804)
631850.63	4175200.50	289.46150	(08090519)	631850.63	4175300.50	380.44313	(07062004)
631850.63	4175400.50	467.08086	(06111919)	631850.63	4175500.50	537.56289	(07102804)
631850.63	4175600.50	277.00494	(08010919)	631850.63	4175700.50	220.98303	(05072806)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK9 ***
INCLUDING SOURCE(S): STCK9 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	196.91650	(06052306)	631850.63	4175900.50	266.19190	(07020318)
631850.63	4176000.50	170.35151	(08102318)	631850.63	4176100.50	146.94990	(08091905)
631950.63	4175100.50	230.14726	(05011417)	631950.63	4175200.50	300.29376	(05102522)
631950.63	4175300.50	351.95015	(06092719)	631950.63	4175400.50	396.37974	(06091119)
631950.63	4175500.50	416.84516	(07102804)	631950.63	4175600.50	245.83560	(05080806)
631950.63	4175700.50	202.13046	(06102818)	631950.63	4175800.50	174.36551	(07092306)
631950.63	4175900.50	168.33740	(07020318)	631950.63	4176000.50	164.53034	(06062806)
631950.63	4176100.50	150.14856	(06062806)	632050.63	4175100.50	226.86193	(05102522)
632050.63	4175200.50	250.55066	(07062004)	632050.63	4175300.50	279.02832	(06112002)
632050.63	4175400.50	315.25363	(07062003)	632050.63	4175500.50	329.82737	(07102804)

632050.63	4175600.50	210.47352	(05080305)	632050.63	4175700.50	181.11855	(06111908)
632050.63	4175800.50	162.54973	(05072806)	632050.63	4175900.50	141.04561	(07092306)
632050.63	4176000.50	136.78750	(06052306)	632050.63	4176100.50	135.92096	(04082204)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	70.99948	(05011521)	632304.44	4174354.52	46.16844	(05020818)
632192.15	4174956.32	62.91504	(06011617)	632420.62	4175510.15	46.71423	(07120624)
632418.97	4175552.92	46.40284	(05122401)	631187.00	4175727.00	69.45424	(04021521)
631166.00	4175729.00	66.63253	(04021521)	631121.00	4175719.00	62.09167	(06020109)
631035.00	4174830.00	55.21461	(04012317)	631106.00	4174825.00	61.35191	(06011109)
631937.00	4174528.00	68.64800	(07012317)	631322.00	4174522.00	37.52931	(05030118)
629800.63	4173850.44	13.09438	(04041824)	630150.63	4173850.44	12.69915	(06041020)
630500.63	4173850.44	15.15011	(08121017)	630850.63	4173850.44	25.15827	(05030118)
631200.63	4173850.44	19.67417	(05021806)	631550.63	4173850.44	28.14078	(05021806)
631900.63	4173850.44	23.91056	(05110722)	632250.63	4173850.44	36.24938	(05011817)
632600.63	4173850.44	34.27375	(05020818)	632950.63	4173850.44	33.32489	(05011520)
633300.63	4173850.44	28.36813	(04022018)	629800.63	4174200.44	16.49797	(05072102)
630150.63	4174200.44	20.57334	(06120517)	630500.63	4174200.44	30.17058	(04012317)
630850.63	4174200.44	28.60173	(06011109)	631200.63	4174200.44	29.31486	(04022923)
631550.63	4174200.44	43.99329	(05021805)	631900.63	4174200.44	48.60011	(07011417)
632250.63	4174200.44	43.44084	(05011817)	632600.63	4174200.44	40.69574	(05011521)
632950.63	4174200.44	35.62649	(04022018)	633300.63	4174200.44	25.96295	(06011617)
629800.63	4174550.44	27.44918	(06020109)	630150.63	4174550.44	26.30826	(04022118)
630500.63	4174550.44	31.51742	(04012317)	630850.63	4174550.44	45.31085	(04012317)
631200.63	4174550.44	55.77160	(06011109)	631550.63	4174550.44	61.22307	(04122823)
631900.63	4174550.44	72.31180	(04122823)	632250.63	4174550.44	52.82212	(05011521)
632600.63	4174550.44	45.65151	(04022018)	632950.63	4174550.44	36.53934	(06011617)
633300.63	4174550.44	22.12200	(06120617)	629800.63	4174900.44	33.63381	(06020109)
630150.63	4174900.44	36.19521	(06020109)	630500.63	4174900.44	77.74067	(06020109)
630850.63	4174900.44	58.82052	(06020109)	631200.63	4174900.44	68.25642	(06011109)
631550.63	4174900.44	119.75480	(07012317)	631900.63	4174900.44	124.45342	(07012317)
632250.63	4174900.44	60.12426	(04022018)	632600.63	4174900.44	43.33838	(06011617)
632950.63	4174900.44	28.17706	(05021801)	633300.63	4174900.44	28.80351	(06100508)
629800.63	4175250.44	26.19606	(04121304)	630150.63	4175250.44	48.07232	(06020109)
630500.63	4175250.44	68.56362	(06020109)	630850.63	4175250.44	71.74762	(06020109)
631200.63	4175250.44	90.23100	(04121304)	631550.63	4175250.44	330.89881	(04022207)
631900.63	4175250.44	254.30554	(05121217)	632250.63	4175250.44	66.24852	(05121217)
632600.63	4175250.44	39.70985	(05121217)	632950.63	4175250.44	30.95419	(06100508)

633300.63	4175250.44	28.31159 (06100508)	629800.63	4175600.44	25.92792 (05122618)
630150.63	4175600.44	33.29311 (06011024)	630500.63	4175600.44	42.14843 (06011024)
630850.63	4175600.44	58.79315 (06020109)	631200.63	4175600.44	78.10720 (06020109)
631550.63	4175600.44	152.89372 (06011109)	631900.63	4175600.44	173.54996 (05022620)
632250.63	4175600.44	57.29331 (05011818)	632600.63	4175600.44	37.01396 (08010924)
632950.63	4175600.44	27.59589 (07012418)	633300.63	4175600.44	22.59316 (07012318)
629800.63	4175950.44	26.14045 (06011024)	630150.63	4175950.44	31.96163 (07120622)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
630500.63	4175950.44	37.99872 (07120622)	630850.63	4175950.44	41.97522 (06011024)
631200.63	4175950.44	67.08056 (04120908)	631550.63	4175950.44	122.50407 (04020619)
631900.63	4175950.44	161.61633 (04121819)	632250.63	4175950.44	56.78252 (08021908)
632600.63	4175950.44	37.12621 (08021808)	632950.63	4175950.44	26.59882 (06121503)
633300.63	4175950.44	21.71963 (05122401)	629800.63	4176300.44	26.62937 (07120622)
630150.63	4176300.44	29.71660 (07120622)	630500.63	4176300.44	30.09438 (06122121)
630850.63	4176300.44	38.60934 (04021521)	631200.63	4176300.44	64.13166 (07021218)
631550.63	4176300.44	79.43562 (07121904)	631900.63	4176300.44	90.47041 (07121904)
632250.63	4176300.44	52.73626 (07022408)	632600.63	4176300.44	37.38418 (08021908)
632950.63	4176300.44	28.45380 (08021808)	633300.63	4176300.44	26.29877 (08031008)
629800.63	4176650.44	24.29361 (06122121)	630150.63	4176650.44	22.26613 (04021520)
630500.63	4176650.44	26.97044 (04010518)	630850.63	4176650.44	34.64998 (07122917)
631200.63	4176650.44	46.91870 (08011009)	631550.63	4176650.44	45.72255 (06011704)
631900.63	4176650.44	50.52026 (06011704)	632250.63	4176650.44	39.71804 (05121501)
632600.63	4176650.44	34.70966 (07022408)	632950.63	4176650.44	27.97914 (08021908)
633300.63	4176650.44	23.36980 (08021808)	629800.63	4177000.44	17.63457 (07120403)
630150.63	4177000.44	20.72080 (04120901)	630500.63	4177000.44	24.72464 (04120908)
630850.63	4177000.44	31.27344 (07012805)	631200.63	4177000.44	37.59597 (08011009)
631550.63	4177000.44	31.95913 (06122002)	631900.63	4177000.44	41.10018 (07091007)
632250.63	4177000.44	48.90520 (07091007)	632600.63	4177000.44	26.94489 (06010521)
632950.63	4177000.44	25.22025 (07022408)	633300.63	4177000.44	22.29411 (08021908)
629800.63	4177350.44	16.67474 (04120901)	630150.63	4177350.44	18.95213 (06021721)
630500.63	4177350.44	21.71732 (07122917)	630850.63	4177350.44	25.81295 (07122907)
631200.63	4177350.44	28.81734 (08011009)	631550.63	4177350.44	25.16600 (06010519)
631900.63	4177350.44	32.91719 (07091007)	632250.63	4177350.44	46.82346 (07091007)
632600.63	4177350.44	24.55390 (04102908)	632950.63	4177350.44	20.63784 (05121624)
633300.63	4177350.44	18.89584 (07022408)	631670.70	4175493.59	124.24088 (06011109)
631669.80	4175641.41	113.52248 (06011109)	631665.32	4175796.39	101.72668 (06011109)
631417.17	4175826.85	205.43155 (08011009)	631417.17	4175673.66	189.41230 (08011009)

631422.55	4175484.63	202.06584	(07122917)	631268.42	4175983.74	81.78658	(07021218)
631275.69	4175523.99	95.35566	(06122121)	631345.65	4175419.50	136.30479	(07120622)
631384.72	4175441.30	160.94425	(04021520)	631491.93	4175442.21	297.61512	(07012317)
631491.93	4175414.95	301.61955	(07012317)	631385.63	4175413.14	168.68442	(06122121)
631358.37	4175395.87	150.41288	(07120622)	631409.25	4175336.81	207.28398	(06011024)
631567.35	4175235.96	298.27025	(07011417)	631756.33	4175028.80	158.70174	(06121420)
631807.22	4175003.36	147.75092	(05122422)	631867.18	4174987.91	147.25887	(05021805)
631849.92	4175988.28	341.93357	(06020918)	631268.74	4175963.75	81.80054	(07021218)
631269.05	4175943.76	81.80396	(07021218)	631269.37	4175923.77	82.02494	(07122917)
631269.68	4175903.78	82.34906	(07122917)	631270.00	4175883.79	82.58495	(07122917)
631270.32	4175863.81	82.69210	(07122917)	631270.63	4175843.82	82.63388	(04120908)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	83.09007	(04120908)	631271.26	4175803.84	83.54405	(04120908)
631271.58	4175783.85	84.00363	(04120908)	631271.90	4175763.86	84.25825	(04120908)
631272.21	4175743.87	84.67432	(04120903)	631272.53	4175723.88	85.21465	(04120903)
631272.85	4175703.89	85.72833	(04120903)	631273.16	4175683.90	86.00451	(04120903)
631273.48	4175663.91	86.00861	(04120903)	631273.79	4175643.92	87.39362	(04021521)
631274.11	4175623.94	89.14740	(04021521)	631274.43	4175603.95	90.18140	(04021521)
631274.74	4175583.96	90.54040	(04021521)	631275.06	4175563.97	92.37816	(04021520)
631275.37	4175543.98	94.16993	(04021520)	631285.68	4175509.06	99.47069	(06122121)
631295.68	4175494.14	104.20106	(06122121)	631305.67	4175479.21	109.27343	(06122121)
631315.67	4175464.28	114.73366	(06122121)	631325.66	4175449.35	120.35100	(06122121)
631335.66	4175434.43	126.20941	(06122121)	631358.67	4175426.77	143.23790	(06122121)
631371.70	4175434.03	152.27701	(04021520)	631402.59	4175441.45	178.90198	(04021521)
631420.46	4175441.60	201.98610	(04120903)	631438.33	4175441.76	241.70353	(07122917)
631456.19	4175441.91	335.58950	(06121420)	631474.06	4175442.06	497.85565	(07012317)
631491.93	4175428.58	299.66286	(07012317)	631474.21	4175414.65	514.39561	(07012317)
631456.50	4175414.35	339.35788	(06121420)	631438.78	4175414.05	245.40581	(04120903)
631421.06	4175413.74	213.32681	(04021521)	631403.35	4175413.44	189.76792	(04021520)
631372.00	4175404.51	156.95819	(07120622)	631371.09	4175381.11	162.17787	(07120622)
631383.81	4175366.34	172.07120	(07120622)	631396.53	4175351.58	188.90113	(06011024)
631425.06	4175326.73	225.06563	(06011024)	631440.87	4175316.64	236.83176	(06121420)
631456.68	4175306.56	306.55286	(06121420)	631472.49	4175296.47	343.33223	(05021805)
631488.30	4175286.39	371.01469	(07012317)	631504.11	4175276.30	360.30541	(07012317)
631519.92	4175266.22	333.97306	(07012317)	631535.73	4175256.13	332.89890	(04121304)
631551.54	4175246.05	312.14074	(04022207)	631579.95	4175222.15	264.49361	(07011417)
631592.55	4175208.34	234.65063	(07011417)	631605.15	4175194.53	207.27992	(07011417)

631617.74	4175180.72	189.34703	(07011417)	631630.34	4175166.91	171.16051	(07011417)
631642.94	4175153.10	159.77514	(07011417)	631655.54	4175139.29	154.42749	(05012117)
631668.14	4175125.47	149.86670	(05012117)	631680.74	4175111.66	148.14136	(05012117)
631693.34	4175097.85	144.51363	(05012117)	631705.94	4175084.04	143.60651	(08022002)
631718.53	4175070.23	148.74484	(08022002)	631731.13	4175056.42	153.22710	(08022002)
631743.73	4175042.61	154.19422	(08022002)	631773.29	4175020.32	160.66337	(06121420)
631790.26	4175011.84	149.82049	(06121420)	631822.21	4174999.50	141.59747	(05010417)
631837.20	4174995.64	145.25301	(05021805)	631852.19	4174991.77	150.73436	(05021805)
631866.84	4175007.53	156.21263	(05021805)	631866.50	4175027.14	163.01652	(05021805)
631866.16	4175046.76	154.14906	(05021805)	631865.83	4175066.37	154.64955	(07012317)
631865.49	4175085.99	163.57200	(07012317)	631865.15	4175105.60	176.30131	(07012317)
631864.81	4175125.22	191.36437	(07012317)	631864.47	4175144.83	209.72653	(07012317)
631864.13	4175164.45	231.75233	(07012317)	631863.80	4175184.06	258.20000	(07012317)
631863.46	4175203.68	289.10550	(07012317)	631863.12	4175223.29	320.17211	(07012317)
631862.78	4175242.91	338.54723	(07012317)	631862.44	4175262.52	418.49434	(06011619)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	350.84916	(07012317)	631861.77	4175301.75	351.07970	(07012317)
631861.43	4175321.37	350.40882	(07012317)	631861.09	4175340.98	348.69820	(07012317)
631860.75	4175360.60	347.72357	(07012317)	631860.41	4175380.21	346.82071	(07012317)
631860.07	4175399.83	345.81292	(07012317)	631859.73	4175419.44	344.68946	(07012317)
631859.40	4175439.06	343.43019	(07012317)	631859.06	4175458.67	342.16191	(07012317)
631858.72	4175478.29	340.78571	(07012317)	631858.38	4175497.90	339.34212	(07012317)
631858.04	4175517.52	337.66852	(07012317)	631857.70	4175537.13	335.81442	(07012317)
631857.37	4175556.75	333.67871	(07012317)	631857.03	4175576.36	331.37389	(07012317)
631856.69	4175595.98	330.03138	(05122402)	631856.35	4175615.59	332.25335	(05122402)
631856.01	4175635.21	334.11185	(05122402)	631855.67	4175654.82	336.02177	(05122402)
631855.33	4175674.44	337.79780	(05122402)	631855.00	4175694.05	338.99717	(05122402)
631854.66	4175713.67	340.40333	(05122402)	631854.32	4175733.28	341.73200	(04121818)
631853.98	4175752.90	343.25023	(04121818)	631853.64	4175772.51	344.92332	(04121818)
631853.30	4175792.13	346.93623	(06020918)	631852.97	4175811.74	349.43465	(06020918)
631852.63	4175831.36	351.62504	(06020918)	631852.29	4175850.97	353.54772	(06020918)
631851.95	4175870.59	354.28511	(06020918)	631851.61	4175890.20	354.71150	(06020918)
631851.27	4175909.82	354.72478	(06020918)	631850.94	4175929.43	354.67075	(06020918)
631850.60	4175949.05	354.15391	(06020918)	631850.26	4175968.66	352.31693	(06020918)
631830.54	4175988.13	424.84490	(07021219)	631811.15	4175987.98	267.38670	(08011009)
631791.77	4175987.83	203.27249	(08011009)	631772.39	4175987.67	162.93733	(08011009)
631753.00	4175987.52	134.88913	(08011009)	631733.62	4175987.37	113.76406	(08011009)

631714.24	4175987.22	97.08991	(05010917)	631694.85	4175987.07	86.66304	(05010917)
631675.47	4175986.92	78.31055	(07021218)	631656.09	4175986.77	73.22288	(07021218)
631636.70	4175986.62	73.76411	(07022408)	631617.32	4175986.46	79.84973	(05022620)
631597.94	4175986.31	88.04409	(06020201)	631578.55	4175986.16	98.75600	(06012820)
631559.17	4175986.01	113.15685	(04020619)	631539.79	4175985.86	133.57335	(04121819)
631520.40	4175985.71	164.44919	(05122402)	631501.02	4175985.56	220.36747	(05122402)
631481.64	4175985.40	340.47910	(06020918)	631462.25	4175985.25	432.47838	(07021219)
631442.87	4175985.10	284.68373	(08011009)	631423.49	4175984.95	218.94424	(08011009)
631404.10	4175984.80	176.99336	(08011009)	631384.72	4175984.65	146.46032	(08011009)
631365.34	4175984.50	123.29439	(05010917)	631345.95	4175984.35	110.77221	(07021218)
631326.57	4175984.19	101.92238	(07021218)	631307.19	4175984.04	94.45980	(07021218)
631287.80	4175983.89	87.86897	(07021218)	631050.63	4175100.50	90.57996	(06020109)
631050.63	4175200.50	77.40581	(06020109)	631050.63	4175300.50	74.11455	(06020109)
631050.63	4175400.50	74.29000	(06020109)	631050.63	4175500.50	74.23446	(06020109)
631050.63	4175600.50	71.08965	(06020109)	631050.63	4175700.50	58.56972	(06122121)
631050.63	4175800.50	57.27689	(04121304)	631050.63	4175900.50	52.29650	(04021521)
631050.63	4176000.50	50.86131	(04021521)	631050.63	4176100.50	50.23896	(04120903)
631150.63	4175100.50	96.83654	(06020109)	631150.63	4175200.50	81.73065	(06020109)
631150.63	4175300.50	80.22620	(05122618)	631150.63	4175400.50	81.76584	(06011024)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	77.00376	(06020109)	631150.63	4175600.50	76.01061	(06020109)
631150.63	4175700.50	67.39977	(06020109)	631150.63	4175800.50	63.31765	(04021521)
631150.63	4175900.50	61.01662	(04120903)	631150.63	4176000.50	59.94113	(04120903)
631150.63	4176100.50	59.30670	(04120908)	631250.63	4175100.50	97.40474	(06020109)
631250.63	4175200.50	88.66952	(06020109)	631250.63	4175300.50	100.98961	(05122618)
631250.63	4175400.50	100.02448	(06011024)	631250.63	4175500.50	91.52906	(07120622)
631250.63	4175600.50	84.05460	(04021520)	631250.63	4175700.50	79.74313	(04010518)
631250.63	4175800.50	78.18764	(04120903)	631250.63	4175900.50	77.04509	(07122917)
631250.63	4176000.50	76.60721	(07021218)	631250.63	4176100.50	76.50400	(07021218)
631350.63	4175100.50	105.12483	(08022002)	631350.63	4175200.50	115.24954	(04022207)
631350.63	4175300.50	137.03984	(05122618)	631350.63	4175400.50	144.21466	(07120622)
631350.63	4175500.50	127.45936	(04021521)	631350.63	4175600.50	118.76147	(04120908)
631350.63	4175700.50	118.18446	(07122917)	631350.63	4175800.50	118.84501	(07021218)
631350.63	4175900.50	116.24616	(07021218)	631350.63	4176000.50	112.56291	(07021218)
631350.63	4176100.50	109.85029	(08011009)	631450.63	4175100.50	136.25818	(05010417)
631450.63	4175200.50	179.37838	(05122422)	631450.63	4175300.50	272.11111	(06121420)
631450.63	4175400.50	293.60180	(06121420)	631450.63	4175500.50	297.87883	(08011009)

631450.63	4175600.50	324.24960 (08011009)	631450.63	4175700.50	330.91214 (08011009)
631450.63	4175800.50	332.82384 (08011009)	631450.63	4175900.50	332.14891 (08011009)
631450.63	4176000.50	319.57184 (08011009)	631450.63	4176100.50	190.89854 (05121702)
631550.63	4175100.50	173.92495 (07012317)	631550.63	4175200.50	239.10174 (07012317)
631550.63	4175300.50	284.42005 (06011109)	631550.63	4175400.50	180.00571 (06011109)
631550.63	4175500.50	164.03545 (06011109)	631550.63	4175600.50	152.89001 (06011109)
631550.63	4175700.50	143.15386 (06011109)	631550.63	4175800.50	133.52148 (06011109)
631550.63	4175900.50	123.90393 (04020619)	631550.63	4176000.50	120.71502 (04021506)
631550.63	4176100.50	113.60352 (05021302)	631650.63	4175100.50	143.37583 (07011417)
631650.63	4175200.50	197.32582 (04022018)	631650.63	4175300.50	209.95928 (06011109)
631650.63	4175400.50	139.64170 (06011109)	631650.63	4175500.50	125.80264 (06011109)
631650.63	4175600.50	117.93561 (06011109)	631650.63	4175700.50	109.49389 (06011109)
631650.63	4175800.50	100.89292 (06011109)	631650.63	4175900.50	86.54462 (06011109)
631650.63	4176000.50	71.59319 (07021218)	631650.63	4176100.50	68.50675 (07012720)
631750.63	4175100.50	177.57084 (08022002)	631750.63	4175200.50	216.63550 (05012117)
631750.63	4175300.50	213.16946 (06011109)	631750.63	4175400.50	155.32528 (06011109)
631750.63	4175500.50	146.24711 (06011109)	631750.63	4175600.50	142.56890 (06011109)
631750.63	4175700.50	138.09305 (06011109)	631750.63	4175800.50	129.84487 (06011109)
631750.63	4175900.50	131.32543 (08011009)	631750.63	4176000.50	131.80473 (08011009)
631750.63	4176100.50	128.53513 (08011009)	631850.63	4175100.50	169.04431 (05021805)
631850.63	4175200.50	295.25071 (07012317)	631850.63	4175300.50	502.56203 (07012317)
631850.63	4175400.50	466.88511 (07012317)	631850.63	4175500.50	434.34379 (07012317)
631850.63	4175600.50	400.18529 (07012317)	631850.63	4175700.50	383.30319 (06020918)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE6 ***

INCLUDING SOURCE(S): L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 , L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 , L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 , L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
631850.63	4175800.50	374.27529 (06020918)	631850.63	4175900.50	362.91516 (06020918)
631850.63	4176000.50	326.19740 (06020918)	631850.63	4176100.50	187.39055 (08122707)
631950.63	4175100.50	110.10068 (07011417)	631950.63	4175200.50	151.38699 (07010217)
631950.63	4175300.50	176.56331 (07012418)	631950.63	4175400.50	153.54353 (08021808)
631950.63	4175500.50	140.82876 (08021908)	631950.63	4175600.50	131.98704 (07022408)
631950.63	4175700.50	123.43469 (07022408)	631950.63	4175800.50	118.29369 (06122319)
631950.63	4175900.50	116.25190 (08021908)	631950.63	4176000.50	112.86253 (07022408)
631950.63	4176100.50	104.29139 (04020619)	632050.63	4175100.50	90.42083 (06011617)
632050.63	4175200.50	107.26336 (07010217)	632050.63	4175300.50	112.92574 (07011518)
632050.63	4175400.50	100.68078 (05122401)	632050.63	4175500.50	101.99913 (08021808)
632050.63	4175600.50	97.09849 (08021908)	632050.63	4175700.50	90.32844 (07022408)
632050.63	4175800.50	86.04275 (07022408)	632050.63	4175900.50	82.53519 (08021908)
632050.63	4176000.50	81.76679 (08021908)	632050.63	4176100.50	78.50061 (07022408)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID
SLINE2	1ST HIGHEST VALUE IS	66.31151 AT (631404.10, 4175984.80, 51.55, 51.55, 0.00)	DC
	2ND HIGHEST VALUE IS	66.10402 AT (631423.49, 4175984.95, 51.35, 51.35, 0.00)	DC
	3RD HIGHEST VALUE IS	66.00761 AT (631384.72, 4175984.65, 51.75, 51.75, 0.00)	DC
	4TH HIGHEST VALUE IS	65.47307 AT (631365.34, 4175984.50, 51.95, 51.95, 0.00)	DC
	5TH HIGHEST VALUE IS	64.78416 AT (631345.95, 4175984.35, 52.13, 52.13, 0.00)	DC
	6TH HIGHEST VALUE IS	64.31292 AT (631442.87, 4175985.10, 51.15, 51.15, 0.00)	DC
	7TH HIGHEST VALUE IS	64.03887 AT (631326.57, 4175984.19, 52.32, 52.32, 0.00)	DC
	8TH HIGHEST VALUE IS	63.29748 AT (631307.19, 4175984.04, 52.51, 52.51, 0.00)	DC
	9TH HIGHEST VALUE IS	62.60280 AT (631287.80, 4175983.89, 52.70, 52.70, 0.00)	DC
	10TH HIGHEST VALUE IS	62.01476 AT (631268.42, 4175983.74, 52.85, 52.85, 0.00)	DC
SLINE5	1ST HIGHEST VALUE IS	58.07436 AT (631462.25, 4175985.25, 50.94, 50.94, 0.00)	DC
	2ND HIGHEST VALUE IS	57.61705 AT (631423.49, 4175984.95, 51.35, 51.35, 0.00)	DC
	3RD HIGHEST VALUE IS	57.42161 AT (631404.10, 4175984.80, 51.55, 51.55, 0.00)	DC
	4TH HIGHEST VALUE IS	57.21055 AT (631384.72, 4175984.65, 51.75, 51.75, 0.00)	DC
	5TH HIGHEST VALUE IS	57.01399 AT (631365.34, 4175984.50, 51.95, 51.95, 0.00)	DC
	6TH HIGHEST VALUE IS	56.78362 AT (631345.95, 4175984.35, 52.13, 52.13, 0.00)	DC
	7TH HIGHEST VALUE IS	56.68860 AT (631753.00, 4175987.52, 47.78, 47.78, 0.00)	DC
	8TH HIGHEST VALUE IS	56.53693 AT (631326.57, 4175984.19, 52.32, 52.32, 0.00)	DC
	9TH HIGHEST VALUE IS	56.31581 AT (631307.19, 4175984.04, 52.51, 52.51, 0.00)	DC
	10TH HIGHEST VALUE IS	56.14816 AT (631287.80, 4175983.89, 52.70, 52.70, 0.00)	DC
STCK1	1ST HIGHEST VALUE IS	38.85379 AT (631852.97, 4175811.74, 48.28, 48.28, 0.00)	DC
	2ND HIGHEST VALUE IS	36.87385 AT (631850.63, 4175800.50, 48.39, 48.39, 0.00)	DC
	3RD HIGHEST VALUE IS	29.84603 AT (631853.30, 4175792.13, 48.42, 48.42, 0.00)	DC
	4TH HIGHEST VALUE IS	27.50098 AT (631852.63, 4175831.36, 48.13, 48.13, 0.00)	DC
	5TH HIGHEST VALUE IS	26.67452 AT (631950.63, 4175800.50, 47.20, 47.20, 0.00)	DC
	6TH HIGHEST VALUE IS	19.42071 AT (631750.63, 4175800.50, 49.49, 49.49, 0.00)	DC
	7TH HIGHEST VALUE IS	17.61676 AT (632050.63, 4175800.50, 46.18, 46.18, 0.00)	DC
	8TH HIGHEST VALUE IS	17.04760 AT (631852.29, 4175850.97, 47.98, 47.98, 0.00)	DC
	9TH HIGHEST VALUE IS	12.42407 AT (631851.95, 4175870.59, 47.78, 47.78, 0.00)	DC
	10TH HIGHEST VALUE IS	11.56215 AT (631853.64, 4175772.51, 48.59, 48.59, 0.00)	DC
STCK10	1ST HIGHEST VALUE IS	19.36537 AT (631850.63, 4175400.50, 51.79, 51.79, 0.00)	DC
	2ND HIGHEST VALUE IS	17.76356 AT (631860.07, 4175399.83, 51.66, 51.66, 0.00)	DC
	3RD HIGHEST VALUE IS	17.48568 AT (631860.41, 4175380.21, 51.86, 51.86, 0.00)	DC
	4TH HIGHEST VALUE IS	17.40776 AT (631491.93, 4175414.95, 56.00, 56.00, 0.00)	DC
	5TH HIGHEST VALUE IS	16.15088 AT (631859.73, 4175419.44, 51.47, 51.47, 0.00)	DC
	6TH HIGHEST VALUE IS	15.81923 AT (631860.75, 4175360.60, 52.05, 52.05, 0.00)	DC
	7TH HIGHEST VALUE IS	13.61148 AT (631861.09, 4175340.98, 52.27, 52.27, 0.00)	DC

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID
STCK11	1ST HIGHEST VALUE IS	89.62466 AT (631450.63, 4175700.50, 53.94, 53.94, 0.00)	DC
	2ND HIGHEST VALUE IS	76.65073 AT (631550.63, 4175700.50, 52.78, 52.78, 0.00)	DC
	3RD HIGHEST VALUE IS	36.82998 AT (631417.17, 4175673.66, 54.62, 54.62, 0.00)	DC
	4TH HIGHEST VALUE IS	30.86072 AT (631650.63, 4175700.50, 51.65, 51.65, 0.00)	DC
	5TH HIGHEST VALUE IS	29.44903 AT (631350.63, 4175700.50, 55.09, 55.09, 0.00)	DC
	6TH HIGHEST VALUE IS	19.49968 AT (631669.80, 4175641.41, 51.98, 51.98, 0.00)	DC
	7TH HIGHEST VALUE IS	18.73647 AT (631750.63, 4175700.50, 50.55, 50.55, 0.00)	DC
	8TH HIGHEST VALUE IS	16.92902 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00)	DC
	9TH HIGHEST VALUE IS	16.91821 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00)	DC
	10TH HIGHEST VALUE IS	16.08720 AT (631650.63, 4175600.50, 52.59, 52.59, 0.00)	DC
STCK12	1ST HIGHEST VALUE IS	97.89700 AT (631450.63, 4175600.50, 54.98, 54.98, 0.00)	DC
	2ND HIGHEST VALUE IS	74.96768 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00)	DC
	3RD HIGHEST VALUE IS	74.92348 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00)	DC
	4TH HIGHEST VALUE IS	30.12070 AT (631650.63, 4175600.50, 52.59, 52.59, 0.00)	DC
	5TH HIGHEST VALUE IS	27.44940 AT (631350.63, 4175600.50, 56.17, 56.17, 0.00)	DC
	6TH HIGHEST VALUE IS	24.63289 AT (631550.63, 4175500.50, 54.61, 54.61, 0.00)	DC
	7TH HIGHEST VALUE IS	18.54888 AT (631750.63, 4175600.50, 51.42, 51.42, 0.00)	DC
	8TH HIGHEST VALUE IS	18.48364 AT (631417.17, 4175673.66, 54.62, 54.62, 0.00)	DC
	9TH HIGHEST VALUE IS	17.21338 AT (631669.80, 4175641.41, 51.98, 51.98, 0.00)	DC
	10TH HIGHEST VALUE IS	13.86785 AT (631350.63, 4175700.50, 55.09, 55.09, 0.00)	DC
STCK13	1ST HIGHEST VALUE IS	48.58465 AT (631450.63, 4175700.50, 53.94, 53.94, 0.00)	DC
	2ND HIGHEST VALUE IS	41.02337 AT (631417.17, 4175673.66, 54.62, 54.62, 0.00)	DC
	3RD HIGHEST VALUE IS	38.00805 AT (631350.63, 4175700.50, 55.09, 55.09, 0.00)	DC
	4TH HIGHEST VALUE IS	29.78273 AT (631272.85, 4175703.89, 56.37, 56.37, 0.00)	DC
	5TH HIGHEST VALUE IS	28.77081 AT (631550.63, 4175700.50, 52.78, 52.78, 0.00)	DC
	6TH HIGHEST VALUE IS	26.59424 AT (631272.53, 4175723.88, 56.05, 56.05, 0.00)	DC
	7TH HIGHEST VALUE IS	26.58261 AT (631273.16, 4175683.90, 56.73, 56.73, 0.00)	DC
	8TH HIGHEST VALUE IS	24.67377 AT (631250.63, 4175700.50, 56.69, 56.69, 0.00)	DC
	9TH HIGHEST VALUE IS	20.26888 AT (631272.21, 4175743.87, 55.80, 55.80, 0.00)	DC
	10TH HIGHEST VALUE IS	19.68407 AT (631273.48, 4175663.91, 57.08, 57.08, 0.00)	DC
STCK14	1ST HIGHEST VALUE IS	45.76124 AT (631450.63, 4175600.50, 54.98, 54.98, 0.00)	DC
	2ND HIGHEST VALUE IS	34.55624 AT (631350.63, 4175600.50, 56.17, 56.17, 0.00)	DC
	3RD HIGHEST VALUE IS	28.52918 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00)	DC
	4TH HIGHEST VALUE IS	28.52917 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00)	DC

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
STCK2	1ST HIGHEST VALUE IS	68.51847 AT (631850.63, 4175700.50, 49.34, 49.34, 0.00) DC
	2ND HIGHEST VALUE IS	63.82604 AT (631855.00, 4175694.05, 49.31, 49.31, 0.00) DC
	3RD HIGHEST VALUE IS	62.97234 AT (631854.66, 4175713.67, 49.14, 49.14, 0.00) DC
	4TH HIGHEST VALUE IS	50.80074 AT (631750.63, 4175700.50, 50.55, 50.55, 0.00) DC
	5TH HIGHEST VALUE IS	32.40446 AT (631855.33, 4175674.44, 49.49, 49.49, 0.00) DC
	6TH HIGHEST VALUE IS	31.45281 AT (631950.63, 4175700.50, 48.14, 48.14, 0.00) DC
	7TH HIGHEST VALUE IS	31.28295 AT (631854.32, 4175733.28, 48.96, 48.96, 0.00) DC
	8TH HIGHEST VALUE IS	20.64246 AT (631650.63, 4175700.50, 51.65, 51.65, 0.00) DC
	9TH HIGHEST VALUE IS	19.36157 AT (632050.63, 4175700.50, 47.30, 47.30, 0.00) DC
	10TH HIGHEST VALUE IS	18.94182 AT (631855.67, 4175654.82, 49.65, 49.65, 0.00) DC
STCK3	1ST HIGHEST VALUE IS	66.01396 AT (631850.63, 4175600.50, 50.21, 50.21, 0.00) DC
	2ND HIGHEST VALUE IS	62.20710 AT (631856.69, 4175595.98, 50.14, 50.14, 0.00) DC
	3RD HIGHEST VALUE IS	54.57697 AT (631900.63, 4175600.44, 49.49, 49.49, 0.00) DC
	4TH HIGHEST VALUE IS	54.45909 AT (631750.63, 4175600.50, 51.42, 51.42, 0.00) DC
	5TH HIGHEST VALUE IS	52.42388 AT (631856.35, 4175615.59, 49.98, 49.98, 0.00) DC
	6TH HIGHEST VALUE IS	44.86117 AT (631857.03, 4175576.36, 50.29, 50.29, 0.00) DC
	7TH HIGHEST VALUE IS	34.16625 AT (631950.63, 4175600.50, 49.06, 49.06, 0.00) DC
	8TH HIGHEST VALUE IS	29.36153 AT (631856.01, 4175635.21, 49.81, 49.81, 0.00) DC
	9TH HIGHEST VALUE IS	28.09862 AT (631857.37, 4175556.75, 50.44, 50.44, 0.00) DC
	10TH HIGHEST VALUE IS	24.46552 AT (631650.63, 4175600.50, 52.59, 52.59, 0.00) DC
STCK4	1ST HIGHEST VALUE IS	79.75872 AT (631850.63, 4175500.50, 50.97, 50.97, 0.00) DC
	2ND HIGHEST VALUE IS	76.99016 AT (631858.38, 4175497.90, 50.86, 50.86, 0.00) DC
	3RD HIGHEST VALUE IS	60.40465 AT (631858.72, 4175478.29, 50.99, 50.99, 0.00) DC
	4TH HIGHEST VALUE IS	58.72859 AT (631750.63, 4175500.50, 52.17, 52.17, 0.00) DC
	5TH HIGHEST VALUE IS	52.56565 AT (631858.04, 4175517.52, 50.72, 50.72, 0.00) DC
	6TH HIGHEST VALUE IS	35.19956 AT (631859.06, 4175458.67, 51.14, 51.14, 0.00) DC
	7TH HIGHEST VALUE IS	33.60699 AT (631950.63, 4175500.50, 49.75, 49.75, 0.00) DC
	8TH HIGHEST VALUE IS	26.56706 AT (631670.70, 4175493.59, 53.18, 53.18, 0.00) DC
	9TH HIGHEST VALUE IS	24.80657 AT (631857.70, 4175537.13, 50.58, 50.58, 0.00) DC
	10TH HIGHEST VALUE IS	23.81505 AT (631650.63, 4175500.50, 53.39, 53.39, 0.00) DC
STCK5	1ST HIGHEST VALUE IS	60.54152 AT (631860.41, 4175380.21, 51.86, 51.86, 0.00) DC

2ND HIGHEST VALUE IS 59.08628 AT (631850.63, 4175400.50, 51.79, 51.79, 0.00) DC
3RD HIGHEST VALUE IS 56.67964 AT (631860.07, 4175399.83, 51.66, 51.66, 0.00) DC
4TH HIGHEST VALUE IS 44.28402 AT (631860.75, 4175360.60, 52.05, 52.05, 0.00) DC
5TH HIGHEST VALUE IS 37.65720 AT (631750.63, 4175400.50, 52.98, 52.98, 0.00) DC
6TH HIGHEST VALUE IS 32.67657 AT (631861.09, 4175340.98, 52.27, 52.27, 0.00) DC
7TH HIGHEST VALUE IS 28.78661 AT (631859.73, 4175419.44, 51.47, 51.47, 0.00) DC
8TH HIGHEST VALUE IS 27.91788 AT (631950.63, 4175400.50, 50.69, 50.69, 0.00) DC
9TH HIGHEST VALUE IS 26.29808 AT (631861.43, 4175321.37, 52.50, 52.50, 0.00) DC
10TH HIGHEST VALUE IS 21.37222 AT (631861.77, 4175301.75, 52.73, 52.73, 0.00) DC

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID	NETWORK
STCK6	1ST HIGHEST VALUE IS	94.68929 AT (631550.63, 4175800.50, 51.70, 51.70, 0.00) DC	
	2ND HIGHEST VALUE IS	79.10248 AT (631650.63, 4175800.50, 50.62, 50.62, 0.00) DC	
	3RD HIGHEST VALUE IS	69.46337 AT (631665.32, 4175796.39, 50.51, 50.51, 0.00) DC	
	4TH HIGHEST VALUE IS	43.76504 AT (631450.63, 4175800.50, 52.83, 52.83, 0.00) DC	
	5TH HIGHEST VALUE IS	38.40535 AT (631750.63, 4175800.50, 49.49, 49.49, 0.00) DC	
	6TH HIGHEST VALUE IS	22.03752 AT (631850.63, 4175800.50, 48.39, 48.39, 0.00) DC	
	7TH HIGHEST VALUE IS	21.57041 AT (631852.97, 4175811.74, 48.28, 48.28, 0.00) DC	
	8TH HIGHEST VALUE IS	21.49535 AT (631853.30, 4175792.13, 48.42, 48.42, 0.00) DC	
	9TH HIGHEST VALUE IS	19.80824 AT (631852.63, 4175831.36, 48.13, 48.13, 0.00) DC	
	10TH HIGHEST VALUE IS	19.67207 AT (631853.64, 4175772.51, 48.59, 48.59, 0.00) DC	
STCK7	1ST HIGHEST VALUE IS	146.82767 AT (631550.63, 4175700.50, 52.78, 52.78, 0.00) DC	
	2ND HIGHEST VALUE IS	85.79629 AT (631650.63, 4175700.50, 51.65, 51.65, 0.00) DC	
	3RD HIGHEST VALUE IS	65.13999 AT (631450.63, 4175700.50, 53.94, 53.94, 0.00) DC	
	4TH HIGHEST VALUE IS	40.42683 AT (631750.63, 4175700.50, 50.55, 50.55, 0.00) DC	
	5TH HIGHEST VALUE IS	27.49061 AT (631417.17, 4175673.66, 54.62, 54.62, 0.00) DC	
	6TH HIGHEST VALUE IS	26.50689 AT (631669.80, 4175641.41, 51.98, 51.98, 0.00) DC	
	7TH HIGHEST VALUE IS	22.78747 AT (631850.63, 4175700.50, 49.34, 49.34, 0.00) DC	
	8TH HIGHEST VALUE IS	22.43100 AT (631855.00, 4175694.05, 49.31, 49.31, 0.00) DC	
	9TH HIGHEST VALUE IS	21.75658 AT (631855.33, 4175674.44, 49.49, 49.49, 0.00) DC	
	10TH HIGHEST VALUE IS	21.42462 AT (631854.66, 4175713.67, 49.14, 49.14, 0.00) DC	
STCK8	1ST HIGHEST VALUE IS	139.78118 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00) DC	
	2ND HIGHEST VALUE IS	139.65945 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00) DC	
	3RD HIGHEST VALUE IS	82.13879 AT (631650.63, 4175600.50, 52.59, 52.59, 0.00) DC	
	4TH HIGHEST VALUE IS	66.62763 AT (631450.63, 4175600.50, 54.98, 54.98, 0.00) DC	
	5TH HIGHEST VALUE IS	39.22214 AT (631750.63, 4175600.50, 51.42, 51.42, 0.00) DC	
	6TH HIGHEST VALUE IS	22.17321 AT (631850.63, 4175600.50, 50.21, 50.21, 0.00) DC	
	7TH HIGHEST VALUE IS	22.16514 AT (631857.03, 4175576.36, 50.29, 50.29, 0.00) DC	
	8TH HIGHEST VALUE IS	21.83186 AT (631856.69, 4175595.98, 50.14, 50.14, 0.00) DC	
	9TH HIGHEST VALUE IS	20.88595 AT (631857.37, 4175556.75, 50.44, 50.44, 0.00) DC	

10TH HIGHEST VALUE IS 20.33171 AT (631669.80, 4175641.41, 51.98, 51.98, 0.00) DC

STCK9 1ST HIGHEST VALUE IS 79.87091 AT (631650.63, 4175500.50, 53.39, 53.39, 0.00) DC
2ND HIGHEST VALUE IS 71.63607 AT (631670.70, 4175493.59, 53.18, 53.18, 0.00) DC
3RD HIGHEST VALUE IS 66.10940 AT (631550.63, 4175500.50, 54.61, 54.61, 0.00) DC
4TH HIGHEST VALUE IS 38.97584 AT (631750.63, 4175500.50, 52.17, 52.17, 0.00) DC
5TH HIGHEST VALUE IS 22.27699 AT (631850.63, 4175500.50, 50.97, 50.97, 0.00) DC
6TH HIGHEST VALUE IS 21.94104 AT (631858.72, 4175478.29, 50.99, 50.99, 0.00) DC
7TH HIGHEST VALUE IS 21.62306 AT (631858.38, 4175497.90, 50.86, 50.86, 0.00) DC
8TH HIGHEST VALUE IS 20.61306 AT (631859.06, 4175458.67, 51.14, 51.14, 0.00) DC
9TH HIGHEST VALUE IS 19.42206 AT (631858.04, 4175517.52, 50.72, 50.72, 0.00) DC
10TH HIGHEST VALUE IS 18.30290 AT (631859.40, 4175439.06, 51.30, 51.30, 0.00) DC

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID	NETWORK
SLINE6	1ST HIGHEST VALUE IS	45.05360 AT (631850.63, 4175300.50, 52.77, 52.77, 0.00) DC	
	2ND HIGHEST VALUE IS	40.50316 AT (631850.63, 4175400.50, 51.79, 51.79, 0.00) DC	
	3RD HIGHEST VALUE IS	39.59615 AT (631862.44, 4175262.52, 53.24, 53.24, 0.00) DC	
	4TH HIGHEST VALUE IS	38.65485 AT (631850.63, 4175500.50, 50.97, 50.97, 0.00) DC	
	5TH HIGHEST VALUE IS	37.13849 AT (631850.63, 4175600.50, 50.21, 50.21, 0.00) DC	
	6TH HIGHEST VALUE IS	36.38511 AT (631862.10, 4175282.14, 52.98, 52.98, 0.00) DC	
	7TH HIGHEST VALUE IS	35.72142 AT (631850.63, 4175700.50, 49.34, 49.34, 0.00) DC	
	8TH HIGHEST VALUE IS	34.48389 AT (631861.77, 4175301.75, 52.73, 52.73, 0.00) DC	
	9TH HIGHEST VALUE IS	34.38447 AT (631850.63, 4175800.50, 48.39, 48.39, 0.00) DC	
	10TH HIGHEST VALUE IS	33.54536 AT (631861.43, 4175321.37, 52.50, 52.50, 0.00) DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

DATE	NETWORK

GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

- -

SLINE2 HIGH 1ST HIGH VALUE IS 692.42827 ON 05121217: AT (631423.49, 4175984.95, 51.35, 51.35, 0.00) DC

SLINE5 HIGH 1ST HIGH VALUE IS 599.63378 ON 08011019: AT (631753.00, 4175987.52, 47.78, 47.78, 0.00) DC

STCK1 HIGH 1ST HIGH VALUE IS 1201.49564 ON 06111908: AT (631852.63, 4175831.36, 48.13, 48.13, 0.00) DC

STCK10 HIGH 1ST HIGH VALUE IS 1240.09311 ON 05111717: AT (631440.87, 4175316.64, 58.62, 58.62, 0.00) DC

STCK11 HIGH 1ST HIGH VALUE IS 1255.12833 ON 05012118: AT (631550.63, 4175700.50, 52.78, 52.78, 0.00) DC

STCK12 HIGH 1ST HIGH VALUE IS 1273.08935 ON 04030118: AT (631550.63, 4175600.44, 53.80, 53.80, 0.00) DC

STCK13 HIGH 1ST HIGH VALUE IS 1366.56164 ON 06092418: AT (631272.85, 4175703.89, 56.37, 56.37, 0.00) DC

STCK14 HIGH 1ST HIGH VALUE IS 1490.94014 ON 05030320: AT (631200.63, 4175600.44, 58.73, 58.73, 0.00) DC

STCK2 HIGH 1ST HIGH VALUE IS 1215.30515 ON 07102907: AT (631854.66, 4175713.67, 49.14, 49.14, 0.00) DC

STCK3 HIGH 1ST HIGH VALUE IS 1138.96363 ON 07102907: AT (631856.35, 4175615.59, 49.98, 49.98, 0.00) DC

STCK4 HIGH 1ST HIGH VALUE IS 1184.65671 ON 04030118: AT (631858.38, 4175497.90, 50.86, 50.86, 0.00) DC

STCK5 HIGH 1ST HIGH VALUE IS 1256.60942 ON 05071701: AT (631860.41, 4175380.21, 51.86, 51.86, 0.00) DC

STCK6 HIGH 1ST HIGH VALUE IS 920.61392 ON 07090902: AT (631650.63, 4175800.50, 50.62, 50.62, 0.00) DC

STCK7 HIGH 1ST HIGH VALUE IS 1137.23663 ON 05071701: AT (631550.63, 4175700.50, 52.78, 52.78, 0.00) DC

STCK8 HIGH 1ST HIGH VALUE IS 1037.95085 ON 05071702: AT (631450.63, 4175600.50, 54.98, 54.98, 0.00) DC

STCK9 HIGH 1ST HIGH VALUE IS 914.58432 ON 07090902: AT (631650.63, 4175500.50, 53.39, 53.39, 0.00) DC

SLINE6 HIGH 1ST HIGH VALUE IS 514.39561 ON 07012317: AT (631474.21, 4175414.65, 56.22, 56.22, 0.00) DC

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 15 Warning Message(s)
A Total of 375 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 375 Calm Hours Identified

A Total of 0 Missing Hours Identified (0.00 Percent)

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

******** WARNING MESSAGES ********

SO W320	2061	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2062	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2063	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2064	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2065	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2066	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2067	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2068	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2069	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2070	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2071	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2072	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2073	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	2074	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W187	3298	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

****
*** AERMOD Finishes Successfully ***
****

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/18/2023
** File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 -
CONSTR\Tracy Costco V3\Tracy Costco V3.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
  TITLEONE C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C
  MODELOPT CONC
  AVERTIME 1 PERIOD
  POLLUTID OTHER
  RUNORNOT RUN
  ERRORFIL "Tracy Costco V3.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION VOL1       VOLUME    631388.920  4175856.380      52.950
** DESCRSRC Construction Volume Source 1
  LOCATION VOL2       VOLUME    631688.920  4175856.380      49.570
** DESCRSRC Construction Volume Source 2
  LOCATION VOL3       VOLUME    631388.920  4175656.380      55.140
** DESCRSRC Construction Volume Source 3
  LOCATION VOL4       VOLUME    631688.920  4175656.380      51.640
** DESCRSRC Construction Volume Source 4
  LOCATION VOL5       VOLUME    631688.920  4175456.380      53.240
** DESCRSRC Construction Volume Source 5
  LOCATION VOL6       VOLUME    631488.920  4175456.380      55.670
** DESCRSRC Construction Volume Source 6
  LOCATION VOL7       VOLUME    631738.920  4175256.380      54.740
** DESCRSRC Construction Volume Source 7
** Source Parameters **
  SRCPARAM VOL1          1.0    2.438   46.053    1.400
  SRCPARAM VOL2          1.0    2.438   46.053    1.400
  SRCPARAM VOL3          1.0    2.438   46.053    1.400
  SRCPARAM VOL4          1.0    2.438   46.053    1.400
```

```
  SRCPARAM VOL5          1.0    2.438   46.053    1.400
  SRCPARAM VOL6          1.0    2.438   46.053    1.400
  SRCPARAM VOL7          1.0    2.438   46.053    1.400
  SRCGROUP VOL1    VOL1
  SRCGROUP VOL2    VOL2
  SRCGROUP VOL3    VOL3
  SRCGROUP VOL4    VOL4
  SRCGROUP VOL5    VOL5
  SRCGROUP VOL6    VOL6
  SRCGROUP VOL7    VOL7
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
  INCLUDED "Tracy Costco V3.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
  SURFFILE AERMET\Tracy_2004-2008.SFC
  PROFFILE AERMET\Tracy_2004-2008.PFL
  SURFDATA 99008 2004 Tracy,CA
  UAIRDATA 66666 2004
  PROFBASE 158.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 VOL1 1ST "TRACY COSTCO V3.AD\01H1G001.PLT" 31
  PLOTFILE 1 VOL2 1ST "TRACY COSTCO V3.AD\01H1G002.PLT" 32
  PLOTFILE 1 VOL3 1ST "TRACY COSTCO V3.AD\01H1G003.PLT" 33
  PLOTFILE 1 VOL4 1ST "TRACY COSTCO V3.AD\01H1G004.PLT" 34
  PLOTFILE 1 VOL5 1ST "TRACY COSTCO V3.AD\01H1G005.PLT" 35
  PLOTFILE 1 VOL6 1ST "TRACY COSTCO V3.AD\01H1G006.PLT" 36
  PLOTFILE 1 VOL7 1ST "TRACY COSTCO V3.AD\01H1G007.PLT" 37
  PLOTFILE PERIOD VOL1 "TRACY COSTCO V3.AD\PE00G001.PLT" 38
  PLOTFILE PERIOD VOL2 "TRACY COSTCO V3.AD\PE00G002.PLT" 39
  PLOTFILE PERIOD VOL3 "TRACY COSTCO V3.AD\PE00G003.PLT" 40
  PLOTFILE PERIOD VOL4 "TRACY COSTCO V3.AD\PE00G004.PLT" 41
  PLOTFILE PERIOD VOL5 "TRACY COSTCO V3.AD\PE00G005.PLT" 42
```

```
  PLOTFILE PERIOD VOL6 "TRACY COSTCO V3.AD\PE00G006.PLT" 43
  PLOTFILE PERIOD VOL7 "TRACY COSTCO V3.AD\PE00G007.PLT" 44
  SUMMFILE "Tracy Costco V3.sum"
OU FINISHED


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

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

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


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


  ********   WARNING MESSAGES   ********
ME W187     86      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

  *** AERMOD - VERSION  19191 ***   *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***       12/18/23
*** AERMET - VERSION  18081 ***   ***                                          ***       11:24:12
                                                                      PAGE   1
*** MODELOPTs:    CONC  ELEV  RURAL  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 RURAL Dispersion Only.

**Model Allows User-Specified 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.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
```

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 7 Source(s); 7 Source Group(s); and 426 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 7 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: 18081

**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) = 158.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Tracy Costco V3.err
**File for Summary of Results: Tracy Costco V3.sum
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** *** *** 11:24:12
PAGE 2
*** MODELOPTs: CONC ELEV RURAL 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	EMISSION RATE SCALAR VARY BY
VOL1	0	0.10000E+01	631388.9	4175856.4	52.9	2.44	46.05	1.40	NO	
VOL2	0	0.10000E+01	631688.9	4175856.4	49.6	2.44	46.05	1.40	NO	
VOL3	0	0.10000E+01	631388.9	4175656.4	55.1	2.44	46.05	1.40	NO	
VOL4	0	0.10000E+01	631688.9	4175656.4	51.6	2.44	46.05	1.40	NO	
VOL5	0	0.10000E+01	631688.9	4175456.4	53.2	2.44	46.05	1.40	NO	
VOL6	0	0.10000E+01	631488.9	4175456.4	55.7	2.44	46.05	1.40	NO	
VOL7	0	0.10000E+01	631738.9	4175256.4	54.7	2.44	46.05	1.40	NO	

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
VOL1	VOL1 ,
VOL2	VOL2 ,
VOL3	VOL3 ,
VOL4	VOL4 ,
VOL5	VOL5 ,
VOL6	VOL6 ,
VOL7	VOL7 ,

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(632121.2,	4174952.4,	58.1,	58.1,	0.0);	(632304.4,	4174354.5,	71.1,	71.1,	0.0);
(632192.2,	4174956.3,	56.8,	56.8,	0.0);	(632420.6,	4175510.1,	46.0,	46.0,	0.0);
(632419.0,	4175552.9,	45.6,	45.6,	0.0);	(631187.0,	4175727.0,	56.4,	56.4,	0.0);
(631166.0,	4175729.0,	56.1,	56.1,	0.0);	(631121.0,	4175719.0,	56.0,	56.0,	0.0);
(631035.0,	4174830.0,	71.6,	71.6,	0.0);	(631106.0,	4174825.0,	71.3,	71.3,	0.0);
(631937.0,	4174528.0,	67.1,	67.1,	0.0);	(631322.0,	4174522.0,	87.6,	87.6,	0.0);
(629800.6,	4173850.4,	117.9,	261.9,	0.0);	(630150.6,	4173850.4,	118.9,	261.9,	0.0);

(630500.6, 4173850.4, 111.9, 261.9, 0.0); (630850.6, 4173850.4, 95.0, 304.8, 0.0);
(631200.6, 4173850.4, 104.5, 104.5, 0.0); (631550.6, 4173850.4, 89.4, 180.1, 0.0);
(631900.6, 4173850.4, 96.9, 105.0, 0.0); (632250.6, 4173850.4, 85.5, 85.5, 0.0);
(632600.6, 4173850.4, 77.2, 77.2, 0.0); (632950.6, 4173850.4, 69.6, 69.6, 0.0);
(633300.6, 4173850.4, 62.8, 62.8, 0.0); (629800.6, 4174200.4, 106.6, 261.9, 0.0);
(630150.6, 4174200.4, 100.2, 261.9, 0.0); (630500.6, 4174200.4, 88.8, 261.9, 0.0);
(630850.6, 4174200.4, 90.2, 90.2, 0.0); (631200.6, 4174200.4, 93.5, 99.0, 0.0);
(631550.6, 4174200.4, 80.9, 80.9, 0.0); (631900.6, 4174200.4, 75.8, 75.8, 0.0);
(632250.6, 4174200.4, 75.2, 75.2, 0.0); (632600.6, 4174200.4, 70.8, 70.8, 0.0);
(632950.6, 4174200.4, 65.2, 65.2, 0.0); (633300.6, 4174200.4, 59.6, 59.6, 0.0);
(629800.6, 4174550.4, 86.6, 247.1, 0.0); (630150.6, 4174550.4, 85.5, 85.5, 0.0);
(630500.6, 4174550.4, 78.0, 85.7, 0.0); (630850.6, 4174550.4, 78.2, 78.2, 0.0);
(631200.6, 4174550.4, 76.2, 91.7, 0.0); (631550.6, 4174550.4, 77.9, 78.4, 0.0);
(631900.6, 4174550.4, 66.3, 66.3, 0.0); (632250.6, 4174550.4, 66.5, 66.5, 0.0);
(632600.6, 4174550.4, 64.5, 64.5, 0.0); (632950.6, 4174550.4, 59.5, 59.5, 0.0);
(633300.6, 4174550.4, 54.6, 54.6, 0.0); (629800.6, 4174900.4, 85.9, 85.9, 0.0);
(630150.6, 4174900.4, 84.0, 88.1, 0.0); (630500.6, 4174900.4, 73.5, 73.5, 0.0);
(630850.6, 4174900.4, 70.7, 70.7, 0.0); (631200.6, 4174900.4, 69.0, 69.0, 0.0);
(631550.6, 4174900.4, 64.3, 64.3, 0.0); (631900.6, 4174900.4, 59.6, 59.6, 0.0);
(632250.6, 4174900.4, 58.2, 58.2, 0.0); (632600.6, 4174900.4, 57.3, 57.3, 0.0);
(632950.6, 4174900.4, 54.1, 54.1, 0.0); (633300.6, 4174900.4, 50.1, 50.1, 0.0);
(629800.6, 4175250.4, 82.6, 82.6, 0.0); (630150.6, 4175250.4, 74.2, 74.2, 0.0);
(630500.6, 4175250.4, 67.4, 67.4, 0.0); (630850.6, 4175250.4, 66.4, 66.4, 0.0);
(631200.6, 4175250.4, 61.6, 61.6, 0.0); (631550.6, 4175250.4, 58.8, 58.8, 0.0);
(631900.6, 4175250.4, 53.5, 53.5, 0.0); (632250.6, 4175250.4, 51.4, 51.4, 0.0);
(632600.6, 4175250.4, 49.6, 49.6, 0.0); (632950.6, 4175250.4, 47.6, 47.6, 0.0);
(633300.6, 4175250.4, 44.6, 44.6, 0.0); (629800.6, 4175600.4, 71.0, 71.0, 0.0);
(630150.6, 4175600.4, 68.8, 68.8, 0.0); (630500.6, 4175600.4, 66.7, 66.7, 0.0);
(630850.6, 4175600.4, 64.6, 64.6, 0.0); (631200.6, 4175600.4, 58.7, 58.7, 0.0);
(631550.6, 4175600.4, 53.8, 53.8, 0.0); (631900.6, 4175600.4, 49.5, 49.5, 0.0);
(632250.6, 4175600.4, 46.2, 46.2, 0.0); (632600.6, 4175600.4, 43.4, 43.4, 0.0);
(632950.6, 4175600.4, 39.7, 47.5, 0.0); (633300.6, 4175600.4, 39.3, 39.3, 0.0);
(629800.6, 4175950.4, 66.5, 66.5, 0.0); (630150.6, 4175950.4, 67.9, 67.9, 0.0);
(630500.6, 4175950.4, 61.8, 61.8, 0.0); (630850.6, 4175950.4, 57.3, 57.3, 0.0);
(631200.6, 4175950.4, 53.0, 53.0, 0.0); (631550.6, 4175950.4, 50.1, 50.1, 0.0);
(631900.6, 4175950.4, 46.2, 46.2, 0.0); (632250.6, 4175950.4, 42.8, 42.8, 0.0);
(632600.6, 4175950.4, 40.5, 40.5, 0.0); (632950.6, 4175950.4, 39.5, 39.5, 0.0);
(633300.6, 4175950.4, 35.3, 35.3, 0.0); (629800.6, 4176300.4, 62.9, 62.9, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(630150.6, 4176300.4, 60.3, 60.3, 0.0); (630500.6, 4176300.4, 56.5, 56.5, 0.0);
(630850.6, 4176300.4, 51.8, 51.8, 0.0); (631200.6, 4176300.4, 49.2, 49.2, 0.0);
(631550.6, 4176300.4, 46.3, 46.3, 0.0); (631900.6, 4176300.4, 42.1, 42.1, 0.0);
(632250.6, 4176300.4, 39.6, 39.6, 0.0); (632600.6, 4176300.4, 37.1, 37.1, 0.0);
(632950.6, 4176300.4, 35.0, 35.0, 0.0); (633300.6, 4176300.4, 32.9, 32.9, 0.0);
(629800.6, 4176650.4, 60.0, 60.0, 0.0); (630150.6, 4176650.4, 54.3, 54.3, 0.0);
(630500.6, 4176650.4, 51.4, 51.4, 0.0); (630850.6, 4176650.4, 49.5, 49.5, 0.0);

(631200.6, 4176650.4, 43.6, 43.6, 0.0); (631550.6, 4176650.4, 42.3, 42.3, 0.0);
(631900.6, 4176650.4, 39.7, 39.7, 0.0); (632250.6, 4176650.4, 36.5, 36.5, 0.0);
(632600.6, 4176650.4, 34.0, 34.0, 0.0); (632950.6, 4176650.4, 31.2, 31.2, 0.0);
(633300.6, 4176650.4, 29.9, 29.9, 0.0); (629800.6, 4177000.4, 54.3, 54.3, 0.0);
(630150.6, 4177000.4, 49.7, 49.7, 0.0); (630500.6, 4177000.4, 48.6, 48.6, 0.0);
(630850.6, 4177000.4, 46.4, 46.4, 0.0); (631200.6, 4177000.4, 40.9, 40.9, 0.0);
(631550.6, 4177000.4, 41.2, 41.2, 0.0); (631900.6, 4177000.4, 35.9, 35.9, 0.0);
(632250.6, 4177000.4, 33.6, 33.6, 0.0); (632600.6, 4177000.4, 31.2, 31.2, 0.0);
(632950.6, 4177000.4, 28.8, 28.8, 0.0); (633300.6, 4177000.4, 27.2, 27.2, 0.0);
(629800.6, 4177350.4, 53.1, 53.1, 0.0); (630150.6, 4177350.4, 47.1, 47.1, 0.0);
(630500.6, 4177350.4, 38.6, 38.6, 0.0); (630850.6, 4177350.4, 41.5, 41.5, 0.0);
(631200.6, 4177350.4, 36.5, 36.5, 0.0); (631550.6, 4177350.4, 36.4, 36.4, 0.0);
(631900.6, 4177350.4, 33.2, 33.2, 0.0); (632250.6, 4177350.4, 30.6, 30.6, 0.0);
(632600.6, 4177350.4, 28.4, 28.4, 0.0); (632950.6, 4177350.4, 26.2, 26.2, 0.0);
(633300.6, 4177350.4, 24.5, 24.5, 0.0); (631670.7, 4175493.6, 53.2, 53.2, 0.0);
(631669.8, 4175641.4, 52.0, 52.0, 0.0); (631665.3, 4175796.4, 50.5, 50.5, 0.0);
(631417.2, 4175826.8, 52.9, 52.9, 0.0); (631417.2, 4175673.7, 54.6, 54.6, 0.0);
(631422.6, 4175484.6, 56.2, 56.2, 0.0); (631268.4, 4175983.7, 52.8, 52.8, 0.0);
(631275.7, 4175524.0, 58.8, 58.8, 0.0); (631345.7, 4175419.5, 58.8, 58.8, 0.0);
(631384.7, 4175441.3, 57.7, 57.7, 0.0); (631491.9, 4175442.2, 55.8, 55.8, 0.0);
(631491.9, 4175414.9, 56.0, 56.0, 0.0); (631385.6, 4175413.1, 59.0, 59.0, 0.0);
(631358.4, 4175395.9, 58.8, 58.8, 0.0); (631409.2, 4175336.8, 58.8, 58.8, 0.0);
(631567.4, 4175236.0, 58.8, 58.8, 0.0); (631756.3, 4175028.8, 58.9, 58.9, 0.0);
(631807.2, 4175003.4, 59.0, 59.0, 0.0); (631867.2, 4174987.9, 58.7, 58.7, 0.0);
(631849.9, 4175988.3, 46.8, 46.8, 0.0); (631268.7, 4175963.8, 52.9, 52.9, 0.0);
(631269.1, 4175943.8, 53.2, 53.2, 0.0); (631269.4, 4175923.8, 53.5, 53.5, 0.0);
(631269.7, 4175903.8, 53.8, 53.8, 0.0); (631270.0, 4175883.8, 54.0, 54.0, 0.0);
(631270.3, 4175863.8, 54.1, 54.1, 0.0); (631270.6, 4175843.8, 53.9, 53.9, 0.0);
(631271.0, 4175823.8, 53.9, 53.9, 0.0); (631271.3, 4175803.8, 54.1, 54.1, 0.0);
(631271.6, 4175783.8, 54.7, 54.7, 0.0); (631271.9, 4175763.9, 55.3, 55.3, 0.0);
(631272.2, 4175743.9, 55.8, 55.8, 0.0); (631272.5, 4175723.9, 56.0, 56.0, 0.0);
(631272.9, 4175703.9, 56.4, 56.4, 0.0); (631273.2, 4175683.9, 56.7, 56.7, 0.0);
(631273.5, 4175663.9, 57.1, 57.1, 0.0); (631273.8, 4175643.9, 57.2, 57.2, 0.0);
(631274.1, 4175623.9, 57.2, 57.2, 0.0); (631274.4, 4175603.9, 57.5, 57.5, 0.0);
(631274.7, 4175584.0, 58.0, 58.0, 0.0); (631275.1, 4175564.0, 58.8, 58.8, 0.0);
(631275.4, 4175544.0, 58.9, 58.9, 0.0); (631285.7, 4175509.1, 58.6, 58.6, 0.0);
(631295.7, 4175494.1, 58.8, 58.8, 0.0); (631305.7, 4175479.2, 58.7, 58.7, 0.0);
(631315.7, 4175464.3, 58.6, 58.6, 0.0); (631325.7, 4175449.3, 58.8, 58.8, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631335.7, 4175434.4, 58.5, 58.5, 0.0); (631358.7, 4175426.8, 58.9, 58.9, 0.0);
(631371.7, 4175434.0, 58.6, 58.6, 0.0); (631402.6, 4175441.4, 57.0, 57.0, 0.0);
(631420.5, 4175441.6, 56.6, 56.6, 0.0); (631438.3, 4175441.8, 56.4, 56.4, 0.0);
(631456.2, 4175441.9, 56.2, 56.2, 0.0); (631474.1, 4175442.1, 55.9, 55.9, 0.0);
(631491.9, 4175428.6, 55.9, 55.9, 0.0); (631474.2, 4175414.6, 56.2, 56.2, 0.0);
(631456.5, 4175414.3, 56.4, 56.4, 0.0); (631438.8, 4175414.0, 56.7, 56.7, 0.0);
(631421.1, 4175413.7, 57.3, 57.3, 0.0); (631403.4, 4175413.4, 58.1, 58.1, 0.0);

(631372.0, 4175404.5, 58.8, 58.8, 0.0); (631371.1, 4175381.1, 58.8, 58.8, 0.0);
(631383.8, 4175366.3, 58.7, 58.7, 0.0); (631396.5, 4175351.6, 58.7, 58.7, 0.0);
(631425.1, 4175326.7, 58.9, 58.9, 0.0); (631440.9, 4175316.6, 58.6, 58.6, 0.0);
(631456.7, 4175306.6, 58.8, 58.8, 0.0); (631472.5, 4175296.5, 58.9, 58.9, 0.0);
(631488.3, 4175286.4, 58.7, 58.7, 0.0); (631504.1, 4175276.3, 58.9, 58.9, 0.0);
(631519.9, 4175266.2, 58.9, 58.9, 0.0); (631535.7, 4175256.1, 58.6, 58.6, 0.0);
(631551.5, 4175246.0, 58.8, 58.8, 0.0); (631580.0, 4175222.1, 58.7, 58.7, 0.0);
(631592.6, 4175208.3, 59.0, 59.0, 0.0); (631605.2, 4175194.5, 58.7, 58.7, 0.0);
(631617.7, 4175180.7, 59.0, 59.0, 0.0); (631630.3, 4175166.9, 58.6, 58.6, 0.0);
(631642.9, 4175153.1, 58.9, 58.9, 0.0); (631655.5, 4175139.3, 58.6, 58.6, 0.0);
(631668.1, 4175125.5, 58.9, 58.9, 0.0); (631680.7, 4175111.7, 58.7, 58.7, 0.0);
(631693.3, 4175097.8, 58.8, 58.8, 0.0); (631705.9, 4175084.0, 58.7, 58.7, 0.0);
(631718.5, 4175070.2, 58.8, 58.8, 0.0); (631731.1, 4175056.4, 58.8, 58.8, 0.0);
(631743.7, 4175042.6, 58.7, 58.7, 0.0); (631773.3, 4175020.3, 58.8, 58.8, 0.0);
(631790.3, 4175011.8, 58.7, 58.7, 0.0); (631822.2, 4174999.5, 59.1, 59.1, 0.0);
(631837.2, 4174995.6, 59.1, 59.1, 0.0); (631852.2, 4174991.8, 58.9, 58.9, 0.0);
(631866.8, 4175007.5, 59.2, 59.2, 0.0); (631866.5, 4175027.1, 58.6, 58.6, 0.0);
(631866.2, 4175046.8, 57.2, 57.2, 0.0); (631865.8, 4175066.4, 56.4, 56.4, 0.0);
(631865.5, 4175086.0, 55.9, 55.9, 0.0); (631865.2, 4175105.6, 55.6, 55.6, 0.0);
(631864.8, 4175125.2, 55.3, 55.3, 0.0); (631864.5, 4175144.8, 55.0, 55.0, 0.0);
(631864.1, 4175164.4, 54.7, 54.7, 0.0); (631863.8, 4175184.1, 54.4, 54.4, 0.0);
(631863.5, 4175203.7, 54.1, 54.1, 0.0); (631863.1, 4175223.3, 53.8, 53.8, 0.0);
(631862.8, 4175242.9, 53.5, 53.5, 0.0); (631862.4, 4175262.5, 53.2, 53.2, 0.0);
(631862.1, 4175282.1, 53.0, 53.0, 0.0); (631861.8, 4175301.8, 52.7, 52.7, 0.0);
(631861.4, 4175321.4, 52.5, 52.5, 0.0); (631861.1, 4175341.0, 52.3, 52.3, 0.0);
(631860.8, 4175360.6, 52.0, 52.0, 0.0); (631860.4, 4175380.2, 51.9, 51.9, 0.0);
(631860.1, 4175399.8, 51.7, 51.7, 0.0); (631859.7, 4175419.4, 51.5, 51.5, 0.0);
(631859.4, 4175439.1, 51.3, 51.3, 0.0); (631859.1, 4175458.7, 51.1, 51.1, 0.0);
(631858.7, 4175478.3, 51.0, 51.0, 0.0); (631858.4, 4175497.9, 50.9, 50.9, 0.0);
(631858.0, 4175517.5, 50.7, 50.7, 0.0); (631857.7, 4175537.1, 50.6, 50.6, 0.0);
(631857.4, 4175556.8, 50.4, 50.4, 0.0); (631857.0, 4175576.4, 50.3, 50.3, 0.0);
(631856.7, 4175596.0, 50.1, 50.1, 0.0); (631856.4, 4175615.6, 50.0, 50.0, 0.0);
(631856.0, 4175635.2, 49.8, 49.8, 0.0); (631855.7, 4175654.8, 49.6, 49.6, 0.0);
(631855.3, 4175674.4, 49.5, 49.5, 0.0); (631855.0, 4175694.0, 49.3, 49.3, 0.0);
(631854.7, 4175713.7, 49.1, 49.1, 0.0); (631854.3, 4175733.3, 49.0, 49.0, 0.0);
(631854.0, 4175752.9, 48.8, 48.8, 0.0); (631853.6, 4175772.5, 48.6, 48.6, 0.0);
(631853.3, 4175792.1, 48.4, 48.4, 0.0); (631853.0, 4175811.7, 48.3, 48.3, 0.0);
(631852.6, 4175831.4, 48.1, 48.1, 0.0); (631852.3, 4175851.0, 48.0, 48.0, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631852.0, 4175870.6, 47.8, 47.8, 0.0); (631851.6, 4175890.2, 47.6, 47.6, 0.0);
(631851.3, 4175909.8, 47.4, 47.4, 0.0); (631850.9, 4175929.4, 47.2, 47.2, 0.0);
(631850.6, 4175949.0, 47.1, 47.1, 0.0); (631850.3, 4175968.7, 47.0, 47.0, 0.0);
(631830.5, 4175988.1, 47.0, 47.0, 0.0); (631811.2, 4175988.0, 47.2, 47.2, 0.0);
(631791.8, 4175987.8, 47.4, 47.4, 0.0); (631772.4, 4175987.7, 47.6, 47.6, 0.0);
(631753.0, 4175987.5, 47.8, 47.8, 0.0); (631733.6, 4175987.4, 48.0, 48.0, 0.0);
(631714.2, 4175987.2, 48.1, 48.1, 0.0); (631694.9, 4175987.1, 48.3, 48.3, 0.0);

(631675.5, 4175986.9, 48.5, 48.5, 0.0); (631656.1, 4175986.8, 48.8, 48.8, 0.0);
(631636.7, 4175986.6, 49.0, 49.0, 0.0); (631617.3, 4175986.5, 49.2, 49.2, 0.0);
(631597.9, 4175986.3, 49.5, 49.5, 0.0); (631578.6, 4175986.2, 49.7, 49.7, 0.0);
(631559.2, 4175986.0, 49.9, 49.9, 0.0); (631539.8, 4175985.9, 50.1, 50.1, 0.0);
(631520.4, 4175985.7, 50.3, 50.3, 0.0); (631501.0, 4175985.6, 50.5, 50.5, 0.0);
(631481.6, 4175985.4, 50.7, 50.7, 0.0); (631462.2, 4175985.2, 50.9, 50.9, 0.0);
(631442.9, 4175985.1, 51.1, 51.1, 0.0); (631423.5, 4175984.9, 51.3, 51.3, 0.0);
(631404.1, 4175984.8, 51.5, 51.5, 0.0); (631384.7, 4175984.6, 51.8, 51.8, 0.0);
(631365.3, 4175984.5, 51.9, 51.9, 0.0); (631346.0, 4175984.3, 52.1, 52.1, 0.0);
(631326.6, 4175984.2, 52.3, 52.3, 0.0); (631307.2, 4175984.0, 52.5, 52.5, 0.0);
(631287.8, 4175983.9, 52.7, 52.7, 0.0); (631050.6, 4175100.5, 65.6, 65.6, 0.0);
(631050.6, 4175200.5, 64.5, 64.5, 0.0); (631050.6, 4175300.5, 63.6, 63.6, 0.0);
(631050.6, 4175400.5, 62.8, 62.8, 0.0); (631050.6, 4175500.5, 62.3, 62.3, 0.0);
(631050.6, 4175600.5, 60.1, 60.1, 0.0); (631050.6, 4175700.5, 60.3, 60.3, 0.0);
(631050.6, 4175800.5, 58.3, 58.3, 0.0); (631050.6, 4175900.5, 55.5, 55.5, 0.0);
(631050.6, 4176000.5, 54.7, 54.7, 0.0); (631050.6, 4176100.5, 53.8, 53.8, 0.0);
(631150.6, 4175100.5, 64.9, 64.9, 0.0); (631150.6, 4175200.5, 62.9, 62.9, 0.0);
(631150.6, 4175300.5, 61.3, 61.3, 0.0); (631150.6, 4175400.5, 60.5, 60.5, 0.0);
(631150.6, 4175500.5, 60.0, 60.0, 0.0); (631150.6, 4175600.5, 58.9, 58.9, 0.0);
(631150.6, 4175700.5, 56.5, 56.5, 0.0); (631150.6, 4175800.5, 54.7, 54.7, 0.0);
(631150.6, 4175900.5, 53.7, 53.7, 0.0); (631150.6, 4176000.5, 53.3, 53.3, 0.0);
(631150.6, 4176100.5, 51.6, 51.6, 0.0); (631250.6, 4175100.5, 64.0, 64.0, 0.0);
(631250.6, 4175200.5, 62.1, 62.1, 0.0); (631250.6, 4175300.5, 60.4, 60.4, 0.0);
(631250.6, 4175400.5, 59.5, 59.5, 0.0); (631250.6, 4175500.5, 59.4, 59.4, 0.0);
(631250.6, 4175600.5, 58.4, 58.4, 0.0); (631250.6, 4175700.5, 56.7, 56.7, 0.0);
(631250.6, 4175800.5, 53.7, 53.7, 0.0); (631250.6, 4175900.5, 53.9, 53.9, 0.0);
(631250.6, 4176000.5, 52.8, 52.8, 0.0); (631250.6, 4176100.5, 51.1, 51.1, 0.0);
(631350.6, 4175100.5, 63.0, 63.0, 0.0); (631350.6, 4175200.5, 61.1, 61.1, 0.0);
(631350.6, 4175300.5, 59.4, 59.4, 0.0); (631350.6, 4175400.5, 58.9, 58.9, 0.0);
(631350.6, 4175500.5, 57.6, 57.6, 0.0); (631350.6, 4175600.5, 56.2, 56.2, 0.0);
(631350.6, 4175700.5, 55.1, 55.1, 0.0); (631350.6, 4175800.5, 54.0, 54.0, 0.0);
(631350.6, 4175900.5, 52.9, 52.9, 0.0); (631350.6, 4176000.5, 52.0, 52.0, 0.0);
(631350.6, 4176100.5, 50.7, 50.7, 0.0); (631450.6, 4175100.5, 61.9, 61.9, 0.0);
(631450.6, 4175200.5, 60.0, 60.0, 0.0); (631450.6, 4175300.5, 59.0, 59.0, 0.0);
(631450.6, 4175400.5, 56.8, 56.8, 0.0); (631450.6, 4175500.5, 55.8, 55.8, 0.0);
(631450.6, 4175600.5, 55.0, 55.0, 0.0); (631450.6, 4175700.5, 53.9, 53.9, 0.0);
(631450.6, 4175800.5, 52.8, 52.8, 0.0); (631450.6, 4175900.5, 51.7, 51.7, 0.0);
(631450.6, 4176000.5, 51.1, 51.1, 0.0); (631450.6, 4176100.5, 50.4, 50.4, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(631550.6, 4175100.5, 60.2, 60.2, 0.0); (631550.6, 4175200.5, 59.4, 59.4, 0.0);
(631550.6, 4175300.5, 58.2, 58.2, 0.0); (631550.6, 4175400.5, 55.5, 55.5, 0.0);
(631550.6, 4175500.5, 54.6, 54.6, 0.0); (631550.6, 4175600.5, 53.8, 53.8, 0.0);
(631550.6, 4175700.5, 52.8, 52.8, 0.0); (631550.6, 4175800.5, 51.7, 51.7, 0.0);
(631550.6, 4175900.5, 50.6, 50.6, 0.0); (631550.6, 4176000.5, 50.0, 50.0, 0.0);
(631550.6, 4176100.5, 48.7, 48.7, 0.0); (631650.6, 4175100.5, 59.7, 59.7, 0.0);
(631650.6, 4175200.5, 58.8, 58.8, 0.0); (631650.6, 4175300.5, 55.3, 55.3, 0.0);

(631650.6, 4175400.5, 54.2, 54.2, 0.0); (631650.6, 4175500.5, 53.4, 53.4, 0.0);
(631650.6, 4175600.5, 52.6, 52.6, 0.0); (631650.6, 4175700.5, 51.6, 51.6, 0.0);
(631650.6, 4175800.5, 50.6, 50.6, 0.0); (631650.6, 4175900.5, 49.5, 49.5, 0.0);
(631650.6, 4176000.5, 48.8, 48.8, 0.0); (631650.6, 4176100.5, 47.5, 47.5, 0.0);
(631750.6, 4175100.5, 57.9, 57.9, 0.0); (631750.6, 4175200.5, 55.3, 55.3, 0.0);
(631750.6, 4175300.5, 54.0, 54.0, 0.0); (631750.6, 4175400.5, 53.0, 53.0, 0.0);
(631750.6, 4175500.5, 52.2, 52.2, 0.0); (631750.6, 4175600.5, 51.4, 51.4, 0.0);
(631750.6, 4175700.5, 50.5, 50.5, 0.0); (631750.6, 4175800.5, 49.5, 49.5, 0.0);
(631750.6, 4175900.5, 48.4, 48.4, 0.0); (631750.6, 4176000.5, 47.7, 47.7, 0.0);
(631750.6, 4176100.5, 46.2, 46.2, 0.0); (631850.6, 4175100.5, 55.5, 55.5, 0.0);
(631850.6, 4175200.5, 54.0, 54.0, 0.0); (631850.6, 4175300.5, 52.8, 52.8, 0.0);
(631850.6, 4175400.5, 51.8, 51.8, 0.0); (631850.6, 4175500.5, 51.0, 51.0, 0.0);
(631850.6, 4175600.5, 50.2, 50.2, 0.0); (631850.6, 4175700.5, 49.3, 49.3, 0.0);
(631850.6, 4175800.5, 48.4, 48.4, 0.0); (631850.6, 4175900.5, 47.5, 47.5, 0.0);
(631850.6, 4176000.5, 46.6, 46.6, 0.0); (631850.6, 4176100.5, 44.8, 44.8, 0.0);
(631950.6, 4175100.5, 55.8, 55.8, 0.0); (631950.6, 4175200.5, 54.1, 54.1, 0.0);
(631950.6, 4175300.5, 52.3, 52.3, 0.0); (631950.6, 4175400.5, 50.7, 50.7, 0.0);
(631950.6, 4175500.5, 49.8, 49.8, 0.0); (631950.6, 4175600.5, 49.1, 49.1, 0.0);
(631950.6, 4175700.5, 48.1, 48.1, 0.0); (631950.6, 4175800.5, 47.2, 47.2, 0.0);
(631950.6, 4175900.5, 46.2, 46.2, 0.0); (631950.6, 4176000.5, 45.3, 45.3, 0.0);
(631950.6, 4176100.5, 43.4, 43.4, 0.0); (632050.6, 4175100.5, 55.1, 55.1, 0.0);
(632050.6, 4175200.5, 53.3, 53.3, 0.0); (632050.6, 4175300.5, 51.5, 51.5, 0.0);
(632050.6, 4175400.5, 49.9, 49.9, 0.0); (632050.6, 4175500.5, 48.8, 48.8, 0.0);
(632050.6, 4175600.5, 48.1, 48.1, 0.0); (632050.6, 4175700.5, 47.3, 47.3, 0.0);
(632050.6, 4175800.5, 46.2, 46.2, 0.0); (632050.6, 4175900.5, 45.1, 45.1, 0.0);
(632050.6, 4176000.5, 44.2, 44.2, 0.0); (632050.6, 4176100.5, 42.7, 42.7, 0.0);

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL1	631417.2	4175826.8	-58.15
VOL1	631350.6	4175800.5	-31.27
VOL1	631350.6	4175900.5	-40.60
VOL1	631450.6	4175800.5	-15.76
VOL1	631450.6	4175900.5	-23.15
VOL2	631665.3	4175796.4	-34.55
VOL2	631650.6	4175800.5	-31.27
VOL2	631650.6	4175900.5	-40.60
VOL2	631750.6	4175800.5	-15.76
VOL2	631750.6	4175900.5	-23.15
VOL3	631417.2	4175673.7	-65.90
VOL3	631350.6	4175600.5	-31.27
VOL3	631350.6	4175700.5	-40.60
VOL3	631450.6	4175600.5	-15.76

VOL3	631450.6	4175700.5	-23.15
VOL4	631669.8	4175641.4	-74.73
VOL4	631650.6	4175600.5	-31.27
VOL4	631650.6	4175700.5	-40.60
VOL4	631750.6	4175600.5	-15.76
VOL4	631750.6	4175700.5	-23.15
VOL5	631670.7	4175493.6	-57.58
VOL5	631650.6	4175400.5	-31.27
VOL5	631650.6	4175500.5	-40.60
VOL5	631750.6	4175400.5	-15.76
VOL5	631750.6	4175500.5	-23.15
VOL6	631422.6	4175484.6	-26.88
VOL6	631491.9	4175442.2	-84.53
VOL6	631491.9	4175414.9	-57.47
VOL6	631402.6	4175441.4	-11.40
VOL6	631420.5	4175441.6	-28.98
VOL6	631438.3	4175441.8	-46.35
VOL6	631456.2	4175441.9	-63.23
VOL6	631474.1	4175442.1	-78.38
VOL6	631491.9	4175428.6	-71.05
VOL6	631474.2	4175414.6	-54.77
VOL6	631456.5	4175414.3	-45.93
VOL6	631438.8	4175414.0	-33.39
VOL6	631421.1	4175413.7	-18.87
VOL6	631403.4	4175413.4	-3.27
VOL6	631450.6	4175400.5	-31.27

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL6	631450.6	4175500.5	-40.60
VOL6	631550.6	4175400.5	-15.76
VOL6	631550.6	4175500.5	-23.15
VOL7	631650.6	4175300.5	-0.31
VOL7	631750.6	4175200.5	-41.92
VOL7	631750.6	4175300.5	-53.37

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
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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
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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
```

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: CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\Tracy_2004-2008.SFC Met Version: 18081
Profile file: AERMET\Tracy_2004-2008.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 99008 Upper air station no.: 66666
Name: TRACY,CA Name: UNKNOWN
Year: 2004 Year: 2004

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
04	01	01	1	01	-30.2	0.306	-9.000	-9.000	-999.	406.	102.9	0.09	0.77	1.00	4.10	151.	14.0	282.0	2.0
04	01	01	1	02	-35.7	0.362	-9.000	-9.000	-999.	523.	144.2	0.11	0.77	1.00	4.60	148.	14.0	282.0	2.0
04	01	01	1	03	-44.6	0.453	-9.000	-9.000	-999.	731.	225.4	0.11	0.77	1.00	5.70	144.	14.0	281.8	2.0
04	01	01	1	04	-48.8	0.494	-9.000	-9.000	-999.	833.	268.6	0.11	0.77	1.00	6.20	143.	14.0	281.6	2.0
04	01	01	1	05	-52.8	0.536	-9.000	-9.000	-999.	940.	315.8	0.11	0.77	1.00	6.70	143.	14.0	281.5	2.0
04	01	01	1	06	-57.0	0.578	-9.000	-9.000	-999.	1052.	367.0	0.11	0.77	1.00	7.20	142.	14.0	281.4	2.0
04	01	01	1	07	-61.2	0.619	-9.000	-9.000	-999.	1168.	422.1	0.11	0.77	1.00	7.70	135.	14.0	281.2	2.0
04	01	01	1	08	-64.0	0.658	-9.000	-9.000	-999.	1279.	476.0	0.11	0.77	0.73	8.20	143.	14.0	281.2	2.0
04	01	01	1	09	7.0	0.717	0.238	0.005	68.	1454.	-4692.4	0.11	0.77	0.39	8.70	137.	14.0	281.5	2.0
04	01	01	1	10	43.3	0.655	0.675	0.005	251.	1280.	-574.5	0.09	0.77	0.27	8.20	151.	14.0	282.1	2.0
04	01	01	1	11	70.4	0.549	0.930	0.005	405.	989.	-207.5	0.09	0.77	0.23	6.70	164.	14.0	283.1	2.0
04	01	01	1	12	90.7	0.480	1.217	0.005	703.	804.	-107.8	0.09	0.77	0.21	5.70	166.	14.0	284.1	2.0
04	01	01	1	13	92.9	0.395	1.327	0.005	891.	602.	-58.8	0.08	0.77	0.21	4.60	183.	14.0	284.9	2.0
04	01	01	1	14	81.1	0.321	1.332	0.005	1031.	440.	-36.0	0.08	0.77	0.22	3.60	189.	14.0	285.2	2.0
04	01	01	1	15	47.5	0.160	1.139	0.005	1104.	174.	-7.6	0.08	0.77	0.26	1.50	192.	14.0	284.5	2.0
04	01	01	1	16	19.1	0.076	0.847	0.005	1130.	56.	-2.0	0.12	0.77	0.34	0.50	54.	14.0	283.5	2.0
04	01	01	1	17	-5.0	0.110	-9.000	-9.000	-999.	88.	23.5	0.10	0.77	0.59	1.50	341.	14.0	283.1	2.0

```
04 01 01   1 18   -5.6  0.111 -9.000 -9.000 -999.   89.    21.5  0.11   0.77   1.00    1.50  307.   14.0  282.2    2.0
04 01 01   1 19  -17.3  0.197 -9.000 -9.000 -999.  209.    42.5  0.10   0.77   1.00    2.60  284.   14.0  281.2    2.0
04 01 01   1 20  -27.2  0.273 -9.000 -9.000 -999.  342.    81.8  0.10   0.77   1.00    3.60  267.   14.0  280.4    2.0
04 01 01   1 21  -31.2  0.312 -9.000 -9.000 -999.  419.   107.3  0.10   0.77   1.00    4.10  260.   14.0  279.8    2.0
04 01 01   1 22  -35.2  0.352 -9.000 -9.000 -999.  501.   136.4  0.10   0.77   1.00    4.60  262.   14.0  279.4    2.0
04 01 01   1 23  -35.3  0.352 -9.000 -9.000 -999.  501.   136.4  0.10   0.77   1.00    4.60  250.   14.0  279.2    2.0
04 01 01   1 24  -31.3  0.312 -9.000 -9.000 -999.  420.   107.3  0.10   0.77   1.00    4.10  240.   14.0  279.0    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 04 01 01 01   14.0 1  151.    4.10   282.1   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
   *** AERMOD - VERSION  19191 ***   *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Tracy C ***       12/18/23
 *** AERMET - VERSION  18081 ***   ***                                                ***       11:24:12
                                                                      PAGE  13
 *** MODELOPTs:    CONC  ELEV  RURAL  ADJ_U*

                    *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE
GROUP: VOL1     ***
                      INCLUDING SOURCE(S):     VOL1       ,

                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

     X-COORD (M)   Y-COORD (M)       CONC                X-COORD (M)   Y-COORD (M)       CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       632121.21   4174952.36       0.46603              632304.44   4174354.52       0.16110
       632192.15   4174956.32       0.47064              632420.62   4175510.15       1.14538
       632418.97   4175552.92       1.25105              631187.00   4175727.00       3.68282
       631166.00   4175729.00       3.25530              631121.00   4175719.00       2.42338
       631035.00   4174830.00       0.16024              631106.00   4174825.00       0.16394
       631937.00   4174528.00       0.18304              631322.00   4174522.00       0.07624
       629800.63   4173850.44       0.01970              630150.63   4173850.44       0.02154
       630500.63   4173850.44       0.02776              630850.63   4173850.44       0.04020
       631200.63   4173850.44       0.03186              631550.63   4173850.44       0.05268
       631900.63   4173850.44       0.05949              632250.63   4173850.44       0.07559
       632600.63   4173850.44       0.09305              632950.63   4173850.44       0.10529
       633300.63   4173850.44       0.10075              629800.63   4174200.44       0.02583
       630150.63   4174200.44       0.03244              630500.63   4174200.44       0.05076
       630850.63   4174200.44       0.05603              631200.63   4174200.44       0.04959
       631550.63   4174200.44       0.08174              631900.63   4174200.44       0.10955
       632250.63   4174200.44       0.12169              632600.63   4174200.44       0.14463
       632950.63   4174200.44       0.14051              633300.63   4174200.44       0.12406
       629800.63   4174550.44       0.04445              630150.63   4174550.44       0.05122
       630500.63   4174550.44       0.07143              630850.63   4174550.44       0.09354
       631200.63   4174550.44       0.09965              631550.63   4174550.44       0.13001
       631900.63   4174550.44       0.18882              632250.63   4174550.44       0.22039
       632600.63   4174550.44       0.21696              632950.63   4174550.44       0.18585
       633300.63   4174550.44       0.17187              629800.63   4174900.44       0.05696
       630150.63   4174900.44       0.06773              630500.63   4174900.44       0.10189
       630850.63   4174900.44       0.15321              631200.63   4174900.44       0.19438
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631550.63	4174900.44	0.29001	631900.63	4174900.44	0.39956
632250.63	4174900.44	0.40273	632600.63	4174900.44	0.33233
632950.63	4174900.44	0.28605	633300.63	4174900.44	0.25548
629800.63	4175250.44	0.07561	630150.63	4175250.44	0.10829
630500.63	4175250.44	0.16620	630850.63	4175250.44	0.25970
631200.63	4175250.44	0.49695	631550.63	4175250.44	0.83444
631900.63	4175250.44	1.01506	632250.63	4175250.44	0.73116
632600.63	4175250.44	0.58616	632950.63	4175250.44	0.48544
633300.63	4175250.44	0.40415	629800.63	4175600.44	0.09616
630150.63	4175600.44	0.14091	630500.63	4175600.44	0.24315
630850.63	4175600.44	0.51316	631200.63	4175600.44	1.80784
631550.63	4175600.44	5.61476	631900.63	4175600.44	2.94658
632250.63	4175600.44	1.70611	632600.63	4175600.44	1.09941
632950.63	4175600.44	0.76727	633300.63	4175600.44	0.57087
629800.63	4175950.44	0.10621	630150.63	4175950.44	0.15850

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.31167	630850.63	4175950.44	0.93847
631200.63	4175950.44	7.52040	631550.63	4175950.44	20.33335
631900.63	4175950.44	4.67642	632250.63	4175950.44	2.12127
632600.63	4175950.44	1.24245	632950.63	4175950.44	0.83167
633300.63	4175950.44	0.59998	629800.63	4176300.44	0.12042
630150.63	4176300.44	0.20019	630500.63	4176300.44	0.41712
630850.63	4176300.44	0.99983	631200.63	4176300.44	2.28829
631550.63	4176300.44	2.14943	631900.63	4176300.44	1.36126
632250.63	4176300.44	0.93279	632600.63	4176300.44	0.70015
632950.63	4176300.44	0.54278	633300.63	4176300.44	0.43369
629800.63	4176650.44	0.14436	630150.63	4176650.44	0.23702
630500.63	4176650.44	0.40827	630850.63	4176650.44	0.67819
631200.63	4176650.44	0.89584	631550.63	4176650.44	0.85313
631900.63	4176650.44	0.68944	632250.63	4176650.44	0.51691
632600.63	4176650.44	0.39633	632950.63	4176650.44	0.32994
633300.63	4176650.44	0.28213	629800.63	4177000.44	0.15436
630150.63	4177000.44	0.22975	630500.63	4177000.44	0.32948
630850.63	4177000.44	0.42758	631200.63	4177000.44	0.48706
631550.63	4177000.44	0.47605	631900.63	4177000.44	0.39101
632250.63	4177000.44	0.34826	632600.63	4177000.44	0.28268
632950.63	4177000.44	0.23051	633300.63	4177000.44	0.19640
629800.63	4177350.44	0.15113	630150.63	4177350.44	0.19914
630500.63	4177350.44	0.24529	630850.63	4177350.44	0.28808
631200.63	4177350.44	0.30700	631550.63	4177350.44	0.30437

631900.63	4177350.44	0.26637	632250.63	4177350.44	0.24316
632600.63	4177350.44	0.21212	632950.63	4177350.44	0.18199
633300.63	4177350.44	0.15547	631670.70	4175493.59	2.76577
631669.80	4175641.41	5.90576	631665.32	4175796.39	14.47616
631417.17	4175826.85	0.00000	631417.17	4175673.66	9.94675
631422.55	4175484.63	2.09317	631268.42	4175983.74	13.31357
631275.69	4175523.99	1.59772	631345.65	4175419.50	1.11580
631384.72	4175441.30	1.53731	631491.93	4175442.21	1.92371
631491.93	4175414.95	1.67402	631385.63	4175413.14	1.15901
631358.37	4175395.87	1.03280	631409.25	4175336.81	0.89235
631567.35	4175235.96	0.80922	631756.33	4175028.80	0.51079
631807.22	4175003.36	0.49176	631867.18	4174987.91	0.48980
631849.92	4175988.28	4.71752	631268.74	4175963.75	15.04252
631269.05	4175943.76	16.83448	631269.37	4175923.77	18.54165
631269.68	4175903.78	19.90287	631270.00	4175883.79	20.60690
631270.32	4175863.81	20.36933	631270.63	4175843.82	19.04539

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	16.99904	631271.26	4175803.84	14.57120
631271.58	4175783.85	12.14587	631271.90	4175763.86	9.96173
631272.21	4175743.87	8.18469	631272.53	4175723.88	6.82082
631272.85	4175703.89	5.75165	631273.16	4175683.90	4.90730
631273.48	4175663.91	4.23205	631273.79	4175643.92	3.68890
631274.11	4175623.94	3.24555	631274.43	4175603.95	2.86834
631274.74	4175583.96	2.24260	631275.06	4175563.97	1.95649
631275.37	4175543.98	1.76085	631285.68	4175509.06	1.53192
631295.68	4175494.14	1.44591	631305.67	4175479.21	1.37543
631315.67	4175464.28	1.30736	631325.66	4175449.35	1.23584
631335.66	4175434.43	1.18416	631358.67	4175426.77	1.17255
631371.70	4175434.03	1.25572	631402.59	4175441.45	1.59586
631420.46	4175441.60	1.65771	631438.33	4175441.76	1.72255
631456.19	4175441.91	1.78955	631474.06	4175442.06	1.85728
631491.93	4175428.58	1.79230	631474.21	4175414.65	1.61741
631456.50	4175414.35	1.56067	631438.78	4175414.05	1.50466
631421.06	4175413.74	1.44900	631403.35	4175413.44	1.24412
631372.00	4175404.51	1.09428	631371.09	4175381.11	0.99097
631383.81	4175366.34	0.95723	631396.53	4175351.58	0.92410
631425.06	4175326.73	0.88298	631440.87	4175316.64	0.88310
631456.68	4175306.56	0.87146	631472.49	4175296.47	0.86402
631488.30	4175286.39	0.86262	631504.11	4175276.30	0.85041
631519.92	4175266.22	0.84027	631535.73	4175256.13	0.83565

631551.54	4175246.05	0.82141	631579.95	4175222.15	0.78589
631592.55	4175208.34	0.75729	631605.15	4175194.53	0.73782
631617.74	4175180.72	0.71050	631630.34	4175166.91	0.69359
631642.94	4175153.10	0.66721	631655.54	4175139.29	0.65043
631668.14	4175125.47	0.62741	631680.74	4175111.66	0.61091
631693.34	4175097.85	0.59138	631705.94	4175084.04	0.57503
631718.53	4175070.23	0.55797	631731.13	4175056.42	0.54183
631743.73	4175042.61	0.52712	631773.29	4175020.32	0.50586
631790.26	4175011.84	0.50045	631822.21	4174999.50	0.49017
631837.20	4174995.64	0.48953	631852.19	4174991.77	0.48958
631866.84	4175007.53	0.51070	631866.50	4175027.14	0.54091
631866.16	4175046.76	0.60867	631865.83	4175066.37	0.63991
631865.49	4175085.99	0.67298	631865.15	4175105.60	0.70790
631864.81	4175125.22	0.74506	631864.47	4175144.83	0.78455
631864.13	4175164.45	0.82647	631863.80	4175184.06	0.87086
631863.46	4175203.68	0.91782	631863.12	4175223.29	0.96737
631862.78	4175242.91	1.01965	631862.44	4175262.52	1.07507

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	1.13376	631861.77	4175301.75	1.19582
631861.43	4175321.37	1.26160	631861.09	4175340.98	1.33141
631860.75	4175360.60	1.40583	631860.41	4175380.21	1.48549
631860.07	4175399.83	1.57135	631859.73	4175419.44	1.66446
631859.40	4175439.06	1.76627	631859.06	4175458.67	1.87840
631858.72	4175478.29	2.00284	631858.38	4175497.90	2.14165
631858.04	4175517.52	2.29725	631857.70	4175537.13	2.47192
631857.37	4175556.75	2.66811	631857.03	4175576.36	2.88773
631856.69	4175595.98	3.13252	631856.35	4175615.59	3.40287
631856.01	4175635.21	3.69848	631855.67	4175654.82	4.01710
631855.33	4175674.44	4.35495	631855.00	4175694.05	4.70509
631854.66	4175713.67	5.05971	631854.32	4175733.28	5.40703
631853.98	4175752.90	5.73412	631853.64	4175772.51	6.02622
631853.30	4175792.13	6.26833	631852.97	4175811.74	6.44597
631852.63	4175831.36	6.54684	631852.29	4175850.97	6.56271
631851.95	4175870.59	6.48947	631851.61	4175890.20	6.33155
631851.27	4175909.82	6.09774	631850.94	4175929.43	5.80285
631850.60	4175949.05	5.46369	631850.26	4175968.66	5.09857
631830.54	4175988.13	4.98152	631811.15	4175987.98	5.26671
631791.77	4175987.83	5.58040	631772.39	4175987.67	5.92033
631753.00	4175987.52	6.29276	631733.62	4175987.37	6.70148
631714.24	4175987.22	7.15212	631694.85	4175987.07	7.64927

631675.47	4175986.92	8.20356	631656.09	4175986.77	8.82261
631636.70	4175986.62	9.51671	631617.32	4175986.46	10.29471
631597.94	4175986.31	11.17096	631578.55	4175986.16	12.16612
631559.17	4175986.01	13.29571	631539.79	4175985.86	14.59038
631520.40	4175985.71	16.08276	631501.02	4175985.56	17.81541
631481.64	4175985.40	19.83217	631462.25	4175985.25	22.12950
631442.87	4175985.10	24.58837	631423.49	4175984.95	26.76840
631404.10	4175984.80	27.88743	631384.72	4175984.65	27.35806
631365.34	4175984.50	26.07361	631345.95	4175984.35	24.03865
631326.57	4175984.19	21.44380	631307.19	4175984.04	18.60889
631287.80	4175983.89	15.83384	631050.63	4175100.50	0.27963
631050.63	4175200.50	0.34381	631050.63	4175300.50	0.42702
631050.63	4175400.50	0.54249	631050.63	4175500.50	0.70319
631050.63	4175600.50	0.99946	631050.63	4175700.50	1.32517
631050.63	4175800.50	1.76238	631050.63	4175900.50	2.24511
631050.63	4176000.50	2.40852	631050.63	4176100.50	2.37577
631150.63	4175100.50	0.31024	631150.63	4175200.50	0.40481
631150.63	4175300.50	0.53921	631150.63	4175400.50	0.72533

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	1.00298	631150.63	4175600.50	1.47686
631150.63	4175700.50	2.64500	631150.63	4175800.50	3.79606
631150.63	4175900.50	4.59211	631150.63	4176000.50	4.68120
631150.63	4176100.50	3.89021	631250.63	4175100.50	0.32721
631250.63	4175200.50	0.44188	631250.63	4175300.50	0.62137
631250.63	4175400.50	0.89292	631250.63	4175500.50	1.33015
631250.63	4175600.50	2.22067	631250.63	4175700.50	4.80397
631250.63	4175800.50	10.35480	631250.63	4175900.50	14.58236
631250.63	4176000.50	10.40122	631250.63	4176100.50	6.01951
631350.63	4175100.50	0.35004	631350.63	4175200.50	0.48303
631350.63	4175300.50	0.70015	631350.63	4175400.50	1.03573
631350.63	4175500.50	1.93948	631350.63	4175600.50	3.67030
631350.63	4175700.50	10.02451	631350.63	4175800.50	0.00000
631350.63	4175900.50	0.00000	631350.63	4176000.50	19.74389
631350.63	4176100.50	7.44787	631450.63	4175100.50	0.41531
631450.63	4175200.50	0.58118	631450.63	4175300.50	0.83831
631450.63	4175400.50	1.44436	631450.63	4175500.50	2.45607
631450.63	4175600.50	5.09054	631450.63	4175700.50	15.68189
631450.63	4175800.50	0.00000	631450.63	4175900.50	0.00000
631450.63	4176000.50	18.49233	631450.63	4176100.50	6.86002
631550.63	4175100.50	0.50702	631550.63	4175200.50	0.69503

631550.63	4175300.50	1.01813	631550.63	4175400.50	1.70871
631550.63	4175500.50	2.91276	631550.63	4175600.50	5.61723
631550.63	4175700.50	13.08784	631550.63	4175800.50	33.33930
631550.63	4175900.50	32.55020	631550.63	4176000.50	11.93256
631550.63	4176100.50	5.44864	631650.63	4175100.50	0.56685
631650.63	4175200.50	0.78324	631650.63	4175300.50	1.22255
631650.63	4175400.50	1.84034	631650.63	4175500.50	2.90594
631650.63	4175600.50	4.86918	631650.63	4175700.50	9.12699
631650.63	4175800.50	15.99293	631650.63	4175900.50	15.43637
631650.63	4176000.50	8.14951	631650.63	4176100.50	4.28678
631750.63	4175100.50	0.67263	631750.63	4175200.50	0.90743
631750.63	4175300.50	1.25825	631750.63	4175400.50	1.77837
631750.63	4175500.50	2.56592	631750.63	4175600.50	3.93735
631750.63	4175700.50	6.52026	631750.63	4175800.50	9.53721
631750.63	4175900.50	9.23984	631750.63	4176000.50	5.90419
631750.63	4176100.50	3.44190	631850.63	4175100.50	0.69760
631850.63	4175200.50	0.91309	631850.63	4175300.50	1.20243
631850.63	4175400.50	1.59382	631850.63	4175500.50	2.18720
631850.63	4175600.50	3.22848	631850.63	4175700.50	4.87780

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	6.40998	631850.63	4175900.50	6.23519
631850.63	4176000.50	4.46999	631850.63	4176100.50	2.84396
631950.63	4175100.50	0.69251	631950.63	4175200.50	0.86956
631950.63	4175300.50	1.09118	631950.63	4175400.50	1.39868
631950.63	4175500.50	1.89334	631950.63	4175600.50	2.70330
631950.63	4175700.50	3.78514	631950.63	4175800.50	4.64298
631950.63	4175900.50	4.52812	631950.63	4176000.50	3.49776
631950.63	4176100.50	2.39750	632050.63	4175100.50	0.65925
632050.63	4175200.50	0.79681	632050.63	4175300.50	0.97662
632050.63	4175400.50	1.24501	632050.63	4175500.50	1.67053
632050.63	4175600.50	2.29613	632050.63	4175700.50	3.02624
632050.63	4175800.50	3.54326	632050.63	4175900.50	3.46289
632050.63	4176000.50	2.81526	632050.63	4176100.50	2.05236

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE

GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.41966	632304.44	4174354.52	0.13600
632192.15	4174956.32	0.44918	632420.62	4175510.15	1.58810
632418.97	4175552.92	1.80602	631187.00	4175727.00	0.77330
631166.00	4175729.00	0.72952	631121.00	4175719.00	0.63196
631035.00	4174830.00	0.11581	631106.00	4174825.00	0.12614
631937.00	4174528.00	0.15329	631322.00	4174522.00	0.07414
629800.63	4173850.44	0.01700	630150.63	4173850.44	0.01871
630500.63	4173850.44	0.02332	630850.63	4173850.44	0.03579
631200.63	4173850.44	0.03209	631550.63	4173850.44	0.03776
631900.63	4173850.44	0.04708	632250.63	4173850.44	0.06813
632600.63	4173850.44	0.07971	632950.63	4173850.44	0.09727
633300.63	4173850.44	0.10652	629800.63	4174200.44	0.02450
630150.63	4174200.44	0.02773	630500.63	4174200.44	0.03801
630850.63	4174200.44	0.04782	631200.63	4174200.44	0.04903
631550.63	4174200.44	0.05789	631900.63	4174200.44	0.08851
632250.63	4174200.44	0.10776	632600.63	4174200.44	0.12616
632950.63	4174200.44	0.14704	633300.63	4174200.44	0.13869
629800.63	4174550.44	0.03735	630150.63	4174550.44	0.04463
630500.63	4174550.44	0.05625	630850.63	4174550.44	0.07028
631200.63	4174550.44	0.09315	631550.63	4174550.44	0.08900
631900.63	4174550.44	0.15440	632250.63	4174550.44	0.18464
632600.63	4174550.44	0.22187	632950.63	4174550.44	0.21290
633300.63	4174550.44	0.18997	629800.63	4174900.44	0.04523
630150.63	4174900.44	0.05689	630500.63	4174900.44	0.07898
630850.63	4174900.44	0.10526	631200.63	4174900.44	0.15699
631550.63	4174900.44	0.19837	631900.63	4174900.44	0.31378
632250.63	4174900.44	0.39808	632600.63	4174900.44	0.38339
632950.63	4174900.44	0.32350	633300.63	4174900.44	0.28127
629800.63	4175250.44	0.05813	630150.63	4175250.44	0.08336
630500.63	4175250.44	0.11843	630850.63	4175250.44	0.16785
631200.63	4175250.44	0.29017	631550.63	4175250.44	0.50662
631900.63	4175250.44	0.97294	632250.63	4175250.44	0.97379
632600.63	4175250.44	0.70487	632950.63	4175250.44	0.57064
633300.63	4175250.44	0.47304	629800.63	4175600.44	0.07364
630150.63	4175600.44	0.09911	630500.63	4175600.44	0.14713
630850.63	4175600.44	0.26001	631200.63	4175600.44	0.61360
631550.63	4175600.44	2.58385	631900.63	4175600.44	5.32136
632250.63	4175600.44	2.70507	632600.63	4175600.44	1.59552
632950.63	4175600.44	1.04010	633300.63	4175600.44	0.73596
629800.63	4175950.44	0.07633	630150.63	4175950.44	0.10502

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.17708	630850.63	4175950.44	0.35364
631200.63	4175950.44	1.13288	631550.63	4175950.44	12.99825
631900.63	4175950.44	15.06674	632250.63	4175950.44	4.08279
632600.63	4175950.44	1.95036	632950.63	4175950.44	1.17147
633300.63	4175950.44	0.79023	629800.63	4176300.44	0.08575
630150.63	4176300.44	0.12645	630500.63	4176300.44	0.21902
630850.63	4176300.44	0.46480	631200.63	4176300.44	1.15345
631550.63	4176300.44	2.43498	631900.63	4176300.44	2.02371
632250.63	4176300.44	1.28614	632600.63	4176300.44	0.89847
632950.63	4176300.44	0.67686	633300.63	4176300.44	0.52675
629800.63	4176650.44	0.10001	630150.63	4176650.44	0.16276
630500.63	4176650.44	0.25407	630850.63	4176650.44	0.44343
631200.63	4176650.44	0.71518	631550.63	4176650.44	0.91392
631900.63	4176650.44	0.82728	632250.63	4176650.44	0.66848
632600.63	4176650.44	0.50000	632950.63	4176650.44	0.38569
633300.63	4176650.44	0.32495	629800.63	4177000.44	0.11618
630150.63	4177000.44	0.16288	630500.63	4177000.44	0.24363
630850.63	4177000.44	0.34464	631200.63	4177000.44	0.43699
631550.63	4177000.44	0.49105	631900.63	4177000.44	0.46476
632250.63	4177000.44	0.38859	632600.63	4177000.44	0.33855
632950.63	4177000.44	0.27659	633300.63	4177000.44	0.22578
629800.63	4177350.44	0.11482	630150.63	4177350.44	0.15777
630500.63	4177350.44	0.20486	630850.63	4177350.44	0.25529
631200.63	4177350.44	0.29389	631550.63	4177350.44	0.30851
631900.63	4177350.44	0.30206	632250.63	4177350.44	0.25991
632600.63	4177350.44	0.24315	632950.63	4177350.44	0.20747
633300.63	4177350.44	0.17967	631670.70	4175493.59	1.95881
631669.80	4175641.41	5.63112	631665.32	4175796.39	0.00000
631417.17	4175826.85	3.12914	631417.17	4175673.66	1.75605
631422.55	4175484.63	0.89223	631268.42	4175983.74	1.54625
631275.69	4175523.99	0.61947	631345.65	4175419.50	0.57054
631384.72	4175441.30	0.68370	631491.93	4175442.21	0.94091
631491.93	4175414.95	0.85354	631385.63	4175413.14	0.61244
631358.37	4175395.87	0.55659	631409.25	4175336.81	0.53701
631567.35	4175235.96	0.48889	631756.33	4175028.80	0.34803
631807.22	4175003.36	0.35495	631867.18	4174987.91	0.37350
631849.92	4175988.28	13.58620	631268.74	4175963.75	1.52873
631269.05	4175943.76	1.51021	631269.37	4175923.77	1.49243
631269.68	4175903.78	1.47511	631270.00	4175883.79	1.45817
631270.32	4175863.81	1.44115	631270.63	4175843.82	1.42391

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.40267	631271.26	4175803.84	1.37691
631271.58	4175783.85	1.19453	631271.90	4175763.86	1.14140
631272.21	4175743.87	1.09129	631272.53	4175723.88	1.04880
631272.85	4175703.89	1.00278	631273.16	4175683.90	0.95532
631273.48	4175663.91	0.90738	631273.79	4175643.92	0.86450
631274.11	4175623.94	0.82636	631274.43	4175603.95	0.78004
631274.74	4175583.96	0.73202	631275.06	4175563.97	0.68268
631275.37	4175543.98	0.64919	631285.68	4175509.06	0.61621
631295.68	4175494.14	0.60591	631305.67	4175479.21	0.60007
631315.67	4175464.28	0.59404	631325.66	4175449.35	0.58511
631335.66	4175434.43	0.58226	631358.67	4175426.77	0.59615
631371.70	4175434.03	0.63178	631402.59	4175441.45	0.73000
631420.46	4175441.60	0.77310	631438.33	4175441.76	0.81411
631456.19	4175441.91	0.85561	631474.06	4175442.06	0.89805
631491.93	4175428.58	0.89561	631474.21	4175414.65	0.81720
631456.50	4175414.35	0.78137	631438.78	4175414.05	0.74474
631421.06	4175413.74	0.70155	631403.35	4175413.44	0.65658
631372.00	4175404.51	0.58463	631371.09	4175381.11	0.55192
631383.81	4175366.34	0.54872	631396.53	4175351.58	0.54362
631425.06	4175326.73	0.53807	631440.87	4175316.64	0.54261
631456.68	4175306.56	0.53868	631472.49	4175296.47	0.53545
631488.30	4175286.39	0.53484	631504.11	4175276.30	0.52571
631519.92	4175266.22	0.51699	631535.73	4175256.13	0.51209
631551.54	4175246.05	0.49955	631579.95	4175222.15	0.47479
631592.55	4175208.34	0.45607	631605.15	4175194.53	0.44574
631617.74	4175180.72	0.42849	631630.34	4175166.91	0.42132
631642.94	4175153.10	0.40550	631655.54	4175139.29	0.39924
631668.14	4175125.47	0.38725	631680.74	4175111.66	0.38183
631693.34	4175097.85	0.37362	631705.94	4175084.04	0.36854
631718.53	4175070.23	0.36276	631731.13	4175056.42	0.35771
631743.73	4175042.61	0.35377	631773.29	4175020.32	0.35178
631790.26	4175011.84	0.35497	631822.21	4174999.50	0.35910
631837.20	4174995.64	0.36377	631852.19	4174991.77	0.36871
631866.84	4175007.53	0.38815	631866.50	4175027.14	0.41111
631866.16	4175046.76	0.44390	631865.83	4175066.37	0.47501
631865.49	4175085.99	0.50654	631865.15	4175105.60	0.53745
631864.81	4175125.22	0.57120	631864.47	4175144.83	0.60837
631864.13	4175164.45	0.64959	631863.80	4175184.06	0.75014
631863.46	4175203.68	0.79861	631863.12	4175223.29	0.85202
631862.78	4175242.91	0.91118	631862.44	4175262.52	0.97679

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	1.04990	631861.77	4175301.75	1.13157
631861.43	4175321.37	1.22316	631861.09	4175340.98	1.32623
631860.75	4175360.60	1.44274	631860.41	4175380.21	1.57467
631860.07	4175399.83	1.72504	631859.73	4175419.44	1.89679
631859.40	4175439.06	2.09391	631859.06	4175458.67	2.32079
631858.72	4175478.29	2.58324	631858.38	4175497.90	2.88768
631858.04	4175517.52	3.24275	631857.70	4175537.13	3.65809
631857.37	4175556.75	4.14674	631857.03	4175576.36	4.72414
631856.69	4175595.98	5.41215	631856.35	4175615.59	6.24268
631856.01	4175635.21	7.26104	631855.67	4175654.82	8.52324
631855.33	4175674.44	10.11121	631855.00	4175694.05	12.12587
631854.66	4175713.67	14.68773	631854.32	4175733.28	17.89392
631853.98	4175752.90	21.77077	631853.64	4175772.51	26.17905
631853.30	4175792.13	30.75002	631852.97	4175811.74	34.86144
631852.63	4175831.36	37.76345	631852.29	4175850.97	38.80056
631851.95	4175870.59	37.66297	631851.61	4175890.20	34.58101
631851.27	4175909.82	30.19907	631850.94	4175929.43	25.35054
631850.60	4175949.05	20.73503	631850.26	4175968.66	16.78383
631830.54	4175988.13	14.91551	631811.15	4175987.98	16.42978
631791.77	4175987.83	18.20542	631772.39	4175987.67	20.22323
631753.00	4175987.52	22.45865	631733.62	4175987.37	24.68470
631714.24	4175987.22	26.32746	631694.85	4175987.07	26.73007
631675.47	4175986.92	25.85373	631656.09	4175986.77	24.34567
631636.70	4175986.62	22.22684	631617.32	4175986.46	19.63940
631597.94	4175986.31	16.93591	631578.55	4175986.16	14.36594
631559.17	4175986.01	12.07826	631539.79	4175985.86	10.12652
631520.40	4175985.71	8.49432	631501.02	4175985.56	7.15347
631481.64	4175985.40	6.05856	631462.25	4175985.25	5.16594
631442.87	4175985.10	4.43755	631423.49	4175984.95	3.84109
631404.10	4175984.80	3.34989	631384.72	4175984.65	2.94331
631365.34	4175984.50	2.60429	631345.95	4175984.35	2.31965
631326.57	4175984.19	2.07893	631307.19	4175984.04	1.87388
631287.80	4175983.89	1.69790	631050.63	4175100.50	0.17539
631050.63	4175200.50	0.20422	631050.63	4175300.50	0.24061
631050.63	4175400.50	0.28730	631050.63	4175500.50	0.34337
631050.63	4175600.50	0.41881	631050.63	4175700.50	0.46305
631050.63	4175800.50	0.52920	631050.63	4175900.50	0.59275
631050.63	4176000.50	0.63384	631050.63	4176100.50	0.72914
631150.63	4175100.50	0.20192	631150.63	4175200.50	0.24177
631150.63	4175300.50	0.29255	631150.63	4175400.50	0.35474

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.43490	631150.63	4175600.50	0.53917
631150.63	4175700.50	0.66487	631150.63	4175800.50	0.77847
631150.63	4175900.50	0.92066	631150.63	4176000.50	0.96333
631150.63	4176100.50	1.01726	631250.63	4175100.50	0.23694
631250.63	4175200.50	0.28709	631250.63	4175300.50	0.35427
631250.63	4175400.50	0.43819	631250.63	4175500.50	0.54483
631250.63	4175600.50	0.70552	631250.63	4175700.50	0.91290
631250.63	4175800.50	1.26100	631250.63	4175900.50	1.35241
631250.63	4176000.50	1.44020	631250.63	4176100.50	1.50280
631350.63	4175100.50	0.27483	631350.63	4175200.50	0.34343
631350.63	4175300.50	0.43662	631350.63	4175400.50	0.55117
631350.63	4175500.50	0.73297	631350.63	4175600.50	1.01657
631350.63	4175700.50	1.40349	631350.63	4175800.50	1.99872
631350.63	4175900.50	2.23735	631350.63	4176000.50	2.40322
631350.63	4176100.50	2.37443	631450.63	4175100.50	0.30738
631450.63	4175200.50	0.40010	631450.63	4175300.50	0.52347
631450.63	4175400.50	0.73225	631450.63	4175500.50	1.02798
631450.63	4175600.50	1.50962	631450.63	4175700.50	2.63273
631450.63	4175800.50	3.75744	631450.63	4175900.50	4.55055
631450.63	4176000.50	4.66478	631450.63	4176100.50	3.89811
631550.63	4175100.50	0.33078	631550.63	4175200.50	0.43349
631550.63	4175300.50	0.59786	631550.63	4175400.50	0.91074
631550.63	4175500.50	1.39411	631550.63	4175600.50	2.58470
631550.63	4175700.50	4.82489	631550.63	4175800.50	10.20702
631550.63	4175900.50	14.56805	631550.63	4176000.50	10.40408
631550.63	4176100.50	6.04755	631650.63	4175100.50	0.34936
631650.63	4175200.50	0.46680	631650.63	4175300.50	0.71578
631650.63	4175400.50	1.21742	631650.63	4175500.50	1.94871
631650.63	4175600.50	3.67586	631650.63	4175700.50	10.03067
631650.63	4175800.50	0.00000	631650.63	4175900.50	0.00000
631650.63	4176000.50	19.80421	631650.63	4176100.50	7.46100
631750.63	4175100.50	0.42266	631750.63	4175200.50	0.60326
631750.63	4175300.50	0.95944	631750.63	4175400.50	1.44744
631750.63	4175500.50	2.45939	631750.63	4175600.50	5.09542
631750.63	4175700.50	15.68129	631750.63	4175800.50	0.00000
631750.63	4175900.50	0.00000	631750.63	4176000.50	18.49569
631750.63	4176100.50	6.79950	631850.63	4175100.50	0.52212
631850.63	4175200.50	0.77973	631850.63	4175300.50	1.11108
631850.63	4175400.50	1.71057	631850.63	4175500.50	2.91408
631850.63	4175600.50	5.61179	631850.63	4175700.50	13.08674

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	33.35466	631850.63	4175900.50	32.64249
631850.63	4176000.50	11.93256	631850.63	4176100.50	5.41464
631950.63	4175100.50	0.57257	631950.63	4175200.50	0.85558
631950.63	4175300.50	1.22170	631950.63	4175400.50	1.84039
631950.63	4175500.50	2.90601	631950.63	4175600.50	4.86877
631950.63	4175700.50	9.12426	631950.63	4175800.50	15.98989
631950.63	4175900.50	15.44970	631950.63	4176000.50	8.14087
631950.63	4176100.50	4.25688	632050.63	4175100.50	0.62299
632050.63	4175200.50	0.90553	632050.63	4175300.50	1.25806
632050.63	4175400.50	1.77835	632050.63	4175500.50	2.56594
632050.63	4175600.50	3.93787	632050.63	4175700.50	6.52230
632050.63	4175800.50	9.53979	632050.63	4175900.50	9.24281
632050.63	4176000.50	5.90145	632050.63	4176100.50	3.43686

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.68255	632304.44	4174354.52	0.22206
632192.15	4174956.32	0.64423	632420.62	4175510.15	1.59483
632418.97	4175552.92	1.66318	631187.00	4175727.00	6.56953
631166.00	4175729.00	5.38151	631121.00	4175719.00	3.67279
631035.00	4174830.00	0.22618	631106.00	4174825.00	0.23863
631937.00	4174528.00	0.26429	631322.00	4174522.00	0.10261
629800.63	4173850.44	0.02160	630150.63	4173850.44	0.02315
630500.63	4173850.44	0.03143	630850.63	4173850.44	0.04776
631200.63	4173850.44	0.03798	631550.63	4173850.44	0.06440
631900.63	4173850.44	0.07290	632250.63	4173850.44	0.09373
632600.63	4173850.44	0.11831	632950.63	4173850.44	0.12498
633300.63	4173850.44	0.11271	629800.63	4174200.44	0.03109
630150.63	4174200.44	0.03799	630500.63	4174200.44	0.05699

630850.63	4174200.44	0.06793	631200.63	4174200.44	0.06240
631550.63	4174200.44	0.10561	631900.63	4174200.44	0.14190
632250.63	4174200.44	0.16578	632600.63	4174200.44	0.18345
632950.63	4174200.44	0.16259	633300.63	4174200.44	0.15005
629800.63	4174550.44	0.05110	630150.63	4174550.44	0.06298
630500.63	4174550.44	0.08638	630850.63	4174550.44	0.11944
631200.63	4174550.44	0.13727	631550.63	4174550.44	0.18326
631900.63	4174550.44	0.27322	632250.63	4174550.44	0.30980
632600.63	4174550.44	0.26470	632950.63	4174550.44	0.23693
633300.63	4174550.44	0.21296	629800.63	4174900.44	0.06517
630150.63	4174900.44	0.08486	630500.63	4174900.44	0.13064
630850.63	4174900.44	0.20075	631200.63	4174900.44	0.30359
631550.63	4174900.44	0.48687	631900.63	4174900.44	0.69741
632250.63	4174900.44	0.55876	632600.63	4174900.44	0.44627
632950.63	4174900.44	0.38319	633300.63	4174900.44	0.33263
629800.63	4175250.44	0.07842	630150.63	4175250.44	0.13059
630500.63	4175250.44	0.22039	630850.63	4175250.44	0.38643
631200.63	4175250.44	0.97734	631550.63	4175250.44	2.18801
631900.63	4175250.44	1.72601	632250.63	4175250.44	1.17646
632600.63	4175250.44	0.86377	632950.63	4175250.44	0.65103
633300.63	4175250.44	0.50448	629800.63	4175600.44	0.10507
630150.63	4175600.44	0.16088	630500.63	4175600.44	0.28655
630850.63	4175600.44	0.69831	631200.63	4175600.44	5.69794
631550.63	4175600.44	33.30575	631900.63	4175600.44	5.40467
632250.63	4175600.44	2.28861	632600.63	4175600.44	1.30469
632950.63	4175600.44	0.85833	633300.63	4175600.44	0.61823
629800.63	4175950.44	0.11554	630150.63	4175950.44	0.17409

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.35625	630850.63	4175950.44	1.03013
631200.63	4175950.44	4.02527	631550.63	4175950.44	4.10640
631900.63	4175950.44	2.14999	632250.63	4175950.44	1.35759
632600.63	4175950.44	0.93001	632950.63	4175950.44	0.67844
633300.63	4175950.44	0.51426	629800.63	4176300.44	0.13510
630150.63	4176300.44	0.22559	630500.63	4176300.44	0.42037
630850.63	4176300.44	0.82609	631200.63	4176300.44	1.27226
631550.63	4176300.44	1.19195	631900.63	4176300.44	0.89273
632250.63	4176300.44	0.63379	632600.63	4176300.44	0.49177
632950.63	4176300.44	0.40383	633300.63	4176300.44	0.33539
629800.63	4176650.44	0.15489	630150.63	4176650.44	0.23482
630500.63	4176650.44	0.36816	630850.63	4176650.44	0.51783

631200.63	4176650.44	0.61573	631550.63	4176650.44	0.59265
631900.63	4176650.44	0.48899	632250.63	4176650.44	0.40406
632600.63	4176650.44	0.32272	632950.63	4176650.44	0.26082
633300.63	4176650.44	0.22718	629800.63	4177000.44	0.15340
630150.63	4177000.44	0.21440	630500.63	4177000.44	0.28004
630850.63	4177000.44	0.33773	631200.63	4177000.44	0.36924
631550.63	4177000.44	0.36433	631900.63	4177000.44	0.30758
632250.63	4177000.44	0.28470	632600.63	4177000.44	0.23619
632950.63	4177000.44	0.20142	633300.63	4177000.44	0.16848
629800.63	4177350.44	0.14367	630150.63	4177350.44	0.17777
630500.63	4177350.44	0.20951	630850.63	4177350.44	0.23978
631200.63	4177350.44	0.24722	631550.63	4177350.44	0.24678
631900.63	4177350.44	0.22342	632250.63	4177350.44	0.19734
632600.63	4177350.44	0.18582	632950.63	4177350.44	0.15760
633300.63	4177350.44	0.14020	631670.70	4175493.59	8.12589
631669.80	4175641.41	15.34475	631665.32	4175796.39	7.94770
631417.17	4175826.85	14.28351	631417.17	4175673.66	0.00000
631422.55	4175484.63	11.78185	631268.42	4175983.74	4.08712
631275.69	4175523.99	6.97254	631345.65	4175419.50	4.16433
631384.72	4175441.30	5.98467	631491.93	4175442.21	8.00561
631491.93	4175414.95	6.23897	631385.63	4175413.14	4.57086
631358.37	4175395.87	3.62619	631409.25	4175336.81	2.77524
631567.35	4175235.96	2.06566	631756.33	4175028.80	0.99167
631807.22	4175003.36	0.92271	631867.18	4174987.91	0.87799
631849.92	4175988.28	2.03497	631268.74	4175963.75	4.51782
631269.05	4175943.76	5.02463	631269.37	4175923.77	5.61693
631269.68	4175903.78	6.31154	631270.00	4175883.79	7.12526
631270.32	4175863.81	8.07436	631270.63	4175843.82	9.16864

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	10.45164	631271.26	4175803.84	11.94324
631271.58	4175783.85	13.67373	631271.90	4175763.86	15.57004
631272.21	4175743.87	17.51785	631272.53	4175723.88	19.40689
631272.85	4175703.89	20.96545	631273.16	4175683.90	21.80701
631273.48	4175663.91	21.56374	631273.79	4175643.92	20.08534
631274.11	4175623.94	17.89808	631274.43	4175603.95	15.22143
631274.74	4175583.96	12.57188	631275.06	4175563.97	10.20587
631275.37	4175543.98	8.38347	631285.68	4175509.06	6.60954
631295.68	4175494.14	6.18036	631305.67	4175479.21	5.75174
631315.67	4175464.28	5.32643	631325.66	4175449.35	4.90967
631335.66	4175434.43	4.53239	631358.67	4175426.77	4.64757

631371.70	4175434.03	5.24238	631402.59	4175441.45	6.47248
631420.46	4175441.60	6.93100	631438.33	4175441.76	7.33430
631456.19	4175441.91	7.65844	631474.06	4175442.06	7.88538
631491.93	4175428.58	7.04608	631474.21	4175414.65	6.08144
631456.50	4175414.35	5.86005	631438.78	4175414.05	5.58490
631421.06	4175413.74	5.26294	631403.35	4175413.44	4.91807
631372.00	4175404.51	4.05895	631371.09	4175381.11	3.38339
631383.81	4175366.34	3.16305	631396.53	4175351.58	2.96053
631425.06	4175326.73	2.70660	631440.87	4175316.64	2.64327
631456.68	4175306.56	2.57223	631472.49	4175296.47	2.50247
631488.30	4175286.39	2.43499	631504.11	4175276.30	2.36048
631519.92	4175266.22	2.28668	631535.73	4175256.13	2.21513
631551.54	4175246.05	2.13958	631579.95	4175222.15	1.95189
631592.55	4175208.34	1.84473	631605.15	4175194.53	1.74829
631617.74	4175180.72	1.65637	631630.34	4175166.91	1.57382
631642.94	4175153.10	1.49448	631655.54	4175139.29	1.42291
631668.14	4175125.47	1.35460	631680.74	4175111.66	1.29226
631693.34	4175097.85	1.23328	631705.94	4175084.04	1.17866
631718.53	4175070.23	1.12728	631731.13	4175056.42	1.07921
631743.73	4175042.61	1.03425	631773.29	4175020.32	0.96873
631790.26	4175011.84	0.94585	631822.21	4174999.50	0.91219
631837.20	4174995.64	0.90124	631852.19	4174991.77	0.88984
631866.84	4175007.53	0.92493	631866.50	4175027.14	0.97544
631866.16	4175046.76	1.02904	631865.83	4175066.37	1.08472
631865.49	4175085.99	1.14303	631865.15	4175105.60	1.20482
631864.81	4175125.22	1.27074	631864.47	4175144.83	1.34076
631864.13	4175164.45	1.41549	631863.80	4175184.06	1.49555
631863.46	4175203.68	1.58199	631863.12	4175223.29	1.67588
631862.78	4175242.91	1.77874	631862.44	4175262.52	1.89215

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.01816	631861.77	4175301.75	2.15874
631861.43	4175321.37	2.31642	631861.09	4175340.98	2.49328
631860.75	4175360.60	2.69172	631860.41	4175380.21	2.91350
631860.07	4175399.83	3.15995	631859.73	4175419.44	3.43129
631859.40	4175439.06	3.72692	631859.06	4175458.67	4.04416
631858.72	4175478.29	4.37884	631858.38	4175497.90	4.72419
631858.04	4175517.52	5.07122	631857.70	4175537.13	5.40846
631857.37	4175556.75	5.72284	631857.03	4175576.36	5.99969
631856.69	4175595.98	6.22447	631856.35	4175615.59	6.38302
631856.01	4175635.21	6.46440	631855.67	4175654.82	6.46213

631855.33	4175674.44	6.37438	631855.00	4175694.05	6.20463
631854.66	4175713.67	5.96360	631854.32	4175733.28	5.66472
631853.98	4175752.90	5.32427	631853.64	4175772.51	4.96037
631853.30	4175792.13	4.58874	631852.97	4175811.74	4.22367
631852.63	4175831.36	3.87443	631852.29	4175850.97	3.54862
631851.95	4175870.59	3.24908	631851.61	4175890.20	2.97906
631851.27	4175909.82	2.73829	631850.94	4175929.43	2.52636
631850.60	4175949.05	2.34084	631850.26	4175968.66	2.17937
631830.54	4175988.13	2.09979	631811.15	4175987.98	2.16752
631791.77	4175987.83	2.24105	631772.39	4175987.67	2.31761
631753.00	4175987.52	2.39894	631733.62	4175987.37	2.48503
631714.24	4175987.22	2.57610	631694.85	4175987.07	2.67125
631675.47	4175986.92	2.77140	631656.09	4175986.77	2.87501
631636.70	4175986.62	2.98071	631617.32	4175986.46	3.08633
631597.94	4175986.31	3.19158	631578.55	4175986.16	3.29751
631559.17	4175986.01	3.40429	631539.79	4175985.86	3.51458
631520.40	4175985.71	3.62937	631501.02	4175985.56	3.74871
631481.64	4175985.40	3.87014	631462.25	4175985.25	3.98805
631442.87	4175985.10	4.09771	631423.49	4175984.95	4.19257
631404.10	4175984.80	4.26836	631384.72	4175984.65	4.32192
631365.34	4175984.50	4.35137	631345.95	4175984.35	4.35451
631326.57	4175984.19	4.33097	631307.19	4175984.04	4.27855
631287.80	4175983.89	4.19707	631050.63	4175100.50	0.42929
631050.63	4175200.50	0.55101	631050.63	4175300.50	0.72324
631050.63	4175400.50	0.98257	631050.63	4175500.50	1.33309
631050.63	4175600.50	1.99317	631050.63	4175700.50	2.01467
631050.63	4175800.50	2.39691	631050.63	4175900.50	2.37727
631050.63	4176000.50	2.09189	631050.63	4176100.50	1.71747
631150.63	4175100.50	0.51897	631150.63	4175200.50	0.71919
631150.63	4175300.50	1.02960	631150.63	4175400.50	1.51312

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	2.62528	631150.63	4175600.50	3.74305
631150.63	4175700.50	4.57208	631150.63	4175800.50	4.67821
631150.63	4175900.50	3.88869	631150.63	4176000.50	2.89358
631150.63	4176100.50	2.11173	631250.63	4175100.50	0.59357
631250.63	4175200.50	0.88128	631250.63	4175300.50	1.38375
631250.63	4175400.50	2.58300	631250.63	4175500.50	4.78477
631250.63	4175600.50	10.06391	631250.63	4175700.50	14.50857
631250.63	4175800.50	10.33221	631250.63	4175900.50	6.03711
631250.63	4176000.50	3.66788	631250.63	4176100.50	2.42566

631350.63	4175100.50	0.66468	631350.63	4175200.50	1.03355
631350.63	4175300.50	1.94446	631350.63	4175400.50	3.65623
631350.63	4175500.50	9.98737	631350.63	4175600.50	0.00000
631350.63	4175700.50	0.00000	631350.63	4175800.50	19.69719
631350.63	4175900.50	7.44988	631350.63	4176000.50	3.99660
631350.63	4176100.50	2.52639	631450.63	4175100.50	0.82105
631450.63	4175200.50	1.43748	631450.63	4175300.50	2.44220
631450.63	4175400.50	5.10004	631450.63	4175500.50	15.65554
631450.63	4175600.50	0.00000	631450.63	4175700.50	0.00000
631450.63	4175800.50	18.34596	631450.63	4175900.50	6.79473
631450.63	4176000.50	3.75335	631450.63	4176100.50	2.42933
631550.63	4175100.50	1.02266	631550.63	4175200.50	1.69819
631550.63	4175300.50	2.90333	631550.63	4175400.50	5.60778
631550.63	4175500.50	13.08012	631550.63	4175600.50	33.31894
631550.63	4175700.50	32.53435	631550.63	4175800.50	11.86270
631550.63	4175900.50	5.43062	631550.63	4176000.50	3.23128
631550.63	4176100.50	2.15346	631650.63	4175100.50	1.21619
631650.63	4175200.50	1.83523	631650.63	4175300.50	2.90600
631650.63	4175400.50	4.86723	631650.63	4175500.50	9.11690
631650.63	4175600.50	15.97581	631650.63	4175700.50	15.43074
631650.63	4175800.50	8.11943	631650.63	4175900.50	4.27957
631650.63	4176000.50	2.75492	631650.63	4176100.50	1.92327
631750.63	4175100.50	1.25728	631750.63	4175200.50	1.77836
631750.63	4175300.50	2.56546	631750.63	4175400.50	3.93387
631750.63	4175500.50	6.51047	631750.63	4175600.50	9.52730
631750.63	4175700.50	9.23534	631750.63	4175800.50	5.88861
631750.63	4175900.50	3.44274	631750.63	4176000.50	2.30273
631750.63	4176100.50	1.68932	631850.63	4175100.50	1.20241
631850.63	4175200.50	1.59383	631850.63	4175300.50	2.18635
631850.63	4175400.50	3.22499	631850.63	4175500.50	4.87067
631850.63	4175600.50	6.40175	631850.63	4175700.50	6.22583

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	4.46075	631850.63	4175900.50	2.85323
631850.63	4176000.50	1.95081	631850.63	4176100.50	1.45800
631950.63	4175100.50	1.09149	631950.63	4175200.50	1.39962
631950.63	4175300.50	1.89412	631950.63	4175400.50	2.70041
631950.63	4175500.50	3.77962	631950.63	4175600.50	4.63820
631950.63	4175700.50	4.52289	631950.63	4175800.50	3.49241
631950.63	4175900.50	2.40619	631950.63	4176000.50	1.68795
631950.63	4176100.50	1.27149	632050.63	4175100.50	0.97695

632050.63	4175200.50	1.24611	632050.63	4175300.50	1.67161
632050.63	4175400.50	2.29434	632050.63	4175500.50	3.02147
632050.63	4175600.50	3.54108	632050.63	4175700.50	3.46265
632050.63	4175800.50	2.81242	632050.63	4175900.50	2.05504
632050.63	4176000.50	1.48938	632050.63	4176100.50	1.12887

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	0.74094	632304.44	4174354.52	0.18533
632192.15	4174956.32	0.76693	632420.62	4175510.15	2.67774
632418.97	4175552.92	2.87954	631187.00	4175727.00	1.05878
631166.00	4175729.00	0.98172	631121.00	4175719.00	0.83866
631035.00	4174830.00	0.14662	631106.00	4174825.00	0.15907
631937.00	4174528.00	0.21584	631322.00	4174522.00	0.09575
629800.63	4173850.44	0.01930	630150.63	4173850.44	0.02076
630500.63	4173850.44	0.02495	630850.63	4173850.44	0.04157
631200.63	4173850.44	0.03755	631550.63	4173850.44	0.04539
631900.63	4173850.44	0.05701	632250.63	4173850.44	0.08370
632600.63	4173850.44	0.10016	632950.63	4173850.44	0.12269
633300.63	4173850.44	0.12480	629800.63	4174200.44	0.02576
630150.63	4174200.44	0.03269	630500.63	4174200.44	0.04480
630850.63	4174200.44	0.05437	631200.63	4174200.44	0.05947
631550.63	4174200.44	0.07349	631900.63	4174200.44	0.11455
632250.63	4174200.44	0.13934	632600.63	4174200.44	0.17106
632950.63	4174200.44	0.18288	633300.63	4174200.44	0.15985
629800.63	4174550.44	0.04418	630150.63	4174550.44	0.04998
630500.63	4174550.44	0.06808	630850.63	4174550.44	0.08364
631200.63	4174550.44	0.11959	631550.63	4174550.44	0.12170
631900.63	4174550.44	0.21913	632250.63	4174550.44	0.26970
632600.63	4174550.44	0.30520	632950.63	4174550.44	0.25850
633300.63	4174550.44	0.23290	629800.63	4174900.44	0.05507
630150.63	4174900.44	0.06497	630500.63	4174900.44	0.09812
630850.63	4174900.44	0.13497	631200.63	4174900.44	0.20735
631550.63	4174900.44	0.31432	631900.63	4174900.44	0.52853
632250.63	4174900.44	0.65197	632600.63	4174900.44	0.51476
632950.63	4174900.44	0.43571	633300.63	4174900.44	0.37540
629800.63	4175250.44	0.05920	630150.63	4175250.44	0.08894
630500.63	4175250.44	0.14462	630850.63	4175250.44	0.22595
631200.63	4175250.44	0.43808	631550.63	4175250.44	1.05808
631900.63	4175250.44	2.28795	632250.63	4175250.44	1.61617
632600.63	4175250.44	1.12532	632950.63	4175250.44	0.82945
633300.63	4175250.44	0.62710	629800.63	4175600.44	0.07715

630150.63	4175600.44	0.10892	630500.63	4175600.44	0.16889
630850.63	4175600.44	0.30832	631200.63	4175600.44	0.87699
631550.63	4175600.44	10.19938	631900.63	4175600.44	22.19194
632250.63	4175600.44	4.64687	632600.63	4175600.44	2.09035
632950.63	4175600.44	1.22123	633300.63	4175600.44	0.81943
629800.63	4175950.44	0.08407	630150.63	4175950.44	0.11569

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.19371	630850.63	4175950.44	0.40670
631200.63	4175950.44	1.23384	631550.63	4175950.44	4.66142
631900.63	4175950.44	3.73839	632250.63	4175950.44	2.00559
632600.63	4175950.44	1.28753	632950.63	4175950.44	0.89212
633300.63	4175950.44	0.65037	629800.63	4176300.44	0.09317
630150.63	4176300.44	0.14252	630500.63	4176300.44	0.25292
630850.63	4176300.44	0.46351	631200.63	4176300.44	0.89969
631550.63	4176300.44	1.30723	631900.63	4176300.44	1.13409
632250.63	4176300.44	0.85415	632600.63	4176300.44	0.61050
632950.63	4176300.44	0.48067	633300.63	4176300.44	0.39472
629800.63	4176650.44	0.10865	630150.63	4176650.44	0.16357
630500.63	4176650.44	0.25105	630850.63	4176650.44	0.39013
631200.63	4176650.44	0.53388	631550.63	4176650.44	0.62091
631900.63	4176650.44	0.58212	632250.63	4176650.44	0.48545
632600.63	4176650.44	0.39279	632950.63	4176650.44	0.31332
633300.63	4176650.44	0.25698	629800.63	4177000.44	0.11532
630150.63	4177000.44	0.16132	630500.63	4177000.44	0.22417
630850.63	4177000.44	0.29013	631200.63	4177000.44	0.34418
631550.63	4177000.44	0.37155	631900.63	4177000.44	0.35790
632250.63	4177000.44	0.30211	632600.63	4177000.44	0.28124
632950.63	4177000.44	0.23182	633300.63	4177000.44	0.19778
629800.63	4177350.44	0.11440	630150.63	4177350.44	0.14843
630500.63	4177350.44	0.18146	630850.63	4177350.44	0.21643
631200.63	4177350.44	0.24431	631550.63	4177350.44	0.24866
631900.63	4177350.44	0.24558	632250.63	4177350.44	0.21858
632600.63	4177350.44	0.19844	632950.63	4177350.44	0.18257
633300.63	4177350.44	0.15592	631670.70	4175493.59	10.50040
631669.80	4175641.41	0.00000	631665.32	4175796.39	21.81206
631417.17	4175826.85	3.63093	631417.17	4175673.66	3.36177
631422.55	4175484.63	2.14998	631268.42	4175983.74	1.57566
631275.69	4175523.99	1.04166	631345.65	4175419.50	1.03831
631384.72	4175441.30	1.32329	631491.93	4175442.21	2.50672
631491.93	4175414.95	2.20759	631385.63	4175413.14	1.16128

631358.37	4175395.87	1.01184	631409.25	4175336.81	0.99231
631567.35	4175235.96	1.02325	631756.33	4175028.80	0.63982
631807.22	4175003.36	0.64376	631867.18	4174987.91	0.67264
631849.92	4175988.28	3.42887	631268.74	4175963.75	1.59660
631269.05	4175943.76	1.61230	631269.37	4175923.77	1.62312
631269.68	4175903.78	1.62867	631270.00	4175883.79	1.62929
631270.32	4175863.81	1.62547	631270.63	4175843.82	1.61840

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.60656	631271.26	4175803.84	1.59065
631271.58	4175783.85	1.57055	631271.90	4175763.86	1.54986
631272.21	4175743.87	1.52956	631272.53	4175723.88	1.51150
631272.85	4175703.89	1.49364	631273.16	4175683.90	1.33490
631273.48	4175663.91	1.30155	631273.79	4175643.92	1.27479
631274.11	4175623.94	1.25231	631274.43	4175603.95	1.21286
631274.74	4175583.96	1.16658	631275.06	4175563.97	1.11154
631275.37	4175543.98	1.07606	631285.68	4175509.06	1.05806
631295.68	4175494.14	1.05951	631305.67	4175479.21	1.06422
631315.67	4175464.28	1.06472	631325.66	4175449.35	1.05675
631335.66	4175434.43	1.05661	631358.67	4175426.77	1.10528
631371.70	4175434.03	1.19560	631402.59	4175441.45	1.45266
631420.46	4175441.60	1.82318	631438.33	4175441.76	1.96880
631456.19	4175441.91	2.12993	631474.06	4175442.06	2.30875
631491.93	4175428.58	2.35086	631474.21	4175414.65	2.05023
631456.50	4175414.35	1.90620	631438.78	4175414.05	1.53983
631421.06	4175413.74	1.40403	631403.35	4175413.44	1.27787
631372.00	4175404.51	1.08488	631371.09	4175381.11	1.00706
631383.81	4175366.34	1.00532	631396.53	4175351.58	1.00016
631425.06	4175326.73	1.00587	631440.87	4175316.64	1.02892
631456.68	4175306.56	1.03453	631472.49	4175296.47	1.04314
631488.30	4175286.39	1.05921	631504.11	4175276.30	1.05572
631519.92	4175266.22	1.05232	631535.73	4175256.13	1.05623
631551.54	4175246.05	1.03926	631579.95	4175222.15	0.99029
631592.55	4175208.34	0.94445	631605.15	4175194.53	0.91720
631617.74	4175180.72	0.87290	631630.34	4175166.91	0.85159
631642.94	4175153.10	0.81051	631655.54	4175139.29	0.79128
631668.14	4175125.47	0.75927	631680.74	4175111.66	0.74220
631693.34	4175097.85	0.71915	631705.94	4175084.04	0.70310
631718.53	4175070.23	0.68569	631731.13	4175056.42	0.66999
631743.73	4175042.61	0.65671	631773.29	4175020.32	0.64451
631790.26	4175011.84	0.64762	631822.21	4174999.50	0.64992

631837.20	4174995.64	0.65721	631852.19	4174991.77	0.66513
631866.84	4175007.53	0.70976	631866.50	4175027.14	0.76659
631866.16	4175046.76	0.84441	631865.83	4175066.37	0.99045
631865.49	4175085.99	1.06633	631865.15	4175105.60	1.15004
631864.81	4175125.22	1.24409	631864.47	4175144.83	1.35007
631864.13	4175164.45	1.47006	631863.80	4175184.06	1.60626
631863.46	4175203.68	1.76150	631863.12	4175223.29	1.93879
631862.78	4175242.91	2.14234	631862.44	4175262.52	2.37644

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	2.64691	631861.77	4175301.75	2.96008
631861.43	4175321.37	3.32423	631861.09	4175340.98	3.74879
631860.75	4175360.60	4.24785	631860.41	4175380.21	4.84022
631860.07	4175399.83	5.54836	631859.73	4175419.44	6.40273
631859.40	4175439.06	7.44764	631859.06	4175458.67	8.74267
631858.72	4175478.29	10.37034	631858.38	4175497.90	12.43037
631858.04	4175517.52	15.03202	631857.70	4175537.13	18.25239
631857.37	4175556.75	22.08338	631857.03	4175576.36	26.34387
631856.69	4175595.98	30.63094	631856.35	4175615.59	34.31920
631856.01	4175635.21	36.71194	631855.67	4175654.82	37.26397
631855.33	4175674.44	35.79564	631855.00	4175694.05	32.58862
631854.66	4175713.67	28.30644	631854.32	4175733.28	23.69799
631853.98	4175752.90	19.37892	631853.64	4175772.51	15.71323
631853.30	4175792.13	12.79667	631852.97	4175811.74	10.56738
631852.63	4175831.36	8.88031	631852.29	4175850.97	7.59678
631851.95	4175870.59	6.59564	631851.61	4175890.20	5.79906
631851.27	4175909.82	5.14897	631850.94	4175929.43	4.61001
631850.60	4175949.05	4.15571	631850.26	4175968.66	3.76920
631830.54	4175988.13	3.53998	631811.15	4175987.98	3.65342
631791.77	4175987.83	3.77341	631772.39	4175987.67	3.89039
631753.00	4175987.52	4.00207	631733.62	4175987.37	4.10227
631714.24	4175987.22	4.18615	631694.85	4175987.07	4.24897
631675.47	4175986.92	4.29077	631656.09	4175986.77	4.30889
631636.70	4175986.62	4.30137	631617.32	4175986.46	4.26575
631597.94	4175986.31	4.20122	631578.55	4175986.16	4.10876
631559.17	4175986.01	3.99002	631539.79	4175985.86	3.84922
631520.40	4175985.71	3.69066	631501.02	4175985.56	3.51940
631481.64	4175985.40	3.33983	631462.25	4175985.25	3.15547
631442.87	4175985.10	2.97034	631423.49	4175984.95	2.78709
631404.10	4175984.80	2.60801	631384.72	4175984.65	2.43487
631365.34	4175984.50	2.26911	631345.95	4175984.35	2.11182

631326.57	4175984.19	1.96347	631307.19	4175984.04	1.82458
631287.80	4175983.89	1.69526	631050.63	4175100.50	0.24106
631050.63	4175200.50	0.28982	631050.63	4175300.50	0.34886
631050.63	4175400.50	0.41349	631050.63	4175500.50	0.46381
631050.63	4175600.50	0.53204	631050.63	4175700.50	0.55634
631050.63	4175800.50	0.61362	631050.63	4175900.50	0.72962
631050.63	4176000.50	0.75524	631050.63	4176100.50	0.75592
631150.63	4175100.50	0.28247	631150.63	4175200.50	0.35161
631150.63	4175300.50	0.44224	631150.63	4175400.50	0.54584

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.64218	631150.63	4175600.50	0.73540
631150.63	4175700.50	0.91852	631150.63	4175800.50	0.96518
631150.63	4175900.50	1.01728	631150.63	4176000.50	1.03186
631150.63	4176100.50	1.00061	631250.63	4175100.50	0.34088
631250.63	4175200.50	0.43195	631250.63	4175300.50	0.56060
631250.63	4175400.50	0.72581	631250.63	4175500.50	0.89800
631250.63	4175600.50	1.06812	631250.63	4175700.50	1.22410
631250.63	4175800.50	1.44546	631250.63	4175900.50	1.50045
631250.63	4176000.50	1.45980	631250.63	4176100.50	1.32638
631350.63	4175100.50	0.41926	631350.63	4175200.50	0.54833
631350.63	4175300.50	0.74145	631350.63	4175400.50	0.99676
631350.63	4175500.50	1.38143	631350.63	4175600.50	1.99751
631350.63	4175700.50	2.23597	631350.63	4175800.50	2.40373
631350.63	4175900.50	2.37370	631350.63	4176000.50	2.09268
631350.63	4176100.50	1.71852	631450.63	4175100.50	0.51186
631450.63	4175200.50	0.70567	631450.63	4175300.50	0.99151
631450.63	4175400.50	1.52331	631450.63	4175500.50	2.63629
631450.63	4175600.50	3.75536	631450.63	4175700.50	4.54692
631450.63	4175800.50	4.66982	631450.63	4175900.50	3.90083
631450.63	4176000.50	2.90198	631450.63	4176100.50	2.12617
631550.63	4175100.50	0.59913	631550.63	4175200.50	0.85792
631550.63	4175300.50	1.32423	631550.63	4175400.50	2.59061
631550.63	4175500.50	4.83427	631550.63	4175600.50	10.20371
631550.63	4175700.50	14.55847	631550.63	4175800.50	10.40521
631550.63	4175900.50	6.04345	631550.63	4176000.50	3.67807
631550.63	4176100.50	2.43862	631650.63	4175100.50	0.66029
631650.63	4175200.50	0.99225	631650.63	4175300.50	1.94989
631650.63	4175400.50	3.68846	631650.63	4175500.50	10.06434
631650.63	4175600.50	0.00000	631650.63	4175700.50	0.00000
631650.63	4175800.50	19.73374	631650.63	4175900.50	7.45778

631650.63	4176000.50	4.00679	631650.63	4176100.50	2.53152
631750.63	4175100.50	0.83389	631750.63	4175200.50	1.44542
631750.63	4175300.50	2.46272	631750.63	4175400.50	5.10928
631750.63	4175500.50	15.64315	631750.63	4175600.50	0.00000
631750.63	4175700.50	0.00000	631750.63	4175800.50	18.40287
631750.63	4175900.50	6.81123	631750.63	4176000.50	3.75750
631750.63	4176100.50	2.41712	631850.63	4175100.50	1.10859
631850.63	4175200.50	1.70967	631850.63	4175300.50	2.91524
631850.63	4175400.50	5.60791	631850.63	4175500.50	13.07640
631850.63	4175600.50	33.29790	631850.63	4175700.50	32.55808

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	11.89276	631850.63	4175900.50	5.45290
631850.63	4176000.50	3.23480	631850.63	4176100.50	2.14618
631950.63	4175100.50	1.21741	631950.63	4175200.50	1.83852
631950.63	4175300.50	2.90742	631950.63	4175400.50	4.86714
631950.63	4175500.50	9.11339	631950.63	4175600.50	15.97341
631950.63	4175700.50	15.42960	631950.63	4175800.50	8.12542
631950.63	4175900.50	4.28972	631950.63	4176000.50	2.75492
631950.63	4176100.50	1.91416	632050.63	4175100.50	1.25635
632050.63	4175200.50	1.78156	632050.63	4175300.50	2.56635
632050.63	4175400.50	3.93639	632050.63	4175500.50	6.51300
632050.63	4175600.50	9.53609	632050.63	4175700.50	9.24770
632050.63	4175800.50	5.89628	632050.63	4175900.50	3.44770
632050.63	4176000.50	2.30367	632050.63	4176100.50	1.68851

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

632121.21	4174952.36	1.43127	632304.44	4174354.52	0.27358
632192.15	4174956.32	1.34116	632420.62	4175510.15	2.91679
632418.97	4175552.92	2.74042	631187.00	4175727.00	1.16712
631166.00	4175729.00	1.08184	631121.00	4175719.00	0.92279
631035.00	4174830.00	0.19482	631106.00	4174825.00	0.21242
631937.00	4174528.00	0.32578	631322.00	4174522.00	0.12562
629800.63	4173850.44	0.02191	630150.63	4173850.44	0.02214
630500.63	4173850.44	0.02772	630850.63	4173850.44	0.04759
631200.63	4173850.44	0.04437	631550.63	4173850.44	0.05547
631900.63	4173850.44	0.07030	632250.63	4173850.44	0.10508
632600.63	4173850.44	0.13233	632950.63	4173850.44	0.15489
633300.63	4173850.44	0.14347	629800.63	4174200.44	0.03022
630150.63	4174200.44	0.03735	630500.63	4174200.44	0.05118
630850.63	4174200.44	0.06056	631200.63	4174200.44	0.07231
631550.63	4174200.44	0.09609	631900.63	4174200.44	0.15398
632250.63	4174200.44	0.18951	632600.63	4174200.44	0.23635
632950.63	4174200.44	0.22111	633300.63	4174200.44	0.19157
629800.63	4174550.44	0.04865	630150.63	4174550.44	0.06065
630500.63	4174550.44	0.08070	630850.63	4174550.44	0.10274
631200.63	4174550.44	0.15453	631550.63	4174550.44	0.17528
631900.63	4174550.44	0.33434	632250.63	4174550.44	0.42777
632600.63	4174550.44	0.40345	632950.63	4174550.44	0.33433
633300.63	4174550.44	0.30112	629800.63	4174900.44	0.05759
630150.63	4174900.44	0.07874	630500.63	4174900.44	0.12041
630850.63	4174900.44	0.17735	631200.63	4174900.44	0.28860
631550.63	4174900.44	0.55797	631900.63	4174900.44	1.05938
632250.63	4174900.44	1.09055	632600.63	4174900.44	0.78337
632950.63	4174900.44	0.62788	633300.63	4174900.44	0.51092
629800.63	4175250.44	0.06998	630150.63	4175250.44	0.10104
630500.63	4175250.44	0.15880	630850.63	4175250.44	0.27601
631200.63	4175250.44	0.68870	631550.63	4175250.44	2.95082
631900.63	4175250.44	7.47167	632250.63	4175250.44	3.24096
632600.63	4175250.44	1.76461	632950.63	4175250.44	1.11033
633300.63	4175250.44	0.76835	629800.63	4175600.44	0.07674
630150.63	4175600.44	0.11102	630500.63	4175600.44	0.17728
630850.63	4175600.44	0.33814	631200.63	4175600.44	1.06367
631550.63	4175600.44	10.40402	631900.63	4175600.44	9.76461
632250.63	4175600.44	3.50721	632600.63	4175600.44	1.80115
632950.63	4175600.44	1.10849	633300.63	4175600.44	0.76427
629800.63	4175950.44	0.08630	630150.63	4175950.44	0.12448

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

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630500.63	4175950.44	0.22050	630850.63	4175950.44	0.46593
631200.63	4175950.44	1.09849	631550.63	4175950.44	2.04700
631900.63	4175950.44	1.72650	632250.63	4175950.44	1.14751
632600.63	4175950.44	0.80471	632950.63	4175950.44	0.62152
633300.63	4175950.44	0.48784	629800.63	4176300.44	0.10261
630150.63	4176300.44	0.15532	630500.63	4176300.44	0.25322
630850.63	4176300.44	0.43213	631200.63	4176300.44	0.66712
631550.63	4176300.44	0.82562	631900.63	4176300.44	0.74958
632250.63	4176300.44	0.61709	632600.63	4176300.44	0.46977
632950.63	4176300.44	0.36401	633300.63	4176300.44	0.30495
629800.63	4176650.44	0.11237	630150.63	4176650.44	0.16252
630500.63	4176650.44	0.23958	630850.63	4176650.44	0.33008
631200.63	4176650.44	0.40977	631550.63	4176650.44	0.45299
631900.63	4176650.44	0.43487	632250.63	4176650.44	0.36225
632600.63	4176650.44	0.32269	632950.63	4176650.44	0.26380
633300.63	4176650.44	0.21751	629800.63	4177000.44	0.11496
630150.63	4177000.44	0.15580	630500.63	4177000.44	0.20050
630850.63	4177000.44	0.24553	631200.63	4177000.44	0.28096
631550.63	4177000.44	0.29289	631900.63	4177000.44	0.28565
632250.63	4177000.44	0.24821	632600.63	4177000.44	0.23072
632950.63	4177000.44	0.20021	633300.63	4177000.44	0.17317
629800.63	4177350.44	0.11146	630150.63	4177350.44	0.13675
630500.63	4177350.44	0.16078	630850.63	4177350.44	0.18451
631200.63	4177350.44	0.20691	631550.63	4177350.44	0.20580
631900.63	4177350.44	0.20449	632250.63	4177350.44	0.18746
632600.63	4177350.44	0.16479	632950.63	4177350.44	0.16028
633300.63	4177350.44	0.13821	631670.70	4175493.59	0.00000
631669.80	4175641.41	12.69724	631665.32	4175796.39	4.09669
631417.17	4175826.85	2.44097	631417.17	4175673.66	3.44998
631422.55	4175484.63	3.54473	631268.42	4175983.74	1.22435
631275.69	4175523.99	1.37777	631345.65	4175419.50	1.75400
631384.72	4175441.30	2.57115	631491.93	4175442.21	6.06483
631491.93	4175414.95	5.57471	631385.63	4175413.14	2.15935
631358.37	4175395.87	1.80912	631409.25	4175336.81	2.05871
631567.35	4175235.96	2.91030	631756.33	4175028.80	1.49170
631807.22	4175003.36	1.46553	631867.18	4174987.91	1.50774
631849.92	4175988.28	1.62788	631268.74	4175963.75	1.26607
631269.05	4175943.76	1.30820	631269.37	4175923.77	1.35001
631269.68	4175903.78	1.39106	631270.00	4175883.79	1.43080
631270.32	4175863.81	1.46902	631270.63	4175843.82	1.50550

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.53899	631271.26	4175803.84	1.56877
631271.58	4175783.85	1.59370	631271.90	4175763.86	1.61422
631272.21	4175743.87	1.62993	631272.53	4175723.88	1.64145
631272.85	4175703.89	1.64743	631273.16	4175683.90	1.64775
631273.48	4175663.91	1.64287	631273.79	4175643.92	1.63405
631274.11	4175623.94	1.62212	631274.43	4175603.95	1.60497
631274.74	4175583.96	1.58458	631275.06	4175563.97	1.42771
631275.37	4175543.98	1.39997	631285.68	4175509.06	1.43483
631295.68	4175494.14	1.47923	631305.67	4175479.21	1.53596
631315.67	4175464.28	1.59409	631325.66	4175449.35	1.64504
631335.66	4175434.43	1.71379	631358.67	4175426.77	1.89602
631371.70	4175434.03	2.08612	631402.59	4175441.45	2.89470
631420.46	4175441.60	3.28224	631438.33	4175441.76	3.75447
631456.19	4175441.91	4.34181	631474.06	4175442.06	5.08929
631491.93	4175428.58	5.82904	631474.21	4175414.65	4.73445
631456.50	4175414.35	4.07923	631438.78	4175414.05	3.55444
631421.06	4175413.74	3.12199	631403.35	4175413.44	2.76301
631372.00	4175404.51	1.97642	631371.09	4175381.11	1.87834
631383.81	4175366.34	1.95110	631396.53	4175351.58	2.01158
631425.06	4175326.73	2.16123	631440.87	4175316.64	2.29002
631456.68	4175306.56	2.37656	631472.49	4175296.47	2.47377
631488.30	4175286.39	2.59721	631504.11	4175276.30	2.66746
631519.92	4175266.22	2.74253	631535.73	4175256.13	2.84445
631551.54	4175246.05	2.87836	631579.95	4175222.15	2.83078
631592.55	4175208.34	2.69719	631605.15	4175194.53	2.60981
631617.74	4175180.72	2.46002	631630.34	4175166.91	2.37286
631642.94	4175153.10	2.22261	631655.54	4175139.29	2.13477
631668.14	4175125.47	2.01123	631680.74	4175111.66	1.93088
631693.34	4175097.85	1.83644	631705.94	4175084.04	1.76298
631718.53	4175070.23	1.68805	631731.13	4175056.42	1.61961
631743.73	4175042.61	1.55902	631773.29	4175020.32	1.49217
631790.26	4175011.84	1.48727	631822.21	4174999.50	1.47585
631837.20	4174995.64	1.48707	631852.19	4174991.77	1.49824
631866.84	4175007.53	1.64218	631866.50	4175027.14	1.82976
631866.16	4175046.76	2.17939	631865.83	4175066.37	2.42396
631865.49	4175085.99	2.70492	631865.15	4175105.60	3.02862
631864.81	4175125.22	3.40583	631864.47	4175144.83	3.84659
631864.13	4175164.45	4.36396	631863.80	4175184.06	4.97362
631863.46	4175203.68	5.69791	631863.12	4175223.29	6.56635
631862.78	4175242.91	7.63765	631862.44	4175262.52	8.97033

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	10.64257	631861.77	4175301.75	12.75002
631861.43	4175321.37	15.39203	631861.09	4175340.98	18.62152
631860.75	4175360.60	22.39677	631860.41	4175380.21	26.49910
631860.07	4175399.83	30.49502	631859.73	4175419.44	33.77426
631859.40	4175439.06	35.70194	631859.06	4175458.67	35.83183
631858.72	4175478.29	34.08453	631858.38	4175497.90	30.81307
631858.04	4175517.52	26.64305	631857.70	4175537.13	22.27596
631857.37	4175556.75	18.24656	631857.03	4175576.36	14.85236
631856.69	4175595.98	12.15799	631856.35	4175615.59	10.09127
631856.01	4175635.21	8.52052	631855.67	4175654.82	7.31939
631855.33	4175674.44	6.38018	631855.00	4175694.05	5.62676
631854.66	4175713.67	5.00928	631854.32	4175733.28	4.49283
631853.98	4175752.90	4.05403	631853.64	4175772.51	3.67821
631853.30	4175792.13	3.35333	631852.97	4175811.74	3.07145
631852.63	4175831.36	2.82442	631852.29	4175850.97	2.60736
631851.95	4175870.59	2.41471	631851.61	4175890.20	2.24407
631851.27	4175909.82	2.09217	631850.94	4175929.43	1.95705
631850.60	4175949.05	1.83624	631850.26	4175968.66	1.72805
631830.54	4175988.13	1.66419	631811.15	4175987.98	1.69910
631791.77	4175987.83	1.73301	631772.39	4175987.67	1.76266
631753.00	4175987.52	1.78813	631733.62	4175987.37	1.80890
631714.24	4175987.22	1.82514	631694.85	4175987.07	1.83707
631675.47	4175986.92	1.84615	631656.09	4175986.77	1.85269
631636.70	4175986.62	1.85675	631617.32	4175986.46	1.85763
631597.94	4175986.31	1.85450	631578.55	4175986.16	1.84650
631559.17	4175986.01	1.83262	631539.79	4175985.86	1.81283
631520.40	4175985.71	1.78740	631501.02	4175985.56	1.75720
631481.64	4175985.40	1.72315	631462.25	4175985.25	1.68583
631442.87	4175985.10	1.64610	631423.49	4175984.95	1.60420
631404.10	4175984.80	1.56039	631384.72	4175984.65	1.51494
631365.34	4175984.50	1.46809	631345.95	4175984.35	1.42009
631326.57	4175984.19	1.37144	631307.19	4175984.04	1.32239
631287.80	4175983.89	1.27327	631050.63	4175100.50	0.34624
631050.63	4175200.50	0.41317	631050.63	4175300.50	0.46698
631050.63	4175400.50	0.51942	631050.63	4175500.50	0.55181
631050.63	4175600.50	0.61059	631050.63	4175700.50	0.65873
631050.63	4175800.50	0.72231	631050.63	4175900.50	0.75576
631050.63	4176000.50	0.73389	631050.63	4176100.50	0.69012
631150.63	4175100.50	0.42270	631150.63	4175200.50	0.53529
631150.63	4175300.50	0.64628	631150.63	4175400.50	0.73654

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.79684	631150.63	4175600.50	0.87218
631150.63	4175700.50	1.01445	631150.63	4175800.50	1.03225
631150.63	4175900.50	1.00059	631150.63	4176000.50	0.92703
631150.63	4176100.50	0.82799	631250.63	4175100.50	0.53143
631250.63	4175200.50	0.70589	631250.63	4175300.50	0.91244
631250.63	4175400.50	1.08378	631250.63	4175500.50	1.18969
631250.63	4175600.50	1.32953	631250.63	4175700.50	1.49608
631250.63	4175800.50	1.46121	631250.63	4175900.50	1.32664
631250.63	4176000.50	1.14896	631250.63	4176100.50	0.97335
631350.63	4175100.50	0.69481	631350.63	4175200.50	0.97587
631350.63	4175300.50	1.37606	631350.63	4175400.50	1.74409
631350.63	4175500.50	2.22588	631350.63	4175600.50	2.39861
631350.63	4175700.50	2.37067	631350.63	4175800.50	2.09209
631350.63	4175900.50	1.71979	631350.63	4176000.50	1.38202
631350.63	4176100.50	1.11373	631450.63	4175100.50	0.94774
631450.63	4175200.50	1.43793	631450.63	4175300.50	2.23042
631450.63	4175400.50	3.74908	631450.63	4175500.50	4.53987
631450.63	4175600.50	4.66052	631450.63	4175700.50	3.89924
631450.63	4175800.50	2.90280	631450.63	4175900.50	2.12483
631450.63	4176000.50	1.59429	631450.63	4176100.50	1.23574
631550.63	4175100.50	1.30746	631550.63	4175200.50	2.16762
631550.63	4175300.50	4.75409	631550.63	4175400.50	10.19479
631550.63	4175500.50	14.53068	631550.63	4175600.50	10.40086
631550.63	4175700.50	6.05550	631550.63	4175800.50	3.68008
631550.63	4175900.50	2.44167	631550.63	4176000.50	1.74451
631550.63	4176100.50	1.31161	631650.63	4175100.50	1.62691
631650.63	4175200.50	3.16401	631650.63	4175300.50	10.02760
631650.63	4175400.50	0.00000	631650.63	4175500.50	0.00000
631650.63	4175600.50	19.82237	631650.63	4175700.50	7.49028
631650.63	4175800.50	4.01147	631650.63	4175900.50	2.53788
631650.63	4176000.50	1.77304	631650.63	4176100.50	1.31474
631750.63	4175100.50	2.43168	631750.63	4175200.50	5.08837
631750.63	4175300.50	15.66545	631750.63	4175400.50	0.00000
631750.63	4175500.50	0.00000	631750.63	4175600.50	18.51572
631750.63	4175700.50	6.84822	631750.63	4175800.50	3.76373
631750.63	4175900.50	2.42799	631750.63	4176000.50	1.71866
631750.63	4176100.50	1.28514	631850.63	4175100.50	2.90925
631850.63	4175200.50	5.61527	631850.63	4175300.50	13.08160
631850.63	4175400.50	33.29313	631850.63	4175500.50	32.56983
631850.63	4175600.50	11.92654	631850.63	4175700.50	5.46782

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	3.24087	631850.63	4175900.50	2.16439
631850.63	4176000.50	1.56836	631850.63	4176100.50	1.19503
631950.63	4175100.50	2.91548	631950.63	4175200.50	4.87836
631950.63	4175300.50	9.13339	631950.63	4175400.50	15.97581
631950.63	4175500.50	15.43074	631950.63	4175600.50	8.14449
631950.63	4175700.50	4.30170	631950.63	4175800.50	2.76128
631950.63	4175900.50	1.93342	631950.63	4176000.50	1.42028
631950.63	4176100.50	1.08528	632050.63	4175100.50	2.57355
632050.63	4175200.50	3.94216	632050.63	4175300.50	6.52954
632050.63	4175400.50	9.54234	632050.63	4175500.50	9.24330
632050.63	4175600.50	5.91078	632050.63	4175700.50	3.46295
632050.63	4175800.50	2.30996	632050.63	4175900.50	1.69984
632050.63	4176000.50	1.30665	632050.63	4176100.50	1.01921

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	1.13757	632304.44	4174354.52	0.30438
632192.15	4174956.32	1.06601	632420.62	4175510.15	1.96501
632418.97	4175552.92	1.88062	631187.00	4175727.00	2.73457
631166.00	4175729.00	2.48081	631121.00	4175719.00	2.04329
631035.00	4174830.00	0.27134	631106.00	4174825.00	0.30500
631937.00	4174528.00	0.38441	631322.00	4174522.00	0.14053
629800.63	4173850.44	0.02315	630150.63	4173850.44	0.02518
630500.63	4173850.44	0.03187	630850.63	4173850.44	0.05359
631200.63	4173850.44	0.04627	631550.63	4173850.44	0.06754
631900.63	4173850.44	0.08516	632250.63	4173850.44	0.11483
632600.63	4173850.44	0.14722	632950.63	4173850.44	0.15038
633300.63	4173850.44	0.13260	629800.63	4174200.44	0.03195
630150.63	4174200.44	0.04192	630500.63	4174200.44	0.05984
630850.63	4174200.44	0.07733	631200.63	4174200.44	0.07998
631550.63	4174200.44	0.11796	631900.63	4174200.44	0.18243
632250.63	4174200.44	0.21968	632600.63	4174200.44	0.23471
632950.63	4174200.44	0.20101	633300.63	4174200.44	0.18568
629800.63	4174550.44	0.05576	630150.63	4174550.44	0.06923
630500.63	4174550.44	0.09712	630850.63	4174550.44	0.12978
631200.63	4174550.44	0.19084	631550.63	4174550.44	0.22458
631900.63	4174550.44	0.39999	632250.63	4174550.44	0.44224
632600.63	4174550.44	0.35583	632950.63	4174550.44	0.31746

633300.63	4174550.44	0.28162	629800.63	4174900.44	0.07045
630150.63	4174900.44	0.09404	630500.63	4174900.44	0.15056
630850.63	4174900.44	0.23560	631200.63	4174900.44	0.43814
631550.63	4174900.44	0.78022	631900.63	4174900.44	1.23971
632250.63	4174900.44	0.88427	632600.63	4174900.44	0.68775
632950.63	4174900.44	0.55772	633300.63	4174900.44	0.45520
629800.63	4175250.44	0.08329	630150.63	4175250.44	0.12616
630500.63	4175250.44	0.21863	630850.63	4175250.44	0.44143
631200.63	4175250.44	1.45687	631550.63	4175250.44	8.22445
631900.63	4175250.44	4.47618	632250.63	4175250.44	2.23735
632600.63	4175250.44	1.33333	632950.63	4175250.44	0.89059
633300.63	4175250.44	0.64149	629800.63	4175600.44	0.09520
630150.63	4175600.44	0.14510	630500.63	4175600.44	0.25316
630850.63	4175600.44	0.58555	631200.63	4175600.44	3.26504
631550.63	4175600.44	18.51528	631900.63	4175600.44	5.10352
632250.63	4175600.44	2.32106	632600.63	4175600.44	1.34156
632950.63	4175600.44	0.88356	633300.63	4175600.44	0.63597
629800.63	4175950.44	0.10833	630150.63	4175950.44	0.16748

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.32683	630850.63	4175950.44	0.74783
631200.63	4175950.44	1.68857	631550.63	4175950.44	2.02029
631900.63	4175950.44	1.38966	632250.63	4175950.44	0.91314
632600.63	4175950.44	0.68800	632950.63	4175950.44	0.53892
633300.63	4175950.44	0.43074	629800.63	4176300.44	0.13021
630150.63	4176300.44	0.20700	630500.63	4176300.44	0.34324
630850.63	4176300.44	0.56461	631200.63	4176300.44	0.77912
631550.63	4176300.44	0.80903	631900.63	4176300.44	0.65165
632250.63	4176300.44	0.52290	632600.63	4176300.44	0.40188
632950.63	4176300.44	0.32500	633300.63	4176300.44	0.27892
629800.63	4176650.44	0.13904	630150.63	4176650.44	0.20328
630500.63	4176650.44	0.29057	630850.63	4176650.44	0.38103
631200.63	4176650.44	0.44947	631550.63	4176650.44	0.44788
631900.63	4176650.44	0.38864	632250.63	4176650.44	0.34767
632600.63	4176650.44	0.28358	632950.63	4176650.44	0.23553
633300.63	4176650.44	0.19592	629800.63	4177000.44	0.13733
630150.63	4177000.44	0.18098	630500.63	4177000.44	0.22591
630850.63	4177000.44	0.26490	631200.63	4177000.44	0.29535
631550.63	4177000.44	0.29234	631900.63	4177000.44	0.26776
632250.63	4177000.44	0.23169	632600.63	4177000.44	0.21631
632950.63	4177000.44	0.18170	633300.63	4177000.44	0.15891

629800.63	4177350.44	0.12600	630150.63	4177350.44	0.15101
630500.63	4177350.44	0.17454	630850.63	4177350.44	0.19598
631200.63	4177350.44	0.20799	631550.63	4177350.44	0.20620
631900.63	4177350.44	0.19641	632250.63	4177350.44	0.16953
632600.63	4177350.44	0.16362	632950.63	4177350.44	0.14747
633300.63	4177350.44	0.12833	631670.70	4175493.59	28.31754
631669.80	4175641.41	7.75787	631665.32	4175796.39	3.22276
631417.17	4175826.85	3.48278	631417.17	4175673.66	8.80732
631422.55	4175484.63	0.00000	631268.42	4175983.74	1.70324
631275.69	4175523.99	5.80124	631345.65	4175419.50	10.58783
631384.72	4175441.30	25.01679	631491.93	4175442.21	0.00000
631491.93	4175414.95	0.00000	631385.63	4175413.14	20.17438
631358.37	4175395.87	10.87907	631409.25	4175336.81	11.28939
631567.35	4175235.96	7.30583	631756.33	4175028.80	2.08245
631807.22	4175003.36	1.84846	631867.18	4174987.91	1.68282
631849.92	4175988.28	1.34862	631268.74	4175963.75	1.80473
631269.05	4175943.76	1.91665	631269.37	4175923.77	2.03883
631269.68	4175903.78	2.17226	631270.00	4175883.79	2.31761
631270.32	4175863.81	2.47527	631270.63	4175843.82	2.64493

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	2.83123	631271.26	4175803.84	3.03527
631271.58	4175783.85	3.25987	631271.90	4175763.86	3.50014
631272.21	4175743.87	3.75443	631272.53	4175723.88	4.02039
631272.85	4175703.89	4.29512	631273.16	4175683.90	4.57275
631273.48	4175663.91	4.84713	631273.79	4175643.92	5.11095
631274.11	4175623.94	5.35416	631274.43	4175603.95	5.55467
631274.74	4175583.96	5.70110	631275.06	4175563.97	5.78044
631275.37	4175543.98	5.81823	631285.68	4175509.06	6.34971
631295.68	4175494.14	6.94550	631305.67	4175479.21	7.61963
631315.67	4175464.28	8.35641	631325.66	4175449.35	9.11546
631335.66	4175434.43	9.90962	631358.67	4175426.77	13.52032
631371.70	4175434.03	18.01192	631402.59	4175441.45	0.00000
631420.46	4175441.60	0.00000	631438.33	4175441.76	0.00000
631456.19	4175441.91	0.00000	631474.06	4175442.06	0.00000
631491.93	4175428.58	0.00000	631474.21	4175414.65	0.00000
631456.50	4175414.35	0.00000	631438.78	4175414.05	0.00000
631421.06	4175413.74	0.00000	631403.35	4175413.44	0.00000
631372.00	4175404.51	14.47624	631371.09	4175381.11	11.55425
631383.81	4175366.34	11.93022	631396.53	4175351.58	11.82787
631425.06	4175326.73	11.56775	631440.87	4175316.64	11.61698

631456.68	4175306.56	11.34162	631472.49	4175296.47	10.88267
631488.30	4175286.39	10.33609	631504.11	4175276.30	9.68224
631519.92	4175266.22	9.04009	631535.73	4175256.13	8.44599
631551.54	4175246.05	7.85635	631579.95	4175222.15	6.53231
631592.55	4175208.34	5.86816	631605.15	4175194.53	5.30908
631617.74	4175180.72	4.81762	631630.34	4175166.91	4.39809
631642.94	4175153.10	4.02368	631655.54	4175139.29	3.69963
631668.14	4175125.47	3.40905	631680.74	4175111.66	3.15383
631693.34	4175097.85	2.92451	631705.94	4175084.04	2.72002
631718.53	4175070.23	2.53571	631731.13	4175056.42	2.36952
631743.73	4175042.61	2.21933	631773.29	4175020.32	2.00258
631790.26	4175011.84	1.92462	631822.21	4174999.50	1.80833
631837.20	4174995.64	1.76721	631852.19	4174991.77	1.72526
631866.84	4175007.53	1.80020	631866.50	4175027.14	1.92765
631866.16	4175046.76	2.06449	631865.83	4175066.37	2.21150
631865.49	4175085.99	2.37478	631865.15	4175105.60	2.55762
631864.81	4175125.22	2.76208	631864.47	4175144.83	2.99236
631864.13	4175164.45	3.25378	631863.80	4175184.06	3.55153
631863.46	4175203.68	3.89171	631863.12	4175223.29	4.27911
631862.78	4175242.91	4.71776	631862.44	4175262.52	5.20850

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	5.74908	631861.77	4175301.75	6.33076
631861.43	4175321.37	6.94023	631861.09	4175340.98	7.55465
631860.75	4175360.60	8.14605	631860.41	4175380.21	8.68009
631860.07	4175399.83	9.11889	631859.73	4175419.44	9.42703
631859.40	4175439.06	9.57613	631859.06	4175458.67	9.54968
631858.72	4175478.29	9.34582	631858.38	4175497.90	8.98022
631858.04	4175517.52	8.48027	631857.70	4175537.13	7.88569
631857.37	4175556.75	7.23766	631857.03	4175576.36	6.57640
631856.69	4175595.98	5.93389	631856.35	4175615.59	5.33373
631856.01	4175635.21	4.78944	631855.67	4175654.82	4.30834
631855.33	4175674.44	3.88956	631855.00	4175694.05	3.52881
631854.66	4175713.67	3.22030	631854.32	4175733.28	2.95634
631853.98	4175752.90	2.72932	631853.64	4175772.51	2.53322
631853.30	4175792.13	2.36206	631852.97	4175811.74	2.21162
631852.63	4175831.36	2.07737	631852.29	4175850.97	1.95674
631851.95	4175870.59	1.84665	631851.61	4175890.20	1.74626
631851.27	4175909.82	1.65402	631850.94	4175929.43	1.56930
631850.60	4175949.05	1.49100	631850.26	4175968.66	1.41853
631830.54	4175988.13	1.37566	631811.15	4175987.98	1.40038

631791.77	4175987.83	1.42475	631772.39	4175987.67	1.44759
631753.00	4175987.52	1.47078	631733.62	4175987.37	1.49531
631714.24	4175987.22	1.52221	631694.85	4175987.07	1.55172
631675.47	4175986.92	1.58457	631656.09	4175986.77	1.61990
631636.70	4175986.62	1.65655	631617.32	4175986.46	1.69276
631597.94	4175986.31	1.72720	631578.55	4175986.16	1.75882
631559.17	4175986.01	1.78621	631539.79	4175985.86	1.80908
631520.40	4175985.71	1.82722	631501.02	4175985.56	1.84111
631481.64	4175985.40	1.85141	631462.25	4175985.25	1.85851
631442.87	4175985.10	1.86313	631423.49	4175984.95	1.86487
631404.10	4175984.80	1.86302	631384.72	4175984.65	1.85654
631365.34	4175984.50	1.84449	631345.95	4175984.35	1.82627
631326.57	4175984.19	1.80238	631307.19	4175984.04	1.77332
631287.80	4175983.89	1.74004	631050.63	4175100.50	0.54298
631050.63	4175200.50	0.70719	631050.63	4175300.50	0.89254
631050.63	4175400.50	1.05887	631050.63	4175500.50	1.17395
631050.63	4175600.50	1.43471	631050.63	4175700.50	1.49115
631050.63	4175800.50	1.45659	631050.63	4175900.50	1.32674
631050.63	4176000.50	1.14842	631050.63	4176100.50	0.97364
631150.63	4175100.50	0.70653	631150.63	4175200.50	0.99552
631150.63	4175300.50	1.39764	631150.63	4175400.50	1.99452

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	2.22698	631150.63	4175600.50	2.39546
631150.63	4175700.50	2.37549	631150.63	4175800.50	2.09041
631150.63	4175900.50	1.71559	631150.63	4176000.50	1.37946
631150.63	4176100.50	1.10997	631250.63	4175100.50	0.95914
631250.63	4175200.50	1.45624	631250.63	4175300.50	2.62712
631250.63	4175400.50	3.74305	631250.63	4175500.50	4.50653
631250.63	4175600.50	4.64177	631250.63	4175700.50	3.89691
631250.63	4175800.50	2.89244	631250.63	4175900.50	2.12340
631250.63	4176000.50	1.59149	631250.63	4176100.50	1.22940
631350.63	4175100.50	1.28927	631350.63	4175200.50	2.22399
631350.63	4175300.50	4.80595	631350.63	4175400.50	10.07719
631350.63	4175500.50	14.45671	631350.63	4175600.50	10.40334
631350.63	4175700.50	6.05317	631350.63	4175800.50	3.67792
631350.63	4175900.50	2.43997	631350.63	4176000.50	1.74164
631350.63	4176100.50	1.30903	631450.63	4175100.50	1.63928
631450.63	4175200.50	3.63869	631450.63	4175300.50	9.89047
631450.63	4175400.50	0.00000	631450.63	4175500.50	0.00000
631450.63	4175600.50	19.81336	631450.63	4175700.50	7.48234

631450.63	4175800.50	4.00573	631450.63	4175900.50	2.53490
631450.63	4176000.50	1.77116	631450.63	4176100.50	1.31791
631550.63	4175100.50	2.43332	631550.63	4175200.50	5.04180
631550.63	4175300.50	15.67683	631550.63	4175400.50	0.00000
631550.63	4175500.50	0.00000	631550.63	4175600.50	18.49904
631550.63	4175700.50	6.83382	631550.63	4175800.50	3.75687
631550.63	4175900.50	2.42370	631550.63	4176000.50	1.71699
631550.63	4176100.50	1.28565	631650.63	4175100.50	2.89491
631650.63	4175200.50	5.63058	631650.63	4175300.50	13.08495
631650.63	4175400.50	33.29073	631650.63	4175500.50	32.56592
631650.63	4175600.50	11.91897	631650.63	4175700.50	5.46072
631650.63	4175800.50	3.23509	631650.63	4175900.50	2.15768
631650.63	4176000.50	1.56661	631650.63	4176100.50	1.19689
631750.63	4175100.50	2.91526	631750.63	4175200.50	4.86927
631750.63	4175300.50	9.11883	631750.63	4175400.50	15.96443
631750.63	4175500.50	15.42960	631750.63	4175600.50	8.13942
631750.63	4175700.50	4.30088	631750.63	4175800.50	2.75787
631750.63	4175900.50	1.92993	631750.63	4176000.50	1.41950
631750.63	4176100.50	1.08796	631850.63	4175100.50	2.56633
631850.63	4175200.50	3.93670	631850.63	4175300.50	6.51175
631850.63	4175400.50	9.52097	631850.63	4175500.50	9.22976
631850.63	4175600.50	5.89628	631850.63	4175700.50	3.45260

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	2.30591	631850.63	4175900.50	1.69894
631850.63	4176000.50	1.30583	631850.63	4176100.50	1.01725
631950.63	4175100.50	2.18957	631950.63	4175200.50	3.23366
631950.63	4175300.50	4.88040	631950.63	4175400.50	6.40060
631950.63	4175500.50	6.22243	631950.63	4175600.50	4.46419
631950.63	4175700.50	2.85545	631950.63	4175800.50	1.95205
631950.63	4175900.50	1.46769	631950.63	4176000.50	1.16276
631950.63	4176100.50	0.94093	632050.63	4175100.50	1.89759
632050.63	4175200.50	2.70948	632050.63	4175300.50	3.79053
632050.63	4175400.50	4.64298	632050.63	4175500.50	4.52535
632050.63	4175600.50	3.49919	632050.63	4175700.50	2.41301
632050.63	4175800.50	1.69117	632050.63	4175900.50	1.28147
632050.63	4176000.50	1.02981	632050.63	4176100.50	0.84910

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
632121.21	4174952.36	3.05637	632304.44	4174354.52	0.42119
632192.15	4174956.32	2.73879	632420.62	4175510.15	1.94627
632418.97	4175552.92	1.70175	631187.00	4175727.00	0.94791
631166.00	4175729.00	0.89503	631121.00	4175719.00	0.79618
631035.00	4174830.00	0.25510	631106.00	4174825.00	0.28230
631937.00	4174528.00	0.52356	631322.00	4174522.00	0.15840
629800.63	4173850.44	0.02272	630150.63	4173850.44	0.02565
630500.63	4173850.44	0.03099	630850.63	4173850.44	0.05050
631200.63	4173850.44	0.05179	631550.63	4173850.44	0.07086
631900.63	4173850.44	0.08420	632250.63	4173850.44	0.13397
632600.63	4173850.44	0.17603	632950.63	4173850.44	0.19398
633300.63	4173850.44	0.16976	629800.63	4174200.44	0.03280
630150.63	4174200.44	0.04249	630500.63	4174200.44	0.06101
630850.63	4174200.44	0.07033	631200.63	4174200.44	0.08654
631550.63	4174200.44	0.13361	631900.63	4174200.44	0.20575
632250.63	4174200.44	0.27210	632600.63	4174200.44	0.32707
632950.63	4174200.44	0.27816	633300.63	4174200.44	0.25117
629800.63	4174550.44	0.05678	630150.63	4174550.44	0.06834
630500.63	4174550.44	0.09649	630850.63	4174550.44	0.12619
631200.63	4174550.44	0.18770	631550.63	4174550.44	0.27172
631900.63	4174550.44	0.53927	632250.63	4174550.44	0.71201
632600.63	4174550.44	0.56860	632950.63	4174550.44	0.48600
633300.63	4174550.44	0.41465	629800.63	4174900.44	0.05940
630150.63	4174900.44	0.07735	630500.63	4174900.44	0.13135
630850.63	4174900.44	0.21962	631200.63	4174900.44	0.39907
631550.63	4174900.44	1.05901	631900.63	4174900.44	2.88613
632250.63	4174900.44	2.03113	632600.63	4174900.44	1.34266
632950.63	4174900.44	0.94765	633300.63	4174900.44	0.69475
629800.63	4175250.44	0.06539	630150.63	4175250.44	0.09902
630500.63	4175250.44	0.16274	630850.63	4175250.44	0.28933
631200.63	4175250.44	0.77155	631550.63	4175250.44	6.70512
631900.63	4175250.44	39.59587	632250.63	4175250.44	5.58365
632600.63	4175250.44	2.32559	632950.63	4175250.44	1.31859
633300.63	4175250.44	0.86590	629800.63	4175600.44	0.08008
630150.63	4175600.44	0.11265	630500.63	4175600.44	0.17900
630850.63	4175600.44	0.35269	631200.63	4175600.44	1.02765
631550.63	4175600.44	3.31990	631900.63	4175600.44	3.23006
632250.63	4175600.44	1.81745	632600.63	4175600.44	1.19985
632950.63	4175600.44	0.84667	633300.63	4175600.44	0.63362
629800.63	4175950.44	0.09019	630150.63	4175950.44	0.13195

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
630500.63	4175950.44	0.22453	630850.63	4175950.44	0.41727
631200.63	4175950.44	0.77684	631550.63	4175950.44	1.13473
631900.63	4175950.44	1.06436	632250.63	4175950.44	0.82404
632600.63	4175950.44	0.59487	632950.63	4175950.44	0.45985
633300.63	4175950.44	0.37850	629800.63	4176300.44	0.10482
630150.63	4176300.44	0.15034	630500.63	4176300.44	0.23357
630850.63	4176300.44	0.35581	631200.63	4176300.44	0.48567
631550.63	4176300.44	0.57460	631900.63	4176300.44	0.54869
632250.63	4176300.44	0.45375	632600.63	4176300.44	0.38596
632950.63	4176300.44	0.31097	633300.63	4176300.44	0.25104
629800.63	4176650.44	0.10724	630150.63	4176650.44	0.15293
630500.63	4176650.44	0.20988	630850.63	4176650.44	0.26950
631200.63	4176650.44	0.31857	631550.63	4176650.44	0.34951
631900.63	4176650.44	0.34206	632250.63	4176650.44	0.29387
632600.63	4176650.44	0.27145	632950.63	4176650.44	0.22780
633300.63	4176650.44	0.19609	629800.63	4177000.44	0.10962
630150.63	4177000.44	0.14101	630500.63	4177000.44	0.17305
630850.63	4177000.44	0.20489	631200.63	4177000.44	0.23006
631550.63	4177000.44	0.23911	631900.63	4177000.44	0.23542
632250.63	4177000.44	0.21539	632600.63	4177000.44	0.18908
632950.63	4177000.44	0.18039	633300.63	4177000.44	0.15353
629800.63	4177350.44	0.10295	630150.63	4177350.44	0.12207
630500.63	4177350.44	0.14029	630850.63	4177350.44	0.15718
631200.63	4177350.44	0.17527	631550.63	4177350.44	0.17419
631900.63	4177350.44	0.17394	632250.63	4177350.44	0.16450
632600.63	4177350.44	0.14261	632950.63	4177350.44	0.13901
633300.63	4177350.44	0.12829	631670.70	4175493.59	7.61997
631669.80	4175641.41	3.26000	631665.32	4175796.39	1.79650
631417.17	4175826.85	1.33658	631417.17	4175673.66	1.90066
631422.55	4175484.63	2.68176	631268.42	4175983.74	0.81431
631275.69	4175523.99	1.35055	631345.65	4175419.50	1.79531
631384.72	4175441.30	2.21902	631491.93	4175442.21	4.18982
631491.93	4175414.95	4.32900	631385.63	4175413.14	2.20427
631358.37	4175395.87	1.89142	631409.25	4175336.81	2.41541
631567.35	4175235.96	7.76196	631756.33	4175028.80	5.68060
631807.22	4175003.36	5.23913	631867.18	4174987.91	5.07764
631849.92	4175988.28	1.01393	631268.74	4175963.75	0.84038
631269.05	4175943.76	0.86756	631269.37	4175923.77	0.89559
631269.68	4175903.78	0.92443	631270.00	4175883.79	0.95396
631270.32	4175863.81	0.98401	631270.63	4175843.82	1.01430

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631270.95	4175823.83	1.04513	631271.26	4175803.84	1.07626
631271.58	4175783.85	1.10761	631271.90	4175763.86	1.13804
631272.21	4175743.87	1.16730	631272.53	4175723.88	1.19570
631272.85	4175703.89	1.22254	631273.16	4175683.90	1.24745
631273.48	4175663.91	1.27023	631273.79	4175643.92	1.29088
631274.11	4175623.94	1.30930	631274.43	4175603.95	1.32408
631274.74	4175583.96	1.33521	631275.06	4175563.97	1.34228
631275.37	4175543.98	1.34792	631285.68	4175509.06	1.40548
631295.68	4175494.14	1.46183	631305.67	4175479.21	1.52204
631315.67	4175464.28	1.58546	631325.66	4175449.35	1.65137
631335.66	4175434.43	1.72284	631358.67	4175426.77	1.92205
631371.70	4175434.03	2.06275	631402.59	4175441.45	2.44961
631420.46	4175441.60	2.71160	631438.33	4175441.76	3.01043
631456.19	4175441.91	3.35218	631474.06	4175442.06	3.74335
631491.93	4175428.58	4.26683	631474.21	4175414.65	3.83093
631456.50	4175414.35	3.40430	631438.78	4175414.05	3.03752
631421.06	4175413.74	2.71947	631403.35	4175413.44	2.44389
631372.00	4175404.51	2.04105	631371.09	4175381.11	2.00426
631383.81	4175366.34	2.12898	631396.53	4175351.58	2.26546
631425.06	4175326.73	2.64158	631440.87	4175316.64	2.90770
631456.68	4175306.56	3.20935	631472.49	4175296.47	3.56535
631488.30	4175286.39	3.99311	631504.11	4175276.30	4.48807
631519.92	4175266.22	5.08431	631535.73	4175256.13	5.82006
631551.54	4175246.05	6.68897	631579.95	4175222.15	8.58504
631592.55	4175208.34	9.37207	631605.15	4175194.53	10.16969
631617.74	4175180.72	10.76375	631630.34	4175166.91	11.28211
631642.94	4175153.10	11.27665	631655.54	4175139.29	11.06927
631668.14	4175125.47	10.45508	631680.74	4175111.66	9.76084
631693.34	4175097.85	8.96779	631705.94	4175084.04	8.20633
631718.53	4175070.23	7.47441	631731.13	4175056.42	6.80934
631743.73	4175042.61	6.21802	631773.29	4175020.32	5.56053
631790.26	4175011.84	5.41591	631822.21	4174999.50	5.23552
631837.20	4174995.64	5.20788	631852.19	4174991.77	5.15495
631866.84	4175007.53	5.92838	631866.50	4175027.14	7.01008
631866.16	4175046.76	8.38462	631865.83	4175066.37	10.12964
631865.49	4175085.99	12.40448	631865.15	4175105.60	15.45871
631864.81	4175125.22	19.57739	631864.47	4175144.83	25.14026
631864.13	4175164.45	32.31790	631863.80	4175184.06	40.80909
631863.46	4175203.68	49.72674	631863.12	4175223.29	57.42596
631862.78	4175242.91	62.01841	631862.44	4175262.52	62.11368

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631862.10	4175282.14	57.42061	631861.77	4175301.75	49.25993
631861.43	4175321.37	39.71890	631861.09	4175340.98	30.77586
631860.75	4175360.60	23.48210	631860.41	4175380.21	18.05044
631860.07	4175399.83	14.18341	631859.73	4175419.44	11.46724
631859.40	4175439.06	9.52365	631859.06	4175458.67	8.08567
631858.72	4175478.29	6.98049	631858.38	4175497.90	6.10555
631858.04	4175517.52	5.39342	631857.70	4175537.13	4.80478
631857.37	4175556.75	4.31122	631857.03	4175576.36	3.89324
631856.69	4175595.98	3.53607	631856.35	4175615.59	3.22848
631856.01	4175635.21	2.96142	631855.67	4175654.82	2.72869
631855.33	4175674.44	2.52416	631855.00	4175694.05	2.34311
631854.66	4175713.67	2.18233	631854.32	4175733.28	2.03863
631853.98	4175752.90	1.90942	631853.64	4175772.51	1.79308
631853.30	4175792.13	1.68776	631852.97	4175811.74	1.59234
631852.63	4175831.36	1.50512	631852.29	4175850.97	1.42530
631851.95	4175870.59	1.35154	631851.61	4175890.20	1.28368
631851.27	4175909.82	1.22101	631850.94	4175929.43	1.16331
631850.60	4175949.05	1.11002	631850.26	4175968.66	1.06085
631830.54	4175988.13	1.02446	631811.15	4175987.98	1.03283
631791.77	4175987.83	1.03991	631772.39	4175987.67	1.04487
631753.00	4175987.52	1.04847	631733.62	4175987.37	1.05110
631714.24	4175987.22	1.05329	631694.85	4175987.07	1.05525
631675.47	4175986.92	1.05748	631656.09	4175986.77	1.05967
631636.70	4175986.62	1.06136	631617.32	4175986.46	1.06178
631597.94	4175986.31	1.06033	631578.55	4175986.16	1.05659
631559.17	4175986.01	1.05020	631539.79	4175985.86	1.04131
631520.40	4175985.71	1.03019	631501.02	4175985.56	1.01739
631481.64	4175985.40	1.00339	631462.25	4175985.25	0.98854
631442.87	4175985.10	0.97324	631423.49	4175984.95	0.95756
631404.10	4175984.80	0.94152	631384.72	4175984.65	0.92504
631365.34	4175984.50	0.90802	631345.95	4175984.35	0.89035
631326.57	4175984.19	0.87212	631307.19	4175984.04	0.85330
631287.80	4175983.89	0.83399	631050.63	4175100.50	0.40964
631050.63	4175200.50	0.45525	631050.63	4175300.50	0.48381
631050.63	4175400.50	0.51525	631050.63	4175500.50	0.56063
631050.63	4175600.50	0.62248	631050.63	4175700.50	0.63660
631050.63	4175800.50	0.65095	631050.63	4175900.50	0.62569
631050.63	4176000.50	0.58311	631050.63	4176100.50	0.53191
631150.63	4175100.50	0.53448	631150.63	4175200.50	0.61617
631150.63	4175300.50	0.67867	631150.63	4175400.50	0.73197

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631150.63	4175500.50	0.80093	631150.63	4175600.50	0.87555
631150.63	4175700.50	0.86744	631150.63	4175800.50	0.82624
631150.63	4175900.50	0.75771	631150.63	4176000.50	0.67817
631150.63	4176100.50	0.59974	631250.63	4175100.50	0.73122
631250.63	4175200.50	0.87117	631250.63	4175300.50	0.98141
631250.63	4175400.50	1.16046	631250.63	4175500.50	1.21787
631250.63	4175600.50	1.21791	631250.63	4175700.50	1.15180
631250.63	4175800.50	1.03460	631250.63	4175900.50	0.90120
631250.63	4176000.50	0.77604	631250.63	4176100.50	0.66752
631350.63	4175100.50	1.05855	631350.63	4175200.50	1.33734
631350.63	4175300.50	1.70212	631350.63	4175400.50	1.82201
631350.63	4175500.50	1.86735	631350.63	4175600.50	1.74804
631350.63	4175700.50	1.51732	631350.63	4175800.50	1.26580
631350.63	4175900.50	1.04620	631350.63	4176000.50	0.86883
631350.63	4176100.50	0.72801	631450.63	4175100.50	1.66111
631450.63	4175200.50	2.34097	631450.63	4175300.50	3.05512
631450.63	4175400.50	3.27733	631450.63	4175500.50	3.03973
631450.63	4175600.50	2.48296	631450.63	4175700.50	1.92643
631450.63	4175800.50	1.49239	631450.63	4175900.50	1.17636
631450.63	4176000.50	0.94939	631450.63	4176100.50	0.78378
631550.63	4175100.50	2.98895	631550.63	4175200.50	5.64362
631550.63	4175300.50	7.36533	631550.63	4175400.50	6.90255
631550.63	4175500.50	4.93922	631550.63	4175600.50	3.31913
631550.63	4175700.50	2.30329	631550.63	4175800.50	1.67987
631550.63	4175900.50	1.28117	631550.63	4176000.50	1.01367
631550.63	4176100.50	0.82250	631650.63	4175100.50	6.69915
631650.63	4175200.50	23.65093	631650.63	4175300.50	0.00000
631650.63	4175400.50	15.20444	631650.63	4175500.50	6.99226
631650.63	4175600.50	3.92235	631650.63	4175700.50	2.52181
631650.63	4175800.50	1.77047	631650.63	4175900.50	1.31870
631650.63	4176000.50	1.02679	631650.63	4176100.50	0.82316
631750.63	4175100.50	13.69219	631750.63	4175200.50	0.00000
631750.63	4175300.50	0.00000	631750.63	4175400.50	21.10977
631750.63	4175500.50	7.35858	631750.63	4175600.50	3.94714
631750.63	4175700.50	2.50871	631750.63	4175800.50	1.75404
631750.63	4175900.50	1.30584	631750.63	4176000.50	1.01734
631750.63	4176100.50	0.81619	631850.63	4175100.50	15.03329
631850.63	4175200.50	55.73509	631850.63	4175300.50	57.72131
631850.63	4175400.50	14.67835	631850.63	4175500.50	6.11273

631850.63 4175600.50 3.49474 631850.63 4175700.50 2.30081

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
631850.63	4175800.50	1.64994	631850.63	4175900.50	1.25093
631850.63	4176000.50	0.98570	631850.63	4176100.50	0.79605
631950.63	4175100.50	11.00795	631950.63	4175200.50	22.35654
631950.63	4175300.50	21.55655	631950.63	4175400.50	9.72759
631950.63	4175500.50	4.82428	631950.63	4175600.50	2.99401
631950.63	4175700.50	2.03776	631950.63	4175800.50	1.48356
631950.63	4175900.50	1.14161	631950.63	4176000.50	0.91447
631950.63	4176100.50	0.74880	632050.63	4175100.50	7.68909
632050.63	4175200.50	12.17694	632050.63	4175300.50	11.76318
632050.63	4175400.50	6.88536	632050.63	4175500.50	3.83083
632050.63	4175600.50	2.52537	632050.63	4175700.50	1.82287
632050.63	4175800.50	1.36460	632050.63	4175900.50	1.05240
632050.63	4176000.50	0.84088	632050.63	4176100.50	0.69187

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
632121.21	4174952.36	92.50992 (05011520)	632304.44	4174354.52	79.27878 (05020818)
632192.15	4174956.32	69.95475 (04022018)	632420.62	4175510.15	83.97985 (04022222)
632418.97	4175552.92	85.26765 (04022220)	631187.00	4175727.00	460.86049 (04011017)
631166.00	4175729.00	425.74906 (04011017)	631121.00	4175719.00	365.01260 (05022818)
631035.00	4174830.00	113.49795 (06121017)	631106.00	4174825.00	123.27809 (08022002)
631937.00	4174528.00	96.16659 (06020105)	631322.00	4174522.00	59.44543 (05010417)
629800.63	4173850.44	22.52892 (08121017)	630150.63	4173850.44	25.88485 (07122718)
630500.63	4173850.44	31.51890 (04022923)	630850.63	4173850.44	40.09616 (07111022)

631200.63	4173850.44	26.99984	(04030818)	631550.63	4173850.44	52.26885	(04122823)
631900.63	4173850.44	38.62920	(05112422)	632250.63	4173850.44	56.46735	(06020105)
632600.63	4173850.44	57.98589	(05020818)	632950.63	4173850.44	50.08931	(05011520)
633300.63	4173850.44	38.52954	(04022018)	629800.63	4174200.44	34.46618	(06041020)
630150.63	4174200.44	40.14917	(08121017)	630500.63	4174200.44	57.29810	(05012117)
630850.63	4174200.44	57.05958	(06102817)	631200.63	4174200.44	48.60442	(05050803)
631550.63	4174200.44	70.85061	(04122823)	631900.63	4174200.44	86.13995	(07011417)
632250.63	4174200.44	68.47059	(04122822)	632600.63	4174200.44	66.41260	(05011521)
632950.63	4174200.44	54.47557	(04022018)	633300.63	4174200.44	33.17557	(07012702)
629800.63	4174550.44	49.53130	(06121421)	630150.63	4174550.44	62.91276	(04012317)
630500.63	4174550.44	85.87510	(06011109)	630850.63	4174550.44	85.15558	(05042119)
631200.63	4174550.44	104.51606	(06121420)	631550.63	4174550.44	106.61035	(07012317)
631900.63	4174550.44	92.41144	(06020105)	632250.63	4174550.44	73.50154	(05020818)
632600.63	4174550.44	73.50386	(04022018)	632950.63	4174550.44	39.99862	(07012702)
633300.63	4174550.44	31.07222	(06011617)	629800.63	4174900.44	63.47432	(06120217)
630150.63	4174900.44	66.88518	(04101819)	630500.63	4174900.44	90.33636	(04012317)
630850.63	4174900.44	143.89920	(05012117)	631200.63	4174900.44	145.95179	(08022002)
631550.63	4174900.44	160.33954	(07012317)	631900.63	4174900.44	111.19978	(04122822)
632250.63	4174900.44	84.75606	(04022018)	632600.63	4174900.44	52.74360	(06011617)
632950.63	4174900.44	40.20774	(04021501)	633300.63	4174900.44	35.07314	(04022221)
629800.63	4175250.44	90.67775	(06020109)	630150.63	4175250.44	87.97028	(06121217)
630500.63	4175250.44	127.21741	(07020624)	630850.63	4175250.44	144.39129	(06011022)
631200.63	4175250.44	208.80731	(06121017)	631550.63	4175250.44	212.46602	(07011417)
631900.63	4175250.44	123.80496	(05122304)	632250.63	4175250.44	94.16679	(06011617)
632600.63	4175250.44	64.20254	(04022221)	632950.63	4175250.44	43.85864	(04022222)
633300.63	4175250.44	42.87245	(06100508)	629800.63	4175600.44	74.98447	(08012221)
630150.63	4175600.44	91.77847	(08012221)	630500.63	4175600.44	200.73941	(06020109)
630850.63	4175600.44	238.20694	(06121217)	631200.63	4175600.44	423.58039	(07011517)
631550.63	4175600.44	363.71804	(05020818)	631900.63	4175600.44	183.70611	(04022221)
632250.63	4175600.44	106.12923	(04022220)	632600.63	4175600.44	71.74928	(06100508)
632950.63	4175600.44	50.91719	(08011020)	633300.63	4175600.44	39.05742	(05122420)
629800.63	4175950.44	79.30863	(05122618)	630150.63	4175950.44	100.20661	(05122618)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	121.63776	(07020701)	630850.63	4175950.44	178.29775	(06011024)
631200.63	4175950.44	505.17198	(07120622)	631550.63	4175950.44	664.56909	(08021808)
631900.63	4175950.44	207.86508	(06011620)	632250.63	4175950.44	112.57323	(07011318)
632600.63	4175950.44	74.72021	(06121322)	632950.63	4175950.44	51.84140	(06121322)
633300.63	4175950.44	37.06233	(07011518)	629800.63	4176300.44	58.46976	(05030324)
630150.63	4176300.44	78.13500	(07120621)	630500.63	4176300.44	88.34366	(05021923)

630850.63	4176300.44	140.50906	(07120403)	631200.63	4176300.44	245.58000	(07122907)
631550.63	4176300.44	245.90223	(08121403)	631900.63	4176300.44	169.12759	(08021908)
632250.63	4176300.44	97.55772	(08121019)	632600.63	4176300.44	67.35780	(07010308)
632950.63	4176300.44	50.85566	(05010918)	633300.63	4176300.44	38.77458	(06020208)
629800.63	4176650.44	53.26238	(05021923)	630150.63	4176650.44	54.56888	(06022523)
630500.63	4176650.44	74.11566	(05022704)	630850.63	4176650.44	96.07197	(05022705)
631200.63	4176650.44	142.56702	(08011009)	631550.63	4176650.44	133.20350	(06021702)
631900.63	4176650.44	107.94378	(04121823)	632250.63	4176650.44	88.02410	(08021908)
632600.63	4176650.44	63.07055	(04120904)	632950.63	4176650.44	52.18798	(08031008)
633300.63	4176650.44	36.29824	(06012821)	629800.63	4177000.44	35.86524	(06022523)
630150.63	4177000.44	46.51164	(05022704)	630500.63	4177000.44	56.93621	(04020618)
630850.63	4177000.44	78.61231	(05122622)	631200.63	4177000.44	84.65988	(07122906)
631550.63	4177000.44	86.09170	(07121904)	631900.63	4177000.44	75.27145	(08121602)
632250.63	4177000.44	63.84545	(07010324)	632600.63	4177000.44	55.01709	(08021908)
632950.63	4177000.44	44.13622	(08021808)	633300.63	4177000.44	36.72389	(08031008)
629800.63	4177350.44	32.91474	(04120901)	630150.63	4177350.44	38.76455	(06021721)
630500.63	4177350.44	47.07547	(05011001)	630850.63	4177350.44	56.82579	(06020123)
631200.63	4177350.44	58.07618	(06012804)	631550.63	4177350.44	61.66139	(05022220)
631900.63	4177350.44	77.27611	(07091007)	632250.63	4177350.44	50.00172	(07121907)
632600.63	4177350.44	45.18941	(07022408)	632950.63	4177350.44	38.09113	(08021908)
633300.63	4177350.44	31.65487	(04011022)	631670.70	4175493.59	232.51688	(05021802)
631669.80	4175641.41	347.90333	(06011617)	631665.32	4175796.39	387.76876	(08011001)
631417.17	4175826.85	0.00000	(00000000)	631417.17	4175673.66	694.70431	(07012317)
631422.55	4175484.63	330.67978	(07012317)	631268.42	4175983.74	631.41804	(04120903)
631275.69	4175523.99	362.18148	(06121017)	631345.65	4175419.50	300.79784	(06121420)
631384.72	4175441.30	262.77743	(05010417)	631491.93	4175442.21	259.00100	(07011417)
631491.93	4175414.95	239.25323	(07012317)	631385.63	4175413.14	286.64196	(05021805)
631358.37	4175395.87	278.86759	(05122422)	631409.25	4175336.81	255.74782	(05021805)
631567.35	4175235.96	217.19299	(07011417)	631756.33	4175028.80	132.60485	(06020105)
631807.22	4175003.36	119.24126	(05021803)	631867.18	4174987.91	120.04432	(04122822)
631849.92	4175988.28	227.88330	(05010918)	631268.74	4175963.75	685.76955	(04021521)
631269.05	4175943.76	740.04575	(04021520)	631269.37	4175923.77	784.59782	(06122121)
631269.68	4175903.78	826.65508	(07120622)	631270.00	4175883.79	863.37888	(06011024)
631270.32	4175863.81	906.96602	(04121304)	631270.63	4175843.82	926.43913	(04121304)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	908.19442	(04022207)	631271.26	4175803.84	865.39803	(06121217)
631271.58	4175783.85	798.46062	(04011017)	631271.90	4175763.86	712.09932	(04011017)
631272.21	4175743.87	635.99620	(06121421)	631272.53	4175723.88	590.59783	(05012117)
631272.85	4175703.89	605.38699	(05012117)	631273.16	4175683.90	602.44250	(05012117)

631273.48	4175663.91	583.68888	(05012117)	631273.79	4175643.92	553.15885	(05012117)
631274.11	4175623.94	513.65810	(05012117)	631274.43	4175603.95	465.55908	(05012117)
631274.74	4175583.96	476.81695	(05012117)	631275.06	4175563.97	425.35994	(06011021)
631275.37	4175543.98	383.03996	(06011021)	631285.68	4175509.06	366.01353	(08022002)
631295.68	4175494.14	374.24649	(08022002)	631305.67	4175479.21	364.69825	(08022002)
631315.67	4175464.28	348.34967	(06121420)	631325.66	4175449.35	342.88652	(06121420)
631335.66	4175434.43	323.09957	(06121420)	631358.67	4175426.77	300.21055	(05122422)
631371.70	4175434.03	293.53292	(05010417)	631402.59	4175441.45	256.63491	(05021805)
631420.46	4175441.60	284.33322	(07012317)	631438.33	4175441.76	300.87983	(07012317)
631456.19	4175441.91	299.22692	(07012317)	631474.06	4175442.06	279.94615	(07012317)
631491.93	4175428.58	244.86160	(07011417)	631474.21	4175414.65	266.31938	(07012317)
631456.50	4175414.35	280.19232	(07012317)	631438.78	4175414.05	278.29647	(07012317)
631421.06	4175413.74	260.45238	(07012317)	631403.35	4175413.44	293.63181	(05021805)
631372.00	4175404.51	274.66165	(05010417)	631371.09	4175381.11	261.04747	(05010417)
631383.81	4175366.34	250.57365	(05021805)	631396.53	4175351.58	256.38656	(05021805)
631425.06	4175326.73	252.19891	(07012317)	631440.87	4175316.64	266.21355	(07012317)
631456.68	4175306.56	274.08156	(07012317)	631472.49	4175296.47	269.93103	(07012317)
631488.30	4175286.39	253.44617	(07012317)	631504.11	4175276.30	233.67360	(07012317)
631519.92	4175266.22	218.25156	(07020623)	631535.73	4175256.13	210.34989	(04122824)
631551.54	4175246.05	210.93200	(07011417)	631579.95	4175222.15	214.26996	(07011417)
631592.55	4175208.34	213.11918	(07011417)	631605.15	4175194.53	204.93566	(07011417)
631617.74	4175180.72	201.00129	(07011417)	631630.34	4175166.91	189.43733	(07011417)
631642.94	4175153.10	183.83459	(07011417)	631655.54	4175139.29	171.75390	(07011417)
631668.14	4175125.47	163.65937	(07011417)	631680.74	4175111.66	153.12800	(04022218)
631693.34	4175097.85	149.36860	(06020105)	631705.94	4175084.04	146.18124	(06020105)
631718.53	4175070.23	143.42504	(06020105)	631731.13	4175056.42	140.02651	(06020105)
631743.73	4175042.61	135.62796	(06020105)	631773.29	4175020.32	125.92221	(06020105)
631790.26	4175011.84	119.34821	(04022318)	631822.21	4174999.50	119.62274	(05021803)
631837.20	4174995.64	121.68154	(04122822)	631852.19	4174991.77	121.81153	(04122822)
631866.84	4175007.53	125.43518	(04122822)	631866.50	4175027.14	123.32152	(04122822)
631866.16	4175046.76	99.85644	(05122303)	631865.83	4175066.37	102.56108	(05122303)
631865.49	4175085.99	104.29518	(05122303)	631865.15	4175105.60	104.94613	(05122303)
631864.81	4175125.22	104.46613	(05122303)	631864.47	4175144.83	109.06335	(06020318)
631864.13	4175164.45	113.43082	(06020318)	631863.80	4175184.06	116.50981	(06020318)
631863.46	4175203.68	120.06963	(05021802)	631863.12	4175223.29	124.37353	(05021802)
631862.78	4175242.91	126.85539	(05021802)	631862.44	4175262.52	129.49376	(07020622)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	133.42312	(05122304)	631861.77	4175301.75	136.83208	(05122304)
631861.43	4175321.37	137.54904	(05122304)	631861.09	4175340.98	143.45220	(04022018)

631860.75	4175360.60	147.07893	(04022018)	631860.41	4175380.21	147.91008	(04022018)
631860.07	4175399.83	149.06404	(07012702)	631859.73	4175419.44	158.03877	(07012702)
631859.40	4175439.06	162.72437	(07012702)	631859.06	4175458.67	162.78839	(06011617)
631858.72	4175478.29	179.61635	(06011617)	631858.38	4175497.90	192.34881	(06011617)
631858.04	4175517.52	199.51204	(06011617)	631857.70	4175537.13	200.04267	(06011617)
631857.37	4175556.75	193.49351	(06011617)	631857.03	4175576.36	189.99588	(06012018)
631856.69	4175595.98	199.23756	(06012018)	631856.35	4175615.59	202.22867	(08022005)
631856.01	4175635.21	206.06793	(04022221)	631855.67	4175654.82	205.60471	(06022418)
631855.33	4175674.44	206.79934	(07010217)	631855.00	4175694.05	221.76685	(07010217)
631854.66	4175713.67	225.48346	(07010217)	631854.32	4175733.28	221.71967	(04010924)
631853.98	4175752.90	223.24557	(05011606)	631853.64	4175772.51	225.33563	(06121504)
631853.30	4175792.13	225.47029	(05122420)	631852.97	4175811.74	227.59540	(05020819)
631852.63	4175831.36	228.51311	(07021102)	631852.29	4175850.97	228.49852	(06012822)
631851.95	4175870.59	229.74932	(06011619)	631851.61	4175890.20	236.89643	(06121322)
631851.27	4175909.82	233.85040	(07021221)	631850.94	4175929.43	234.89257	(04121118)
631850.60	4175949.05	232.92407	(06020205)	631850.26	4175968.66	230.23589	(06020208)
631830.54	4175988.13	237.81221	(06012919)	631811.15	4175987.98	248.59080	(06012919)
631791.77	4175987.83	259.46967	(05121218)	631772.39	4175987.67	273.23140	(05121218)
631753.00	4175987.52	285.75225	(05121218)	631733.62	4175987.37	301.01880	(07010308)
631714.24	4175987.22	316.38573	(05122323)	631694.85	4175987.07	333.97943	(06012821)
631675.47	4175986.92	352.83866	(06122321)	631656.09	4175986.77	373.06601	(08121018)
631636.70	4175986.62	407.37266	(05011818)	631617.32	4175986.46	455.34415	(08021808)
631597.94	4175986.31	518.99427	(08021808)	631578.55	4175986.16	575.12998	(08021808)
631559.17	4175986.01	617.18051	(08021808)	631539.79	4175985.86	665.64505	(08021908)
631520.40	4175985.71	718.18743	(08021908)	631501.02	4175985.56	761.60799	(07022408)
631481.64	4175985.40	808.63424	(07022408)	631462.25	4175985.25	796.80781	(07022408)
631442.87	4175985.10	827.28088	(06013004)	631423.49	4175984.95	865.59057	(05021302)
631404.10	4175984.80	900.04014	(06020918)	631384.72	4175984.65	898.63025	(07121903)
631365.34	4175984.50	979.80122	(08011009)	631345.95	4175984.35	948.42260	(08011009)
631326.57	4175984.19	822.14626	(07021218)	631307.19	4175984.04	764.65935	(07021218)
631287.80	4175983.89	685.03223	(04120908)	631050.63	4175100.50	182.91220	(06011021)
631050.63	4175200.50	230.16387	(05012117)	631050.63	4175300.50	229.82398	(05012117)
631050.63	4175400.50	247.09896	(07121217)	631050.63	4175500.50	232.32853	(06011022)
631050.63	4175600.50	291.09299	(06121421)	631050.63	4175700.50	373.88520	(06121217)
631050.63	4175800.50	358.19242	(08012221)	631050.63	4175900.50	303.82055	(07020701)
631050.63	4176000.50	285.50323	(07120622)	631050.63	4176100.50	253.82559	(04021520)
631150.63	4175100.50	167.99337	(06121017)	631150.63	4175200.50	188.46564	(05010318)
631150.63	4175300.50	238.13947	(06011021)	631150.63	4175400.50	322.77849	(05012117)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

631150.63	4175500.50	339.69481	(07011517)	631150.63	4175600.50	319.94195	(06011022)
631150.63	4175700.50	383.99916	(04011017)	631150.63	4175800.50	465.87951	(04022207)
631150.63	4175900.50	446.86769	(06011024)	631150.63	4176000.50	391.32652	(06122121)
631150.63	4176100.50	317.05676	(05122923)	631250.63	4175100.50	193.09451	(06121420)
631250.63	4175200.50	220.51624	(08022002)	631250.63	4175300.50	252.48217	(08022002)
631250.63	4175400.50	272.32534	(08022002)	631250.63	4175500.50	350.07480	(06011021)
631250.63	4175600.50	537.20798	(05012117)	631250.63	4175700.50	481.56551	(07011517)
631250.63	4175800.50	753.35366	(06121217)	631250.63	4175900.50	719.75842	(07120622)
631250.63	4176000.50	554.78219	(04120903)	631250.63	4176100.50	427.64463	(05011001)
631350.63	4175100.50	169.06749	(05010417)	631350.63	4175200.50	195.73948	(05122422)
631350.63	4175300.50	232.78750	(05122422)	631350.63	4175400.50	284.81476	(05122422)
631350.63	4175500.50	326.46553	(05122422)	631350.63	4175600.50	453.95354	(06121420)
631350.63	4175700.50	723.53280	(08022002)	631350.63	4175800.50	0.00000	(00000000)
631350.63	4175900.50	0.00000	(00000000)	631350.63	4176000.50	883.72146	(08011009)
631350.63	4176100.50	515.25325	(08011009)	631450.63	4175100.50	186.24672	(04122823)
631450.63	4175200.50	220.26472	(07012317)	631450.63	4175300.50	268.31693	(07012317)
631450.63	4175400.50	271.63044	(07012317)	631450.63	4175500.50	350.42058	(07012317)
631450.63	4175600.50	455.24458	(07012317)	631450.63	4175700.50	720.25945	(07011417)
631450.63	4175800.50	0.00000	(00000000)	631450.63	4175900.50	0.00000	(00000000)
631450.63	4176000.50	747.04694	(06013004)	631450.63	4176100.50	477.01010	(05021302)
631550.63	4175100.50	171.73443	(07020623)	631550.63	4175200.50	196.46850	(04122824)
631550.63	4175300.50	240.61374	(07011417)	631550.63	4175400.50	240.27937	(07011417)
631550.63	4175500.50	280.42099	(05010319)	631550.63	4175600.50	363.76666	(05020818)
631550.63	4175700.50	504.09761	(04022018)	631550.63	4175800.50	679.92415	(07010217)
631550.63	4175900.50	663.85504	(05122401)	631550.63	4176000.50	619.58026	(08021908)
631550.63	4176100.50	413.72601	(07022408)	631650.63	4175100.50	180.06900	(07011417)
631650.63	4175200.50	177.50477	(06020105)	631650.63	4175300.50	166.76747	(05021803)
631650.63	4175400.50	198.65972	(05122303)	631650.63	4175500.50	243.06396	(05021802)
631650.63	4175600.50	298.87468	(04022018)	631650.63	4175700.50	376.10592	(06011617)
631650.63	4175800.50	411.39386	(08011001)	631650.63	4175900.50	422.00767	(06121320)
631650.63	4176000.50	389.96073	(07121419)	631650.63	4176100.50	370.17664	(08021908)
631750.63	4175100.50	115.21720	(05021803)	631750.63	4175200.50	130.74075	(05021803)
631750.63	4175300.50	147.41750	(05122303)	631750.63	4175400.50	177.76578	(07020622)
631750.63	4175500.50	204.19481	(04022018)	631750.63	4175600.50	271.90082	(06011617)
631750.63	4175700.50	273.39186	(05021801)	631750.63	4175800.50	296.31100	(08011020)
631750.63	4175900.50	305.43287	(07021221)	631750.63	4176000.50	283.84577	(05122323)
631750.63	4176100.50	286.49445	(08021808)	631850.63	4175100.50	107.80064	(05122303)
631850.63	4175200.50	120.33654	(06020318)	631850.63	4175300.50	138.42436	(05122304)
631850.63	4175400.50	150.96291	(04022018)	631850.63	4175500.50	194.46184	(06011617)
631850.63	4175600.50	202.48944	(06012018)	631850.63	4175700.50	226.35945	(07010217)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

631850.63	4175800.50	228.43652	(05122420)	631850.63	4175900.50	237.41812	(06121322)
631850.63	4176000.50	225.10423	(06012919)	631850.63	4176100.50	203.36575	(04121104)
631950.63	4175100.50	100.03729	(05021802)	631950.63	4175200.50	111.12905	(05122304)
631950.63	4175300.50	118.50676	(07122717)	631950.63	4175400.50	140.59480	(06011617)
631950.63	4175500.50	151.36505	(06011617)	631950.63	4175600.50	165.18483	(04022221)
631950.63	4175700.50	178.22875	(04022220)	631950.63	4175800.50	183.38258	(07012218)
631950.63	4175900.50	190.57738	(06121322)	631950.63	4176000.50	182.97980	(05011419)
631950.63	4176100.50	168.88899	(06122321)	632050.63	4175100.50	90.53975	(05122304)
632050.63	4175200.50	96.61794	(07122717)	632050.63	4175300.50	106.31365	(07012702)
632050.63	4175400.50	130.91699	(06011617)	632050.63	4175500.50	133.84591	(08022005)
632050.63	4175600.50	136.15778	(04022222)	632050.63	4175700.50	146.67935	(05011606)
632050.63	4175800.50	151.69564	(05020819)	632050.63	4175900.50	155.84263	(06121322)
632050.63	4176000.50	153.11612	(04021505)	632050.63	4176100.50	143.16154	(07010308)

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*** AERMET - VERSION 18081 *** *** *** 11:24:12

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*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	122.50162	(04022318)	632304.44	4174354.52	85.46275	(06020105)
632192.15	4174956.32	122.58278	(04122822)	632420.62	4175510.15	122.22098	(04022221)
632418.97	4175552.92	120.84556	(06022418)	631187.00	4175727.00	271.12107	(04022207)
631166.00	4175729.00	255.44324	(04022207)	631121.00	4175719.00	231.44560	(04022207)
631035.00	4174830.00	127.29240	(06011109)	631106.00	4174825.00	122.62712	(05012117)
631937.00	4174528.00	99.80490	(05121017)	631322.00	4174522.00	59.03213	(07100818)
629800.63	4173850.44	22.88495	(06041020)	630150.63	4173850.44	21.20741	(08121017)
630500.63	4173850.44	28.91763	(07122718)	630850.63	4173850.44	41.64379	(04022923)
631200.63	4173850.44	35.11316	(07100818)	631550.63	4173850.44	37.12729	(05010417)
631900.63	4173850.44	39.29675	(04102623)	632250.63	4173850.44	53.76042	(05021804)
632600.63	4173850.44	56.49406	(04022318)	632950.63	4173850.44	52.90052	(05020818)
633300.63	4173850.44	44.97468	(05011520)	629800.63	4174200.44	30.40775	(04041824)
630150.63	4174200.44	34.76759	(06041020)	630500.63	4174200.44	46.34064	(07121217)
630850.63	4174200.44	46.87066	(05030118)	631200.63	4174200.44	41.54185	(07111022)
631550.63	4174200.44	61.39026	(05122422)	631900.63	4174200.44	86.59737	(07012317)
632250.63	4174200.44	82.46327	(07011417)	632600.63	4174200.44	74.40965	(04122822)
632950.63	4174200.44	62.40164	(05011520)	633300.63	4174200.44	48.04139	(06122122)
629800.63	4174550.44	40.19703	(07020624)	630150.63	4174550.44	53.48161	(06121421)
630500.63	4174550.44	69.29881	(04012317)	630850.63	4174550.44	94.01302	(06011109)
631200.63	4174550.44	89.88865	(06102817)	631550.63	4174550.44	82.13249	(05050803)
631900.63	4174550.44	117.96259	(07012317)	632250.63	4174550.44	100.57479	(06020105)
632600.63	4174550.44	84.32648	(05011521)	632950.63	4174550.44	66.65462	(04022018)
633300.63	4174550.44	32.37853	(04010118)	629800.63	4174900.44	46.67902	(07111023)

630150.63	4174900.44	59.31806	(04011017)	630500.63	4174900.44	74.82961	(06121421)
630850.63	4174900.44	94.32616	(04012317)	631200.63	4174900.44	146.20838	(05012117)
631550.63	4174900.44	156.74638	(06121420)	631900.63	4174900.44	142.62272	(07020623)
632250.63	4174900.44	117.12653	(05020818)	632600.63	4174900.44	94.27620	(04022018)
632950.63	4174900.44	54.25666	(06011617)	633300.63	4174900.44	40.35842	(05020801)
629800.63	4175250.44	70.88876	(06020109)	630150.63	4175250.44	88.33297	(06020109)
630500.63	4175250.44	90.39004	(05022818)	630850.63	4175250.44	115.92028	(07020624)
631200.63	4175250.44	163.02697	(07121217)	631550.63	4175250.44	242.31487	(08022002)
631900.63	4175250.44	171.80634	(07011417)	632250.63	4175250.44	116.59958	(04022018)
632600.63	4175250.44	84.36936	(06011617)	632950.63	4175250.44	61.91923	(04022221)
633300.63	4175250.44	44.44013	(04022222)	629800.63	4175600.44	60.39477	(06051906)
630150.63	4175600.44	78.57437	(08012221)	630500.63	4175600.44	99.13991	(04022207)
630850.63	4175600.44	231.95065	(06020109)	631200.63	4175600.44	235.66444	(06120217)
631550.63	4175600.44	461.90800	(05012117)	631900.63	4175600.44	328.98944	(05011520)
632250.63	4175600.44	165.72719	(04022221)	632600.63	4175600.44	100.21121	(04022220)
632950.63	4175600.44	67.59597	(06100508)	633300.63	4175600.44	49.68598	(08011020)
629800.63	4175950.44	69.41990	(05122618)	630150.63	4175950.44	85.07886	(05122618)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	100.99790	(05122618)	630850.63	4175950.44	130.44724	(07020701)
631200.63	4175950.44	201.22315	(06011024)	631550.63	4175950.44	660.81472	(04021520)
631900.63	4175950.44	482.42480	(07122919)	632250.63	4175950.44	188.54599	(06011620)
632600.63	4175950.44	106.76448	(06121322)	632950.63	4175950.44	71.85100	(06121322)
633300.63	4175950.44	49.18744	(06121322)	629800.63	4176300.44	54.80112	(06011024)
630150.63	4176300.44	61.41756	(05030324)	630500.63	4176300.44	80.50928	(07120622)
630850.63	4176300.44	92.93715	(05021923)	631200.63	4176300.44	153.84548	(05022704)
631550.63	4176300.44	268.31522	(08011009)	631900.63	4176300.44	234.73453	(08121602)
632250.63	4176300.44	156.01915	(08021808)	632600.63	4176300.44	92.08091	(04121105)
632950.63	4176300.44	65.82516	(05121218)	633300.63	4176300.44	49.26301	(05011419)
629800.63	4176650.44	55.88679	(07120622)	630150.63	4176650.44	42.92413	(05021923)
630500.63	4176650.44	58.55223	(06022523)	630850.63	4176650.44	76.90368	(04120901)
631200.63	4176650.44	104.08915	(05011001)	631550.63	4176650.44	133.76782	(07122906)
631900.63	4176650.44	146.84857	(07091007)	632250.63	4176650.44	105.56949	(05121624)
632600.63	4176650.44	80.83338	(08021908)	632950.63	4176650.44	61.22594	(08120919)
633300.63	4176650.44	49.95151	(08031008)	629800.63	4177000.44	32.65031	(07013018)
630150.63	4177000.44	38.04055	(07120403)	630500.63	4177000.44	48.51647	(04120901)
630850.63	4177000.44	59.05965	(07121206)	631200.63	4177000.44	79.56380	(07122907)
631550.63	4177000.44	86.29470	(06012804)	631900.63	4177000.44	85.44133	(05121701)
632250.63	4177000.44	75.60335	(06121919)	632600.63	4177000.44	65.93319	(07022408)
632950.63	4177000.44	53.34161	(08021908)	633300.63	4177000.44	43.13142	(08021808)

629800.63	4177350.44	29.06509	(07120403)	630150.63	4177350.44	34.08690	(04120901)
630500.63	4177350.44	38.92162	(05021421)	630850.63	4177350.44	52.99176	(05011001)
631200.63	4177350.44	56.90663	(06020123)	631550.63	4177350.44	61.34648	(05121702)
631900.63	4177350.44	59.99503	(07121904)	632250.63	4177350.44	60.53710	(07091007)
632600.63	4177350.44	49.33663	(08121001)	632950.63	4177350.44	43.20452	(07022408)
633300.63	4177350.44	38.09658	(08021908)	631670.70	4175493.59	318.83120	(05122422)
631669.80	4175641.41	536.81559	(05122422)	631665.32	4175796.39	0.00000	(00000000)
631417.17	4175826.85	410.36657	(04121224)	631417.17	4175673.66	399.57165	(04011017)
631422.55	4175484.63	302.32006	(07011517)	631268.42	4175983.74	226.00316	(07120621)
631275.69	4175523.99	254.37012	(06121421)	631345.65	4175419.50	241.47674	(07121217)
631384.72	4175441.30	267.28714	(07011517)	631491.93	4175442.21	337.50920	(05012117)
631491.93	4175414.95	300.26227	(05012117)	631385.63	4175413.14	278.98895	(07011517)
631358.37	4175395.87	250.80095	(07011517)	631409.25	4175336.81	287.13000	(05012117)
631567.35	4175235.96	229.34817	(08022002)	631756.33	4175028.80	169.26016	(04122823)
631807.22	4175003.36	186.75968	(07012317)	631867.18	4174987.91	154.07312	(05121017)
631849.92	4175988.28	630.96211	(08021908)	631268.74	4175963.75	224.19118	(06011024)
631269.05	4175943.76	238.21224	(06011024)	631269.37	4175923.77	238.43440	(07020701)
631269.68	4175903.78	238.49675	(07020701)	631270.00	4175883.79	241.49665	(05122618)
631270.32	4175863.81	256.45944	(04010517)	631270.63	4175843.82	262.18050	(04010517)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	267.07442	(04121224)	631271.26	4175803.84	258.99222	(04121224)
631271.58	4175783.85	292.59927	(08012221)	631271.90	4175763.86	310.16307	(04022207)
631272.21	4175743.87	323.43451	(04022207)	631272.53	4175723.88	344.73029	(06020109)
631272.85	4175703.89	356.29325	(06020109)	631273.16	4175683.90	339.18705	(06020109)
631273.48	4175663.91	303.88535	(06121217)	631273.79	4175643.92	282.99259	(06121217)
631274.11	4175623.94	286.85836	(06120217)	631274.43	4175603.95	295.39741	(04011017)
631274.74	4175583.96	289.06755	(04011017)	631275.06	4175563.97	267.06463	(04011017)
631275.37	4175543.98	239.20467	(06121421)	631285.68	4175509.06	262.64718	(06121421)
631295.68	4175494.14	256.39332	(06121421)	631305.67	4175479.21	234.41547	(06121421)
631315.67	4175464.28	210.77207	(06011022)	631325.66	4175449.35	214.35550	(06011022)
631335.66	4175434.43	221.92626	(07121217)	631358.67	4175426.77	253.19077	(07121217)
631371.70	4175434.03	262.14896	(07121217)	631402.59	4175441.45	286.60597	(07011517)
631420.46	4175441.60	295.12250	(07011517)	631438.33	4175441.76	314.65192	(05012117)
631456.19	4175441.91	339.40056	(05012117)	631474.06	4175442.06	347.54125	(05012117)
631491.93	4175428.58	319.51511	(05012117)	631474.21	4175414.65	322.22567	(05012117)
631456.50	4175414.35	328.58302	(05012117)	631438.78	4175414.05	319.10339	(05012117)
631421.06	4175413.74	296.20004	(05012117)	631403.35	4175413.44	285.31550	(07011517)
631372.00	4175404.51	265.30983	(07011517)	631371.09	4175381.11	264.22613	(07011517)
631383.81	4175366.34	259.86366	(07011517)	631396.53	4175351.58	278.12046	(05012117)

631425.06	4175326.73	280.00890	(05012117)	631440.87	4175316.64	254.57954	(05012117)
631456.68	4175306.56	242.31858	(06011021)	631472.49	4175296.47	221.83797	(05010318)
631488.30	4175286.39	215.69478	(06121017)	631504.11	4175276.30	219.02159	(06121017)
631519.92	4175266.22	224.76870	(08022002)	631535.73	4175256.13	238.50634	(08022002)
631551.54	4175246.05	240.71584	(08022002)	631579.95	4175222.15	232.04335	(06121420)
631592.55	4175208.34	229.22349	(06121420)	631605.15	4175194.53	216.59392	(06121420)
631617.74	4175180.72	199.69236	(06121420)	631630.34	4175166.91	193.59250	(05122422)
631642.94	4175153.10	185.97152	(05122422)	631655.54	4175139.29	177.47977	(05010417)
631668.14	4175125.47	169.83931	(05010417)	631680.74	4175111.66	162.90218	(05021805)
631693.34	4175097.85	172.15904	(05021805)	631705.94	4175084.04	177.14907	(05021805)
631718.53	4175070.23	178.89076	(05021805)	631731.13	4175056.42	176.95109	(05021805)
631743.73	4175042.61	173.02285	(04122823)	631773.29	4175020.32	176.72739	(07012317)
631790.26	4175011.84	184.28964	(07012317)	631822.21	4174999.50	183.55860	(07012317)
631837.20	4174995.64	174.83895	(07012317)	631852.19	4174991.77	161.61526	(07012317)
631866.84	4175007.53	160.14452	(05121017)	631866.50	4175027.14	163.31761	(07020623)
631866.16	4175046.76	161.57605	(07020623)	631865.83	4175066.37	161.60526	(07020623)
631865.49	4175085.99	162.34352	(07020623)	631865.15	4175105.60	164.87755	(07020623)
631864.81	4175125.22	167.20073	(04122824)	631864.47	4175144.83	170.14361	(04122824)
631864.13	4175164.45	172.57564	(04122824)	631863.80	4175184.06	143.00370	(07011417)
631863.46	4175203.68	151.50010	(07011417)	631863.12	4175223.29	160.19489	(07011417)
631862.78	4175242.91	169.04596	(07011417)	631862.44	4175262.52	177.96245	(07011417)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	186.86821	(07011417)	631861.77	4175301.75	195.64807	(07011417)
631861.43	4175321.37	204.17848	(07011417)	631861.09	4175340.98	212.31769	(07011417)
631860.75	4175360.60	219.90623	(07011417)	631860.41	4175380.21	226.74671	(07011417)
631860.07	4175399.83	232.66679	(07011417)	631859.73	4175419.44	237.44337	(07011417)
631859.40	4175439.06	242.39944	(05010319)	631859.06	4175458.67	254.45028	(05010319)
631858.72	4175478.29	264.41950	(05010319)	631858.38	4175497.90	274.95163	(05021803)
631858.04	4175517.52	292.68637	(05021803)	631857.70	4175537.13	306.87254	(05021803)
631857.37	4175556.75	320.80150	(04122822)	631857.03	4175576.36	336.87938	(05020818)
631856.69	4175595.98	353.24096	(05020818)	631856.35	4175615.59	377.84832	(05011521)
631856.01	4175635.21	401.74242	(05011520)	631855.67	4175654.82	427.85498	(04022018)
631855.33	4175674.44	467.15347	(04022018)	631855.00	4175694.05	489.03328	(04022018)
631854.66	4175713.67	552.28770	(06011617)	631854.32	4175733.28	608.73257	(06011617)
631853.98	4175752.90	626.20849	(06011617)	631853.64	4175772.51	617.08198	(06120617)
631853.30	4175792.13	652.94749	(07010217)	631852.97	4175811.74	677.89702	(07010217)
631852.63	4175831.36	669.09023	(05122223)	631852.29	4175850.97	681.27799	(06011619)
631851.95	4175870.59	684.52353	(07012318)	631851.61	4175890.20	672.23970	(05012018)
631851.27	4175909.82	660.10915	(05122401)	631850.94	4175929.43	628.19263	(07122919)

631850.60	4175949.05	668.86335	(08021808)	631850.26	4175968.66	674.46519	(08021808)
631830.54	4175988.13	693.62498	(08021908)	631811.15	4175987.98	724.25500	(08021908)
631791.77	4175987.83	786.91144	(07022408)	631772.39	4175987.67	799.59253	(07022408)
631753.00	4175987.52	796.57361	(06122319)	631733.62	4175987.37	836.84008	(04020619)
631714.24	4175987.22	878.25087	(05122402)	631694.85	4175987.07	886.81001	(05122220)
631675.47	4175986.92	931.77804	(08011009)	631656.09	4175986.77	969.52207	(08011009)
631636.70	4175986.62	888.29525	(08011009)	631617.32	4175986.46	796.91198	(07021218)
631597.94	4175986.31	716.18705	(07122917)	631578.55	4175986.16	649.78571	(04120908)
631559.17	4175986.01	598.91621	(04120903)	631539.79	4175985.86	564.15662	(04021521)
631520.40	4175985.71	517.96240	(04021520)	631501.02	4175985.56	487.28916	(04021520)
631481.64	4175985.40	447.57401	(06122121)	631462.25	4175985.25	416.83414	(06122121)
631442.87	4175985.10	380.33345	(06122121)	631423.49	4175984.95	355.02457	(07120622)
631404.10	4175984.80	339.58687	(07120622)	631384.72	4175984.65	321.26359	(07120622)
631365.34	4175984.50	300.97982	(07120622)	631345.95	4175984.35	280.01864	(07120621)
631326.57	4175984.19	268.27474	(07120621)	631307.19	4175984.04	255.04917	(07120621)
631287.80	4175983.89	240.80677	(07120621)	631050.63	4175100.50	115.36888	(05122423)
631050.63	4175200.50	119.29049	(05110618)	631050.63	4175300.50	169.90799	(06121421)
631050.63	4175400.50	166.83724	(07020624)	631050.63	4175500.50	191.61697	(06120217)
631050.63	4175600.50	287.20663	(06020109)	631050.63	4175700.50	223.88266	(04022207)
631050.63	4175800.50	218.39608	(04121304)	631050.63	4175900.50	192.32913	(05122618)
631050.63	4176000.50	180.29103	(06011024)	631050.63	4176100.50	138.36878	(07020707)
631150.63	4175100.50	152.76561	(07121217)	631150.63	4175200.50	140.69235	(07121217)
631150.63	4175300.50	141.75414	(06011022)	631150.63	4175400.50	199.81972	(06121421)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	223.83250	(04011017)	631150.63	4175600.50	236.49578	(06020109)
631150.63	4175700.50	282.73937	(06020109)	631150.63	4175800.50	227.73620	(04121304)
631150.63	4175900.50	175.20768	(05122618)	631150.63	4176000.50	159.45202	(06011024)
631150.63	4176100.50	162.99963	(07120404)	631250.63	4175100.50	179.03396	(05012117)
631250.63	4175200.50	194.58377	(07011517)	631250.63	4175300.50	187.35877	(07121217)
631250.63	4175400.50	177.97052	(06011022)	631250.63	4175500.50	241.85035	(06121421)
631250.63	4175600.50	281.31452	(04011017)	631250.63	4175700.50	349.77739	(06020109)
631250.63	4175800.50	245.42898	(04121224)	631250.63	4175900.50	223.90110	(07020701)
631250.63	4176000.50	219.12090	(07120621)	631250.63	4176100.50	205.25460	(07013018)
631350.63	4175100.50	183.23168	(06011021)	631350.63	4175200.50	230.16559	(05012117)
631350.63	4175300.50	229.82532	(05012117)	631350.63	4175400.50	245.17505	(07121217)
631350.63	4175500.50	231.69973	(06011022)	631350.63	4175600.50	287.10912	(06121421)
631350.63	4175700.50	356.58157	(06121217)	631350.63	4175800.50	328.45417	(08012221)
631350.63	4175900.50	302.91234	(07020701)	631350.63	4176000.50	285.11312	(07120622)
631350.63	4176100.50	253.76354	(04021520)	631450.63	4175100.50	167.65989	(06121017)

631450.63	4175200.50	188.39551 (05010318)	631450.63	4175300.50	242.17009 (06011021)
631450.63	4175400.50	321.11279 (05012117)	631450.63	4175500.50	332.13754 (07011517)
631450.63	4175600.50	317.56888 (06011022)	631450.63	4175700.50	382.08093 (04011017)
631450.63	4175800.50	462.37125 (04022207)	631450.63	4175900.50	445.18288 (06011024)
631450.63	4176000.50	390.70523 (06122121)	631450.63	4176100.50	319.12061 (05122923)
631550.63	4175100.50	192.24295 (06121420)	631550.63	4175200.50	222.80370 (08022002)
631550.63	4175300.50	259.22492 (08022002)	631550.63	4175400.50	270.02904 (06121017)
631550.63	4175500.50	336.30348 (06011021)	631550.63	4175600.50	461.98561 (05012117)
631550.63	4175700.50	483.87919 (07011517)	631550.63	4175800.50	747.44419 (06121217)
631550.63	4175900.50	719.44193 (07120622)	631550.63	4176000.50	555.10764 (04120903)
631550.63	4176100.50	432.36738 (05011001)	631650.63	4175100.50	169.10476 (05010417)
631650.63	4175200.50	196.71031 (05122422)	631650.63	4175300.50	230.47212 (05122422)
631650.63	4175400.50	255.41840 (05122422)	631650.63	4175500.50	328.33179 (05122422)
631650.63	4175600.50	454.51012 (06121420)	631650.63	4175700.50	723.87360 (08022002)
631650.63	4175800.50	0.00000 (00000000)	631650.63	4175900.50	0.00000 (00000000)
631650.63	4176000.50	888.55301 (08011009)	631650.63	4176100.50	517.01658 (08011009)
631750.63	4175100.50	182.92474 (04122823)	631750.63	4175200.50	211.37370 (07012317)
631750.63	4175300.50	212.81963 (07012317)	631750.63	4175400.50	272.10342 (07012317)
631750.63	4175500.50	350.74980 (07012317)	631750.63	4175600.50	455.59657 (07012317)
631750.63	4175700.50	720.28614 (07011417)	631750.63	4175800.50	0.00000 (00000000)
631750.63	4175900.50	0.00000 (00000000)	631750.63	4176000.50	747.22208 (06013004)
631750.63	4176100.50	470.70261 (05021302)	631850.63	4175100.50	162.06044 (07020623)
631850.63	4175200.50	145.26867 (04122824)	631850.63	4175300.50	192.81445 (07011417)
631850.63	4175400.50	240.44019 (07011417)	631850.63	4175500.50	280.55974 (05010319)
631850.63	4175600.50	363.84698 (05020818)	631850.63	4175700.50	503.90343 (04022018)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
631850.63	4175800.50	680.70163 (07010217)	631850.63	4175900.50	667.30946 (05122401)
631850.63	4176000.50	619.58026 (08021908)	631850.63	4176100.50	409.16635 (07022408)
631950.63	4175100.50	176.18639 (07011417)	631950.63	4175200.50	144.28626 (06121419)
631950.63	4175300.50	166.67819 (05021803)	631950.63	4175400.50	198.68646 (05122303)
631950.63	4175500.50	243.08394 (05021802)	631950.63	4175600.50	298.70349 (04022018)
631950.63	4175700.50	375.67102 (06011617)	631950.63	4175800.50	411.20459 (08011001)
631950.63	4175900.50	422.76855 (06121320)	631950.63	4176000.50	389.05202 (07121419)
631950.63	4176100.50	365.41766 (08021908)	632050.63	4175100.50	135.10134 (04022318)
632050.63	4175200.50	130.47498 (05021803)	632050.63	4175300.50	147.30662 (05122303)
632050.63	4175400.50	177.75820 (07020622)	632050.63	4175500.50	204.20684 (04022018)
632050.63	4175600.50	272.06786 (06011617)	632050.63	4175700.50	273.63750 (05021801)
632050.63	4175800.50	296.55456 (08011020)	632050.63	4175900.50	305.70110 (07021221)
632050.63	4176000.50	283.55199 (05122323)	632050.63	4176100.50	285.66568 (08021808)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	86.81316	(07012702)	632304.44	4174354.52	86.43385	(05011521)
632192.15	4174956.32	84.90470	(07012702)	632420.62	4175510.15	86.66968	(08011020)
632418.97	4175552.92	88.20089	(07012218)	631187.00	4175727.00	494.83100	(07120622)
631166.00	4175729.00	442.14774	(07120621)	631121.00	4175719.00	387.07529	(06011024)
631035.00	4174830.00	158.54144	(06011021)	631106.00	4174825.00	144.99951	(06121017)
631937.00	4174528.00	97.98496	(04022318)	631322.00	4174522.00	69.27865	(05010417)
629800.63	4173850.44	20.98038	(06041020)	630150.63	4173850.44	20.57155	(08121017)
630500.63	4173850.44	30.57170	(05030118)	630850.63	4173850.44	47.07599	(07111022)
631200.63	4173850.44	30.89741	(05050803)	631550.63	4173850.44	57.76278	(06040124)
631900.63	4173850.44	44.84247	(08071405)	632250.63	4173850.44	54.09040	(06051924)
632600.63	4173850.44	51.00620	(05011521)	632950.63	4173850.44	44.39247	(04022018)
633300.63	4173850.44	35.41734	(05021018)	629800.63	4174200.44	37.80147	(06120517)
630150.63	4174200.44	38.75507	(04012317)	630500.63	4174200.44	75.46815	(06011109)
630850.63	4174200.44	72.81272	(06102817)	631200.63	4174200.44	56.13494	(05050803)
631550.63	4174200.44	89.07932	(07012317)	631900.63	4174200.44	96.36526	(04022218)
632250.63	4174200.44	83.33827	(05020818)	632600.63	4174200.44	63.83312	(05011520)
632950.63	4174200.44	50.80343	(05021018)	633300.63	4174200.44	30.16174	(06011617)
629800.63	4174550.44	52.64621	(07020624)	630150.63	4174550.44	71.45621	(06121421)
630500.63	4174550.44	76.81698	(04121302)	630850.63	4174550.44	111.40320	(06011021)
631200.63	4174550.44	126.51781	(06121420)	631550.63	4174550.44	131.47866	(07012317)
631900.63	4174550.44	105.84688	(04022318)	632250.63	4174550.44	95.76825	(05011520)
632600.63	4174550.44	67.63650	(05021018)	632950.63	4174550.44	42.48546	(06011617)
633300.63	4174550.44	32.91368	(06012018)	629800.63	4174900.44	61.86577	(05112423)
630150.63	4174900.44	83.02686	(06120217)	630500.63	4174900.44	120.45691	(06121421)
630850.63	4174900.44	152.69488	(07121217)	631200.63	4174900.44	194.19485	(08022002)
631550.63	4174900.44	182.18633	(07020623)	631900.63	4174900.44	101.18272	(06020318)
632250.63	4174900.44	77.60590	(07012702)	632600.63	4174900.44	57.68817	(04021501)
632950.63	4174900.44	46.80487	(04022221)	633300.63	4174900.44	32.46650	(05021801)
629800.63	4175250.44	79.52045	(04022207)	630150.63	4175250.44	199.96985	(06020109)
630500.63	4175250.44	174.43419	(06020109)	630850.63	4175250.44	175.90999	(06121421)
631200.63	4175250.44	341.60648	(05012117)	631550.63	4175250.44	254.04800	(07011417)
631900.63	4175250.44	165.27806	(06011617)	632250.63	4175250.44	99.88570	(04022221)
632600.63	4175250.44	68.93437	(04022222)	632950.63	4175250.44	64.52012	(06100508)
633300.63	4175250.44	51.27203	(06100508)	629800.63	4175600.44	87.25207	(04121304)
630150.63	4175600.44	116.99701	(04121304)	630500.63	4175600.44	165.52602	(04121304)
630850.63	4175600.44	254.74361	(04121304)	631200.63	4175600.44	573.51031	(04022207)
631550.63	4175600.44	678.79125	(07010217)	631900.63	4175600.44	202.95648	(07012218)
632250.63	4175600.44	109.39928	(07021102)	632600.63	4175600.44	71.58473	(07021102)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	116.24957	(07120621)	630850.63	4175950.44	159.28854	(07013018)
631200.63	4175950.44	325.62196	(05011001)	631550.63	4175950.44	351.26164	(06011005)
631900.63	4175950.44	188.73662	(07121419)	632250.63	4175950.44	105.96847	(05121218)
632600.63	4175950.44	71.57820	(06020208)	632950.63	4175950.44	52.81988	(06020205)
633300.63	4175950.44	40.34206	(04121118)	629800.63	4176300.44	62.32318	(07120622)
630150.63	4176300.44	67.43767	(05021923)	630500.63	4176300.44	77.87123	(06022523)
630850.63	4176300.44	114.45929	(06021721)	631200.63	4176300.44	176.74082	(08011009)
631550.63	4176300.44	169.04731	(08011408)	631900.63	4176300.44	136.69491	(07022408)
632250.63	4176300.44	95.90688	(08021808)	632600.63	4176300.44	64.17312	(08031008)
632950.63	4176300.44	47.55795	(05122323)	633300.63	4176300.44	37.73346	(05121218)
629800.63	4176650.44	39.76492	(07013018)	630150.63	4176650.44	50.44207	(07120403)
630500.63	4176650.44	60.44865	(06021721)	630850.63	4176650.44	90.38393	(05011001)
631200.63	4176650.44	100.00915	(08021905)	631550.63	4176650.44	101.32651	(05121701)
631900.63	4176650.44	87.82154	(08021923)	632250.63	4176650.44	70.65224	(07022408)
632600.63	4176650.44	56.07462	(08121003)	632950.63	4176650.44	45.11498	(08120919)
633300.63	4176650.44	44.94365	(08031008)	629800.63	4177000.44	34.80970	(05021308)
630150.63	4177000.44	40.42552	(05122923)	630500.63	4177000.44	49.36514	(06011018)
630850.63	4177000.44	65.50927	(06021720)	631200.63	4177000.44	67.60438	(07122906)
631550.63	4177000.44	71.38723	(07121904)	631900.63	4177000.44	64.30321	(07091007)
632250.63	4177000.44	54.61482	(04121823)	632600.63	4177000.44	46.67719	(04121902)
632950.63	4177000.44	38.68121	(08121003)	633300.63	4177000.44	33.38978	(08021808)
629800.63	4177350.44	30.06445	(05122923)	630150.63	4177350.44	34.85435	(07121206)
630500.63	4177350.44	44.15455	(07012805)	630850.63	4177350.44	48.97570	(07021207)
631200.63	4177350.44	50.57676	(06012804)	631550.63	4177350.44	51.99937	(07020803)
631900.63	4177350.44	81.42551	(07091007)	632250.63	4177350.44	43.66151	(08021923)
632600.63	4177350.44	38.45713	(08022124)	632950.63	4177350.44	33.58231	(07021107)
633300.63	4177350.44	29.14243	(08122821)	631670.70	4175493.59	342.04036	(06120617)
631669.80	4175641.41	388.26494	(08011019)	631665.32	4175796.39	356.77337	(08121019)
631417.17	4175826.85	686.27424	(05122402)	631417.17	4175673.66	0.00000	(00000000)
631422.55	4175484.63	724.24232	(07012317)	631268.42	4175983.74	343.59874	(06020123)
631275.69	4175523.99	610.37606	(05012117)	631345.65	4175419.50	484.40016	(06121420)
631384.72	4175441.30	520.33534	(05122422)	631491.93	4175442.21	464.85901	(04022318)
631491.93	4175414.95	443.43949	(07011417)	631385.63	4175413.14	455.12857	(05010417)
631358.37	4175395.87	442.02419	(05122422)	631409.25	4175336.81	375.44842	(07012317)
631567.35	4175235.96	238.57950	(05010319)	631756.33	4175028.80	136.42110	(05122303)
631807.22	4175003.36	123.09242	(05122303)	631867.18	4174987.91	116.06024	(06020318)

631849.92	4175988.28	216.21690	(08021808)	631268.74	4175963.75	364.37192	(06021720)
631269.05	4175943.76	387.64953	(07122907)	631269.37	4175923.77	410.60052	(07122907)
631269.68	4175903.78	438.60392	(06122519)	631270.00	4175883.79	469.48315	(07021218)
631270.32	4175863.81	501.37676	(07021218)	631270.63	4175843.82	523.76203	(08122718)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	550.43683	(07122917)	631271.26	4175803.84	589.03932	(04120908)
631271.58	4175783.85	638.13071	(04120903)	631271.90	4175763.86	693.92364	(04021521)
631272.21	4175743.87	749.70303	(04021520)	631272.53	4175723.88	799.28730	(06122121)
631272.85	4175703.89	843.31771	(07120622)	631273.16	4175683.90	879.76524	(06011024)
631273.48	4175663.91	922.99770	(04121304)	631273.79	4175643.92	939.88051	(04121304)
631274.11	4175623.94	920.86691	(04022207)	631274.43	4175603.95	873.97813	(06121217)
631274.74	4175583.96	803.86316	(04011017)	631275.06	4175563.97	706.69182	(04011017)
631275.37	4175543.98	635.72144	(06121421)	631285.68	4175509.06	684.10450	(05012117)
631295.68	4175494.14	702.71894	(05012117)	631305.67	4175479.21	670.08811	(05012117)
631315.67	4175464.28	593.37883	(05012117)	631325.66	4175449.35	526.44383	(06121017)
631335.66	4175434.43	513.48797	(08022002)	631358.67	4175426.77	502.47543	(06121420)
631371.70	4175434.03	516.18123	(05122422)	631402.59	4175441.45	579.75771	(07012317)
631420.46	4175441.60	598.04556	(07012317)	631438.33	4175441.76	561.98471	(07012317)
631456.19	4175441.91	552.66525	(07011417)	631474.06	4175442.06	524.60481	(07011417)
631491.93	4175428.58	452.94913	(07011417)	631474.21	4175414.65	482.63963	(07011417)
631456.50	4175414.35	487.91031	(07011417)	631438.78	4175414.05	510.09549	(07012317)
631421.06	4175413.74	530.58217	(07012317)	631403.35	4175413.44	505.32798	(07012317)
631372.00	4175404.51	459.74715	(05122422)	631371.09	4175381.11	423.03050	(05122422)
631383.81	4175366.34	386.71702	(05010417)	631396.53	4175351.58	366.34747	(07012317)
631425.06	4175326.73	382.76735	(07012317)	631440.87	4175316.64	372.75453	(07012317)
631456.68	4175306.56	346.35240	(07012317)	631472.49	4175296.47	309.17269	(07012317)
631488.30	4175286.39	303.54998	(07011417)	631504.11	4175276.30	300.97738	(07011417)
631519.92	4175266.22	290.55094	(07011417)	631535.73	4175256.13	273.90740	(07011417)
631551.54	4175246.05	251.86915	(07011417)	631579.95	4175222.15	228.20710	(05010319)
631592.55	4175208.34	216.69473	(05010319)	631605.15	4175194.53	205.91360	(05021803)
631617.74	4175180.72	200.64822	(05021803)	631630.34	4175166.91	195.13565	(05021803)
631642.94	4175153.10	188.65571	(05021803)	631655.54	4175139.29	182.12342	(05021803)
631668.14	4175125.47	175.01222	(05021803)	631680.74	4175111.66	167.92221	(05021803)
631693.34	4175097.85	160.58185	(05021803)	631705.94	4175084.04	153.29113	(05021803)
631718.53	4175070.23	146.51127	(05122303)	631731.13	4175056.42	143.30220	(05122303)
631743.73	4175042.61	139.95654	(05122303)	631773.29	4175020.32	133.51680	(05122303)
631790.26	4175011.84	129.00700	(05122303)	631822.21	4174999.50	119.44670	(06020318)
631837.20	4174995.64	119.68805	(06020318)	631852.19	4174991.77	118.52830	(06020318)
631866.84	4175007.53	120.64635	(05021802)	631866.50	4175027.14	124.21994	(05021802)

631866.16	4175046.76	126.82982	(07020622)	631865.83	4175066.37	129.19231	(06012718)
631865.49	4175085.99	133.92875	(05122304)	631865.15	4175105.60	136.29342	(05122304)
631864.81	4175125.22	138.87639	(04022018)	631864.47	4175144.83	143.99796	(04022018)
631864.13	4175164.45	146.54413	(04022018)	631863.80	4175184.06	146.20591	(04022018)
631863.46	4175203.68	151.58187	(07012702)	631863.12	4175223.29	158.98265	(07012702)
631862.78	4175242.91	161.84563	(07012702)	631862.44	4175262.52	167.29862	(06011617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	182.64142	(06011617)	631861.77	4175301.75	193.41010	(06011617)
631861.43	4175321.37	198.30606	(06011617)	631861.09	4175340.98	196.45448	(06011617)
631860.75	4175360.60	187.68317	(06011617)	631860.41	4175380.21	191.40042	(06012018)
631860.07	4175399.83	197.61303	(06012018)	631859.73	4175419.44	200.73936	(04022221)
631859.40	4175439.06	202.82419	(04022221)	631859.06	4175458.67	202.30047	(06022418)
631858.72	4175478.29	208.81403	(07010217)	631858.38	4175497.90	220.92359	(07010217)
631858.04	4175517.52	221.54461	(07010217)	631857.70	4175537.13	218.66203	(04010924)
631857.37	4175556.75	221.30449	(05011606)	631857.03	4175576.36	222.81767	(06121504)
631856.69	4175595.98	223.85763	(05122420)	631856.35	4175615.59	225.21592	(05020819)
631856.01	4175635.21	225.37221	(07021102)	631855.67	4175654.82	226.09327	(06011619)
631855.33	4175674.44	225.87362	(07011518)	631855.00	4175694.05	234.45629	(06121322)
631854.66	4175713.67	232.16403	(07021221)	631854.32	4175733.28	231.31307	(04121118)
631853.98	4175752.90	229.58047	(04021505)	631853.64	4175772.51	226.46536	(06020208)
631853.30	4175792.13	224.05945	(05010918)	631852.97	4175811.74	220.97175	(05121218)
631852.63	4175831.36	217.71552	(07010308)	631852.29	4175850.97	214.28630	(06012821)
631851.95	4175870.59	210.46742	(04121105)	631851.61	4175890.20	206.46597	(08121019)
631851.27	4175909.82	208.71748	(07121419)	631850.94	4175929.43	212.97804	(07121419)
631850.60	4175949.05	208.56631	(08120919)	631850.26	4175968.66	216.03391	(08021808)
631830.54	4175988.13	222.34620	(08021808)	631811.15	4175987.98	223.95462	(08021808)
631791.77	4175987.83	223.28112	(08021908)	631772.39	4175987.67	243.60615	(08021908)
631753.00	4175987.52	258.91499	(08021908)	631733.62	4175987.37	267.43892	(08021908)
631714.24	4175987.22	267.91951	(08021908)	631694.85	4175987.07	262.68184	(07022408)
631675.47	4175986.92	288.86455	(07022408)	631656.09	4175986.77	304.90606	(07022408)
631636.70	4175986.62	307.95124	(07022408)	631617.32	4175986.46	296.54092	(07022408)
631597.94	4175986.31	301.12827	(04121823)	631578.55	4175986.16	310.33606	(07121907)
631559.17	4175986.01	318.92596	(06011005)	631539.79	4175985.86	328.02092	(08121602)
631520.40	4175985.71	333.71842	(08121603)	631501.02	4175985.56	343.61521	(08121403)
631481.64	4175985.40	350.40536	(08121604)	631462.25	4175985.25	355.92947	(06021702)
631442.87	4175985.10	360.79429	(05121701)	631423.49	4175984.95	364.87012	(05022220)
631404.10	4175984.80	368.55181	(08122707)	631384.72	4175984.65	369.22671	(05121504)
631365.34	4175984.50	361.79465	(08122907)	631345.95	4175984.35	357.52588	(06012804)
631326.57	4175984.19	391.31142	(08011009)	631307.19	4175984.04	403.81448	(08011009)

631287.80	4175983.89	382.80238	(08011009)	631050.63	4175100.50	229.93393	(05012117)
631050.63	4175200.50	245.21483	(07121217)	631050.63	4175300.50	232.18280	(06011022)
631050.63	4175400.50	294.27772	(06121421)	631050.63	4175500.50	372.67991	(06121217)
631050.63	4175600.50	327.16771	(08012221)	631050.63	4175700.50	359.66874	(06011024)
631050.63	4175800.50	284.52128	(07120622)	631050.63	4175900.50	253.88550	(04021520)
631050.63	4176000.50	219.89407	(05122923)	631050.63	4176100.50	186.26328	(05022703)
631150.63	4175100.50	243.00753	(06011021)	631150.63	4175200.50	324.08829	(05012117)
631150.63	4175300.50	331.58802	(07011517)	631150.63	4175400.50	317.27155	(06011022)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	380.79026	(04011017)	631150.63	4175600.50	460.55436	(04022207)
631150.63	4175700.50	446.29434	(06011024)	631150.63	4175800.50	390.62639	(06122121)
631150.63	4175900.50	316.75289	(05122923)	631150.63	4176000.50	255.34988	(05022705)
631150.63	4176100.50	234.34347	(07012805)	631250.63	4175100.50	260.22028	(08022002)
631250.63	4175200.50	275.05987	(08022002)	631250.63	4175300.50	338.80021	(06011021)
631250.63	4175400.50	461.51247	(05012117)	631250.63	4175500.50	479.17161	(07011517)
631250.63	4175600.50	737.86118	(06121217)	631250.63	4175700.50	717.75061	(07120622)
631250.63	4175800.50	547.89198	(04120903)	631250.63	4175900.50	430.58729	(05011001)
631250.63	4176000.50	325.31652	(06021720)	631250.63	4176100.50	266.32025	(08011009)
631350.63	4175100.50	236.10369	(05122422)	631350.63	4175200.50	285.01474	(05122422)
631350.63	4175300.50	327.50929	(05122422)	631350.63	4175400.50	452.37119	(06121420)
631350.63	4175500.50	721.35240	(08022002)	631350.63	4175600.50	0.00000	(00000000)
631350.63	4175700.50	0.00000	(00000000)	631350.63	4175800.50	879.96011	(08011009)
631350.63	4175900.50	515.52266	(08011009)	631350.63	4176000.50	344.47676	(06012804)
631350.63	4176100.50	264.20541	(05121702)	631450.63	4175100.50	274.32147	(07012317)
631450.63	4175200.50	270.35357	(07012317)	631450.63	4175300.50	348.69605	(07012317)
631450.63	4175400.50	455.89882	(07012317)	631450.63	4175500.50	721.01388	(07011417)
631450.63	4175600.50	0.00000	(00000000)	631450.63	4175700.50	0.00000	(00000000)
631450.63	4175800.50	739.36658	(06013004)	631450.63	4175900.50	470.20828	(05021302)
631450.63	4176000.50	345.02519	(05121701)	631450.63	4176100.50	266.86827	(07121904)
631550.63	4175100.50	238.31049	(07011417)	631550.63	4175200.50	238.99123	(07011417)
631550.63	4175300.50	279.27809	(05010319)	631550.63	4175400.50	363.92229	(05020818)
631550.63	4175500.50	502.81499	(04022018)	631550.63	4175600.50	678.89742	(07010217)
631550.63	4175700.50	663.26383	(05122401)	631550.63	4175800.50	612.60799	(08021908)
631550.63	4175900.50	411.29968	(07022408)	631550.63	4176000.50	313.03668	(08121602)
631550.63	4176100.50	246.82074	(08121403)	631650.63	4175100.50	165.90488	(05021803)
631650.63	4175200.50	197.70403	(05122303)	631650.63	4175300.50	243.08249	(05021802)
631650.63	4175400.50	298.14433	(04022018)	631650.63	4175500.50	374.51743	(06011617)
631650.63	4175600.50	410.33145	(08011001)	631650.63	4175700.50	421.68662	(06121320)
631650.63	4175800.50	386.81681	(07121419)	631650.63	4175900.50	369.01852	(08021908)

631650.63	4176000.50	294.87576	(07022408)	631650.63	4176100.50	222.58799	(08121001)
631750.63	4175100.50	147.13822	(05122303)	631750.63	4175200.50	177.76309	(07020622)
631750.63	4175300.50	203.95815	(04022018)	631750.63	4175400.50	270.82295	(06011617)
631750.63	4175500.50	272.22145	(05021801)	631750.63	4175600.50	295.38225	(08011020)
631750.63	4175700.50	305.02727	(07021221)	631750.63	4175800.50	282.18799	(05122323)
631750.63	4175900.50	286.63196	(08021808)	631750.63	4176000.50	254.98479	(08021908)
631750.63	4176100.50	214.93361	(07022408)	631850.63	4175100.50	138.45476	(05122304)
631850.63	4175200.50	150.97426	(04022018)	631850.63	4175300.50	194.09570	(06011617)
631850.63	4175400.50	201.64993	(06012018)	631850.63	4175500.50	225.34676	(07010217)
631850.63	4175600.50	227.53981	(05122420)	631850.63	4175700.50	236.40883	(06121322)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	223.99519	(06012919)	631850.63	4175900.50	204.67497	(04121104)
631850.63	4176000.50	211.80817	(08021808)	631850.63	4176100.50	186.69619	(08021908)
631950.63	4175100.50	118.60708	(07122717)	631950.63	4175200.50	141.12225	(06011617)
631950.63	4175300.50	151.62411	(06011617)	631950.63	4175400.50	164.55107	(04022221)
631950.63	4175500.50	177.35764	(04022220)	631950.63	4175600.50	182.79814	(07012218)
631950.63	4175700.50	189.93816	(06121322)	631950.63	4175800.50	182.27819	(05011419)
631950.63	4175900.50	170.18161	(06122321)	631950.63	4176000.50	167.76890	(07121419)
631950.63	4176100.50	152.82615	(08021808)	632050.63	4175100.50	106.56351	(07012702)
632050.63	4175200.50	131.43088	(06011617)	632050.63	4175300.50	134.17285	(08022005)
632050.63	4175400.50	135.78500	(04022222)	632050.63	4175500.50	145.90633	(05011606)
632050.63	4175600.50	151.40337	(05020819)	632050.63	4175700.50	155.81131	(06121322)
632050.63	4175800.50	152.71432	(04021505)	632050.63	4175900.50	143.57804	(07010308)
632050.63	4176000.50	134.18635	(08121019)	632050.63	4176100.50	134.84077	(08021808)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

632121.21	4174952.36	153.37118 (05020818)	632304.44	4174354.52	90.33842 (04022318)
632192.15	4174956.32	137.02007 (05011521)	632420.62	4175510.15	133.02447 (05011606)
632418.97	4175552.92	134.09987 (08011020)	631187.00	4175727.00	197.16766 (07020701)
631166.00	4175729.00	188.49405 (07020701)	631121.00	4175719.00	168.48828 (07020701)
631035.00	4174830.00	115.49090 (07121217)	631106.00	4174825.00	133.35732 (07121217)
631937.00	4174528.00	126.16185 (07020623)	631322.00	4174522.00	71.06357 (06102817)
629800.63	4173850.44	21.53016 (06120517)	630150.63	4173850.44	14.75228 (06041020)
630500.63	4173850.44	25.66423 (07122718)	630850.63	4173850.44	46.47616 (05030118)
631200.63	4173850.44	37.62836 (07100818)	631550.63	4173850.44	44.32841 (05122422)
631900.63	4173850.44	45.14569 (04102623)	632250.63	4173850.44	61.40082 (07011417)
632600.63	4173850.44	56.63920 (05021803)	632950.63	4173850.44	58.11564 (05011521)
633300.63	4173850.44	46.12367 (04022018)	629800.63	4174200.44	33.40136 (05122619)
630150.63	4174200.44	37.90460 (06120517)	630500.63	4174200.44	46.43126 (04012317)
630850.63	4174200.44	55.37451 (06011109)	631200.63	4174200.44	50.33999 (06102817)
631550.63	4174200.44	70.65582 (05122422)	631900.63	4174200.44	102.54085 (07012317)
632250.63	4174200.44	78.61716 (04022218)	632600.63	4174200.44	78.95132 (05020818)
632950.63	4174200.44	59.93355 (04022018)	633300.63	4174200.44	44.57788 (07012702)
629800.63	4174550.44	51.51928 (06120217)	630150.63	4174550.44	42.72744 (04101819)
630500.63	4174550.44	69.24162 (06121421)	630850.63	4174550.44	87.01635 (07121217)
631200.63	4174550.44	105.81819 (06011021)	631550.63	4174550.44	100.63111 (05050803)
631900.63	4174550.44	124.09988 (05121017)	632250.63	4174550.44	105.31757 (04122822)
632600.63	4174550.44	90.56141 (05011520)	632950.63	4174550.44	61.07478 (07012702)
633300.63	4174550.44	39.79872 (06011617)	629800.63	4174900.44	73.47744 (06020109)
630150.63	4174900.44	61.67585 (07111023)	630500.63	4174900.44	99.80228 (04011017)
630850.63	4174900.44	121.77044 (06121421)	631200.63	4174900.44	168.13262 (07011517)
631550.63	4174900.44	194.65959 (06121420)	631900.63	4174900.44	181.25372 (07011417)
632250.63	4174900.44	132.19686 (05011521)	632600.63	4174900.44	86.30695 (06011617)
632950.63	4174900.44	55.29620 (05020801)	633300.63	4174900.44	44.47002 (04022221)
629800.63	4175250.44	46.42871 (06121422)	630150.63	4175250.44	89.72125 (04022207)
630500.63	4175250.44	213.99942 (06020109)	630850.63	4175250.44	145.75922 (06121217)
631200.63	4175250.44	218.36068 (06121421)	631550.63	4175250.44	302.75274 (06121017)
631900.63	4175250.44	238.57275 (05021803)	632250.63	4175250.44	161.56552 (06011617)
632600.63	4175250.44	93.61115 (06022418)	632950.63	4175250.44	66.04340 (08120417)
633300.63	4175250.44	63.80397 (06100508)	629800.63	4175600.44	70.23939 (04121304)
630150.63	4175600.44	91.76136 (04121304)	630500.63	4175600.44	124.33650 (04121304)
630850.63	4175600.44	177.43514 (04121304)	631200.63	4175600.44	265.28841 (04121304)
631550.63	4175600.44	747.20108 (06121217)	631900.63	4175600.44	522.31588 (07010217)
632250.63	4175600.44	183.90083 (07012218)	632600.63	4175600.44	103.16422 (07021102)
632950.63	4175600.44	67.93951 (07021102)	633300.63	4175600.44	48.99425 (06012822)
629800.63	4175950.44	57.92727 (06011024)	630150.63	4175950.44	88.19179 (06011024)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	89.95692	(06011024)	630850.63	4175950.44	120.54712	(07120621)
631200.63	4175950.44	182.03269	(07013018)	631550.63	4175950.44	373.44553	(07121205)
631900.63	4175950.44	347.05165	(07022408)	632250.63	4175950.44	164.11995	(04121104)
632600.63	4175950.44	99.77446	(06012919)	632950.63	4175950.44	68.61023	(06020208)
633300.63	4175950.44	50.68302	(06011620)	629800.63	4176300.44	51.47696	(07120621)
630150.63	4176300.44	68.54851	(07120622)	630500.63	4176300.44	57.44476	(05021923)
630850.63	4176300.44	86.19076	(07120403)	631200.63	4176300.44	120.13285	(05022703)
631550.63	4176300.44	184.42595	(08011009)	631900.63	4176300.44	164.05653	(07020605)
632250.63	4176300.44	126.18395	(07022408)	632600.63	4176300.44	92.64128	(08021808)
632950.63	4176300.44	62.45910	(08031008)	633300.63	4176300.44	46.49427	(05122323)
629800.63	4176650.44	43.11118	(05021923)	630150.63	4176650.44	41.00934	(06022523)
630500.63	4176650.44	51.64660	(05021308)	630850.63	4176650.44	66.22311	(06021721)
631200.63	4176650.44	91.97313	(06122519)	631550.63	4176650.44	100.98876	(07122906)
631900.63	4176650.44	104.32523	(07091007)	632250.63	4176650.44	85.81482	(07121907)
632600.63	4176650.44	69.16367	(07021107)	632950.63	4176650.44	55.11743	(04011022)
633300.63	4176650.44	44.62837	(08120919)	629800.63	4177000.44	29.05679	(06022523)
630150.63	4177000.44	35.95745	(07012618)	630500.63	4177000.44	41.29630	(06021721)
630850.63	4177000.44	50.41018	(06012819)	631200.63	4177000.44	64.80519	(06020123)
631550.63	4177000.44	71.03988	(06012804)	631900.63	4177000.44	68.49439	(05121701)
632250.63	4177000.44	63.34325	(08121603)	632600.63	4177000.44	54.44936	(07013019)
632950.63	4177000.44	45.92760	(07021107)	633300.63	4177000.44	38.76820	(08121003)
629800.63	4177350.44	27.17944	(05022704)	630150.63	4177350.44	28.72629	(05122923)
630500.63	4177350.44	34.98790	(05022705)	630850.63	4177350.44	46.22686	(06122519)
631200.63	4177350.44	49.60396	(04022120)	631550.63	4177350.44	51.82540	(05121702)
631900.63	4177350.44	52.17318	(07121904)	632250.63	4177350.44	73.64683	(07091007)
632600.63	4177350.44	43.59304	(06011005)	632950.63	4177350.44	38.13806	(07010324)
633300.63	4177350.44	33.21442	(08120923)	631670.70	4175493.59	707.87279	(06121420)
631669.80	4175641.41	0.00000	(00000000)	631665.32	4175796.39	901.38329	(08011009)
631417.17	4175826.85	337.24513	(07013018)	631417.17	4175673.66	391.82629	(05122618)
631422.55	4175484.63	340.98233	(04011017)	631268.42	4175983.74	197.01391	(07120403)
631275.69	4175523.99	347.92556	(06020109)	631345.65	4175419.50	327.05055	(04011017)
631384.72	4175441.30	351.38588	(04011017)	631491.93	4175442.21	343.88385	(06011022)
631491.93	4175414.95	321.01048	(04121302)	631385.63	4175413.14	339.38942	(06121421)
631358.37	4175395.87	306.54131	(06121421)	631409.25	4175336.81	271.79835	(07121217)
631567.35	4175235.96	314.73129	(08022002)	631756.33	4175028.80	240.94432	(07012317)
631807.22	4175003.36	224.20919	(07012317)	631867.18	4174987.91	196.79664	(07011417)
631849.92	4175988.28	323.86153	(06121919)	631268.74	4175963.75	197.52593	(07120403)
631269.05	4175943.76	207.27284	(06022523)	631269.37	4175923.77	209.46180	(06022523)
631269.68	4175903.78	217.01968	(07013018)	631270.00	4175883.79	213.44707	(07013018)
631270.32	4175863.81	217.05930	(07120404)	631270.63	4175843.82	220.49714	(07120622)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	226.49634	(07020707)	631271.26	4175803.84	230.29419	(07120621)
631271.58	4175783.85	228.60914	(07120621)	631271.90	4175763.86	225.05564	(06011024)
631272.21	4175743.87	239.56328	(06011024)	631272.53	4175723.88	239.56432	(07020701)
631272.85	4175703.89	240.11633	(07020701)	631273.16	4175683.90	301.95762	(05122618)
631273.48	4175663.91	311.50023	(05122618)	631273.79	4175643.92	326.45458	(04121304)
631274.11	4175623.94	324.39997	(04121304)	631274.43	4175603.95	299.87372	(04121304)
631274.74	4175583.96	299.47612	(08012221)	631275.06	4175563.97	325.98184	(04022207)
631275.37	4175543.98	334.32598	(04022207)	631285.68	4175509.06	360.81503	(06020109)
631295.68	4175494.14	348.79311	(06020109)	631305.67	4175479.21	327.35255	(06121217)
631315.67	4175464.28	312.23983	(06121217)	631325.66	4175449.35	328.42092	(04011017)
631335.66	4175434.43	337.21150	(04011017)	631358.67	4175426.77	338.53357	(04011017)
631371.70	4175434.03	347.55816	(04011017)	631402.59	4175441.45	339.26630	(04011017)
631420.46	4175441.60	290.11261	(06121421)	631438.33	4175441.76	309.39598	(06121421)
631456.19	4175441.91	321.41250	(06121421)	631474.06	4175442.06	324.50685	(06121421)
631491.93	4175428.58	332.19596	(05122423)	631474.21	4175414.65	308.71235	(06011022)
631456.50	4175414.35	293.07371	(06011022)	631438.78	4175414.05	347.41036	(06121421)
631421.06	4175413.74	354.43745	(06121421)	631403.35	4175413.44	352.21091	(06121421)
631372.00	4175404.51	322.06278	(06121421)	631371.09	4175381.11	320.98441	(06121421)
631383.81	4175366.34	308.18969	(06121421)	631396.53	4175351.58	272.91257	(06121421)
631425.06	4175326.73	306.63572	(07121217)	631440.87	4175316.64	327.49171	(07011517)
631456.68	4175306.56	348.72500	(07011517)	631472.49	4175296.47	370.70965	(05012117)
631488.30	4175286.39	389.95351	(05012117)	631504.11	4175276.30	379.59967	(05012117)
631519.92	4175266.22	339.82720	(06011021)	631535.73	4175256.13	307.95129	(06011021)
631551.54	4175246.05	301.17939	(06121017)	631579.95	4175222.15	323.68686	(08022002)
631592.55	4175208.34	318.73563	(08022002)	631605.15	4175194.53	307.00675	(06121420)
631617.74	4175180.72	304.46791	(06121420)	631630.34	4175166.91	284.52686	(06121420)
631642.94	4175153.10	261.71398	(05122422)	631655.54	4175139.29	250.90576	(05122422)
631668.14	4175125.47	237.26930	(05010417)	631680.74	4175111.66	226.58849	(05021805)
631693.34	4175097.85	236.51205	(05021805)	631705.94	4175084.04	238.79193	(05021805)
631718.53	4175070.23	236.00282	(05021805)	631731.13	4175056.42	229.82551	(04122823)
631743.73	4175042.61	234.39633	(07012317)	631773.29	4175020.32	244.28016	(07012317)
631790.26	4175011.84	237.59645	(07012317)	631822.21	4174999.50	205.34375	(07012317)
631837.20	4174995.64	203.09019	(07020623)	631852.19	4174991.77	199.88510	(04122824)
631866.84	4175007.53	211.51721	(07011417)	631866.50	4175027.14	220.15170	(07011417)
631866.16	4175046.76	219.87705	(07011417)	631865.83	4175066.37	179.97125	(07011417)
631865.49	4175085.99	188.61753	(07011417)	631865.15	4175105.60	196.88426	(07011417)
631864.81	4175125.22	204.81382	(07011417)	631864.47	4175144.83	212.25356	(07011417)
631864.13	4175164.45	219.04258	(07011417)	631863.80	4175184.06	224.98185	(07011417)
631863.46	4175203.68	229.88953	(07011417)	631863.12	4175223.29	233.54139	(07011417)
631862.78	4175242.91	244.52400	(05010319)	631862.44	4175262.52	254.96887	(05010319)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	263.05000	(05010319)	631861.77	4175301.75	279.22631	(05021803)
631861.43	4175321.37	294.58452	(05021803)	631861.09	4175340.98	305.89110	(05021803)
631860.75	4175360.60	321.24548	(04122822)	631860.41	4175380.21	337.91643	(05020818)
631860.07	4175399.83	353.87783	(05011521)	631859.73	4175419.44	380.75848	(05011521)
631859.40	4175439.06	403.54968	(05011520)	631859.06	4175458.67	434.68644	(04022018)
631858.72	4175478.29	466.34411	(04022018)	631858.38	4175497.90	488.13901	(06011617)
631858.04	4175517.52	560.74995	(06011617)	631857.70	4175537.13	603.95084	(06011617)
631857.37	4175556.75	606.45620	(06011617)	631857.03	4175576.36	605.04278	(06120617)
631856.69	4175595.98	649.86839	(07010217)	631856.35	4175615.59	655.96352	(07010217)
631856.01	4175635.21	656.43492	(05121217)	631855.67	4175654.82	668.45294	(06011619)
631855.33	4175674.44	664.72260	(07012318)	631855.00	4175694.05	653.11487	(06012918)
631854.66	4175713.67	639.88951	(05122401)	631854.32	4175733.28	609.48447	(04011021)
631853.98	4175752.90	651.68531	(08021808)	631853.64	4175772.51	651.97998	(08021808)
631853.30	4175792.13	612.46889	(08021908)	631852.97	4175811.74	593.29151	(08021908)
631852.63	4175831.36	541.55314	(08021908)	631852.29	4175850.97	524.47451	(07022408)
631851.95	4175870.59	492.42635	(07022408)	631851.61	4175890.20	444.63187	(07022408)
631851.27	4175909.82	392.16610	(04121823)	631850.94	4175929.43	373.42972	(08121001)
631850.60	4175949.05	355.19886	(06011005)	631850.26	4175968.66	339.32949	(06011005)
631830.54	4175988.13	332.03835	(08121603)	631811.15	4175987.98	336.91575	(08121403)
631791.77	4175987.83	346.32012	(07020606)	631772.39	4175987.67	352.17515	(08011408)
631753.00	4175987.52	356.69025	(05121701)	631733.62	4175987.37	361.73869	(07121904)
631714.24	4175987.22	365.29004	(06011704)	631694.85	4175987.07	367.92728	(07122818)
631675.47	4175986.92	360.51774	(08122724)	631656.09	4175986.77	360.16033	(06012804)
631636.70	4175986.62	369.57406	(08011009)	631617.32	4175986.46	399.95107	(08011009)
631597.94	4175986.31	397.25379	(08011009)	631578.55	4175986.16	363.00916	(08011009)
631559.17	4175986.01	341.93301	(06021720)	631539.79	4175985.86	335.33737	(07121205)
631520.40	4175985.71	327.69872	(07012805)	631501.02	4175985.56	321.01216	(05011001)
631481.64	4175985.40	296.92942	(05011001)	631462.25	4175985.25	271.65152	(07122917)
631442.87	4175985.10	262.89445	(04120908)	631423.49	4175984.95	254.67824	(05021421)
631404.10	4175984.80	246.16381	(06021721)	631384.72	4175984.65	237.57157	(05122923)
631365.34	4175984.50	231.60191	(04120902)	631345.95	4175984.35	224.33057	(04120901)
631326.57	4175984.19	217.39816	(05022704)	631307.19	4175984.04	208.35635	(07012618)
631287.80	4175983.89	201.32967	(07120403)	631050.63	4175100.50	169.86288	(06121421)
631050.63	4175200.50	166.68481	(07020624)	631050.63	4175300.50	191.09177	(06120217)
631050.63	4175400.50	287.74472	(06020109)	631050.63	4175500.50	223.75187	(04022207)
631050.63	4175600.50	217.31441	(04121304)	631050.63	4175700.50	210.87705	(05122618)
631050.63	4175800.50	193.50818	(06011024)	631050.63	4175900.50	138.46171	(07020707)
631050.63	4176000.50	128.27795	(05021923)	631050.63	4176100.50	125.42918	(06022523)
631150.63	4175100.50	141.06331	(06011022)	631150.63	4175200.50	200.64981	(06121421)
631150.63	4175300.50	221.88553	(04011017)	631150.63	4175400.50	236.35344	(06020109)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	283.82819	(06020109)	631150.63	4175600.50	245.99775	(04121304)
631150.63	4175700.50	174.82596	(05122618)	631150.63	4175800.50	159.68025	(06011024)
631150.63	4175900.50	163.00182	(07120404)	631150.63	4176000.50	156.94477	(06022523)
631150.63	4176100.50	140.80488	(07120403)	631250.63	4175100.50	189.31060	(07121217)
631250.63	4175200.50	178.08328	(06011022)	631250.63	4175300.50	237.99774	(06121421)
631250.63	4175400.50	276.10706	(04011017)	631250.63	4175500.50	350.57102	(06020109)
631250.63	4175600.50	287.03820	(04121304)	631250.63	4175700.50	266.74930	(05122618)
631250.63	4175800.50	219.74115	(07120621)	631250.63	4175900.50	205.02316	(07013018)
631250.63	4176000.50	187.24991	(07120403)	631250.63	4176100.50	164.05822	(04120902)
631350.63	4175100.50	229.75160	(07011517)	631350.63	4175200.50	245.85488	(07121217)
631350.63	4175300.50	231.09993	(06011022)	631350.63	4175400.50	291.68368	(06121421)
631350.63	4175500.50	362.22583	(06121217)	631350.63	4175600.50	328.18062	(08012221)
631350.63	4175700.50	302.72944	(07020701)	631350.63	4175800.50	285.15541	(07120622)
631350.63	4175900.50	253.72280	(04021520)	631350.63	4176000.50	220.12266	(05122923)
631350.63	4176100.50	186.52589	(05022703)	631450.63	4175100.50	243.97707	(06011021)
631450.63	4175200.50	326.39851	(05012117)	631450.63	4175300.50	342.39355	(07011517)
631450.63	4175400.50	316.36859	(06011022)	631450.63	4175500.50	382.66665	(04011017)
631450.63	4175600.50	462.12520	(04022207)	631450.63	4175700.50	444.94498	(06011024)
631450.63	4175800.50	390.94734	(06122121)	631450.63	4175900.50	319.28821	(05122923)
631450.63	4176000.50	256.98461	(05022705)	631450.63	4176100.50	238.12728	(07012805)
631550.63	4175100.50	258.91193	(08022002)	631550.63	4175200.50	279.21286	(08022002)
631550.63	4175300.50	351.08000	(06011021)	631550.63	4175400.50	463.56641	(05012117)
631550.63	4175500.50	484.81194	(07011517)	631550.63	4175600.50	747.24951	(06121217)
631550.63	4175700.50	719.20961	(07120622)	631550.63	4175800.50	555.20864	(04120903)
631550.63	4175900.50	431.66482	(05011001)	631550.63	4176000.50	327.28640	(06021720)
631550.63	4176100.50	269.24920	(08011009)	631650.63	4175100.50	236.31576	(05122422)
631650.63	4175200.50	287.53730	(05122422)	631650.63	4175300.50	328.54396	(05122422)
631650.63	4175400.50	455.63248	(06121420)	631650.63	4175500.50	725.57461	(08022002)
631650.63	4175600.50	0.00000	(00000000)	631650.63	4175700.50	0.00000	(00000000)
631650.63	4175800.50	882.90538	(08011009)	631650.63	4175900.50	516.58305	(08011009)
631650.63	4176000.50	346.16225	(06012804)	631650.63	4176100.50	265.22314	(05121702)
631750.63	4175100.50	269.95852	(07012317)	631750.63	4175200.50	271.80183	(07012317)
631750.63	4175300.50	351.04986	(07012317)	631750.63	4175400.50	456.41538	(07012317)
631750.63	4175500.50	721.20495	(07011417)	631750.63	4175600.50	0.00000	(00000000)
631750.63	4175700.50	0.00000	(00000000)	631750.63	4175800.50	742.36418	(06013004)
631750.63	4175900.50	471.92017	(05021302)	631750.63	4176000.50	345.74563	(05121701)
631750.63	4176100.50	264.33660	(07121904)	631850.63	4175100.50	192.50807	(07011417)
631850.63	4175200.50	240.36502	(07011417)	631850.63	4175300.50	280.67878	(05010319)
631850.63	4175400.50	363.94609	(05020818)	631850.63	4175500.50	502.24101	(04022018)
631850.63	4175600.50	677.84080	(07010217)	631850.63	4175700.50	664.14903	(05122401)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	615.59114	(08021908)	631850.63	4175900.50	414.30296	(07022408)
631850.63	4176000.50	313.65778	(08121602)	631850.63	4176100.50	245.29712	(08121403)
631950.63	4175100.50	166.10264	(05021803)	631950.63	4175200.50	198.30481	(05122303)
631950.63	4175300.50	243.03715	(05021802)	631950.63	4175400.50	298.11480	(04022018)
631950.63	4175500.50	373.97652	(06011617)	631950.63	4175600.50	410.18257	(08011001)
631950.63	4175700.50	421.62213	(06121320)	631950.63	4175800.50	387.43864	(07121419)
631950.63	4175900.50	370.65031	(08021908)	631950.63	4176000.50	294.87576	(07022408)
631950.63	4176100.50	220.76141	(08121001)	632050.63	4175100.50	146.94030	(05122303)
632050.63	4175200.50	177.60172	(07020622)	632050.63	4175300.50	204.51285	(04022018)
632050.63	4175400.50	271.59730	(06011617)	632050.63	4175500.50	272.52274	(05021801)
632050.63	4175600.50	296.20576	(08011020)	632050.63	4175700.50	306.14424	(07021221)
632050.63	4175800.50	283.00192	(05122323)	632050.63	4175900.50	287.45304	(08021808)
632050.63	4176000.50	255.17344	(08021908)	632050.63	4176100.50	214.75885	(07022408)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	151.62856	(05122304)	632304.44	4174354.52	115.84650	(04122822)
632192.15	4174956.32	135.53335	(04022018)	632420.62	4175510.15	140.82702	(06121322)
632418.97	4175552.92	140.64390	(07021221)	631187.00	4175727.00	171.42030	(07013018)
631166.00	4175729.00	166.37646	(05021923)	631121.00	4175719.00	153.69890	(07120404)
631035.00	4174830.00	133.78086	(06121421)	631106.00	4174825.00	136.62677	(04012317)
631937.00	4174528.00	151.47965	(04122824)	631322.00	4174522.00	88.38367	(04022923)
629800.63	4173850.44	26.14397	(04041824)	630150.63	4173850.44	27.03558	(06041020)
630500.63	4173850.44	31.23817	(08121017)	630850.63	4173850.44	44.96646	(04101605)
631200.63	4173850.44	34.43300	(07100818)	631550.63	4173850.44	50.93816	(05122422)
631900.63	4173850.44	50.58139	(04102623)	632250.63	4173850.44	69.69836	(04022218)
632600.63	4173850.44	74.54891	(04122822)	632950.63	4173850.44	65.71063	(05011520)
633300.63	4173850.44	46.55520	(06122122)	629800.63	4174200.44	34.13624	(05072102)
630150.63	4174200.44	41.60504	(05122619)	630500.63	4174200.44	60.26908	(04012317)
630850.63	4174200.44	64.37566	(06011109)	631200.63	4174200.44	61.68046	(04022923)

631550.63	4174200.44	87.21146	(05050803)	631900.63	4174200.44	110.60798	(07012317)
632250.63	4174200.44	98.67958	(06020105)	632600.63	4174200.44	92.28774	(05011521)
632950.63	4174200.44	68.95307	(06122122)	633300.63	4174200.44	49.97051	(06011617)
629800.63	4174550.44	50.66996	(07111023)	630150.63	4174550.44	65.64396	(06120217)
630500.63	4174550.44	74.35172	(04101819)	630850.63	4174550.44	99.20270	(04012317)
631200.63	4174550.44	136.34824	(05012117)	631550.63	4174550.44	131.09133	(06121420)
631900.63	4174550.44	158.74508	(07020623)	632250.63	4174550.44	134.30318	(05020818)
632600.63	4174550.44	102.33395	(06122122)	632950.63	4174550.44	79.22118	(06011617)
633300.63	4174550.44	42.93768	(06012018)	629800.63	4174900.44	57.16552	(06041224)
630150.63	4174900.44	95.13184	(06020109)	630500.63	4174900.44	115.94564	(06020109)
630850.63	4174900.44	140.79559	(07020624)	631200.63	4174900.44	158.16075	(04110819)
631550.63	4174900.44	264.15896	(08022002)	631900.63	4174900.44	234.00270	(07011417)
632250.63	4174900.44	117.94915	(07122717)	632600.63	4174900.44	82.53007	(05020801)
632950.63	4174900.44	62.05885	(06022418)	633300.63	4174900.44	47.82416	(04022222)
629800.63	4175250.44	58.97393	(06032819)	630150.63	4175250.44	76.32227	(06051906)
630500.63	4175250.44	105.72659	(08012221)	630850.63	4175250.44	170.21535	(04022207)
631200.63	4175250.44	310.69695	(06020109)	631550.63	4175250.44	561.84126	(05012117)
631900.63	4175250.44	379.01140	(04022018)	632250.63	4175250.44	174.68571	(04022222)
632600.63	4175250.44	102.33520	(05011606)	632950.63	4175250.44	69.06272	(08011020)
633300.63	4175250.44	50.11143	(05122420)	629800.63	4175600.44	57.97894	(05122618)
630150.63	4175600.44	64.88771	(06101118)	630500.63	4175600.44	95.07341	(07020701)
630850.63	4175600.44	163.75916	(06011024)	631200.63	4175600.44	213.06002	(07120621)
631550.63	4175600.44	555.07866	(04120903)	631900.63	4175600.44	514.51205	(08021808)
632250.63	4175600.44	184.13338	(05011419)	632600.63	4175600.44	106.43097	(04121118)
632950.63	4175600.44	69.38375	(07011318)	633300.63	4175600.44	52.21646	(06121322)
629800.63	4175950.44	52.67862	(05030324)	630150.63	4175950.44	69.35543	(04041820)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	94.91815	(07120622)	630850.63	4175950.44	95.12069	(07013018)
631200.63	4175950.44	144.68678	(04120902)	631550.63	4175950.44	252.99533	(08011009)
631900.63	4175950.44	216.40200	(08121603)	632250.63	4175950.44	153.71426	(08021908)
632600.63	4175950.44	90.44013	(04121104)	632950.63	4175950.44	65.08190	(07010308)
633300.63	4175950.44	48.55607	(06012919)	629800.63	4176300.44	51.84508	(07120622)
630150.63	4176300.44	53.21015	(06122121)	630500.63	4176300.44	55.03373	(06022523)
630850.63	4176300.44	74.22559	(04120902)	631200.63	4176300.44	107.96265	(05011001)
631550.63	4176300.44	126.19004	(07122906)	631900.63	4176300.44	136.18736	(07091007)
632250.63	4176300.44	99.99432	(07013019)	632600.63	4176300.44	82.38468	(08021908)
632950.63	4176300.44	59.98649	(04121907)	633300.63	4176300.44	52.15687	(08031008)
629800.63	4176650.44	40.71322	(06122121)	630150.63	4176650.44	38.87005	(07120403)
630500.63	4176650.44	47.13523	(04120902)	630850.63	4176650.44	56.84055	(05022705)

631200.63	4176650.44	75.35574	(06021720)	631550.63	4176650.44	81.27459	(06012804)
631900.63	4176650.44	81.73615	(05121701)	632250.63	4176650.44	72.05094	(08121602)
632600.63	4176650.44	60.55408	(07022408)	632950.63	4176650.44	52.06889	(08021908)
633300.63	4176650.44	42.19775	(08021808)	629800.63	4177000.44	27.68168	(05021308)
630150.63	4177000.44	33.32350	(04120902)	630500.63	4177000.44	38.41657	(05022703)
630850.63	4177000.44	51.27225	(05011001)	631200.63	4177000.44	55.65494	(07021207)
631550.63	4177000.44	59.33581	(05121702)	631900.63	4177000.44	57.90262	(07121904)
632250.63	4177000.44	64.83819	(07091007)	632600.63	4177000.44	47.57835	(08121001)
632950.63	4177000.44	43.14827	(07022408)	633300.63	4177000.44	36.64438	(08021908)
629800.63	4177350.44	25.26645	(04120902)	630150.63	4177350.44	28.50132	(05021421)
630500.63	4177350.44	31.10765	(06012819)	630850.63	4177350.44	40.08107	(07122907)
631200.63	4177350.44	45.91972	(08011009)	631550.63	4177350.44	44.72155	(08122907)
631900.63	4177350.44	44.86288	(05022220)	632250.63	4177350.44	75.55880	(07091007)
632600.63	4177350.44	38.71666	(06121919)	632950.63	4177350.44	34.44091	(07013019)
633300.63	4177350.44	30.24484	(07022408)	631670.70	4175493.59	0.00000	(00000000)
631669.80	4175641.41	654.90586	(08011009)	631665.32	4175796.39	351.98316	(08122907)
631417.17	4175826.85	232.85744	(07121206)	631417.17	4175673.66	311.77033	(07120403)
631422.55	4175484.63	385.25747	(05122618)	631268.42	4175983.74	149.67881	(05021421)
631275.69	4175523.99	306.56903	(06011024)	631345.65	4175419.50	380.89179	(04121304)
631384.72	4175441.30	369.46623	(04121304)	631491.93	4175442.21	576.83042	(04121304)
631491.93	4175414.95	557.36542	(04022207)	631385.63	4175413.14	407.61603	(04121304)
631358.37	4175395.87	372.47191	(04022207)	631409.25	4175336.81	437.73452	(06121217)
631567.35	4175235.96	609.15803	(05012117)	631756.33	4175028.80	352.65154	(07012317)
631807.22	4175003.36	295.15182	(07011417)	631867.18	4174987.91	276.61035	(07011417)
631849.92	4175988.28	210.28725	(07020606)	631268.74	4175963.75	154.21900	(06021721)
631269.05	4175943.76	158.07041	(06021721)	631269.37	4175923.77	158.17732	(06021721)
631269.68	4175903.78	166.84776	(05122923)	631270.00	4175883.79	172.42494	(05122923)
631270.32	4175863.81	177.37984	(04120901)	631270.63	4175843.82	181.67693	(05022704)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	187.08354	(05022704)	631271.26	4175803.84	188.95425	(07012618)
631271.58	4175783.85	197.96824	(07120403)	631271.90	4175763.86	199.45939	(07120403)
631272.21	4175743.87	207.76450	(06022523)	631272.53	4175723.88	211.11587	(06022523)
631272.85	4175703.89	218.04314	(07013018)	631273.16	4175683.90	215.50922	(07013018)
631273.48	4175663.91	217.71255	(05021923)	631273.79	4175643.92	220.71765	(07120622)
631274.11	4175623.94	227.01875	(07020707)	631274.43	4175603.95	230.39595	(07120621)
631274.74	4175583.96	229.50980	(07120621)	631275.06	4175563.97	283.58474	(06011024)
631275.37	4175543.98	307.29217	(06011024)	631285.68	4175509.06	297.94555	(06011024)
631295.68	4175494.14	311.65152	(05122618)	631305.67	4175479.21	336.95589	(05122618)
631315.67	4175464.28	348.40345	(05122618)	631325.66	4175449.35	370.78373	(04121304)

631335.66	4175434.43	383.21971	(04121304)	631358.67	4175426.77	407.19434	(04121304)
631371.70	4175434.03	425.91529	(04121304)	631402.59	4175441.45	395.08593	(04121304)
631420.46	4175441.60	423.15056	(04121304)	631438.33	4175441.76	454.37199	(04121304)
631456.19	4175441.91	489.67887	(04121304)	631474.06	4175442.06	530.10036	(04121304)
631491.93	4175428.58	550.70791	(04121304)	631474.21	4175414.65	507.39129	(08012221)
631456.50	4175414.35	473.52213	(08012221)	631438.78	4175414.05	442.31806	(08012221)
631421.06	4175413.74	412.61951	(08012221)	631403.35	4175413.44	384.58839	(08012221)
631372.00	4175404.51	380.70325	(08012221)	631371.09	4175381.11	414.08912	(04022207)
631383.81	4175366.34	425.12223	(04022207)	631396.53	4175351.58	404.11992	(04022207)
631425.06	4175326.73	448.01445	(06121217)	631440.87	4175316.64	460.61722	(04011017)
631456.68	4175306.56	486.00479	(04011017)	631472.49	4175296.47	472.27874	(04011017)
631488.30	4175286.39	481.34152	(06121421)	631504.11	4175276.30	479.30159	(06121421)
631519.92	4175266.22	461.13001	(07121217)	631535.73	4175256.13	514.72198	(07011517)
631551.54	4175246.05	567.64056	(05012117)	631579.95	4175222.15	580.35131	(05012117)
631592.55	4175208.34	506.30550	(05012117)	631605.15	4175194.53	468.33897	(08022002)
631617.74	4175180.72	485.84977	(08022002)	631630.34	4175166.91	464.57349	(08022002)
631642.94	4175153.10	456.31235	(06121420)	631655.54	4175139.29	421.83396	(06121420)
631668.14	4175125.47	380.00329	(05122422)	631680.74	4175111.66	359.21535	(05021805)
631693.34	4175097.85	367.19315	(05021805)	631705.94	4175084.04	360.00997	(05021805)
631718.53	4175070.23	368.39057	(07012317)	631731.13	4175056.42	372.45806	(07012317)
631743.73	4175042.61	365.59612	(07012317)	631773.29	4175020.32	325.34419	(07012317)
631790.26	4175011.84	291.28874	(07020623)	631822.21	4174999.50	307.65144	(07011417)
631837.20	4174995.64	308.13252	(07011417)	631852.19	4174991.77	297.01285	(07011417)
631866.84	4175007.53	283.16662	(07011417)	631866.50	4175027.14	282.71105	(06020105)
631866.16	4175046.76	244.06198	(05010319)	631865.83	4175066.37	253.25943	(05010319)
631865.49	4175085.99	265.03792	(05021803)	631865.15	4175105.60	281.30269	(05021803)
631864.81	4175125.22	294.13953	(05021803)	631864.47	4175144.83	306.69136	(04122822)
631864.13	4175164.45	321.63145	(05020818)	631863.80	4175184.06	336.83567	(05020818)
631863.46	4175203.68	358.99754	(05011521)	631863.12	4175223.29	381.84882	(05011521)
631862.78	4175242.91	404.10882	(05011520)	631862.44	4175262.52	441.15020	(04022018)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	465.27863	(04022018)	631861.77	4175301.75	506.60443	(06011617)
631861.43	4175321.37	569.16601	(06011617)	631861.09	4175340.98	598.60913	(06011617)
631860.75	4175360.60	586.26214	(06011617)	631860.41	4175380.21	592.21710	(07010217)
631860.07	4175399.83	645.26464	(07010217)	631859.73	4175419.44	633.47332	(07010217)
631859.40	4175439.06	645.95847	(05121217)	631859.06	4175458.67	656.75193	(06011619)
631858.72	4175478.29	651.00229	(07012418)	631858.38	4175497.90	638.38593	(07120624)
631858.04	4175517.52	623.22722	(05122401)	631857.70	4175537.13	599.16854	(05011818)
631857.37	4175556.75	642.94736	(08021808)	631857.03	4175576.36	640.35956	(08021808)

631856.69	4175595.98	602.98907	(08021908)	631856.35	4175615.59	582.87540	(08021908)
631856.01	4175635.21	531.28688	(08021908)	631855.67	4175654.82	515.65591	(07022408)
631855.33	4175674.44	485.25848	(07022408)	631855.00	4175694.05	439.11456	(07022408)
631854.66	4175713.67	387.19369	(04121823)	631854.32	4175733.28	369.19278	(08121001)
631853.98	4175752.90	350.18258	(06011005)	631853.64	4175772.51	334.98181	(06011005)
631853.30	4175792.13	320.03626	(06121919)	631852.97	4175811.74	305.55808	(08121602)
631852.63	4175831.36	291.54676	(08121603)	631852.29	4175850.97	279.07375	(08121603)
631851.95	4175870.59	263.51593	(08121603)	631851.61	4175890.20	252.06105	(08121403)
631851.27	4175909.82	244.97032	(08121403)	631850.94	4175929.43	236.12734	(08121403)
631850.60	4175949.05	226.90227	(07020605)	631850.26	4175968.66	218.24385	(07020606)
631830.54	4175988.13	211.42161	(08011408)	631811.15	4175987.98	214.04171	(06021702)
631791.77	4175987.83	216.43709	(05121701)	631772.39	4175987.67	217.93122	(05121701)
631753.00	4175987.52	221.67947	(07121904)	631733.62	4175987.37	222.83994	(07020803)
631714.24	4175987.22	224.26423	(08122707)	631694.85	4175987.07	224.70944	(07122818)
631675.47	4175986.92	221.62707	(05121504)	631656.09	4175986.77	219.44903	(08122907)
631636.70	4175986.62	219.48539	(06012804)	631617.32	4175986.46	216.41376	(07122906)
631597.94	4175986.31	217.72965	(07021108)	631578.55	4175986.16	233.26017	(08011009)
631559.17	4175986.01	240.06103	(08011009)	631539.79	4175985.86	232.98153	(08011009)
631520.40	4175985.71	213.49314	(08011009)	631501.02	4175985.56	209.50563	(06020123)
631481.64	4175985.40	206.68104	(06021720)	631462.25	4175985.25	205.10730	(07122907)
631442.87	4175985.10	202.03097	(05122622)	631423.49	4175984.95	198.26862	(06122519)
631404.10	4175984.80	195.64600	(07012805)	631384.72	4175984.65	191.34968	(05011001)
631365.34	4175984.50	178.59605	(05011001)	631345.95	4175984.35	162.58882	(07122917)
631326.57	4175984.19	158.95678	(05022705)	631307.19	4175984.04	156.47674	(07121206)
631287.80	4175983.89	153.07746	(05022703)	631050.63	4175100.50	191.41842	(06120217)
631050.63	4175200.50	287.77711	(06020109)	631050.63	4175300.50	223.12303	(04022207)
631050.63	4175400.50	221.57348	(04121304)	631050.63	4175500.50	212.55475	(05122618)
631050.63	4175600.50	195.25944	(06011024)	631050.63	4175700.50	184.88295	(07120622)
631050.63	4175800.50	152.51087	(06122121)	631050.63	4175900.50	125.40811	(06022523)
631050.63	4176000.50	113.70422	(07012618)	631050.63	4176100.50	104.68650	(04120902)
631150.63	4175100.50	225.47624	(04011017)	631150.63	4175200.50	236.57579	(06020109)
631150.63	4175300.50	283.66383	(06020109)	631150.63	4175400.50	245.62069	(04121304)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	235.01113	(05122618)	631150.63	4175600.50	203.20164	(06011024)
631150.63	4175700.50	162.64923	(07120404)	631150.63	4175800.50	156.98014	(06022523)
631150.63	4175900.50	140.79639	(07120403)	631150.63	4176000.50	128.83826	(04120902)
631150.63	4176100.50	115.07916	(06021721)	631250.63	4175100.50	243.73596	(06121421)
631250.63	4175200.50	281.23965	(04011017)	631250.63	4175300.50	349.80666	(06020109)
631250.63	4175400.50	283.07031	(04121304)	631250.63	4175500.50	278.35330	(05122618)

631250.63	4175600.50	246.16833	(07120621)	631250.63	4175700.50	204.42048	(07013018)
631250.63	4175800.50	187.33086	(07120403)	631250.63	4175900.50	164.19366	(04120902)
631250.63	4176000.50	143.76627	(05021421)	631250.63	4176100.50	124.93322	(05022705)
631350.63	4175100.50	231.98699	(06011022)	631350.63	4175200.50	295.34601	(06121421)
631350.63	4175300.50	363.62283	(06121217)	631350.63	4175400.50	359.15534	(08012221)
631350.63	4175500.50	301.20127	(07020701)	631350.63	4175600.50	284.69265	(07120622)
631350.63	4175700.50	253.50733	(04021520)	631350.63	4175800.50	220.07920	(05122923)
631350.63	4175900.50	186.84807	(05022703)	631350.63	4176000.50	168.04366	(05011001)
631350.63	4176100.50	156.28286	(07012805)	631450.63	4175100.50	349.02877	(07011517)
631450.63	4175200.50	324.61408	(06121421)	631450.63	4175300.50	473.32637	(04011017)
631450.63	4175400.50	461.34874	(04022207)	631450.63	4175500.50	444.44826	(06011024)
631450.63	4175600.50	390.46162	(06122121)	631450.63	4175700.50	319.17801	(05122923)
631450.63	4175800.50	257.14900	(05022705)	631450.63	4175900.50	237.76959	(07012805)
631450.63	4176000.50	197.38512	(07122907)	631450.63	4176100.50	164.31238	(06020123)
631550.63	4175100.50	353.58283	(06011021)	631550.63	4175200.50	541.48787	(05012117)
631550.63	4175300.50	474.99731	(07011517)	631550.63	4175400.50	746.71708	(06121217)
631550.63	4175500.50	718.44648	(07120622)	631550.63	4175600.50	554.99750	(04120903)
631550.63	4175700.50	433.74987	(05011001)	631550.63	4175800.50	327.67755	(06021720)
631550.63	4175900.50	269.94846	(08011009)	631550.63	4176000.50	232.39338	(08011009)
631550.63	4176100.50	185.67018	(08011009)	631650.63	4175100.50	386.25688	(06121420)
631650.63	4175200.50	531.55528	(06121420)	631650.63	4175300.50	723.70441	(08022002)
631650.63	4175400.50	0.00000	(00000000)	631650.63	4175500.50	0.00000	(00000000)
631650.63	4175600.50	889.99730	(08011009)	631650.63	4175700.50	520.99182	(08011009)
631650.63	4175800.50	346.94050	(06012804)	631650.63	4175900.50	266.49351	(05121702)
631650.63	4176000.50	213.87466	(08122907)	631650.63	4176100.50	175.15612	(08122907)
631750.63	4175100.50	347.02157	(07012317)	631750.63	4175200.50	455.07759	(07012317)
631750.63	4175300.50	720.80432	(07011417)	631750.63	4175400.50	0.00000	(00000000)
631750.63	4175500.50	0.00000	(00000000)	631750.63	4175600.50	748.26482	(06013004)
631750.63	4175700.50	475.77587	(05021302)	631750.63	4175800.50	346.83197	(05121701)
631750.63	4175900.50	266.58778	(07121904)	631750.63	4176000.50	215.59138	(07121904)
631750.63	4176100.50	177.26208	(07020803)	631850.63	4175100.50	280.03398	(05010319)
631850.63	4175200.50	363.79994	(05020818)	631850.63	4175300.50	503.04822	(04022018)
631850.63	4175400.50	677.60200	(07010217)	631850.63	4175500.50	664.58798	(05122401)
631850.63	4175600.50	618.97418	(08021908)	631850.63	4175700.50	416.33290	(07022408)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

631850.63	4175800.50	314.73019	(08121602)	631850.63	4175900.50	249.13632	(08121403)
631850.63	4176000.50	204.83756	(07020606)	631850.63	4176100.50	169.88073	(08011408)
631950.63	4175100.50	242.25230	(05021802)	631950.63	4175200.50	299.09929	(04022018)
631950.63	4175300.50	377.14823	(06011617)	631950.63	4175400.50	410.33145	(08011001)

631950.63	4175500.50	421.68662	(06121320)	631950.63	4175600.50	389.43186	(07121419)
631950.63	4175700.50	372.59069	(08021908)	631950.63	4175800.50	296.06571	(07022408)
631950.63	4175900.50	224.65102	(08121001)	631950.63	4176000.50	189.36476	(06121919)
631950.63	4176100.50	157.97334	(08121603)	632050.63	4175100.50	204.31129	(04022018)
632050.63	4175200.50	273.63244	(06011617)	632050.63	4175300.50	274.52189	(05021801)
632050.63	4175400.50	296.79531	(08011020)	632050.63	4175500.50	305.74564	(07021221)
632050.63	4175600.50	284.55194	(05122323)	632050.63	4175700.50	290.00193	(08021808)
632050.63	4175800.50	256.44578	(08021908)	632050.63	4175900.50	217.23265	(07022408)
632050.63	4176000.50	170.92707	(07013019)	632050.63	4176100.50	146.57460	(07121907)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	125.19569	(06011617)	632304.44	4174354.52	104.21945	(05011521)
632192.15	4174956.32	122.54509	(06011617)	632420.62	4175510.15	101.03975	(06121322)
632418.97	4175552.92	103.41040	(06121322)	631187.00	4175727.00	266.45627	(05022704)
631166.00	4175729.00	251.86515	(07012618)	631121.00	4175719.00	233.46740	(06022523)
631035.00	4174830.00	182.99493	(07121217)	631106.00	4174825.00	196.31508	(07011517)
631937.00	4174528.00	125.30269	(04022318)	631322.00	4174522.00	99.67546	(05021806)
629800.63	4173850.44	25.78750	(06120517)	630150.63	4173850.44	20.28349	(08121017)
630500.63	4173850.44	36.61803	(07122718)	630850.63	4173850.44	54.30010	(06102817)
631200.63	4173850.44	48.97772	(05021806)	631550.63	4173850.44	64.38080	(05021805)
631900.63	4173850.44	47.26468	(05112422)	632250.63	4173850.44	61.66544	(04022318)
632600.63	4173850.44	66.65414	(05011521)	632950.63	4173850.44	59.24739	(04022018)
633300.63	4173850.44	37.36918	(07012702)	629800.63	4174200.44	36.88151	(05122619)
630150.63	4174200.44	46.30787	(06120517)	630500.63	4174200.44	54.87846	(08121017)
630850.63	4174200.44	64.97036	(05030118)	631200.63	4174200.44	63.61313	(07100818)
631550.63	4174200.44	104.93461	(05021805)	631900.63	4174200.44	118.92264	(07011417)
632250.63	4174200.44	97.62642	(05020818)	632600.63	4174200.44	79.01425	(04022018)
632950.63	4174200.44	51.02035	(07012702)	633300.63	4174200.44	34.12262	(06011617)
629800.63	4174550.44	50.65803	(04022118)	630150.63	4174550.44	72.08245	(07020624)
630500.63	4174550.44	95.06909	(06121421)	630850.63	4174550.44	117.68411	(07121217)
631200.63	4174550.44	125.99018	(05050802)	631550.63	4174550.44	144.30297	(04122823)
631900.63	4174550.44	136.26608	(06020105)	632250.63	4174550.44	106.54328	(05011520)
632600.63	4174550.44	77.66326	(07021118)	632950.63	4174550.44	44.60971	(04021501)
633300.63	4174550.44	37.77278	(04022221)	629800.63	4174900.44	81.62156	(06020109)
630150.63	4174900.44	85.98748	(06020109)	630500.63	4174900.44	119.65270	(06120217)
630850.63	4174900.44	169.96258	(06121421)	631200.63	4174900.44	264.64575	(05012117)
631550.63	4174900.44	284.01410	(07012317)	631900.63	4174900.44	145.21392	(05021802)
632250.63	4174900.44	109.71050	(06011617)	632600.63	4174900.44	72.08912	(04022221)
632950.63	4174900.44	50.14560	(04022222)	633300.63	4174900.44	49.29364	(06100508)
629800.63	4175250.44	65.81142	(06051906)	630150.63	4175250.44	87.26342	(08012221)

630500.63	4175250.44	119.37080	(04022207)	630850.63	4175250.44	287.46744	(06020109)
631200.63	4175250.44	366.76118	(04011017)	631550.63	4175250.44	569.16736	(07011417)
631900.63	4175250.44	235.56003	(04022221)	632250.63	4175250.44	126.25669	(04010924)
632600.63	4175250.44	80.28511	(06121504)	632950.63	4175250.44	55.94897	(08011020)
633300.63	4175250.44	42.65042	(07012218)	629800.63	4175600.44	61.04439	(05122618)
630150.63	4175600.44	77.28282	(07042002)	630500.63	4175600.44	122.21040	(06011024)
630850.63	4175600.44	207.70293	(06011024)	631200.63	4175600.44	321.59592	(05021923)
631550.63	4175600.44	747.62320	(06013004)	631900.63	4175600.44	250.90534	(05121218)
632250.63	4175600.44	130.54360	(06020205)	632600.63	4175600.44	82.55554	(07021221)
632950.63	4175600.44	57.79499	(06121322)	633300.63	4175600.44	44.30021	(06121322)
629800.63	4175950.44	54.85938	(05040705)	630150.63	4175950.44	77.00090	(07120622)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	93.93849	(05021923)	630850.63	4175950.44	120.74844	(07120403)
631200.63	4175950.44	203.06774	(05011001)	631550.63	4175950.44	238.63081	(07121904)
631900.63	4175950.44	187.24829	(07022408)	632250.63	4175950.44	114.43001	(04120904)
632600.63	4175950.44	73.70545	(06122321)	632950.63	4175950.44	54.67359	(05121218)
633300.63	4175950.44	41.80388	(05011419)	629800.63	4176300.44	49.41336	(05021923)
630150.63	4176300.44	49.47996	(07013018)	630500.63	4176300.44	65.29656	(07012618)
630850.63	4176300.44	85.74214	(05022703)	631200.63	4176300.44	120.57922	(06020123)
631550.63	4176300.44	128.63603	(06011704)	631900.63	4176300.44	109.90500	(06121919)
632250.63	4176300.44	85.92031	(04121902)	632600.63	4176300.44	67.27369	(08021808)
632950.63	4176300.44	51.18637	(08031008)	633300.63	4176300.44	40.25374	(08031008)
629800.63	4176650.44	34.43296	(06022523)	630150.63	4176650.44	43.36245	(05022704)
630500.63	4176650.44	52.34739	(06021721)	630850.63	4176650.44	72.12077	(07012805)
631200.63	4176650.44	85.40257	(08011009)	631550.63	4176650.44	83.34694	(08122707)
631900.63	4176650.44	93.55714	(07091007)	632250.63	4176650.44	64.35902	(04121823)
632600.63	4176650.44	53.73630	(07021107)	632950.63	4176650.44	43.53681	(08121003)
633300.63	4176650.44	36.76525	(04120904)	629800.63	4177000.44	31.12407	(05022704)
630150.63	4177000.44	35.53450	(06021721)	630500.63	4177000.44	41.63328	(06011018)
630850.63	4177000.44	54.26602	(07122907)	631200.63	4177000.44	57.26379	(08021905)
631550.63	4177000.44	60.43483	(06122002)	631900.63	4177000.44	87.92075	(07091007)
632250.63	4177000.44	50.35888	(06121919)	632600.63	4177000.44	43.72133	(08022124)
632950.63	4177000.44	37.44384	(07021107)	633300.63	4177000.44	32.23500	(08121003)
629800.63	4177350.44	24.98431	(06021721)	630150.63	4177350.44	30.37449	(05022705)
630500.63	4177350.44	38.12394	(07012805)	630850.63	4177350.44	42.28378	(06020123)
631200.63	4177350.44	43.59738	(07122906)	631550.63	4177350.44	45.62901	(06122002)
631900.63	4177350.44	56.85009	(07091007)	632250.63	4177350.44	38.82417	(08121603)
632600.63	4177350.44	36.00294	(04102908)	632950.63	4177350.44	31.94394	(04021405)
633300.63	4177350.44	28.27935	(08120923)	631670.70	4175493.59	602.32020	(05012018)

631669.80	4175641.41	511.80069	(08021908)	631665.32	4175796.39	310.16483	(06011005)
631417.17	4175826.85	344.85524	(08011009)	631417.17	4175673.66	578.34404	(08011009)
631422.55	4175484.63	0.00000	(00000000)	631268.42	4175983.74	205.84359	(07122907)
631275.69	4175523.99	456.19529	(07120621)	631345.65	4175419.50	751.07174	(04022207)
631384.72	4175441.30	1014.06210	(04121304)	631491.93	4175442.21	0.00000	(00000000)
631491.93	4175414.95	0.00000	(00000000)	631385.63	4175413.14	954.02765	(06121217)
631358.37	4175395.87	767.10785	(06121217)	631409.25	4175336.81	870.09416	(05012117)
631567.35	4175235.96	522.96257	(07011417)	631756.33	4175028.80	207.82254	(05122303)
631807.22	4175003.36	186.10889	(06020318)	631867.18	4174987.91	169.56978	(05122304)
631849.92	4175988.28	174.36448	(07013019)	631268.74	4175963.75	213.31703	(07122907)
631269.05	4175943.76	220.87462	(05122622)	631269.37	4175923.77	230.76216	(05122622)
631269.68	4175903.78	240.37192	(06122519)	631270.00	4175883.79	249.01476	(07012805)
631270.32	4175863.81	260.79199	(07012805)	631270.63	4175843.82	271.47494	(05011001)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	278.47801	(05011001)	631271.26	4175803.84	280.28970	(05011001)
631271.58	4175783.85	281.35888	(07122917)	631271.90	4175763.86	287.98021	(05022705)
631272.21	4175743.87	305.17847	(04120908)	631272.53	4175723.88	316.45289	(04120908)
631272.85	4175703.89	332.48398	(04120903)	631273.16	4175683.90	348.10364	(04120903)
631273.48	4175663.91	363.87330	(04120901)	631273.79	4175643.92	387.10539	(04021521)
631274.11	4175623.94	398.75457	(07120403)	631274.43	4175603.95	424.44092	(04021520)
631274.74	4175583.96	437.11959	(06122121)	631275.06	4175563.97	436.65252	(06122121)
631275.37	4175543.98	465.10224	(07120622)	631285.68	4175509.06	501.74552	(06011024)
631295.68	4175494.14	545.08375	(06011024)	631305.67	4175479.21	568.20236	(06011024)
631315.67	4175464.28	625.74731	(04121304)	631325.66	4175449.35	686.88373	(04121304)
631335.66	4175434.43	704.07996	(04121304)	631358.67	4175426.77	818.04908	(04022207)
631371.70	4175434.03	900.01612	(04022207)	631402.59	4175441.45	0.00000	(00000000)
631420.46	4175441.60	0.00000	(00000000)	631438.33	4175441.76	0.00000	(00000000)
631456.19	4175441.91	0.00000	(00000000)	631474.06	4175442.06	0.00000	(00000000)
631491.93	4175428.58	0.00000	(00000000)	631474.21	4175414.65	0.00000	(00000000)
631456.50	4175414.35	0.00000	(00000000)	631438.78	4175414.05	0.00000	(00000000)
631421.06	4175413.74	0.00000	(00000000)	631403.35	4175413.44	0.00000	(00000000)
631372.00	4175404.51	852.96375	(06121217)	631371.09	4175381.11	777.28261	(04011017)
631383.81	4175366.34	741.82115	(06121421)	631396.53	4175351.58	784.53081	(05012117)
631425.06	4175326.73	888.48688	(05012117)	631440.87	4175316.64	809.82260	(05012117)
631456.68	4175306.56	746.50904	(08022002)	631472.49	4175296.47	707.30322	(06121420)
631488.30	4175286.39	680.28715	(07012317)	631504.11	4175276.30	690.37582	(07012317)
631519.92	4175266.22	658.64094	(07012317)	631535.73	4175256.13	594.36371	(07012317)
631551.54	4175246.05	557.34831	(07011417)	631579.95	4175222.15	478.41471	(07011417)
631592.55	4175208.34	432.14697	(07011417)	631605.15	4175194.53	388.29770	(07011417)

631617.74	4175180.72	358.15254	(05021803)	631630.34	4175166.91	342.64168	(05021803)
631642.94	4175153.10	325.04942	(05021803)	631655.54	4175139.29	308.09017	(05021803)
631668.14	4175125.47	290.21503	(05021803)	631680.74	4175111.66	274.28545	(04122822)
631693.34	4175097.85	260.08184	(04122822)	631705.94	4175084.04	247.90065	(05122303)
631718.53	4175070.23	237.69316	(05122303)	631731.13	4175056.42	227.58593	(05122303)
631743.73	4175042.61	217.67514	(05122303)	631773.29	4175020.32	195.69008	(05122303)
631790.26	4175011.84	191.78088	(06020318)	631822.21	4174999.50	183.00334	(05021802)
631837.20	4174995.64	179.78448	(05021802)	631852.19	4174991.77	174.66139	(07020622)
631866.84	4175007.53	176.24670	(05122304)	631866.50	4175027.14	180.06962	(04022018)
631866.16	4175046.76	189.42509	(04022018)	631865.83	4175066.37	194.49404	(04022018)
631865.49	4175085.99	194.76329	(04022018)	631865.15	4175105.60	204.62720	(07012702)
631864.81	4175125.22	211.56708	(07012702)	631864.47	4175144.83	226.93489	(06011617)
631864.13	4175164.45	247.43600	(06011617)	631863.80	4175184.06	259.51184	(06011617)
631863.46	4175203.68	261.12093	(06011617)	631863.12	4175223.29	251.40739	(06011617)
631862.78	4175242.91	252.90980	(06012018)	631862.44	4175262.52	260.46517	(06120617)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	263.32488	(04022221)	631861.77	4175301.75	264.85105	(05021801)
631861.43	4175321.37	282.24705	(07010217)	631861.09	4175340.98	290.73300	(07010217)
631860.75	4175360.60	281.43631	(04010924)	631860.41	4175380.21	284.34983	(05011606)
631860.07	4175399.83	286.83034	(08011020)	631859.73	4175419.44	290.01316	(05121217)
631859.40	4175439.06	289.00652	(07021102)	631859.06	4175458.67	295.58729	(06011619)
631858.72	4175478.29	297.05893	(06121322)	631858.38	4175497.90	296.31089	(06121322)
631858.04	4175517.52	296.75583	(06011620)	631857.70	4175537.13	293.90163	(04021505)
631857.37	4175556.75	290.12422	(05011419)	631857.03	4175576.36	284.35754	(05121218)
631856.69	4175595.98	280.37870	(07010308)	631856.35	4175615.59	274.66925	(06012821)
631856.01	4175635.21	267.61270	(04121105)	631855.67	4175654.82	270.59181	(07121419)
631855.33	4175674.44	274.93281	(07121419)	631855.00	4175694.05	280.30088	(08021808)
631854.66	4175713.67	284.97867	(08021808)	631854.32	4175733.28	275.99894	(08021808)
631853.98	4175752.90	255.36169	(08021808)	631853.64	4175772.51	259.22687	(08021908)
631853.30	4175792.13	258.13696	(08021908)	631852.97	4175811.74	247.93547	(08021908)
631852.63	4175831.36	230.11553	(08021908)	631852.29	4175850.97	213.84113	(07021107)
631851.95	4175870.59	219.19363	(07022408)	631851.61	4175890.20	219.04872	(07022408)
631851.27	4175909.82	213.44193	(07022408)	631850.94	4175929.43	203.25764	(07022408)
631850.60	4175949.05	189.46989	(07022408)	631850.26	4175968.66	179.76216	(05121624)
631830.54	4175988.13	177.15942	(04121823)	631811.15	4175987.98	181.64224	(08121001)
631791.77	4175987.83	185.26429	(07121907)	631772.39	4175987.67	189.50843	(06011005)
631753.00	4175987.52	192.79476	(06121919)	631733.62	4175987.37	196.40933	(08121602)
631714.24	4175987.22	199.85623	(08121603)	631694.85	4175987.07	197.30178	(08121603)
631675.47	4175986.92	205.93099	(08121403)	631656.09	4175986.77	208.62467	(07020606)

631636.70	4175986.62	211.82109	(08121604)	631617.32	4175986.46	214.16292	(08011408)
631597.94	4175986.31	216.90592	(06021702)	631578.55	4175986.16	219.03088	(05121701)
631559.17	4175986.01	220.59512	(07121904)	631539.79	4175985.86	222.11218	(07020803)
631520.40	4175985.71	223.90652	(08122707)	631501.02	4175985.56	224.82267	(07122818)
631481.64	4175985.40	224.52219	(05121504)	631462.25	4175985.25	218.83839	(08122724)
631442.87	4175985.10	220.17469	(05121702)	631423.49	4175984.95	217.61478	(06012804)
631404.10	4175984.80	219.03111	(07122906)	631384.72	4175984.65	228.73975	(08011009)
631365.34	4175984.50	239.68572	(08011009)	631345.95	4175984.35	236.65805	(08011009)
631326.57	4175984.19	220.53386	(08011009)	631307.19	4175984.04	210.83033	(06020123)
631287.80	4175983.89	205.87650	(06021720)	631050.63	4175100.50	242.19121	(06121421)
631050.63	4175200.50	280.96988	(04011017)	631050.63	4175300.50	350.81438	(06020109)
631050.63	4175400.50	289.05853	(04121304)	631050.63	4175500.50	282.99531	(05122618)
631050.63	4175600.50	218.23303	(07120621)	631050.63	4175700.50	203.54068	(07013018)
631050.63	4175800.50	186.88146	(07120403)	631050.63	4175900.50	164.17783	(04120902)
631050.63	4176000.50	143.60534	(05021421)	631050.63	4176100.50	125.01235	(05022705)
631150.63	4175100.50	232.39873	(06011022)	631150.63	4175200.50	291.93960	(06121421)
631150.63	4175300.50	358.11218	(06121217)	631150.63	4175400.50	327.49041	(08012221)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175500.50	301.38093	(07020701)	631150.63	4175600.50	284.36847	(07120622)
631150.63	4175700.50	253.81383	(04021520)	631150.63	4175800.50	219.48537	(05122923)
631150.63	4175900.50	185.79936	(05022703)	631150.63	4176000.50	167.26425	(05011001)
631150.63	4176100.50	155.06078	(07012805)	631250.63	4175100.50	347.82797	(07011517)
631250.63	4175200.50	322.26085	(06121421)	631250.63	4175300.50	381.11719	(04011017)
631250.63	4175400.50	460.55436	(04022207)	631250.63	4175500.50	441.52865	(06011024)
631250.63	4175600.50	389.05578	(06122121)	631250.63	4175700.50	319.05139	(05122923)
631250.63	4175800.50	255.13015	(05022705)	631250.63	4175900.50	237.38841	(07012805)
631250.63	4176000.50	196.61523	(07122907)	631250.63	4176100.50	162.53838	(06020123)
631350.63	4175100.50	355.63562	(06011021)	631350.63	4175200.50	536.84968	(05012117)
631350.63	4175300.50	481.79860	(07011517)	631350.63	4175400.50	738.83778	(06121217)
631350.63	4175500.50	715.84202	(07120622)	631350.63	4175600.50	555.04090	(04120903)
631350.63	4175700.50	433.34180	(05011001)	631350.63	4175800.50	327.25780	(06021720)
631350.63	4175900.50	269.55774	(08011009)	631350.63	4176000.50	231.62767	(08011009)
631350.63	4176100.50	184.95450	(08011009)	631450.63	4175100.50	384.52191	(06121420)
631450.63	4175200.50	450.05110	(06121420)	631450.63	4175300.50	714.79605	(08022002)
631450.63	4175400.50	0.00000	(00000000)	631450.63	4175500.50	0.00000	(00000000)
631450.63	4175600.50	889.28151	(08011009)	631450.63	4175700.50	519.90829	(08011009)
631450.63	4175800.50	345.98552	(06012804)	631450.63	4175900.50	265.89816	(05121702)
631450.63	4176000.50	213.44257	(08122907)	631450.63	4176100.50	175.95355	(08122907)
631550.63	4175100.50	347.29899	(07012317)	631550.63	4175200.50	450.30769	(07012317)

631550.63 4175300.50 712.94759 (07011417) 631550.63 4175400.50 0.00000 (00000000)
631550.63 4175500.50 0.00000 (00000000) 631550.63 4175600.50 747.39684 (06013004)
631550.63 4175700.50 474.27268 (05021302) 631550.63 4175800.50 345.63551 (05121701)
631550.63 4175900.50 265.69606 (07121904) 631550.63 4176000.50 215.19604 (07121904)
631550.63 4176100.50 177.39500 (07020803) 631650.63 4175100.50 278.02680 (05010319)
631650.63 4175200.50 361.40108 (05020818) 631650.63 4175300.50 503.59739 (04022018)
631650.63 4175400.50 677.48207 (07010217) 631650.63 4175500.50 664.44194 (05122401)
631650.63 4175600.50 618.21254 (08021908) 631650.63 4175700.50 415.36469 (07022408)
631650.63 4175800.50 313.70927 (08121602) 631650.63 4175900.50 247.71011 (08121403)
631650.63 4176000.50 204.41378 (07020606) 631650.63 4176100.50 170.36660 (08011408)
631750.63 4175100.50 242.47985 (05021802) 631750.63 4175200.50 298.91777 (04022018)
631750.63 4175300.50 374.81674 (06011617) 631750.63 4175400.50 409.62859 (08011001)
631750.63 4175500.50 421.62213 (06121320) 631750.63 4175600.50 388.89960 (07121419)
631750.63 4175700.50 372.45808 (08021908) 631750.63 4175800.50 295.42722 (07022408)
631750.63 4175900.50 223.93943 (08121001) 631750.63 4176000.50 189.17710 (06121919)
631750.63 4176100.50 158.67687 (08121603) 631850.63 4175100.50 204.49578 (04022018)
631850.63 4175200.50 271.69518 (06011617) 631850.63 4175300.50 272.37320 (05021801)
631850.63 4175400.50 294.79246 (08011020) 631850.63 4175500.50 304.52641 (07021221)
631850.63 4175600.50 283.00192 (05122323) 631850.63 4175700.50 288.26683 (08021808)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

631850.63 4175800.50 255.62466 (08021908) 631850.63 4175900.50 217.03412 (07022408)
631850.63 4176000.50 170.74227 (07013019) 631850.63 4176100.50 146.09018 (07121907)
631950.63 4175100.50 195.69180 (06011617) 631950.63 4175200.50 203.78235 (06012018)
631950.63 4175300.50 226.73175 (07010217) 631950.63 4175400.50 227.41560 (05122420)
631950.63 4175500.50 236.04559 (06121322) 631950.63 4175600.50 224.40701 (06012919)
631950.63 4175700.50 204.99110 (04121104) 631950.63 4175800.50 212.06253 (08021808)
631950.63 4175900.50 188.90185 (08021908) 631950.63 4176000.50 163.19998 (07022408)
631950.63 4176100.50 133.74734 (08022124) 632050.63 4175100.50 152.85765 (06011617)
632050.63 4175200.50 166.57795 (04022221) 632050.63 4175300.50 179.08941 (04022220)
632050.63 4175400.50 183.38258 (07012218) 632050.63 4175500.50 190.23816 (06121322)
632050.63 4175600.50 183.16890 (05011419) 632050.63 4175700.50 171.20811 (06122321)
632050.63 4175800.50 168.40744 (07121419) 632050.63 4175900.50 154.99223 (08021808)
632050.63 4176000.50 146.73400 (08021908) 632050.63 4176100.50 124.95838 (07022408)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
632121.21	4174952.36	235.57266	(06011617)	632304.44	4174354.52	134.60599	(05020818)
632192.15	4174956.32	207.70522	(06011617)	632420.62	4175510.15	140.83805	(07010308)
632418.97	4175552.92	137.58293	(06122321)	631187.00	4175727.00	135.73117	(07012618)
631166.00	4175729.00	130.44655	(07120403)	631121.00	4175719.00	125.67467	(07120403)
631035.00	4174830.00	175.31313	(04011017)	631106.00	4174825.00	180.11291	(07020624)
631937.00	4174528.00	195.43358	(05021804)	631322.00	4174522.00	101.46799	(07122718)
629800.63	4173850.44	23.67415	(05122619)	630150.63	4173850.44	28.18627	(04041824)
630500.63	4173850.44	28.77245	(06041020)	630850.63	4173850.44	56.50376	(06011109)
631200.63	4173850.44	44.23339	(04022923)	631550.63	4173850.44	65.45800	(05050803)
631900.63	4173850.44	57.76463	(04102623)	632250.63	4173850.44	76.31136	(05011817)
632600.63	4173850.44	84.63429	(05020818)	632950.63	4173850.44	62.57397	(04022018)
633300.63	4173850.44	46.82895	(07012702)	629800.63	4174200.44	37.94402	(04022118)
630150.63	4174200.44	43.37221	(05072102)	630500.63	4174200.44	64.06908	(06121421)
630850.63	4174200.44	66.85353	(04012317)	631200.63	4174200.44	66.75299	(05030118)
631550.63	4174200.44	110.07357	(06121420)	631900.63	4174200.44	141.26279	(07012317)
632250.63	4174200.44	106.62959	(04022318)	632600.63	4174200.44	101.83849	(05011520)
632950.63	4174200.44	67.83302	(07012702)	633300.63	4174200.44	40.75171	(06011617)
629800.63	4174550.44	81.87616	(06020109)	630150.63	4174550.44	66.90907	(06121217)
630500.63	4174550.44	91.09620	(06120217)	630850.63	4174550.44	99.87965	(04101819)
631200.63	4174550.44	139.78832	(07121217)	631550.63	4174550.44	146.66076	(08022002)
631900.63	4174550.44	204.80969	(07020623)	632250.63	4174550.44	168.13366	(05011521)
632600.63	4174550.44	110.34871	(06011617)	632950.63	4174550.44	60.13408	(06012018)
633300.63	4174550.44	46.55153	(06022418)	629800.63	4174900.44	53.09592	(08012221)
630150.63	4174900.44	60.48655	(04022207)	630500.63	4174900.44	150.36271	(06020109)
630850.63	4174900.44	242.21725	(06020109)	631200.63	4174900.44	222.17539	(04011017)
631550.63	4174900.44	406.58065	(05012117)	631900.63	4174900.44	276.71179	(05010319)
632250.63	4174900.44	181.29992	(06011617)	632600.63	4174900.44	98.83557	(06022418)
632950.63	4174900.44	74.92887	(06100508)	633300.63	4174900.44	65.27250	(06100508)
629800.63	4175250.44	54.87767	(08110217)	630150.63	4175250.44	74.94906	(05122618)
630500.63	4175250.44	99.29021	(05122618)	630850.63	4175250.44	149.56140	(04121304)
631200.63	4175250.44	250.51886	(04121304)	631550.63	4175250.44	594.94222	(04121304)
631900.63	4175250.44	690.65775	(06011619)	632250.63	4175250.44	208.46802	(06012822)
632600.63	4175250.44	112.91197	(04122902)	632950.63	4175250.44	73.49430	(04122902)
633300.63	4175250.44	52.55205	(04122902)	629800.63	4175600.44	64.81224	(06011024)
630150.63	4175600.44	78.44714	(06011024)	630500.63	4175600.44	86.08601	(05030324)
630850.63	4175600.44	135.67203	(07120622)	631200.63	4175600.44	156.30265	(06022523)
631550.63	4175600.44	311.06746	(05011001)	631900.63	4175600.44	312.71177	(08121602)
632250.63	4175600.44	190.56165	(08021808)	632600.63	4175600.44	104.33812	(05122323)
632950.63	4175600.44	70.72715	(05010918)	633300.63	4175600.44	52.44156	(04021505)
629800.63	4175950.44	49.05433	(07120621)	630150.63	4175950.44	73.58060	(07120622)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
630500.63	4175950.44	74.37227	(06122121)	630850.63	4175950.44	79.61186	(07120403)
631200.63	4175950.44	108.13188	(04020618)	631550.63	4175950.44	170.48705	(08011009)
631900.63	4175950.44	155.84358	(08011408)	632250.63	4175950.44	122.19675	(08022124)
632600.63	4175950.44	88.96093	(04011022)	632950.63	4175950.44	65.81299	(07121419)
633300.63	4175950.44	47.34648	(06122321)	629800.63	4176300.44	39.36114	(05021923)
630150.63	4176300.44	47.82509	(06022523)	630500.63	4176300.44	48.68635	(05021308)
630850.63	4176300.44	61.61322	(06021721)	631200.63	4176300.44	85.69865	(07012805)
631550.63	4176300.44	95.84175	(08021905)	631900.63	4176300.44	94.58788	(05121701)
632250.63	4176300.44	84.77684	(06121919)	632600.63	4176300.44	72.80483	(07022408)
632950.63	4176300.44	55.04867	(08121003)	633300.63	4176300.44	45.13652	(04121907)
629800.63	4176650.44	35.57472	(04021520)	630150.63	4176650.44	34.39979	(05022704)
630500.63	4176650.44	38.78657	(06021721)	630850.63	4176650.44	47.83380	(06011018)
631200.63	4176650.44	61.20851	(06021720)	631550.63	4176650.44	64.52643	(07122906)
631900.63	4176650.44	67.60936	(07121904)	632250.63	4176650.44	70.03389	(07091007)
632600.63	4176650.44	53.65493	(04121823)	632950.63	4176650.44	44.43265	(04121902)
633300.63	4176650.44	39.19906	(08021908)	629800.63	4177000.44	26.18290	(05022704)
630150.63	4177000.44	27.71234	(05122923)	630500.63	4177000.44	33.96227	(05022705)
630850.63	4177000.44	43.38818	(06122519)	631200.63	4177000.44	47.75390	(07021207)
631550.63	4177000.44	50.30242	(06012804)	631900.63	4177000.44	50.29182	(07020803)
632250.63	4177000.44	81.24895	(07091007)	632600.63	4177000.44	42.94429	(06121919)
632950.63	4177000.44	37.85985	(05121624)	633300.63	4177000.44	33.23663	(04121902)
629800.63	4177350.44	22.08910	(05122923)	630150.63	4177350.44	25.69553	(05022703)
630500.63	4177350.44	30.07028	(05011001)	630850.63	4177350.44	36.01734	(07122907)
631200.63	4177350.44	40.01901	(08011009)	631550.63	4177350.44	39.02639	(05121702)
631900.63	4177350.44	39.37044	(06011704)	632250.63	4177350.44	62.63224	(07091007)
632600.63	4177350.44	34.65784	(08121603)	632950.63	4177350.44	33.89305	(04102908)
633300.63	4177350.44	28.50958	(07010324)	631670.70	4175493.59	550.95322	(08011009)
631669.80	4175641.41	322.78811	(08011009)	631665.32	4175796.39	211.86809	(07122906)
631417.17	4175826.85	177.24767	(05011001)	631417.17	4175673.66	199.18626	(05022703)
631422.55	4175484.63	273.75638	(04021520)	631268.42	4175983.74	110.49529	(06011018)
631275.69	4175523.99	193.17061	(07013018)	631345.65	4175419.50	240.21138	(07120622)
631384.72	4175441.30	256.97026	(05021923)	631491.93	4175442.21	351.06726	(07120403)
631491.93	4175414.95	369.43631	(04021520)	631385.63	4175413.14	267.06597	(07120622)
631358.37	4175395.87	250.81123	(07120621)	631409.25	4175336.81	302.00653	(06011024)
631567.35	4175235.96	633.42544	(04121304)	631756.33	4175028.80	543.24377	(07012317)
631807.22	4175003.36	456.15378	(07011417)	631867.18	4174987.91	366.69502	(05021803)
631849.92	4175988.28	148.45150	(05121701)	631268.74	4175963.75	112.71606	(06011018)
631269.05	4175943.76	115.60700	(05022705)	631269.37	4175923.77	119.12379	(05022705)
631269.68	4175903.78	122.37978	(07121206)	631270.00	4175883.79	125.29641	(05022703)
631270.32	4175863.81	127.99550	(05022703)	631270.63	4175843.82	131.46002	(05021421)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631270.95	4175823.83	134.97562	(06021721)	631271.26	4175803.84	138.50304	(06021721)
631271.58	4175783.85	139.26911	(06021721)	631271.90	4175763.86	143.52694	(05122923)
631272.21	4175743.87	149.90839	(05122923)	631272.53	4175723.88	153.75755	(04120902)
631272.85	4175703.89	157.67205	(04120901)	631273.16	4175683.90	161.39792	(05022704)
631273.48	4175663.91	164.98894	(05022704)	631273.79	4175643.92	166.37782	(07012618)
631274.11	4175623.94	174.06875	(07120403)	631274.43	4175603.95	176.36727	(07120403)
631274.74	4175583.96	180.42067	(06022523)	631275.06	4175563.97	186.18336	(06022523)
631275.37	4175543.98	189.34370	(07013018)	631285.68	4175509.06	196.54470	(07013018)
631295.68	4175494.14	197.55740	(07013018)	631305.67	4175479.21	206.57479	(05021923)
631315.67	4175464.28	214.10238	(07120404)	631325.66	4175449.35	220.79148	(07120404)
631335.66	4175434.43	230.55377	(07120622)	631358.67	4175426.77	244.91337	(07120622)
631371.70	4175434.03	250.65719	(07120404)	631402.59	4175441.45	274.31545	(07013018)
631420.46	4175441.60	292.60963	(07013018)	631438.33	4175441.76	306.29239	(07013018)
631456.19	4175441.91	320.85804	(06022523)	631474.06	4175442.06	337.84234	(04021520)
631491.93	4175428.58	364.99490	(04021520)	631474.21	4175414.65	352.35385	(07013018)
631456.50	4175414.35	331.40893	(07013018)	631438.78	4175414.05	306.14609	(05021923)
631421.06	4175413.74	291.89674	(07120404)	631403.35	4175413.44	277.32623	(07120622)
631372.00	4175404.51	260.13017	(07120622)	631371.09	4175381.11	264.00200	(07120621)
631383.81	4175366.34	272.53961	(07120621)	631396.53	4175351.58	275.11094	(07120621)
631425.06	4175326.73	325.21368	(06011024)	631440.87	4175316.64	348.52878	(06011024)
631456.68	4175306.56	369.77491	(06011024)	631472.49	4175296.47	389.32762	(06011024)
631488.30	4175286.39	406.89161	(06011024)	631504.11	4175276.30	446.45656	(05122618)
631519.92	4175266.22	487.03857	(05122618)	631535.73	4175256.13	547.95360	(04121304)
631551.54	4175246.05	597.79704	(04121304)	631579.95	4175222.15	676.30414	(04022207)
631592.55	4175208.34	706.30690	(04022207)	631605.15	4175194.53	741.37011	(06121217)
631617.74	4175180.72	749.79019	(04011017)	631630.34	4175166.91	730.33197	(04011017)
631642.94	4175153.10	729.54136	(05012117)	631655.54	4175139.29	837.50504	(05012117)
631668.14	4175125.47	852.53608	(05012117)	631680.74	4175111.66	790.25136	(05012117)
631693.34	4175097.85	683.31734	(08022002)	631705.94	4175084.04	651.42302	(06121420)
631718.53	4175070.23	609.43138	(06121420)	631731.13	4175056.42	555.19236	(05122422)
631743.73	4175042.61	545.85777	(07012317)	631773.29	4175020.32	536.38155	(07012317)
631790.26	4175011.84	494.96423	(07012317)	631822.21	4174999.50	451.87398	(07011417)
631837.20	4174995.64	429.52933	(07011417)	631852.19	4174991.77	392.58347	(07011417)
631866.84	4175007.53	390.59358	(04122822)	631866.50	4175027.14	422.43739	(04122822)
631866.16	4175046.76	453.18288	(05020818)	631865.83	4175066.37	484.74110	(05011521)
631865.49	4175085.99	527.62918	(05011521)	631865.15	4175105.60	576.72704	(04022018)
631864.81	4175125.22	631.09182	(04022018)	631864.47	4175144.83	715.95183	(06011617)
631864.13	4175164.45	799.44943	(06011617)	631863.80	4175184.06	824.14205	(06011617)
631863.46	4175203.68	834.45351	(07010217)	631863.12	4175223.29	878.85035	(07010217)
631862.78	4175242.91	870.91744	(05121217)	631862.44	4175262.52	879.69086	(07011518)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631862.10	4175282.14	861.76821	(05012018)	631861.77	4175301.75	833.04587	(05122401)
631861.43	4175321.37	860.35655	(08021808)	631861.09	4175340.98	854.45351	(08021808)
631860.75	4175360.60	802.62894	(08021908)	631860.41	4175380.21	746.82969	(08021908)
631860.07	4175399.83	693.42132	(07022408)	631859.73	4175419.44	640.18120	(07022408)
631859.40	4175439.06	566.18364	(07022408)	631859.06	4175458.67	497.98041	(07010323)
631858.72	4175478.29	466.85546	(06120218)	631858.38	4175497.90	437.90159	(06121919)
631858.04	4175517.52	413.03561	(08121602)	631857.70	4175537.13	390.77374	(08121603)
631857.37	4175556.75	366.62291	(08121603)	631857.03	4175576.36	348.38051	(08121403)
631856.69	4175595.98	333.30760	(08121403)	631856.35	4175615.59	316.76303	(07020605)
631856.01	4175635.21	301.66594	(07020606)	631855.67	4175654.82	287.89643	(08121604)
631855.33	4175674.44	274.85089	(08121604)	631855.00	4175694.05	261.40035	(08011408)
631854.66	4175713.67	251.45662	(08011408)	631854.32	4175733.28	240.81595	(08011408)
631853.98	4175752.90	229.73768	(06021702)	631853.64	4175772.51	222.07426	(06021702)
631853.30	4175792.13	214.05451	(06021702)	631852.97	4175811.74	205.84897	(06021702)
631852.63	4175831.36	197.44814	(06021702)	631852.29	4175850.97	190.46099	(05121701)
631851.95	4175870.59	184.53822	(05121701)	631851.61	4175890.20	178.50289	(05121701)
631851.27	4175909.82	172.40007	(05121701)	631850.94	4175929.43	166.35151	(05121701)
631850.60	4175949.05	160.37669	(05121701)	631850.26	4175968.66	154.53480	(05121701)
631830.54	4175988.13	152.78609	(07121904)	631811.15	4175987.98	153.11505	(05022220)
631791.77	4175987.83	154.24904	(06011704)	631772.39	4175987.67	154.82266	(08122707)
631753.00	4175987.52	155.38667	(07122818)	631733.62	4175987.37	155.45293	(05122403)
631714.24	4175987.22	151.77016	(08122724)	631694.85	4175987.07	151.17542	(08122907)
631675.47	4175986.92	151.79669	(05121702)	631656.09	4175986.77	151.17098	(06012804)
631636.70	4175986.62	149.57868	(07122906)	631617.32	4175986.46	150.67530	(07122906)
631597.94	4175986.31	150.68717	(07021108)	631578.55	4175986.16	160.37350	(08011009)
631559.17	4175986.01	163.72788	(08011009)	631539.79	4175985.86	160.09691	(08011009)
631520.40	4175985.71	150.04834	(08011009)	631501.02	4175985.56	144.54633	(06020123)
631481.64	4175985.40	144.57552	(06020123)	631462.25	4175985.25	140.82325	(06021720)
631442.87	4175985.10	142.03261	(06021720)	631423.49	4175984.95	140.73148	(07122907)
631404.10	4175984.80	139.15229	(05122622)	631384.72	4175984.65	137.78332	(06122519)
631365.34	4175984.50	134.82018	(07012805)	631345.95	4175984.35	134.16946	(07012805)
631326.57	4175984.19	132.48386	(05011001)	631307.19	4175984.04	126.41064	(05011001)
631287.80	4175983.89	116.49941	(05011001)	631050.63	4175100.50	199.13654	(04022207)
631050.63	4175200.50	207.40495	(04121304)	631050.63	4175300.50	196.51525	(05122618)
631050.63	4175400.50	191.87227	(06011024)	631050.63	4175500.50	159.28154	(07120622)
631050.63	4175600.50	141.15104	(05021923)	631050.63	4175700.50	140.57530	(04021520)
631050.63	4175800.50	108.73032	(07120403)	631050.63	4175900.50	98.77497	(04120901)
631050.63	4176000.50	89.29670	(05122923)	631050.63	4176100.50	83.12358	(05021421)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631150.63	4175100.50	245.32568	(04022207)	631150.63	4175200.50	232.56341	(04121304)
631150.63	4175300.50	214.38827	(05122618)	631150.63	4175400.50	196.12802	(06011024)
631150.63	4175500.50	191.44887	(07120622)	631150.63	4175600.50	146.45071	(07013018)
631150.63	4175700.50	133.57861	(07120403)	631150.63	4175800.50	121.25100	(05022704)
631150.63	4175900.50	106.45682	(05122923)	631150.63	4176000.50	98.29130	(05021421)
631150.63	4176100.50	89.01858	(05022705)	631250.63	4175100.50	324.58312	(06020109)
631250.63	4175200.50	266.94734	(04121304)	631250.63	4175300.50	247.56632	(05122618)
631250.63	4175400.50	187.62673	(07120621)	631250.63	4175500.50	181.15247	(05021923)
631250.63	4175600.50	170.17799	(06022523)	631250.63	4175700.50	153.74430	(05022704)
631250.63	4175800.50	131.20725	(06021721)	631250.63	4175900.50	120.60276	(05022703)
631250.63	4176000.50	106.78711	(06011018)	631250.63	4176100.50	108.13824	(05011001)
631350.63	4175100.50	357.70802	(06020109)	631350.63	4175200.50	313.11723	(08012221)
631350.63	4175300.50	258.69747	(07020701)	631350.63	4175400.50	244.14735	(07120621)
631350.63	4175500.50	229.73009	(07013018)	631350.63	4175600.50	202.87570	(05022704)
631350.63	4175700.50	173.78363	(06021721)	631350.63	4175800.50	151.41278	(07121206)
631350.63	4175900.50	143.61111	(05011001)	631350.63	4176000.50	131.66277	(07012805)
631350.63	4176100.50	116.15381	(05122622)	631450.63	4175100.50	406.87198	(04011017)
631450.63	4175200.50	435.65748	(04022207)	631450.63	4175300.50	358.34317	(06011024)
631450.63	4175400.50	322.78022	(05021923)	631450.63	4175500.50	285.04587	(04021521)
631450.63	4175600.50	238.95056	(06021721)	631450.63	4175700.50	200.63668	(07122917)
631450.63	4175800.50	190.07506	(07012805)	631450.63	4175900.50	160.47906	(05122622)
631450.63	4176000.50	138.41112	(06021720)	631450.63	4176100.50	122.08174	(06020123)
631550.63	4175100.50	513.47156	(06121421)	631550.63	4175200.50	566.70728	(04022207)
631550.63	4175300.50	549.13298	(06011024)	631550.63	4175400.50	463.01172	(04021520)
631550.63	4175500.50	360.83884	(04120908)	631550.63	4175600.50	311.02020	(05011001)
631550.63	4175700.50	249.19637	(07122907)	631550.63	4175800.50	203.87109	(06020123)
631550.63	4175900.50	179.28598	(08011009)	631550.63	4176000.50	159.69225	(08011009)
631550.63	4176100.50	134.02566	(08011009)	631650.63	4175100.50	714.50350	(05012117)
631650.63	4175200.50	984.08749	(04011017)	631650.63	4175300.50	0.00000	(00000000)
631650.63	4175400.50	695.93784	(07021218)	631650.63	4175500.50	484.45682	(08011009)
631650.63	4175600.50	385.33701	(08011009)	631650.63	4175700.50	282.71862	(08011009)
631650.63	4175800.50	212.10065	(07122906)	631650.63	4175900.50	172.74217	(07122906)
631650.63	4176000.50	147.30752	(06012804)	631650.63	4176100.50	127.11711	(06012804)
631750.63	4175100.50	785.53031	(07012317)	631750.63	4175200.50	0.00000	(00000000)
631750.63	4175300.50	0.00000	(00000000)	631750.63	4175400.50	809.54010	(05122220)
631750.63	4175500.50	490.74185	(06013007)	631750.63	4175600.50	354.54335	(06122002)
631750.63	4175700.50	272.45944	(06122002)	631750.63	4175800.50	218.14993	(07122818)
631750.63	4175900.50	180.01530	(07122818)	631750.63	4176000.50	152.22741	(07122818)

631750.63 4176100.50 130.12778 (07122818) 631850.63 4175100.50 583.67856 (05011521)
631850.63 4175200.50 902.34225 (06011617) 631850.63 4175300.50 897.24982 (08021808)
631850.63 4175400.50 713.26182 (07022408) 631850.63 4175500.50 440.21295 (08121602)
631850.63 4175600.50 331.37238 (07020605) 631850.63 4175700.50 259.81534 (08011408)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***
INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
631850.63	4175800.50	210.60763	(06021702)	631850.63	4175900.50	175.34081	(05121701)
631850.63	4176000.50	144.99725	(05121701)	631850.63	4176100.50	126.74612	(07121904)
631950.63	4175100.50	480.48984	(06011617)	631950.63	4175200.50	532.15771	(07010217)
631950.63	4175300.50	522.16370	(05012018)	631950.63	4175400.50	511.07102	(08021808)
631950.63	4175500.50	403.36564	(07022408)	631950.63	4175600.50	291.48859	(04121823)
631950.63	4175700.50	237.73299	(08121602)	631950.63	4175800.50	191.83888	(08121603)
631950.63	4175900.50	166.07875	(07020605)	631950.63	4176000.50	154.66526	(07091007)
631950.63	4176100.50	135.95249	(07091007)	632050.63	4175100.50	323.11605	(06120617)
632050.63	4175200.50	349.22602	(06121504)	632050.63	4175300.50	359.78383	(07021221)
632050.63	4175400.50	323.08553	(04121105)	632050.63	4175500.50	320.66560	(08021808)
632050.63	4175600.50	261.15900	(07022408)	632050.63	4175700.50	212.28316	(05121624)
632050.63	4175800.50	179.86351	(07121907)	632050.63	4175900.50	154.80031	(06121919)
632050.63	4176000.50	134.29220	(08121603)	632050.63	4176100.50	114.38639	(08121403)

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
VOL1	1ST HIGHEST VALUE IS	33.33930 AT (631550.63, 4175800.50, 51.70, 51.70, 0.00)	DC
	2ND HIGHEST VALUE IS	32.55020 AT (631550.63, 4175900.50, 50.63, 50.63, 0.00)	DC
	3RD HIGHEST VALUE IS	27.88743 AT (631404.10, 4175984.80, 51.55, 51.55, 0.00)	DC
	4TH HIGHEST VALUE IS	27.35806 AT (631384.72, 4175984.65, 51.75, 51.75, 0.00)	DC
	5TH HIGHEST VALUE IS	26.76840 AT (631423.49, 4175984.95, 51.35, 51.35, 0.00)	DC

6TH HIGHEST VALUE IS 26.07361 AT (631365.34, 4175984.50, 51.95, 51.95, 0.00) DC
7TH HIGHEST VALUE IS 24.58837 AT (631442.87, 4175985.10, 51.15, 51.15, 0.00) DC
8TH HIGHEST VALUE IS 24.03865 AT (631345.95, 4175984.35, 52.13, 52.13, 0.00) DC
9TH HIGHEST VALUE IS 22.12950 AT (631462.25, 4175985.25, 50.94, 50.94, 0.00) DC
10TH HIGHEST VALUE IS 21.44380 AT (631326.57, 4175984.19, 52.32, 52.32, 0.00) DC

VOL2 1ST HIGHEST VALUE IS 38.80056 AT (631852.29, 4175850.97, 47.98, 47.98, 0.00) DC
2ND HIGHEST VALUE IS 37.76345 AT (631852.63, 4175831.36, 48.13, 48.13, 0.00) DC
3RD HIGHEST VALUE IS 37.66297 AT (631851.95, 4175870.59, 47.78, 47.78, 0.00) DC
4TH HIGHEST VALUE IS 34.86144 AT (631852.97, 4175811.74, 48.28, 48.28, 0.00) DC
5TH HIGHEST VALUE IS 34.58101 AT (631851.61, 4175890.20, 47.58, 47.58, 0.00) DC
6TH HIGHEST VALUE IS 33.35466 AT (631850.63, 4175800.50, 48.39, 48.39, 0.00) DC
7TH HIGHEST VALUE IS 32.64249 AT (631850.63, 4175900.50, 47.49, 47.49, 0.00) DC
8TH HIGHEST VALUE IS 30.75002 AT (631853.30, 4175792.13, 48.42, 48.42, 0.00) DC
9TH HIGHEST VALUE IS 30.19907 AT (631851.27, 4175909.82, 47.38, 47.38, 0.00) DC
10TH HIGHEST VALUE IS 26.73007 AT (631694.85, 4175987.07, 48.32, 48.32, 0.00) DC

VOL3 1ST HIGHEST VALUE IS 33.31894 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00) DC
2ND HIGHEST VALUE IS 33.30575 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00) DC
3RD HIGHEST VALUE IS 32.53435 AT (631550.63, 4175700.50, 52.78, 52.78, 0.00) DC
4TH HIGHEST VALUE IS 21.80701 AT (631273.16, 4175683.90, 56.73, 56.73, 0.00) DC
5TH HIGHEST VALUE IS 21.56374 AT (631273.48, 4175663.91, 57.08, 57.08, 0.00) DC
6TH HIGHEST VALUE IS 20.96545 AT (631272.85, 4175703.89, 56.37, 56.37, 0.00) DC
7TH HIGHEST VALUE IS 20.08534 AT (631273.79, 4175643.92, 57.22, 57.22, 0.00) DC
8TH HIGHEST VALUE IS 19.69719 AT (631350.63, 4175800.50, 53.98, 53.98, 0.00) DC
9TH HIGHEST VALUE IS 19.40689 AT (631272.53, 4175723.88, 56.05, 56.05, 0.00) DC
10TH HIGHEST VALUE IS 18.34596 AT (631450.63, 4175800.50, 52.83, 52.83, 0.00) DC

VOL4 1ST HIGHEST VALUE IS 37.26397 AT (631855.67, 4175654.82, 49.65, 49.65, 0.00) DC
2ND HIGHEST VALUE IS 36.71194 AT (631856.01, 4175635.21, 49.81, 49.81, 0.00) DC
3RD HIGHEST VALUE IS 35.79564 AT (631855.33, 4175674.44, 49.49, 49.49, 0.00) DC
4TH HIGHEST VALUE IS 34.31920 AT (631856.35, 4175615.59, 49.98, 49.98, 0.00) DC
5TH HIGHEST VALUE IS 33.29790 AT (631850.63, 4175600.50, 50.21, 50.21, 0.00) DC
6TH HIGHEST VALUE IS 32.58862 AT (631855.00, 4175694.05, 49.31, 49.31, 0.00) DC
7TH HIGHEST VALUE IS 32.55808 AT (631850.63, 4175700.50, 49.34, 49.34, 0.00) DC
8TH HIGHEST VALUE IS 30.63094 AT (631856.69, 4175595.98, 50.14, 50.14, 0.00) DC
9TH HIGHEST VALUE IS 28.30644 AT (631854.66, 4175713.67, 49.14, 49.14, 0.00) DC
10TH HIGHEST VALUE IS 26.34387 AT (631857.03, 4175576.36, 50.29, 50.29, 0.00) DC

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
VOL5	1ST HIGHEST VALUE IS	35.83183 AT (631859.06, 4175458.67, 51.14, 51.14, 0.00) DC

2ND HIGHEST VALUE IS 35.70194 AT (631859.40, 4175439.06, 51.30, 51.30, 0.00) DC
3RD HIGHEST VALUE IS 34.08453 AT (631858.72, 4175478.29, 50.99, 50.99, 0.00) DC
4TH HIGHEST VALUE IS 33.77426 AT (631859.73, 4175419.44, 51.47, 51.47, 0.00) DC
5TH HIGHEST VALUE IS 33.29313 AT (631850.63, 4175400.50, 51.79, 51.79, 0.00) DC
6TH HIGHEST VALUE IS 32.56983 AT (631850.63, 4175500.50, 50.97, 50.97, 0.00) DC
7TH HIGHEST VALUE IS 30.81307 AT (631858.38, 4175497.90, 50.86, 50.86, 0.00) DC
8TH HIGHEST VALUE IS 30.49502 AT (631860.07, 4175399.83, 51.66, 51.66, 0.00) DC
9TH HIGHEST VALUE IS 26.64305 AT (631858.04, 4175517.52, 50.72, 50.72, 0.00) DC
10TH HIGHEST VALUE IS 26.49910 AT (631860.41, 4175380.21, 51.86, 51.86, 0.00) DC

VOL6 1ST HIGHEST VALUE IS 33.29073 AT (631650.63, 4175400.50, 54.21, 54.21, 0.00) DC
2ND HIGHEST VALUE IS 32.56592 AT (631650.63, 4175500.50, 53.39, 53.39, 0.00) DC
3RD HIGHEST VALUE IS 28.31754 AT (631670.70, 4175493.59, 53.18, 53.18, 0.00) DC
4TH HIGHEST VALUE IS 25.01679 AT (631384.72, 4175441.30, 57.69, 57.69, 0.00) DC
5TH HIGHEST VALUE IS 20.17438 AT (631385.63, 4175413.14, 59.01, 59.01, 0.00) DC
6TH HIGHEST VALUE IS 19.81336 AT (631450.63, 4175600.50, 54.98, 54.98, 0.00) DC
7TH HIGHEST VALUE IS 18.51528 AT (631550.63, 4175600.44, 53.80, 53.80, 0.00) DC
8TH HIGHEST VALUE IS 18.49904 AT (631550.63, 4175600.50, 53.80, 53.80, 0.00) DC
9TH HIGHEST VALUE IS 18.01192 AT (631371.70, 4175434.03, 58.62, 58.62, 0.00) DC
10TH HIGHEST VALUE IS 15.96443 AT (631750.63, 4175400.50, 52.98, 52.98, 0.00) DC

VOL7 1ST HIGHEST VALUE IS 62.11368 AT (631862.44, 4175262.52, 53.24, 53.24, 0.00) DC
2ND HIGHEST VALUE IS 62.01841 AT (631862.78, 4175242.91, 53.51, 53.51, 0.00) DC
3RD HIGHEST VALUE IS 57.72131 AT (631850.63, 4175300.50, 52.77, 52.77, 0.00) DC
4TH HIGHEST VALUE IS 57.42596 AT (631863.12, 4175223.29, 53.80, 53.80, 0.00) DC
5TH HIGHEST VALUE IS 57.42061 AT (631862.10, 4175282.14, 52.98, 52.98, 0.00) DC
6TH HIGHEST VALUE IS 55.73509 AT (631850.63, 4175200.50, 54.01, 54.01, 0.00) DC
7TH HIGHEST VALUE IS 49.72674 AT (631863.46, 4175203.68, 54.09, 54.09, 0.00) DC
8TH HIGHEST VALUE IS 49.25993 AT (631861.77, 4175301.75, 52.73, 52.73, 0.00) DC
9TH HIGHEST VALUE IS 40.80909 AT (631863.80, 4175184.06, 54.40, 54.40, 0.00) DC
10TH HIGHEST VALUE IS 39.71890 AT (631861.43, 4175321.37, 52.50, 52.50, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** *** *** 11:24:12

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE	GRID-ID
VOL1	HIGH 1ST HIGH VALUE IS	979.80122	ON 08011009: AT (631365.34, 4175984.50, 51.95, 51.95, 0.00) DC	

VOL2 HIGH 1ST HIGH VALUE IS 969.52207 ON 08011009: AT (631656.09, 4175986.77, 48.78, 48.78, 0.00) DC

VOL3 HIGH 1ST HIGH VALUE IS 939.88051 ON 04121304: AT (631273.79, 4175643.92, 57.22, 57.22, 0.00) DC

VOL4 HIGH 1ST HIGH VALUE IS 901.38329 ON 08011009: AT (631665.32, 4175796.39, 50.51, 50.51, 0.00) DC

VOL5 HIGH 1ST HIGH VALUE IS 889.99730 ON 08011009: AT (631650.63, 4175600.50, 52.59, 52.59, 0.00) DC

VOL6 HIGH 1ST HIGH VALUE IS 1014.06210 ON 04121304: AT (631384.72, 4175441.30, 57.69, 57.69, 0.00) DC

VOL7 HIGH 1ST HIGH VALUE IS 984.08749 ON 04011017: AT (631650.63, 4175200.50, 58.81, 58.81, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy C *** 12/18/23
*** AERMET - VERSION 18081 *** *** *** 11:24:12

*** MODELOPTs: CONC ELEV RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 375 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 375 Calm Hours Identified

A Total of 0 Missing Hours Identified (0.00 Percent)

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

******** WARNING MESSAGES ********
ME W187 86 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

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Appendix 4 – HARP2 Output Files:

HARP2 - HRACalc (dated 22118) 12/15/2023 9:39:42 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCAcute
Calculation Method: HighEnd

****
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: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

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.

****
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 acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Acute Non-CancerNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Acute Non-CancerNCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 9:41:14 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: HighEnd

****
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: False
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): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Chronic Non-CancerNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Chronic Non-CancerNCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 9:17:22 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 70

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 0
16 to 70 Years Bin: 54

****
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: False
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
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Residential CancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Residential CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 9:38:10 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 40

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 40

****
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: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Workplace CancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - OP\HARP2\TRACY COSTCO - OP V2\hra\Workplace CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 12:32:34 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCAcute
Calculation Method: HighEnd

****
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: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

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.

****
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 acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Acute Non-Cancer - ConstructionNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Acute Non-Cancer - ConstructionNCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 12:32:58 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: HighEnd

****
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: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

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.

****
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\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Chronic Non-Cancer - ConstructionNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Chronic Non-Cancer - ConstructionNCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 12:30:06 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
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: False
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
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Residential Cancer - ConstructionCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Residential Cancer - ConstructionCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/15/2023 12:31:40 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 2
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: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Workplace Cancer - ConstructionCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Tracy Costco DepotV4 - CONSTR\HARP2\TRACY CONSTRUCTION\hra\Workplace Cancer - ConstructionCancerRiskSumByRec.csv
HRA ran successfully