
Initial Study/Mitigated Negative Declaration

Benson Reservoir Replacement and Improvements Project

MARCH 2026

Prepared for:

CITY OF CHINO

Public Works Department
13220 Central Avenue
Chino, California 91710
Contact: Chi Wai Chan

Prepared by:

DUDEK

2280 Historic Decatur Road, Suite 200
San Diego, California 92106
Contact: Alex Hardy

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AB	Assembly Bill
AQMP	air quality management plan
BMP	best management practice
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAP	Climate Action Plan
CEQA	California Environmental Quality Act
CH ₄	methane
CHRIS	California Historical Resources Information System
City	City of Chino
CMC	Chino Municipal Code
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	CO ₂ equivalent
dBA	A-weighted decibels
GHG	greenhouse gas
GWP	global warming potential
HRA	health risk assessment
ips	inches per second
IS	initial study
L _{eq}	equivalent continuous sound level
L _{max}	maximum sound level during the measurement interval
L _{min}	minimum sound level during the measurement interval
LST	localized significance threshold
MEIR	Maximally Exposed Individual Resident
MG	million gallons
MM	Mitigation Measure
MND	mitigated negative declaration
MT	metric ton
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
O ₃	ozone
OEHHA	Office of Environmental Health Hazard Assessment
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
PPV	peak particle velocity

Acronym/Abbreviation	Definition
PRC	California Public Resources Code
project	Benson Reservoir Replacement and Improvements Project
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SLF	Sacred Lands File
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SR	State Route
SVP	Society of Vertebrate Paleontology
SWPPP	Stormwater Pollution Prevention Plan
TAC	toxic air contaminant
TCR	Tribal Cultural Resource
USFWS	U.S. Fish and Wildlife Service
VMT	vehicle miles traveled
VOC	volatile organic compound
WTP	Water Treatment Plant

1 Introduction

The City of Chino (City) has prepared this mitigated negative declaration (MND) to assess and disclose the potential impacts on the environment of implementing the Benson Reservoir Replacement and Improvements Project (project) pursuant to the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] Section 21000, et. seq). This section of the MND provides information on project background, explains the project's purpose and need, and describes the City's CEQA obligations associated with approving and implementing the project.

1.1 Project Background and Overview

The City provides potable water service to approximately 89,000 customers through 23,000 active metered service connections. One source of the City's water supply is the Benson Water Treatment Plant (WTP), located in an approximately 4.5-acre City-owned property at 11840 South Benson Avenue, in the northern portion of the City's incorporated boundaries. The Benson WTP treats water from two on-site groundwater wells, referred to as Wells 5 and 9, and one off-site groundwater well, referred to as Well 10. Water treated at the Benson WTP is stored in a 44-foot tall, 80-foot diameter, 1.5 million gallon (MG) cylindrical steel reservoir adjacent to the Benson WTP, known as Reservoir 3, or Benson Reservoir. Water from the reservoir is pumped to City customers by the on-site Benson Booster Pump Station (BPS). Benson Reservoir also stores treated water from the City's Reservoir 5, which is transmitted to the site via a 24-inch-diameter main in South Benson Avenue. In addition to its role in potable water storage, Benson Reservoir is an important part of the City's fire-suppression system and is required to maintain adequate pressure for service during an emergency.

Benson Reservoir was constructed and commissioned in 1961. A condition assessment by the City determined the reservoir is in poor condition and is nearing the end of its service life. Benson Reservoir is deficient of current seismic standards, with inadequate freeboard capacity above the maximum operating level, insufficient foundation anchoring, and a foundation that likely does not meet seismic load requirements. The City is planning to replace and upsize the Benson Reservoir to ensure its ability to provide a safe and reliable source of potable water to its customers and a source of fire suppression water.

1.2 California Environmental Quality Act Compliance

1.2.1 Authority to Prepare an MND

Approval by the Chino City Council to issue a construction contract for the project constitutes a discretionary public action that triggers environmental review requirements pursuant to CEQA, with the City serving as lead agency. The City prepared a CEQA initial study (IS) to analyze and consider the environmental impacts of implementing the project, which is included as Chapter 3 of this document. Based on the results of the IS, the City determined that an MND is the appropriate environmental document for compliance with CEQA. As stated in Section 21064 of the CEQA statute, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment when mitigation is identified that can reduce impacts to less-than-significant levels. The Mitigation, Monitoring, and Reporting Program (MMRP) for the project is included in Appendix A.

1.2.2 Public Review and MND Adoption Process

The City is making the MND available for public review and comment pursuant to Section 15073 of the CEQA Guidelines. A copy of the MND and related documents are available for review on the City's website (<https://www.cityofchino.org/591/Environmental-Documents>). The City has identified a 30-day review and comment period for the MND commencing March 12, 2026 and concluding April 12, 2026.

Written comments on the MND may be submitted to the City before the end of the public review period. In reviewing and commenting on the MND, interested public agencies and members of the public should focus on the adequacy of the document in identifying and analyzing the project's potential impacts on the environment. Written comments on the MND would be accepted in hard copy or email format, and must be received at the following street address or email address by 5:00 p.m., April 12, 2026:

City of Chino
13220 Central Avenue
Chino, California 91710
Contact: Chi Wai Chan
Email: cchan@cityofchino.org

Following the close of the public comment period, City staff would review all comments and may revise the MND if necessary to clarify the document's content. City staff would prepare a final version of the MND and send it to the City Council for consideration of official adoption.

The environmental impact review presented in this MND is based on initial project design and information provided by City staff and the engineering design consultant. As additional design is completed following the City Council's adoption of the MND, City staff would review project details, compare them to the information presented in the MND, and determine conformance with the project's CEQA record. Minor deviations from the design assumed in the MND may be addressed either by a consistency determination by City staff or by an addendum to the MND. If subsequent changes in the project are substantial to the extent that they "require major revisions of the previous...negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects," then the City would be required by Section 15162 of the CEQA Guidelines to prepare a subsequent MND, initiate an additional CEQA public review period, and send the subsequent MND to the City Council for adoption.

2 Project Description

2.1 Project Location and Environmental Setting

The project is located in the northern portion of the City, which is in southwestern San Bernardino County, as shown in Figure 1, Project Location. The project site is located within an approximately 4.5-acre rectangular parcel owned by the City at 11840 South Benson Avenue. The project site is in a developed part of the City that primarily features residential, commercial, and medical office uses. To the north, the project site is bounded by commercial and residential uses. To the east, the project site is bounded by South Benson Avenue, which represents a portion of Chino's municipal boundary with the City of Ontario, followed by residential uses. To the south, the project site is bounded by vacant, undeveloped land followed by residential and medical office uses. To the west, the project site is bounded by vacant, undeveloped land followed by residential uses. Regional access to the project site is from State Route (SR) 60, which is approximately 0.5 miles to the south; SR 83, which is approximately 1.7 miles to the east; and Interstate 10, which is approximately 3.3 miles to the north.

The project site is surrounded by a combination of masonry block wall and steel chain link fence, with a gated driveway access off South Benson Avenue. The site is flat and is developed with existing components of the City's water system, described below in Section 2.2, along with several mature, ornamental trees and scattered non-native shrubs. A retention basin that captures stormwater runoff from the site and overflow from the existing reservoir is located in the southern portion of the site.

2.2 Existing Benson Water Treatment Plant Complex

The 4.5-acre project site features existing water production, treatment, and storage facilities that make up the Benson WTP complex. These facilities are depicted in Figure 2, Project Site and Existing Features. Well 5, located in the eastern part of the site, and Well 9, located in the southwestern corner of the site, pump groundwater from the underlying aquifer. Both wells are housed inside small structures. Water produced at these wells is treated in a granular activated carbon system located in the southern portion of the project site and an ion exchange treatment system located in the central portion of the site. The ion exchange treatment system is partially housed in an aluminum-sided structure, with additional tanks positioned adjacent to the structure. The existing Benson Reservoir is immediately east of the ion exchange treatment system building in the center of the site. The existing Benson Reservoir stores treated water from the on-site wells (treated on-site) and treated water pumped from the off-site Reservoir 5 and Well 10. Water stored in Benson Reservoir is pumped into the City's distribution system via a booster pump station located in the southern portion of the project site, east of the granular activated carbon system tanks. East of the booster pump station is a retention basin that receives water discharged from the system and on-site stormwater runoff. The system components are connected by a matrix of underground pipes that feature aboveground valves. A series of underground pipes connect the site to pipelines that run beneath Benson Avenue east of the site.

A concrete brow ditch is located along a portion of the site's southern border, collecting runoff from the western portion of the site and diverting it to the retention basin. On-site vehicle and equipment access and circulation is provided via a 15-foot-wide asphalt-paved loop road located in the southern portion of the site. Elsewhere around the project site, vehicle and equipment access occurs on gravel base and compacted bare ground. Open areas within the project site are used for miscellaneous material storage.

2.3 Project Characteristics

The project entails constructing and operating a replacement for the existing Benson Reservoir within the City's Benson WTP complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. These components are described below and depicted in Figure 3, Site Plan. Project details presented in this section are derived from the Preliminary Design Report for the Benson Reservoir Replacement and Improvements (Dudek 2025).

2.3.1 Replacement Reservoir

The replacement reservoir would be a concrete cylindrical tank located in the northwestern corner of the site, west of the ion exchange treatment system, north of Well 9, and east and south of the fenced property boundary. The replacement reservoir's exterior would be unfinished concrete. The replacement reservoir is planned to have a capacity of 7.85 million gallons (MG), an increase in size from the existing 1.5 MG reservoir. The larger reservoir would expand the City's water-storage capabilities and enhance the system's operational flexibility, furthering the City's ability to provide a reliable source of water to its customers. The increase in size would be realized by constructing a tank with a larger diameter (172 feet) and taller height (58.25 feet).

The replacement reservoir would be designed to meet all applicable seismic stability requirements and structural design standards, correcting the deficiencies in the existing tank, which was constructed in 1961 and predated contemporary standards. The replacement reservoir would be an AWWA D110 Type 1 prestressed concrete reservoir with cast-in-place concrete core wall, horizontal strand prestressing, and vertical post-tensioning. The core wall would be supported by a concrete spread footing, and the floor consists of a concrete slab on-grade with elevated column footings. As with the current Benson Reservoir, water would be pumped from the tank and into the City's distribution system by the on-site booster pump station. An overflow structure would be installed to allow excess water to safely exit the reservoir in the unanticipated event of overfilling the reservoir without damaging the structure. Overflow water would exit through the floor of the reservoir and enter a belowground gravity drain pipe leading to the on-site percolation basin.

2.3.2 Inlet and Outlet Piping Realignment

Inlet and outlet piping to and from the existing reservoir would be realigned to connect the replacement reservoir to the on-site treatment facilities and booster pump station. Inlet piping into the replacement reservoir is anticipated to use a single pipeline along the northeast quadrant of the tank shell, combining the water sources from off-site Reservoir 5 and the on-site Benson WTP to reduce the amount of infrastructure the City has to maintain. Outlet piping would exit through the reservoir floor to an underground vault containing a slanted disc check valve that would prevent backflow into the reservoir. The new outlet piping would then travel east to the existing booster pump station where it would connect into the existing reservoir's outlet piping before entering the booster pump station. Pipes are anticipated to vary from 20 to 24 inches in diameter, similar to the existing inlet and outlet piping.

2.3.3 Access Road and Site Security Improvements

A 15-foot-wide Class II base access road with concrete curb and gutters would be installed around the perimeter of the replacement reservoir. The perimeter access road would also include an additional turn-around section on the southern end of the reservoir extending to the existing concrete brow ditch along the southern property line,

spanning across the vacant space between Well 9 and the granular activated carbon system. This additional turn-around area would provide City operations staff with ample room for maneuvering maintenance vehicles and conveying storm water runoff around the proposed reservoir to the existing brow ditch and ultimately to the infiltration basin.

The project would entail replacing the chain-link fence along the property’s north and west perimeter with block wall per the City’s specifications. Barbed wire would be placed on top of all new and existing perimeter fencing to enhance site security. The existing chain-link fence along the southern project boundary would remain as is. The existing automatic access gate would be replaced in the same location with a new automatic gate per the City’s specifications. A pole-mounted camera security system would be installed in the northwest corner of the site. Security lighting would be installed on the outside of the replacement reservoir next to the ladder.

2.3.4 Retention Basin Improvements

Stormwater drainage improvements would be required due to the addition of impervious surfaces from the wider reservoir tank and additional paved access road. The existing retention basin would be improved to accommodate increased site flows and potential overflow from the reservoir. The improvements would result in a temporary impact boundary coming off the proposed access road, to install the overflow pipe outlet from the new reservoir and recontour the existing retention basin’s northern slope. In addition to these improvements, a new retention basin would be constructed to the east of the existing retention basin.

2.3.5 Demolition of Existing Reservoir

After construction of the new reservoir, the existing 1.5 MG steel reservoir would be demolished. Demolition would include the entire reservoir structure (i.e., walls, footing, roof, floor, etc.), as well as all reservoir appurtenances (i.e., interior piping, ladders, hatches, etc.). The existing reservoir shall remain in service until the new reservoir is commissioned and on-line.

2.4 Construction Phasing and Schedule

Table 2-1 presents the anticipated construction phasing, equipment usage, and duration assumed for the project for purposes of environmental impact analysis in this MND. These assumptions were developed in consultation with the project design engineers for consideration in Section 3.3, Air Quality; Section 3.6, Energy; Section 3.8, Greenhouse Gas Emissions; and Section 3.13, Noise. Construction is anticipated to begin Fall 2027, with a total duration of project construction anticipated at approximately 12 months, with some construction phases overlapping. Typical construction work hours would be Monday through Friday, 7:00 a.m. to 5:30 p.m., consistent with specifications in the Chino Municipal Code (CMC). Night work is not anticipated.

Table 2-1. Anticipated Construction Phasing and Equipment

Construction Phase	Anticipated Equipment	Estimated Duration
Mobilization and Clearing	Graders	2 weeks
	Tractors/Loaders/Backhoes	
	Scrapers	
Grading	Graders	5 weeks
	Tractors/Loaders/Backhoes	

Table 2-1. Anticipated Construction Phasing and Equipment

Construction Phase	Anticipated Equipment	Estimated Duration
Reservoir Construction	Rubber Tired Dozers	32 weeks
	Cranes	
	Forklifts	
	Generator Sets	
	Tractors/Loaders/Backhoes	
	Welders	
Yard Piping and Vaults	Cement and Mortar Mixers	8 weeks
	Trenchers	
Site Drainage Improvements	Skid Steer Loaders	6 weeks
	Tractors/Loaders/Backhoes	
	Excavators	
Backfill and Compact	Skid Steer Loaders	3 weeks
	Tractors/Loaders/Backhoes	
Landscaping and fence installation	Plate Compactors	2 weeks
	Tractors/Loaders/Backhoes	
	Rough Terrain Forklifts	
Paving	Plate Compactors	1 week
	Tractors/Loaders/Backhoes	
	Pavers	
	Paving Equipment	
	Rollers	
Architectural Coating	Cement and Mortar Mixers	3 weeks
	Air Compressors	
Demolish Existing Tank	Tractors/Loaders/Backhoes	8 weeks
	Rubber Tired Dozers	
	Concrete/Industrial Saws	

2.5 Project Operation

Project operation is anticipated to entail similar activity as under current conditions, and there would be no increase in staffing to operate the proposed replacement facility. Occasional maintenance work would likely increase slightly due to the larger size of the replacement reservoir and retention basin and the addition of a new retention basin.

2.6 Permits and Approvals

The City of Chino is the CEQA lead agency, with the Chino City Council holding primary responsibility for adopting this MND and approving commencement of project construction. The project would also require the issuance of a

site development permit by the City Planning and Engineering Department for the proposed site development. Other public agency approvals include the following:

- An amendment to the existing Domestic Water Supply Permit by the Department of Public Health Division of Drinking Water
- The Santa Ana Regional Water Quality Board (SARWQB) would serve as a responsible agency under CEQA for their approval of a stormwater pollution prevention plan (SWPPP) in compliance with the Construction General Permit.

INTENTIONALLY LEFT BLANK

3 Initial Study Checklist

1. Project title:

Benson Reservoir Replacement and Improvements Project

2. Lead agency name and address:

City of Chino
13220 Central Ave
Chino, California 91710

3. Contact person and phone number:

Chi Wai Chan
Public Works Department
13220 Central Avenue
Chino, California 91710
909.334.3329

4. Project location:

The project is located in the northern portion of the City of Chino within a 4.5-acre parcel at 11840 South Benson Avenue, Chino, California.

5. Project sponsor's name and address:

City of Chino
13220 Central Ave
Chino, California 91710

6. General plan designation:

Public/Institutional

7. Zoning:

P (Public)

8. Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

Refer to Section 2, above.

9. Surrounding land uses and setting: Briefly describe the project's surroundings:

Refer to Section 2.1, above.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

Santa Ana Regional Water Quality Board

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

Refer to Sections 3.5 and 3.18, below.

Environmental Factors Potentially Affected

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

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

Determination (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

March 9, 2026

Date

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are “Less Than Significant With Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
 - a. the significance criteria or threshold, if any, used to evaluate each question; and
 - b. the mitigation measure identified, if any, to reduce the impact to less than significance

3.1 Aesthetics

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

a) Would the project have a substantial adverse effect on a scenic vista?

Less-than-Significant Impact. Scenic vistas generally refer to views of expansive open space areas or other natural features, such as mountains, undeveloped hillsides, large natural water bodies, or coastlines. Certain urban settings or features, such as a striking or renowned skyline, may also represent a scenic vista. Scenic vistas, as assessed under CEQA, are generally accessible from public vantage points, such as public roadways and parks.

The City's General Plan EIR describes the views toward the San Gabriel Mountains to the north and Chino Hills to the south as scenic vistas (City of Chino 2025a). Distant views of the San Gabriel Mountains to the north and Chino Hills to the south are obscured by distance and the intervening streetscape and development. The project site is in a developed part of the City that primarily features single-family residences and commercial uses. Public streets and sidewalks in the vicinity of the project site offer views of the San Gabriel Mountains and Chino Hills that are typically obscured by the presence of mature trees and buildings in the foreground. There are no unobstructed scenic vistas of the mountains or hills within the area surrounding the project site. Various trails in the mountains and hills miles north and south of the project site offer expansive scenic vistas of the City below. The project site would be limited to distant elements in those views and is not a key focal points from those public vantagepoints, as the project site would blend in with the rest of its developed surroundings.

Project construction would result in temporary visual changes to the Benson WTP complex, including the presence of excavated areas and staging of construction equipment. Visible construction features would not obstruct scenic vistas. Upon completion of construction, these temporary visual changes would cease. The project entails constructing and operating a replacement reservoir for the existing Benson Reservoir within the City's Benson WTP complex. This would alter views of the project site from surrounding areas compared to pre-construction conditions as the replacement reservoir would be approximately 9.75 feet taller than the existing reservoir and located west of the existing reservoir. Similar to the existing reservoir, the replacement reservoir would be visible from public vantagepoints on the streets and sidewalks along portions of South Benson Avenue, Philadelphia Street, Vernon Avenue, and Adams Street, as well as from private residences in the vicinity of the WTP complex. As under existing conditions, views of the replacement reservoir would be partially shielded from off-site views by existing trees and development in the project area. The replacement reservoir would not block scenic vistas. The replacement reservoir would not be a focal point of distant views of the area from public trails in the mountains and hills to the north and south. Because the project would not obstruct or negatively affect scenic vistas, impacts would be less than significant.

b) *Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?*

No Impact. There are no designated state scenic highways in the vicinity of the project site. The nearest eligible scenic highway is a segment of State Route (SR) 142 located approximately 4.8 miles southwest of the project site (Caltrans 2024). Due to intervening development and distance, the project site is not visible from this segment of SR 142. Therefore, the project would not substantially damage scenic resources within a state scenic highway and no impact would occur.

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

Less-than-Significant Impact. Per PRC Section 21071, an "urbanized area" is defined as "(a) An incorporated city that meets either of the following criteria: (1) Has a population of at least 100,000 persons. [or] (2) Has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons." The project site is located in the incorporated City of Chino, which has a population of 91,403 persons as of the 2020 census (U.S. Census Bureau 2020). However, with the incorporation of the population of a contiguous city, such as the City of Ontario, which has a population of 182,457 as of the 2020 census, the project site is considered to be located in an urbanized area (U.S. Census Bureau 2020).

As discussed in Section 3.1(a), the project site is not visible from any prominent public viewpoints. Temporary visible elements associated with the project include presence of excavated areas and staging of construction equipment. Visual impacts resulting from construction activities would be temporary, ceasing upon completion of construction.

The project would not conflict with any applicable zoning or other regulations governing scenic quality. The project site is not subject to overlay zones or other such designations specific to scenic resources or quality.

The project entails constructing and operating a replacement reservoir for the existing Benson Reservoir within the City's Benson WTP complex, which would not change the site's existing use or result in a substantial change to the complex's visual character. Similar to the existing reservoir, the replacement reservoir would be visible from portions of South Benson Avenue, Philadelphia Street, Vernon Avenue, and Adams Street and would be partially shielded from off-site views by existing trees and development in the project area. The project would result in the continued use of the site as a WTP and would not substantially differ visually from its current use. The replacement reservoir would be taller than the existing reservoir; however, the taller replacement reservoir would not degrade visual character because the project would not present elements that are visually incompatible with the existing setting. Implementation of the project would not conflict with the applicable zoning and other regulations governing scenic quality. Impacts would be less than significant.

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

Less-than-Significant Impact. The project is located in an urban area with existing sources of nighttime lighting from roadways, residences, and the existing Benson WTP complex. Existing lighting at the Benson WTP complex consists of lighting within facilities. No nighttime work would occur during construction of the project. The proposed project would involve replacement of the reservoir, inlet and outlet piping realignment, access road and site security improvements, retention basin improvements, and construction of a new retention basin. As part of the site security improvements, new lighting would consist of energy-efficient fixtures designed to minimize light and glare. The materials that would be used for the project would not be reflective in nature and would not serve as a new source of glare (such as large areas of glass). Given the urban location and the presence of existing nighttime lighting, the proposed lighting improvements are not expected to result in significant changes to the ambient light levels in the area. As such, impacts would be less than significant.

3.2 Agriculture and Forestry Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state’s inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

- a) ***Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?***

No Impact. According to the California Department of Conservation’s California Important Farmland Finder database, the project site and its immediate surroundings are classified as “Urban and Built-Up Land” (DOC 2024a). The project would not be located on land classified as Farmland pursuant to the Farmland Mapping and Monitoring Program and would therefore not convert any Farmland to non-agricultural use. Additionally, the project site and its immediate surroundings are not classified as important farmland on Map HEQ-7,

Regional Open Space, of the City of Chino General Plan Health and Environmental Quality Element (City of Chino 2025b). Given these conditions, the project would have no potential to impact agricultural resources. No impact would occur.

b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?*

No Impact. The project site is zoned P (Public). The project site is bordered by areas zoned RD1 (Residential/Agricultural) in the City of Chino (City of Chino 2022), and areas zoned AR-2 (Residential-Agricultural) in the City of Ontario (City of Ontario 2016). The purpose of the RD-1 district is to provide for very large lot residential development in a rural environment, and the purpose of the RD-2 district is to provide large lot residential development in a nonurbanized environment (City of Chino 2024). The proposed project activities would be limited to the Benson WTP complex, which is zoned for public use, and would not impact adjacent residential/agricultural zones. Additionally, there are no existing lands under a Williamson Act contract within the City (DOC 2024b). Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract. No impact would occur.

c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?*

No Impact. The project site and surrounding areas are not zoned for nor contain any forest land or timberland. The proposed project would not involve any activities that would impact or require the rezoning of forest or timberland resources. Therefore, the project would not conflict with or cause the rezoning or conversion of forest land or timberland. No impact would occur.

d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

No Impact. Refer to Section 3.2(c). The project site is not located on or near any forest land, and no activities associated with the project would affect forest resources. No impact would occur.

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

No Impact. Refer to Sections 3.2(a) through 3.2(d). The project would be located within the Benson WTP complex and is not located on land with existing agricultural uses, Farmland, or forest lands. Therefore, the project would not involve other changes that could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur.

3.3 Air Quality

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

This section is based on technical analysis conducted by Dudek, including quantitative estimates of air pollutant emissions based on assumptions developed in consultation with the project design engineers. The results of the emissions estimates are provided as Appendix B, Air Quality and Greenhouse Gas Modeling, to this IS/MND.

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

Less-than-Significant Impact. The project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the western, non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The site is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

The SCAQMD administers the SCAB's air quality management plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for the SCAB is the 2022 AQMP (SCAQMD 2022). The 2022 AQMP provides the regional path towards improving air quality and meeting federal standards for air pollutants. The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low oxides of nitrogen [NO_x] technologies in other applications), best management practices (BMPs), co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other Clean Air Act measures to achieve the 2015 federal ozone (O₃) standard by 2037 (SCAQMD 2022).

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the 2022 AQMP, and if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3 of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

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

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

The second criterion regarding the potential of the proposed project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the proposed project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstructing implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). Thus, demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by SCAG for their 2020-2045 RTP/SCS were used to estimate future emissions in the 2022 AQMP (SCAQMD 2022; SCAG 2020).^{1,2} The SCAG 2020-2045 RTP/SCS, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2022 AQMP is generally consistent with local government plans.

The project site is located within an approximately 4.5-acre rectangular parcel owned by the City at 11840 South Benson Avenue. The project site currently houses the Benson WTP. The project would not change the use of the existing Benson WTP and would be consistent with the underlying land use and zoning designations. The project entails constructing and operating a replacement for the existing Benson Reservoir within the City's Benson WTP complex, connecting the replacement reservoir to the system, and

¹ SCAG adopted Connect SoCal 2024, the 2024-2050 RTP/SCS (SCAG 2024), but the growth projections therein have not yet been incorporated into an adopted AQMP.

² Information necessary to produce the emission inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including CARB, the California Department of Transportation, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic Projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into their Travel Demand Model for estimating/Projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities Projections in their 2020-2045 RTP/SCS are integrated in the 2022 AQMP (SCAQMD 2022).

demolishing the existing reservoir. Upon completion, the project would not result in an increase in operational employees. Therefore, the project would not result in substantial unplanned population growth in the area. Accordingly, the project does not conflict with the SCAG RTP/SCS forecasts used in the SCAQMD AQMP development and does not propose activities that would induce additional population in the project area. Impacts would be less than significant.

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

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

A quantitative analysis was conducted to determine whether the proposed project might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or cumulatively contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include O₃, nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and NO_x, which are important because they are precursors to O₃, as well as CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}.

Regarding NAAQS and CAAQS attainment status,³ the SCAB is designated as a nonattainment area for national and California O₃ standards and PM_{2.5} standards. The SCAB is designated as a nonattainment area for California PM₁₀ standards; however, it is designated as an attainment area for national PM₁₀ standards. The SCAB is designated as an attainment area for national and California CO standards, national and California NO₂ standards, and national and California SO₂ standards (EPA 2025; CARB 2023).

The proposed project would result in emissions of criteria air pollutants for which CARB and EPA have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause, or contribute to, violations of these standards. SCAQMD has established Air Quality Significance Thresholds, as revised in March 2023, that set forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality (SCAQMD 2023). The quantitative air quality analysis provided herein applies the SCAQMD thresholds identified in Table 3.3-1 to determine the potential for the project to result in a significant impact under CEQA.

³ An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the U.S. Environmental Protection Agency and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

Table 3.3-1. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	Construction (pounds per day)	Operation (pounds per day)
VOCs	75	55
NO _x	100	55
CO	550	550
SO _x	150	150
PM ₁₀	150	150
PM _{2.5}	55	55
Lead ^a	3	3
Toxic Air Contaminants (TACs) and Odor Thresholds		
TACs ^b	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (Project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants ^c		
NO ₂ 1-hour average NO ₂ annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)	
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
PM ₁₀ 24-hour average	10.4 µg/m ³ (construction) ^d 2.5 µg/m ³ (operation)	
PM ₁₀ annual average	1.0 µg/m ³	
PM _{2.5} 24-hour average	10.4 µg/m ³ (construction) ^d 2.5 µg/m ³ (operation)	

Source: SCAQMD 2023.

Notes: SCAQMD = South Coast Air Quality Management District; VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; TAC = toxic air contaminant; NO₂ = nitrogen dioxide; ppm = parts per million by volume; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

Greenhouse gas emissions thresholds for industrial projects, as added in the March 2015 revision to the SCAQMD Air Quality Significance Thresholds, were not included in this table as they are addressed within the greenhouse gas emissions analysis and not the air quality analysis.

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

^b TACs include carcinogens and noncarcinogens.

^c Ambient air quality standards for criteria pollutants are based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.

^d Ambient air quality threshold are based on SCAQMD Rule 403.

A project would result in a cumulatively considerable net increase for O₃, which is a nonattainment pollutant, if the proposed project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 3.3-1. These emission-based thresholds for O₃ precursors are intended to serve as a surrogate for an O₃ significance threshold (i.e., the potential for adverse O₃ impacts to occur)

because O₃ itself is not emitted directly, and the effects of an individual project's emissions of O₃ precursors (i.e., VOCs and NO_x) on O₃ levels in ambient air cannot be determined reliably or meaningfully through air quality models or other quantitative methods.

California Emissions Estimator Model (CalEEMod) Version 2022.1.1.30 was used to estimate emissions from construction of the project. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with construction and operational activities from a variety of land use projects, including recreational development. The following discussion summarizes the quantitative project-generated construction and operational emissions and impacts that would result from implementation of the proposed project.

Construction Emissions

Construction of the proposed project would include demolition, site preparation, reservoir construction, and associated facilities installation. These construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, and soil disturbance) and off-site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM₁₀ and PM_{2.5} emissions. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NO_x, CO, PM₁₀, and PM_{2.5}. Construction emissions can vary substantially from day to day depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions.

Proposed project construction emissions were estimated using a combination of CalEEMod default assumptions and information provided by the project engineer. It was assumed that approximately 8,580 cubic yards of material would be exported during demolition and graded soils would be balanced on site. Construction is anticipated to begin Fall 2027 and would last approximately 12 months. Air quality emissions modeling assumed that construction of the project would commence in August 2026, which would produce conservative results as construction equipment becomes more efficient over time.. Default values for horsepower and load factor provided in CalEEMod were used for all construction equipment. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site 5 days per week, up to a maximum of 8 hours per day. Typical construction work hours would be Monday through Friday, 7:00 a.m. to 5:30 p.m. Night work is not anticipated

Emissions generated during construction and operation of the project are subject to the rules and regulations of the SCAQMD. Rule 403, Fugitive Dust,⁴ requires the implementation of measures to control the emission of visible fugitive/nuisance dust, such as wetting soils that would be disturbed. It was assumed that the active sites would be watered at least two times daily, to represent compliance with SCAQMD standard dust control measures in Rule 403.

⁴ SCAQMD Rule 403 requires implementation of various best available fugitive dust control measures for different sources for all construction activity sources within its jurisdictional boundaries. Dust control measures include, but are not limited to, maintaining stability of soil through pre-watering of site prior to clearing, grubbing, cut and fill, and earth-moving activities; stabilizing soil during and immediately after clearing, grubbing, cut and fill, and other earth-moving activities; stabilizing backfill during handling and at completion of activity; and pre-watering material prior to truck loading and ensuring that freeboard exceeds 6 inches. Although SCAQMD Rule 403 requires fugitive dust control beyond watering control measures, compliance with Rule 403 is represented in CalEEMod by assuming twice daily watering of active sites (61% reduction in PM₁₀ and PM_{2.5} [CAPCOA 2022]).

CalEEMod calculates maximum daily emissions for summer and winter periods. As such, the estimated maximum daily construction emissions without mitigation for both summer and winter periods are summarized in Table 3.3-2. Detailed construction model outputs are presented in Appendix B.

Table 3.3-2. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Summer						
2026	1.48	13.99	15.37	0.03	3.74	1.98
2027	10.18	22.75	31.22	0.05	3.2	1.18
Winter						
2026	1.48	14.04	15.2	0.03	3.74	1.98
2027	1.55	13.35	17.59	0.43	0.73	0.47
Maximum Daily Emissions	10.18	22.75	31.22	0.43	3.74	1.98
SCAQMD Threshold	75	100	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Source: Appendix B.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SCAQMD= South Coast Air Quality Management District
Emissions estimates include watering of the active sites two times per day per Rule 403 compliance.

As shown in Table 3.3-2, the proposed project's maximum daily construction emissions would not exceed SCAQMD thresholds for any criteria pollutant and impacts would be less than significant.

Operation Emissions

The project entails constructing and operating a replacement for the existing Benson Reservoir within the City's Benson WTP complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. Upon completion, the project would not result in an increase in operational employees. During long-term operations, as the project would involve the replacement of an existing water reservoir tank and associated facilities, the project would not result in a substantial incremental increase in criteria air pollutants as compared to the existing baseline scenario. Once construction is complete, project operation is anticipated to entail similar routine maintenance and operation as performed by the City for the current facilities. Therefore, the project would not result in an increase in daily vehicle trips to and from the project site and operational criteria pollutants and impacts would be less than significant.

Cumulative

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.⁵

⁵ The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

However, the project is located in an already developed urban area and any future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM₁₀ and PM_{2.5} emissions would be reduced because all future projects would be subject to SCAQMD Rule 403, Fugitive Dust, which sets forth general and specific requirements for all sites in the SCAQMD.

Therefore, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants and impacts would be less than significant during construction and operation.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

Less-than-Significant Impact with Mitigation Incorporated. Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993).

The closest off-site sensitive receptors to the project site are single-family residences located directly across South Benson Avenue, east of the project and adjacent to the northwest corner of the project site.

Localized Significance Thresholds

The SCAQMD recommends a localized significance threshold (LST) analysis to evaluate the potential of localized air quality impacts to sensitive receptors in the immediate vicinity of a proposed project from construction and operation; however, an operational LST analysis is not required for the project due to no substantial on-site sources of localized emissions. For projects that disturb 5 acres or less per day, the SCAQMD *Final Localized Significance Threshold Methodology* (SCAQMD 2008a) includes lookup tables that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance criteria (i.e., the emissions would not cause an exceedance of the applicable concentration limits for NO₂, CO, PM₁₀, and PM_{2.5}) without performing project-specific dispersion modeling.

The LST significance thresholds for NO₂ and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards, while the threshold for PM₁₀ represents compliance with Rule 403 (Fugitive Dust). The LST significance threshold for PM_{2.5} is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the PM_{2.5} ambient air quality standards. The allowable emission rates depend on the following parameters:

1. Source-Receptor Area in which the project is located
2. Size of the project site
3. Distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals)

The proposed project site is located in Source-Receptor Area 33 (Southwest San Bernardino Valley). The maximum number of acres disturbed on the peak day was estimated using the *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* (SCAQMD n.d.), which provides estimated acres per 8-hour per day per piece of earth-moving equipment. Based on the SCAQMD guidance, it was estimated that the maximum acres on the project site that would be disturbed by off-road equipment would be 2 acres per day; therefore, LSTs for a 2-acre disturbed area were interpolated from the SCAQMD 1- and 2-acre LST thresholds. The nearest sensitive-receptor land use is located adjacent to the project site. Accordingly, the distance in the LST look-up table of 44 meters (145 feet) is assumed.

According to the *Final Localized Significance Threshold Methodology*, “off-site mobile emissions from the project should not be included in the emissions compared to the LSTs” (SCAQMD 2008a). Trucks and worker trips associated with the project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Nonetheless, because the project site is relatively large, vehicle activity may occur within the project boundary (i.e., fence line); therefore, a small portion (i.e., 1,000 feet) of the off-site vehicle travel for worker vehicles, vendor trucks, and haul trucks was conservatively assumed as on-site emissions for the LST analysis.

The maximum daily on-site emissions generated from construction of the proposed project are presented in Table 3.3-3 and are compared to the SCAQMD localized significance criteria to determine whether project-generated on-site emissions would result in potential LST impacts.

Table 3.3-3. Construction Localized Significance Thresholds Analysis - Unmitigated

Year	NO _x	CO	PM ₁₀	PM _{2.5}
	Pounds per Day			
2026	13.1	14.3	3.35	1.87
2027	21.3	28.2	2.26	0.93
Maximum Daily Emissions	21.3	28.2	3.35	1.87
<i>SCAQMD LST Criteria^a</i>	193	1,727	16	7.3
Threshold exceeded?	No	No	No	No

Source: Appendix B.

Notes: NO_x = oxides of nitrogen; CO = carbon monoxide; PM₁₀ = particulate matter with a diameter less than or equal to 10 microns; PM_{2.5} = particulate matter with a diameter less than or equal to 2.5 microns; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.

The values shown are the maximum summer or winter daily emissions results from CalEEMod. The total values may not add up exactly due to rounding. Emissions estimates include watering of the active sites two times per day per Rule 403 compliance.

^a Localized significance thresholds are shown for a 1.5-acre disturbed area for a sensitive receptor distance of 25 meters in Source-Receptor Area 11 (South San Gabriel Valley).

As shown in Table 3.3-3, proposed construction activities would not generate emissions in excess of site-specific LSTs, resulting in localized criteria air pollutant emissions impacts less than significant.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed CO “hotspots.” CO transport is extremely limited and disperses rapidly with distance from the source. Under

certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels affecting sensitive receptors. Typically, high CO concentrations are associated with severely congested intersections operating at an unacceptable level of service (level of service E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots.

Title 40 of the Code of Federal Regulations, Section 93.123(c)(5), Procedures for Determining Localized CO, PM₁₀, and PM_{2.5} Concentrations (Hot-Spot Analysis), states that “CO, PM₁₀, and PM_{2.5} hot-spot analyses are not required to consider construction-related activities, which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established ‘Guideline’ methods. Temporary increases are defined as those that occur only during the construction phase and last 5 years or less at any individual site” (40 CFR 93.123). While project construction would involve on-road vehicle trips from trucks and workers during construction, construction activities would last approximately 12 months and would not require a project-level construction hotspot analysis.

Regarding operations, as the project is anticipated to result in similar traffic volumes as the existing site, project-related mobile emissions are not expected to contribute significantly to CO concentrations and a CO hotspot is not anticipated to occur. In addition, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. The project would result in a less-than-significant impact to air quality with regard to potential CO hotspots.

Toxic Air Contaminants

The project entails construction activity adjacent to residences, which would expose receptors to common construction emissions that qualify as toxic air contaminants (TAC). The greatest potential for TAC emissions during project construction would be diesel particulate matter emissions from heavy equipment operations and heavy-duty trucks. Use of heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions; use of diesel trucks is also subject to an Airborne Toxics Control Measure. Based on the adjacent residential receptors, a quantitative health risk assessment (HRA) was prepared for the project. The following discussion summarizes the dispersion modeling, HRA methodology, and results for the proposed project; supporting HRA documentation, including detailed assumptions, is presented in Appendix B.

The SCAQMD has adopted a cancer risk threshold of 10 in a million (SCAQMD 2023), which indicates that a person has an additional risk of 10 chances in a million (0.001%) of developing cancer during their lifetime as a result of the air pollution scenario being evaluated. For context, the National Cancer Institute estimates that approximately 40.5% of people will be diagnosed with cancer during their lifetimes (National Cancer Institute 2024). The SCAQMD has also adopted a hazard index less than 1.0, below which indicates that people are not likely to experience any non-cancer health effects (SCAQMD 2023).

The SCAQMD’s Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2025) provides guidance to perform dispersion modeling for use in HRAs within the SCAB. The cancer risk parameters for exposure to TACs, such as age-sensitivity factors, daily

breathing rates, exposure period, fraction of time at home, and cancer potency factors used in the analysis herein are based on the values and data recommended by the Office of Environmental Health Hazard Assessment (OEHHA) *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments 2015* (2015 Risk Assessment Guidelines Manual) (OEHHA 2015), as implemented in the Hotspots Analysis and Reporting Program Version 2 (HARP2). Accordingly, this HRA evaluates and reflects conservative, health-protective methodologies to assess health impacts to adults, as well as infants, children, and other sensitive subpopulations.

For risk assessment purposes, PM₁₀ in diesel exhaust is considered diesel particulate matter, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks).

Air dispersion modeling was performed using the EPA's AERMOD Version 24142 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 13.0. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected as representative of the project site and project activities. Principal parameters of this modeling are presented in Table 3.3-5.

Table 3.3-5. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	The latest 5-year meteorological data for the Chino Airport Station (KCNO) from SCAQMD were downloaded, then input to AERMOD.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected (SCAQMD 205).
Terrain Characteristics	Digital elevation data were imported into AERMOD and elevations were assigned to receptors and emission sources, as necessary. Digital elevation data were obtained through the AERMOD View in the U.S. Geological Survey's National Elevation Dataset format with a resolution of 1 arc-second resolution.
Source Release Characterizations	The following modeling parameters for emissions sources were incorporated into AERMOD. These parameters were obtained from information published by regulatory agencies and represent the best available information at the time of this writing. <u>Construction:</u> Off-road equipment and trucks were modeled as a line of adjacent volume sources across the project site with a release height of 5 meters, a plume height of 10 meters, and plume width of 10 meters (SCAQMD 2008a).
Receptors	A nested grid of receptors was centered over the project site with the following resolutions: 20-meter spacing from project site boundary to 100 meters 50-meter spacing from 100 meters to 500 meters 100-meter spacing from 500 meters to 1,000 meters

Source: SCAQMD 2008a; SCAQMD 2025.

Notes: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District.

See Appendix B for complete model parameter inputs.

The health risk calculations presented herein were performed using the HARP2 Air Dispersion and Risk Tool (ADMRT, Version 22118). The exposure parameters included in HARP2 are described below:

- Maximally Exposed Individual Resident (MEIR): For residential receptors during project construction, TAC exposure was assumed to begin in the 3rd trimester of pregnancy (assumed to be the worst-case scenario for cancer risk per the OEHHA 2015 Risk Assessment Guidelines Manual) for a duration of 1 years.

Results of the construction HRA without mitigation are presented in Table 3.3-6.

Table 3.3-6. Construction Health Risk Assessment Results - Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk – MEIR	Per Million	13.1	10	Potentially Significant
Chronic Hazard Index – MEIR	Index Value	0.013	1.0	Less than Significant

Source: Appendix B.

Note: CEQA = California Environmental Quality Act.; MEIR = maximally exposed individual resident.

As shown in Table 3.3-6, the results of the construction HRA for the project demonstrate that the unmitigated construction diesel particulate matter emissions would result in a potential maximum cancer risk at the MEIR that would exceed the 10 in a million-cancer risk threshold; however, construction emissions would be below the Chronic Hazard Index threshold. Therefore, TAC emissions from construction of the project would result in a potentially significant impact. **MM-AQ-1**, which requires use of Tier 4 engines for off-road equipment to reduce diesel particulate matter emissions during project construction, would be incorporated into the project, as detailed below.

Table 3.3-7 summarizes the results of the HRA after implementation of **MM-AQ-1** for construction of the proposed project. After mitigation, TAC exposure from construction diesel exhaust emissions would result in cancer risk below the 10 in 1 million threshold and the Chronic Hazard Index would still be less than the 1.0 threshold. Therefore, after mitigation, the project would result in a less-than-significant impact related to exposure to TAC emissions during construction.

Table 3.3-7. Construction Health Risk Assessment Results - Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Cancer Risk – MEIR	Per Million	5.92	10	Less than Significant
Chronic Hazard Index – MEIR	Index Value	0.0058	1.0	Less than Significant

Source: Appendix B.

Note: CEQA = California Environmental Quality Act.; MEIR = maximally exposed individual resident.

Includes implementation of **MM-AQ-1**.

Valley Fever

San Bernardino County is not considered a highly endemic region for Valley Fever. Even if present at the site, construction activities may not result in increased incidence of valley fever. Propagation of valley fever is dependent on climatic conditions, with the potential for growth and surface exposure highest following

early seasonal rains and long dry spells. Valley Fever spores can be released when filaments are disturbed by earth-moving activities, although receptors must be exposed to and inhale the spores to be at increased risk of developing valley fever. Moreover, exposure to valley fever does not guarantee that an individual would become ill—approximately 60% of people exposed to the fungal spores are asymptomatic and show no signs of an infection (U.S Geological Survey 2000).

In order to reduce fugitive dust from the project and minimize adverse air quality impacts, the project would employ dust control measures in accordance with SCAQMD Rules 401 and 403, which limit the amount of fugitive dust generated during construction. These requirements are consistent with California Department of Public Health recommendations for the implementation of dust control measures, including regular application of water during soil-disturbance activities, to reduce exposure to Valley Fever by minimizing the potential that the fungal spores become airborne (California Department of Public Health 2022). Further, regulations designed to minimize exposure to valley fever hazards are included in Title 8 of the California Code of Regulations and would be complied with during the project's construction phase (California Department of Industrial Relations 2025).

In summary, the project would not result in a significant impact attributable to Valley Fever exposure based on its geographic location and compliance with applicable regulatory standards and dust control measures, which would serve to minimize the release of and exposure to fungal spores. Therefore, impacts associated with valley fever exposure for sensitive receptors would be less than significant.

Health Effects of Criteria Pollutants

Short-term project construction would not exceed the significance thresholds for any criteria air pollutants. Once construction is complete, project operation is anticipated to entail similar routine maintenance and operation as performed by the City for the current facilities. Therefore, the project would not result in an increase operational emissions including daily vehicle trips to and from the project site and operational criteria pollutants and impacts would be less than significant.

VOCs and NO_x are precursors to O₃, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. The health effects associated with O₃ include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2025a). The contribution of reactive organic gases and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SCAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O₃ CAAQS/NAAQS tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O₃ precursors is speculative due to the lack of quantitative methods to assess this impact. However, the project would not exceed the significance thresholds for VOC or NO_x; therefore, implementation of the project would contribute minimally to regional O₃ concentrations and the associated health effects.

Health effects associated with NO_x and NO₂ (which is a constituent of NO_x) include lung irritation and enhanced allergic responses (CARB 2025b). However, because project generated NO_x emissions would not exceed the significance threshold during construction or operations, the project would not result in potential health effects associated with NO₂ and NO_x.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2025c). CO tends to be a localized impact associated with congested intersections. The associated potential for CO hotspots was discussed previously and determined to be a less-than-significant impact. Thus, the project's CO emissions would not contribute to significant health effects associated with this pollutant.

Health effects associated with particulate matter include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2025d). Construction of the project would not exceed the LSTs for PM₁₀ or PM_{2.5} and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter or obstruct the SCAB from coming into attainment for these pollutants. Due to the minimal contribution of particulate matter during construction and operation, the project is not anticipated to result in health effects associated with PM₁₀ or PM_{2.5}.

In summary, because implementation of the project would not result in exceedances of the SCAQMD significance thresholds during construction and operation, the potential health effects associated with criteria air pollutants are considered less than significant with mitigation.

Mitigation Measures

MM-AQ-1 Require Use of Tier 4 Off-Road Equipment During Construction.

Prior to the commencement of any construction activities, the Project applicant or its designee shall provide evidence to the City of Chino (City) that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 interim.

An exemption from this requirement may be granted under the following two conditions:

- (1) The applicant's construction contractor shall demonstrate that at least three construction fleet owners/operators in San Bernardino County were contacted and that those owners/operators confirmed Tier 4 interim or final equipment could not be located within San Bernardino County during the desired construction schedule.
- (2) The proposed replacement equipment has been evaluated using the California Emissions Estimator Model or other industry standard emission estimation method and documentation has been provided to the City to confirm that necessary project-generated emissions reductions are achieved.

d) *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

Less-than-Significant Impact. Based on available information, the project is not anticipated to result in other emissions that have not been addressed under Section 3.3(a) through Section 3.3(c). As such, this analysis focuses on the potential for the project to generate odors.

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

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

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The project does not propose and would not engage in any of these activities or other potential activities that would generate operational odors. The project entails constructing and operating a replacement for the existing Benson Reservoir and would not create any new sources of odors during operation. Therefore, the project would result in an odor impact that is less than significant.

3.4 Biological Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. BIOLOGICAL RESOURCES – Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

The following analysis relies on a biological resources assessment utilizing the most recent relevant literature, published research, maps, soil data, biological baseline information, special-status habitats, and species distribution data to assess the potential for biological resources to occur within the project site.

Literature Review

The following data sources were reviewed to assist with the analysis:

- California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDDB) (CDFW 2024a)
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) (USFWS 2024a)
- California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Vascular Plants (Inventory) (CNPS 2024)
- USFWS National Wetlands Inventory Wetland Mapper online viewer (USFWS 2024b)
- CDFW Biogeographic Information and Observation System (CDFW 2024b)
- Current and historical aerial imagery and topographic maps (Google Earth 2024; NETR 2024)

Field Visit

Dudek Biologist Josh Elson performed a field survey on October 17, 2024 from 11:00 a.m. to 1:11 p.m. Temperatures during the survey were between 64°F and 69°F, with 100% cloud cover and wind speeds ranging between 3 and 9 miles per hour. The biological survey included vegetation mapping, the mapping of sensitive biological resources that may be present within the project site, and an evaluation of the potential for special-status species to occur. One vegetation community and two land cover types were identified in the project area during the field visit as shown in Figure 3.4-1, Vegetation Communities and Land Covers. Representative photos of vegetation and land covers within the project site are presented in Appendix C1, Site Photos, to this MND, and species lists are included as Appendix C2, Biological Resources Species Compendium, to this MND

- a) **Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**

No Impact. There are 43 special-status plant species and 92 special-status wildlife species with recorded CDFW CNDDDB or CNPS Inventory occurrences in the U.S. Geologic Survey's Ontario, California 7.5-minute topographic quadrangle, in which the project is located, and eight surrounding quadrangles (CDFW 2024a; CNPS 2024; USFWS 2024a) or were returned in the USFWS IPaC query. For a full list of species identified within the project sites, see Appendix C.

The study area is primarily developed, with areas of disturbed habitat present in the western and southern portions of the study area, in the vacant fields adjacent to the project parcel. Additionally, there is an area of emergent wetland vegetation dominated by cattail (*Typha spp.*) species present within the retention basin in the central-southern portion of the site.

The fields adjacent to the study area were dominated by Russian thistle (*Salsola tragus*) and other non-native ruderal herbaceous species at the time of the site visit, with a cover of non-native grass also present. The areas appeared to have been recently mowed, and historic aerial imagery indicates that the fields were previously used for agriculture and were subject to associated disturbances (discing, tilling, pesticide/herbicide application) in the past. They are also surrounded by contiguous urban development and isolated from any nearby open spaces or wildlife corridors, with the nearest being Chino Hills State Park 6 miles to the southeast. Furthermore, no ground squirrel burrows were observed in these areas during the site visit. Given these disturbances, the area's isolation, and the lack of observed ground squirrel burrows, these areas are not expected to provide suitable habitat for any special-status plants or wildlife.

The retention basin on site is dominated by cattails, golden crownbeard (*Verbesina encelioides*), common knotweed (*Persicaria lapathifolia*), and sprangletop (*Leptochloa fusca*). Given the small size and isolation of this vegetation community within the surrounding urban development, it is not expected to provide suitable habitat for any special-status plants or wildlife.

No special-status plants or wildlife were found to have a potential to occur (see Appendix C3, Special-Status Plant Species Potential to Occur, and Appendix C4, Special-Status Wildlife Species Potential to Occur, to this MND); therefore, any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS, is not expected to occur due to the lack of suitable habitat. No impact on these biological resources would occur as a result of the project.

- b) **Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**

No Impact. The project site primarily supports two land cover types, disturbed habitat and urban/developed, and the project site is located in a relatively flat area (see Figure 3.4-1). There is an area of emergent wetland vegetation dominated by cattail (*Typha spp.*) species present within the retention basin in the central-southern portion of the site, but it is artificial in nature and exists only as a result of runoff from the reservoir. It is isolated from any other waterways and no riparian wildlife species were observed within this area during the site visit. Furthermore, this retention basin is already subject to regular maintenance. As such, this vegetation is of low habitat value.

As part of project improvements, new pipes would be installed in northern side and eastern side of this retention basin to connect the retention basin to the new reservoir and to a new, second retention basin that would be constructed to the east. The vegetation within the existing retention basin would likely be cleared to facilitate these improvements. Given the low habitat value of this vegetation and its relatively small area (approximately 0.13 acre), impacts to riparian habitat would be less than significant.

Besides the retention basin, the project site does not contain any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or USFWS. Given these site conditions, no impact to sensitive natural communities would occur as a result of the project.

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

No Impact. The USFWS's National Wetland Inventory does not show any wetland features within the project site (USFWS 2024b). While there is an area of emergent wetland vegetation present, it is isolated and not connected to a Traditional Navigable Water (EPA 2024), so this feature is not subject to U.S. Army Corp of Engineers jurisdiction (Clean Water Act 1972). Furthermore, it is not subject to the jurisdiction of the Los Angeles RWQCB due to it being an artificial wetland (present as the result of runoff from the reservoir) of less than an acre in area (SWRCB 2021). The project site does not contain any state or federally protected wetlands and no impact to these resources would occur as a result of the project.

- d) ***Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?***

Less-than-Significant Impact with Mitigation Incorporated. Wildlife species observed during the biological resources survey include common avian species found in an urbanized settings such as American crow (*Corvus brachyrhynchos*), black phoebe (*Sayornis nigricans*), Anna's hummingbird (*Calypte anna*), and house finch (*Haemorhous mexicanus*). The project site is not located within any designated wildlife corridors or habitat linkages, so impacts on wildlife corridors and habitat connectivity would not occur as a result of the project. However, on-site trees and shrubs provide suitable nesting habitat for bird species protected under the Migratory Bird Treaty Act (16 USC 703–712) and Fish and Game Code Sections 3503.5, 3503, and 3513. Vegetation trimming or removal associated with the project could cause mortality to young or breeding adults and/or destruction of eggs or active nests if occurring during the general nesting season of February 1 through August 31. Implementation of **MM-BIO-1**, which requires nesting bird avoidance, would reduce potential direct impacts to nesting birds to a less-than-significant level.

Potential short-term indirect impacts to special-status wildlife could result from noise generated by construction activities conducted during the avian breeding season (February 1 through August 31). Construction-related noise has the potential to disrupt reproductive and feeding activities for nesting birds, potentially causing mortality due to the abandonment of an active nest. These indirect impacts would be considered significant, absent mitigation. Implementation of **MM-BIO-1** would reduce these potential indirect impacts to nesting birds to a less-than-significant level.

Mitigation Measures

MM-BIO-1 **Nesting Bird Avoidance.** Project construction shall be conducted in compliance with the conditions set forth in the Migratory Bird Treaty Act and California Fish and Game Code to protect active bird/raptor nests. Vegetation removal shall occur during the non-breeding season for nesting birds and nesting raptors (September 1–January 31) to avoid impacts to nesting birds and raptors. If the project requires that work be performed during the breeding season for nesting birds (February 1–August 31) and nesting raptors (February 1–June 30), a pre-construction survey shall be conducted in the study area by qualified biologists for nesting birds and/or raptors within 3 days before project activities in order to avoid direct impacts on active nests. If the biologist does not find any active nests within or immediately adjacent to the impact areas, the vegetation clearing/construction work shall be allowed to proceed.

If the biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the biologist shall delineate an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activity. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified biologist: (1) clearing limits shall be established within a buffer around any occupied nest; and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified biologist. The buffer shall be 100–300 feet for non-raptor nesting birds and 300–500 feet for nesting raptors. Construction can proceed into the buffer if the qualified biologist determines that the nest is no longer active.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

No Impact. The project would not conflict with any local policies or ordinances protecting biological resources. The project activities are primarily limited to developed and non-native areas within the Benson WTP complex, and the City of Chino does not have a tree ordinance that protects trees on private property. No impact would occur.

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

No Impact. The study area is not within any habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan (CDFW 2024c). Accordingly, the projects would not conflict with the provisions of an adopted conservation plan, and no impact would occur.

3.5 Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☒	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

The Cultural Resources Inventory Report is included as Appendix D to this IS/MND and includes further detail on the background and methodologies regarding the cultural resources inventory.

a) *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?*

Less Than Significant Impact. Historic-age structures are those that are built more than 45 years ago and, therefore, have the potential to be considered historical resources pursuant to Section 15064.5 of the CEQA Guidelines. While some historical resources are also considered archaeological resources, such resources are addressed in Section 3.5(b), as part of the discussion of archaeological resources.

Dudek conducted an online review of historical aerial photographs and historical topographic maps to better understand the development of the project area and surrounding vicinity over time. Historic aerial photographs of the project area were available from 1938 to 2022 ([National Environmental Title Research] NETR 2024) depicting ground-disturbing activities as the site transitioned from an agricultural field into a part of the City's public water system. This review revealed one historic-age structure (e.g., water tank) is located within the project area, the structure is over 50 years old and considered a built environment resource. However, built environment features and structures of this type are unlikely to meet significance criteria required for California Register of Historic Resources and National Register of Historic Places listing. As such, the water tank is not a historical resource of significance for California Register of Historical Resources and National Register of Historic Places listing.

On October 10, 2024, Dudek conducted a California Historical Resources Information System records search of the project area and a 1-mile radius at the South Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton, in Fullerton, California. The records search results identified that a total of 12 previous cultural resources studies have been conducted within 1 mile of the project area (Table 3.5-1). None of the 12 previous cultural resources studies intersect the project

area. The SCCIC records search did not identify any cultural resources within the project area or 1 mile of the project area.

Table 3.5-1. Cultural Resources Studies within 1 Mile of Project Area

Report Number	Authors	Date	Title
Outside Project Area			
SB-00456	Hearn, Joseph E.	1976	Archaeological - Historical Resources Assessment ff Land Area Bounded by Central Avenue on the West, Francis Street on the South, Vernon Avenue on the East, and Phillips Street on the North
SB-00550	Hearn, Joseph E.	1977	Cultural Resource Evaluation off the Area of Tentative Tract #10126, Rancho Santa Ana Del Chino
SB-00866	San Bernardino County Museum Association	1979	Cultural Resources Assessment: Central Avenue at Phillips Boulevard, Ho 7304
SB-03565	Duke, Curt	1999	Cultural Resource Assessment for Pbms Facility Cm 353-01, County of San Bernardino, California. 4pp
SB-04095	Fulton, Phil and Caprice D. Harper	2004	Cultural Resource Assessment: Cingular Wireless Facility No. Sb 281-01, Ontario, San Bernardino County, California. 15pp
SB-04499	Gordon, Beth	2005	Historic Resources Report: Lsanc 8121/Narod Substation, 1465 S. Oaks Ave, Ontario, San Bernardino County, California. 14pp
SB-04511	Aislin-Kay, Marnie	2005	Cultural Resources Records Search & Site Visit Results For Cingular Telecommunications Facility Candidate Cm-353-01 (Sv005-01), Best Western Hotel, 12018 Central Ave, Chino, San Bernardino County, California. 12pp
SB-04710	Bonner, Wayne H. and Marnie Aislin-Kay	2006	Cultural Resource Records Search and Site Visit Results For Cingular Telecommunications Facility Candidate Sv-005-03 (Patrick Grabowski), 12018 Central Avenue, Chino, San Bernardino County, California.
SB-06787	Tang, Bai "Tom", Deirdre Encarnacion, and Daniel Ballester	2008	Historical/Archaeological Resources Survey Report: Chino Groundwater Basin Dry-Year Yield Program Expansion, Los Angeles, Riverside And San Bernardino Counties, California.
SB-07073	Wlodarski, Robert J.	2011	Records Search Results For The Proposed AT&T Wireless Telecommunications Site Sv005 (12018 Central Avenue), Chino, San Bernardino County, California.
SB-07778	Stropes, Tracy A. and Brian F. Smith	2014	Phase I Cultural Resources Survey For The Central And Francis Residential Project, City Of Chino, California.

Table 3.5-1. Cultural Resources Studies within 1 Mile of Project Area

Report Number	Authors	Date	Title
SB-07900	Strudwick, Ivan	2013	Results Of The Prehistoric Cultural Resource Assessment Survey For The Stratham Company 9.17-Acre Central Avenue Project, Assessor's Parcel Number 1014-271-01, City Of Chino, San Bernardino County, California

Source: Appendix D.

Dudek archaeologist Brenda Rogers surveyed the project area on October 17, 2024. The survey noted approximately 40% of the project site is developed with a water treatment plant, associated buildings, tanks, and infrastructure. The remaining space, approximately 60% of the project area, consists of open dirt and gravel. Ground visibility in these areas was good (80%–90%). Soils observed were a brown sandy silt and silty sand with sub angular and angular rocks. Approximately half of the open areas to the east and west of the main building and the reservoir appear to be used for stockpiling spoils from vacuum excavations in the local area. There was evidence of stockpiling fill soils and gravels to the west, and tracks from excavation equipment. There were multiple piles of more freshly deposited fill dirt on the east side of the project area, containing visible foundation fragments and modern trash. No archaeological resources were identified during the survey.

As no resources were identified in the records search or survey, except for the water tank that would likely be ineligible for California Register of Historic Resources or National Register of Historic Places listing, the project would not cause a substantial adverse change in the significance of a known historical resource pursuant to Section 15064.5. Impacts would be less than significant.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?*

Less Than Significant Impact with Mitigation Incorporated. The analysis of project impacts on archaeological resources is primarily based on the results of the SCCIC records search, review of historic maps and aerial images, and the pedestrian survey, which did not identify any previously recorded cultural resources within the project site.

Dudek contacted the Native American Heritage Commission (NAHC) on October 22, 2024, and requested a review of their Sacred Lands File (SLF) for the project site. The SLF consists of a database of known Native American cultural resources. These resources may not be included in the SCCIC database and depicted in the records search results. The NAHC replied via email correspondence on November 8, 2024, stating that the SLF search was completed with negative results. The NAHC additionally provided a list of Native American individuals and/or tribal organizations with traditional geographic associations that should be contacted for more information on potential tribal sensitivities regarding the project.

Based on the negative results of the SCCIC records search, NAHC SLF request, and pedestrian survey, the project would not cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5. However, the potential for encountering unknown subsurface archaeological deposits during ground disturbance activities associated with project construction

cannot be ruled out. Therefore, the City would implement **MM-CUL-1**, described below, to ensure that the potential for impacts to unknown archaeological resources would be appropriately addressed and reduced to less-than-significant levels.

Mitigation Measures

MM-CUL-1 **Inadvertent Discovery of Archaeological Resources.** In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources have been properly mitigated and with approval by the City.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

Less Than Significant Impact. As discussed above, the project site has undergone ground-disturbing activities as it transitioned from an agricultural field into a water treatment plant. No prehistoric or historic-period burials, including those interred outside of formal cemeteries, were identified within the project site as a result of the California Historical Resources Information System records search, NAHC SLF search, or archival background research. Based on the results of the previous research and ground disturbing activities, the potential for human remains to exist within the project site is considered unlikely. However, it is possible that unknown human remains could be encountered during ground disturbance activities associated with project construction.

In the event that human remains are inadvertently encountered during construction activities, the remains and associated resources must be treated in accordance with state and local regulations that provide requirements with regard to the accidental discovery of human remains, including California Health and Safety Code Section 7050.5, California Public Resources Code Section 5097.98, and CEQA Guidelines Section 15064.5(e). In accordance with these regulations, if human remains are found, the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the project site or any nearby area (within 100 feet of the find) reasonably suspected to overlie adjacent remains must occur until the County Coroner has determined if the remains are potentially human in origin. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she is required to immediately notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) from the deceased Native American. The MLD must then complete their inspection and determine, in consultation with the property owner, the treatment and disposition of the human remains. Therefore, compliance with state and local regulations identified above would ensure that the project would result in less-than-significant impacts related to the inadvertent disturbance of any human remains.

3.6 Energy

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

- a) *Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

Less-than-Significant Impact. Project implementation would result in energy use for construction and operation, including use of electricity and petroleum-based fuels. The following analysis evaluates the potential wasteful, inefficient, or unnecessary consumption of these energy sources during construction and operation.

Construction Energy Use

Electricity

Electricity consumed during project construction would vary throughout the construction period based on the construction activities being performed. Various construction activities would require electricity, including conveying water that would be used for dust control (supply and conveyance), powering any necessary lighting or electronic equipment, or other construction activities necessitating electrical power. Such electricity demand would be temporary, nominal, and would cease upon the completion of construction. Therefore, the use of electricity during project construction would not be wasteful, inefficient, or unnecessary.

Natural Gas

There would be no natural gas used during construction. Equipment and vehicles would be powered by petroleum-based fuels as discussed below. Therefore, the use of natural gas during project construction would not be wasteful, inefficient, or unnecessary.

Petroleum-Based Fuels

Construction of the project would consume energy resources as a result of the use of heavy-duty construction equipment, on-road delivery and haul trucks, and workers commuting to and from the project site. Petroleum emissions associated with the use of construction equipment and vehicles, which were

used to calculate gallons of petroleum consumed, were calculated using CalEEMod and are provided in Appendix B. Fuel consumption from construction equipment was estimated by converting the total carbon dioxide (CO₂) emissions from each construction phase to gallons using the conversion factors for CO₂ to gallons of gasoline or diesel. The conversion factor for gasoline is 8.78 kilograms per metric ton (MT) CO₂ per gallon, and the conversion factor for diesel is 10.21 kilograms per MT CO₂ per gallon (The Climate Registry 2025). The estimated fuel usage from construction of the project is shown in Table 3.6-1.

Table 3.6-1. Total Proposed Project Construction Petroleum Demand

Scenario	Off-Road Equipment (diesel)	Haul Trucks (diesel)	Vendor Trucks (diesel)	Worker Vehicles (gasoline)
	Gallons			
Project Construction	27,463	3,376	1,623	2,164
Total Petroleum Consumed for Project Construction				34,626

Source: Appendix B.

In summary, construction of the project is estimated to consume a total of approximately 34,626 gallons of petroleum. The project would be subject to CARB’s In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate, or that the fleet has met the Best Achievable Control Technology requirements.

Overall, while construction activities would consume petroleum-based fuels, consumption of such resources would be temporary and would cease upon the completion of construction. Further, the petroleum consumed related to construction would be typical of construction projects of similar types and sizes and would not necessitate new petroleum resources beyond what are typically consumed in California. Therefore, because petroleum use during project construction would be temporary and minimal and would not be wasteful or inefficient, impacts would be less than significant.

Operational Energy Use

The project entails constructing and operating a replacement for the existing Benson Reservoir within the City’s Benson WTP complex, and connecting the replacement reservoir to the system, and demolishing the existing reservoir. Upon completion, the project would not result in an increase in operational employees. During long-term operations, as the project involves the replacement of an existing water reservoir tank and associated facilities, the project would not result in a substantial incremental increase in facility operation compared to the existing baseline scenario. Once construction is complete, project operation is anticipated to entail similar routine maintenance and operation as performed by the City for the current facilities. Therefore, the project would not result in an increase in daily vehicle trips to and from the project site Overall, the project would result in similar energy

consumption during operation compared to the existing facilities, including petroleum consumption from staff vehicle trips and electricity consumption from operation of maintenance equipment; the project's operational energy use would be less than significant.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less-than-Significant Impact. The project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR Part 6 and Part 11), where applicable. These energy efficiency standards are reviewed every 3 years by the Building Standards Commission and the California Energy Commission and revised if necessary (PRC Section 25402[b][1]). Part 6 of Title 24 establishes energy efficiency standards for non-residential buildings constructed in California in order to reduce energy demand and consumption. Part 11 of Title 24 sets forth voluntary and mandatory energy measures that are applicable to the project under the California Green Building Standards. Overall, impacts related to the project's potential to conflict with plans for renewable energy and energy efficiency would be less than significant.

3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. GEOLOGY AND SOILS – Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

The analysis in this section is based on the Geotechnical Evaluation prepared for the project by Verdantas in September 2024 (Verdantas 2024).

a) ***Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:***

i) ***Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.***

and

ii) ***Strong seismic ground shaking?***

Less-than-Significant Impact. The project site is located within a seismically active region, as is most of the Southern California region. The project would likely be exposed to seismic ground shaking at multiple points in the future. The intensity of ground shaking at any specific location within the region depends on the characteristics of the earthquakes, the distance from the earthquake epicenter, and the local geologic and soil conditions. Earthquake fault zones are delineated boundaries encompassing active faults that constitute potential hazards to structures from surface faulting or fault creep (DOC 2018).

This site is not located within a current State of California designated Alquist-Priolo Earthquake Fault Zone and there are no known active faults mapped on or trending toward the site. A segment of the Chino-Central Avenue Fault is located approximately 2.7 miles southwest of the project site; however, the Chino-Central Avenue Fault is part of a network of smaller, secondary faults and is classified as an inactive fault that may have low or moderate activity compared to regional faults (City of Chino 2025b). Although the project is not located within a delineated earthquake fault zone, it is located within a seismically active region. However, project construction and operation would not increase or exacerbate the potential for fault rupture to occur.

Therefore, the project would not directly or indirectly cause potential adverse effects involving rupture of a known earthquake fault, and impacts would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. Ground failure is a secondary effect of ground shaking and can include landslides, liquefaction, lurching, and differential settlement. Liquefaction is the loss of soil strength due to seismic forces generating various types of ground failure. Liquefaction occurs when saturated and poorly consolidated granular material is shaken during an earthquake and is transformed into a fluid-like state.

According to maps obtained through the California Department of Conservation and California Geological Survey, the project site is not located in a liquefaction zone (DOC 2025). Due to the relatively dense nature of the underlying soils and absence of shallow groundwater at the project site, the potential for liquefaction on site is considered very low. In compliance with the recommendations of the geotechnical evaluation, the project would be designed in accordance with applicable current building codes and standards utilizing appropriate seismic design parameters intended to reduce seismic risk as defined by California Geological Survey Chapter 2 of Special Publication 117A, minimizing hazards due to liquefaction (Verdantas 2024). Therefore, impacts would be less than significant.

iv) Landslides?

No Impact. Landslides typically occur on moderate to steep slopes that are affected by such physical factors as slope height, slope steepness, shear strength, and orientation of weak layers in the underlying geologic units. The project site is generally flat and previously graded. Additionally, the project site is not located within a landslide susceptibility zone (Verdantas 2024). As such, the project would not result in the creation of moderate to steep slopes that may become susceptible to landslides. As such, no impact would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. Construction of the project would require earthwork activities that could potentially contribute to soil erosion or loss of topsoil. Construction of the project would result in more than 1 acre of land disturbance; therefore, a site-specific SWPPP in accordance with State Water Resources Control Board Order No. 2009 0008 DWQ, National Pollutant Discharge Elimination System General Permit No. CAS00002 (Construction General Permit), amended by Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ, would be prepared and implemented during project construction. One of the purposes of the SWPPP is to address potential pollutants and their sources, including sources of sediment and site erosion. Conditions of these existing regulations would include adherence to sediment and stormwater pollutant control BMPs, such as covering of exposed soil stockpiles, sediment barriers, storm drain protection, and various other measures designed to minimize potential for soil erosion and loss of topsoil. Operation of the Benson WTP complex would not affect erosion. Therefore, the project would not result in substantial soil erosion or the loss of topsoil and impacts would be less than significant.

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

Less-than-Significant Impact. As previously discussed, the project site is not located within a liquefaction or a landslide susceptibility zone. Due to the absence of potentially liquefiable layers, the risk of lateral spreading is considered low (Verdantas 2024).

The geotechnical evaluation included design recommendations that would be incorporated into the final design plans and implemented during construction to minimize potential geotechnical risks, including soil stability, per applicable California Building Code requirements. Therefore, the project would not exacerbate geotechnical hazards related to unstable soils and impacts would be less the significant.

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

Less-than-Significant Impact. Expansive soils are clay-based and tend to increase in volume due to water absorption and decrease in water volume due to drying. The geotechnical evaluation included sampling and analysis of shallow soils on site. The results determined that the surficial soils at the site have a very low expansion potential. Therefore, soil expansion would not pose a potential concern for project implementation. Full project design would include continued geotechnical investigations including sampling and analysis of soils on site. If such conditions are encountered, the project would employ standard engineering protocols to limit the potential effects on project-related infrastructure. Therefore, impacts would be less than significant.

- e) ***Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?***

No Impact. The project would not involve the use of septic tanks or alternative wastewater disposal systems. Therefore, no impact would occur.

- f) ***Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?***

Less-than-Significant Impact with Mitigation. The project site is located within the Peninsular Ranges Geomorphic Province, which is characterized by a series of mountain ranges separated by long valleys formed by faults branching from the San Andreas Fault (CGS 2002). According to surficial geological mapping by Dibblee and Minch (2002) at a 1:24,000 scale and the geological time scale of Cohen et al. (2024), the project site is underlain by Holocene (< 11,700 years ago) alluvial gravel and sand of valley areas (map unit Qa). Morton and Miller (2006) mapped this same area at a 1:100,000 scale as middle Holocene (4,200 to 8,200 years ago) young alluvial fan deposits (map unit Qyf3). The closest Pleistocene deposits are mapped approximately 1.25 miles northwest of the project site. Geotechnical borings for the project did not indicate anything other than young alluvial fan deposits to a depth of 51 feet, with the uppermost 10 feet consisting of loose to medium dense material and below 10 feet down to 30 feet consisting of stiff to hard sands and silts, and below 35 feet dense to very dense poorly graded sands and stiff silts (Verdantas 2024). However, the more indurated sediments could indicate an age of middle Holocene or older and may contain significant paleontological resources. The Society of Vertebrate Paleontology defines fossils as older than middle Holocene.

Dudek requested a paleontological records search from the Natural History Museum of Los Angeles County and the San Bernardino County Museum on January 15, 2025. Results from the NHMLA were received on January 26, 2025. The Natural History Museum of Los Angeles County reported no fossil localities within the project site; however, there are nearby localities from similar sediments that likely underlie the project site on the surface and at depth (Pleistocene sedimentary deposits). The closest of these localities, fossil locality LACM (Los Angeles County Museum) VP (Vertebrate Paleontology) 7811, is approximately 7 miles southeast of the project site, and produced a fossil whipsnake from a fine-grained Pleistocene deposit (unnamed), between 9 and 11 feet below ground surface. The other two localities are located further than 7 miles away from the project site in Pleistocene sedimentary deposits and consist of a mammoth from 100 feet below ground surface and a ground sloth, horse and proboscidean (which includes mammoths and mastodons) from an unknown depth (NHMLA 2025). Results from the San Bernardino County Museum are dated January 31, 2025. They reported no fossil localities from within the project site, but they do have a locality approximately 2.4 miles south-southwest of the project site from both Pleistocene sedimentary deposits and the Puente Formation (SBCM 2025).

The Holocene alluvial deposits, aged less than 11,700 years ago, have not been shown to produce any fossil resources and therefore have low paleontological sensitivity that increases to high sensitivity at depth. In this area, Pleistocene sedimentary deposits (equivalent to older alluvial deposits) are known to be found quite shallow beneath recent Holocene sediments, as shallow as 5 to 15 feet below ground surface (SBCM 2025).

No paleontological resources were identified within the project site as a result of the institutional records search or desktop geological and paleontological review. In addition, the project site is not anticipated to be underlain by unique geologic features. Areas of the project site underlain by Holocene alluvial deposits have low paleontological sensitivity increasing to high with depth. If paleontological resources are located within the project site, ground-disturbing activities associated with construction, such as grading during site preparation, large diameter (2 feet or greater) drilling, and trenching, have the potential to destroy a unique paleontological resource or site. As such, the project site is considered to be potentially sensitive at depth for paleontological resources, and without mitigation, the potential damage to paleontological resources during construction associated with the project is considered a potentially significant impact. Given the proximity of past fossil discoveries in the surrounding area within Pleistocene sedimentary deposits and the shallowness at which these deposits may be encountered beneath Holocene sediments in the area, the project site is considered to be highly sensitive for supporting paleontological resources below the depth of fill and/or to a depth of 5 feet below ground surface. However, with implementation of **MM-GEO-1**, impacts would be reduced to a less-than-significant level.

Mitigation Measures

MM-GEO-1 **Paleontological Monitoring.** Prior to commencement of any grading activity on site, the applicant shall retain a qualified paleontologist per the Society of Vertebrate Paleontology (SVP) (2010) guidelines. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the project. The PRIMP shall be consistent with the SVP (2010) guidelines and should outline requirements for preconstruction meeting attendance and worker environmental awareness training, where monitoring is required within the proposed project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological monitoring and discoveries treatment, and

paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The qualified paleontologist shall attend the preconstruction meeting and a qualified paleontological monitor shall be on site during all rough grading and other significant ground-disturbing activities (including augering) in previously undisturbed, fine-grained Pleistocene sedimentary deposits. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Costs associated with laboratory work and curation fees are the responsibility of the City.

3.8 Greenhouse Gas Emissions

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. GREENHOUSE GAS EMISSIONS – Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

- a) ***Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?***

Less-than-Significant Impact. Greenhouse gases (GHGs) are those that absorb infrared radiation (i.e., trap heat) in the Earth's atmosphere. The trapping and buildup of heat in the atmosphere near the Earth's surface (the troposphere) is referred to as the "greenhouse effect" and is a natural process that contributes to the regulation of the Earth's temperature, creating a livable environment on Earth. The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. Human activities that generate and emit GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. This rise in temperature has led to large-scale changes to the Earth's system (e.g., temperature, precipitation, wind patterns), which are collectively referred to as climate change. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (California Air Pollution Control Officers Association 2008).

As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include CO₂, methane (CH₄), N₂O, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride (see also CEQA Guidelines Section 15364.5). The primary GHGs that would be emitted by project-related construction and operations include CO₂, CH₄, and N₂O.⁶

The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in MT of CO₂ equivalent (CO₂e). The current version of CalEEMod assumes that the GWP for CH₄ is 25 (so emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂), and the GWP for N₂O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence." The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, establish specific thresholds of significance, or mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance that are consistent with the manner in which other impact areas are handled in CEQA (California Natural Resources Agency 2009).

As discussed in Section 3.3, the proposed project is located in the northern portion of the City of Chino, which is in southwestern San Bernardino County and within the jurisdictional boundaries of the SCAQMD. In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document—Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b). This document, which builds on the California Air Pollution Control Officers Association's previous guidance, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO₂e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (SCAQMD 2010). The 10,000 MT CO₂e per-year threshold, which was derived from GHG reduction targets established in Executive Order S-3-05, was based on the conclusion that the threshold was consistent with achieving an emissions capture rate of 90% of all new or modified stationary source projects.

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in

⁶ Emissions of hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride are generally associated with industrial activities, including the manufacturing of electrical components and heavy-duty air conditioning units and the insulation of electrical transmission equipment (substations, power lines, and switch gears). Therefore, emissions of these GHGs were not evaluated or estimated in this analysis because the project would not include these activities or components and would not generate hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, or nitrogen trifluoride in measurable quantities.

a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land-use development projects. The most recent proposal issued by SCAQMD, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

- Tier 1.** Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.
- Tier 2.** Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.
- Tier 3.** Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO₂e per-year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO₂e per year), commercial projects (1,400 MT CO₂e per year), and mixed-use projects (3,000 MT CO₂e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO₂e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.
- Tier 4.** Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO₂e per-service population for project-level analyses and 6.6 MT CO₂e per-service population for plan-level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.
- Tier 5.** Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

To determine the proposed project's potential to generate GHG emissions that would have a significant impact on the environment, its GHG emissions were compared to the SCAQMD 10,000 MT CO₂e per year screening threshold recommended for industrial projects.

Construction

Construction of the project would result in GHG emissions, which are primarily associated with off-road construction equipment, on-road haul and vendor trucks, and worker vehicles. The SCAQMD recommends that "construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies" (SCAQMD 2008b). CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 3.3, Air Quality. Table 3.8-1 presents the GHG emissions resulting from construction of the project. For further detail on the assumptions and results of this analysis, please refer to Appendix B.

Table 3.8-1. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	R	CO ₂ e
	Metric Tons				
2026	119.36	0.01	<0.005	0.02	120.49
2027	227.42	0.01	0.01	0.05	229.94
Total					350.43
<i>Amortized Construction Emissions (Over 30-Years)</i>					<i>11.68</i>

Source: Appendix B.

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; R = refrigerants; CO₂e = carbon dioxide equivalent.

Totals may not sum due to rounding.

As shown in Table 3.8-1, the estimated total GHG emissions during construction would be approximately 350 MT CO₂e. Estimated project-generated construction emissions amortized over 30 years would be approximately 12 MT CO₂e per year. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

The project entails constructing and operating a replacement for the existing Benson Reservoir within the City's Benson WTP complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. Upon completion, the project would not result in an increase in operational employees. During long-term operations, as the project involves the replacement of an existing water reservoir tank and associated facilities, the project would not result in a substantial incremental increase in GHG emissions as compared to the existing baseline scenario. Once construction is complete, project operation is anticipated to entail similar routine maintenance and operation as performed by the City for the current facilities. Therefore, the project would not result in an increase in daily vehicle trips to and from the project site and operational criteria pollutants and impacts would be less than significant.

Overall, since the proposed project would result in a minimal increase in construction and operational GHGs, it would not exceed the SCAQMD threshold of 10,000 MT CO₂e per year for industrial projects nor would it exceed even the most stringent SCAQMD threshold for commercial projects equal to 1,400 MT CO₂e per year. Projects below the significance criterion have a minimal contribution to global emissions and are considered to have less-than-significant impacts. Therefore, operational impacts associated with directly or indirectly generating a significant quantity of GHG emissions would be less than significant.

b) *Would the project generate conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?*

Less-than-Significant Impact. Applicable plans for the project site include City of Chino 2020-2030 Climate Action Plan (CAP), SCAG's 2040–2050 RTP/SCS and CARB's Scoping Plan (SB 32 and AB 1279). Each of these plans is described below along with an analysis of the proposed project's potential to conflict with the related GHG emission reduction goals.

Section 15.45.070 of the CMC, GHG Performance Standard for New Development, states the following:

All new development in the city shall contribute to the reduction of greenhouse gas emissions by demonstrating consistency with the climate action plan by implementing one or a combination of the following three options:

1. Exceed the mandatory California Energy Code Title 24, Part 6 standards, in effect at the time of application submittal by five percent; or
2. Achieve an equivalent reduction through voluntary measures in the California Green Building Standards Code, Title 24, Part 11 (CALGreen) in effect at the time of development application submittal for discretionary review; or
3. Provide other equivalent greenhouse gas (GHG) reductions through measures including, but not limited to, non-vehicle transportation infrastructure, transit, ZEV (zero emission vehicle) infrastructure or other incentives, waste diversion, water conservation, tree planting, renewable energy option packages, or any combination of these or other measures such that GHG emissions are reduced by 0.074 MT CO₂e per residential dwelling unit per year and/or per thousand square feet of commercial/industrial use per year.

Applicants that choose Option 1 described above will be required to verify that their project meets the five percent improvement above the mandatory standards through the appropriate certificate of compliance form for residential construction (CF-1R) or for commercial/industrial construction (PERF-1C). Applicants that choose Options 2 or 3 described above will be required to utilize the GHG Performance Standard Checklist developed by the city, or provide other valid documentation, such as CalEEMod or other methodologies, as verified by the director of development services to demonstrate the required GHG reductions consistent with the city's CAP (Ord. 2022-015 , § 1, 7-19-2022; Ord. No. 2023-017, § 2, 2023). The project does not represent new development since it is replacing existing infrastructure; therefore, the GHG Performance Standards for New Development are not applicable to the project. The CAP's applicability to the project is discussed below.

Project Potential to Conflict with the City of Chino 2020-2030 Climate Action Plan

The 2020-2030 CAP includes measures to reduce GHG emissions within the City, which are grouped into the following strategy areas: Energy; On-Road Transportation; Solid Waste Management; Wastewater Treatment; Water Consumption; and GHG Performance Standard for New Development (City of Chino 2020a). Notably, the GHG Performance Standard for New Development is based on screening tables, where a project that identifies design features that reduce GHGs and has corresponding point values that achieve 100 points or more are considered consistent with the reduction goals included in the CAP and would be determined to have a less than significant impact under CEQA. However, as the proposed project does not fit into the typical land use categories of residential, commercial, or industrial projects that the screening tables are based on, the screening tables provided in the CAP to determine consistency are not directly applicable.

The Benson Reservoir was constructed and commissioned in 1961. A condition assessment by the City determined the reservoir is in poor condition and is nearing the end of its service life. Benson Reservoir is deficient of current seismic standards, with inadequate freeboard capacity above the maximum operating level, insufficient foundation anchoring, and a foundation that does not meet seismic load requirements. Through the project, the City is planning to replace the Benson Reservoir to ensure its continued ability to

provide a safe and reliable source of potable water to its customers and a source of fire-suppression water. In lieu of the CAP screening tables, a qualitative analysis evaluating the project's potential to conflict with the most applicable strategies set forth in the 2020-2030 CAP is provided below in Table 3.8-2.

Table 3.8-2. Project Potential to Conflict with the 2020-2030 CAP

CAP Reduction Strategies	Project Potential to Conflict
Energy	No Conflict. The project consists of the replacement of existing water infrastructure approaching end of service life. The project will ensure the City has the continued ability to provide a safe and reliable source of potable water to its customers and a source of fire-suppression water. The project would not conflict with the City's ability to implement this strategy.
On-Road Transportation	No Conflict. The increase in traffic during project construction would be temporary and would cease at the conclusion of construction activities. Operation is expected to entail similar routine maintenance and operations as performed by the City for the current facilities. Therefore, the project would not result in an increase in daily vehicle trips to and from the project site. The project would not conflict with the City's ability to implement this strategy.
Solid Waste Management	No Conflict. During operation, the project would be operated similarly as routine maintenance and operations performed by the City for the current facilities and any solid waste generated would be minimal. However, the project would comply with all applicable local and state requirements for refuse collection and diversion. The project would not conflict with the City's ability to implement this strategy.
Wastewater Treatment	No Conflict. This strategy pertains to the use of recycled water at appropriate businesses and industries and is not directly applicable to the project. Wastewater generation would be negligible. The project would not conflict with the City's ability to implement this strategy.
Water Consumption	No Conflict. The project is not a water consuming project, but a water treatment and storage facility for distribution to end users within the City and for fire protection. The project would not conflict with the City's ability to implement this strategy.
GHG Performance Standard for New Development (Screening Tables)	Not Applicable. As a water infrastructure facility, the project would not include most of the sources/categories that the design features and points are based on in the screening tables. Although the screening tables would not directly apply to the project, the project would support the overall GHG reduction goals in the 2020-2030 CAP as described for the other CAP Reduction Strategies above.

Source: City of Chino 2020a.

Notes: CAP = Climate Action Plan; RPS = Renewables Portfolio Standard; SB = Senate Bill; VMT = vehicle-miles traveled; CALGreen = California Green Building Standards; GHG = greenhouse gas emissions.

As shown in Table 3.8-2, the project would not conflict with the applicable strategies in the 2020-2030 CAP.

Project Consistency with SCAG's 2040-2050 RTP/SCS

On April 4, 2024, SCAG adopted the 2024-2050 RTP/SCS, also referred to as Connect SoCal 2024. Connect SoCal 2024 builds on the prior RTP/SCS and identifies the following strategy areas to support its environmental goals: Sustainable Development, Air Quality, Clean Transportation, Natural and Agricultural

Lands Preservation, and Climate Resilience (SCAG 2024). The primary objective of the RTP/SCS is to provide guidance for future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region, as stipulated under SB 375. Given that the proposed project involves the replacement of an existing water reservoir approaching end of service life, the goals and strategies of the RTP/SCS are not directly applicable. As such, the proposed project would not conflict with the goals and policies of the RTP/SCS and impacts would be less than significant.

Project Consistency with State Reduction Targets and CARB's Scoping Plan

The California State Legislature passed the Global Warming Solutions Act of 2006 (AB 32) to provide initial direction to limit California's GHG emissions to 1990 levels by 2020 and initiate the state's long-range climate objectives. Since the passage of AB 32, the state has adopted GHG emissions reduction targets for future years beyond the initial 2020 horizon year. For the proposed project, the relevant GHG emissions reduction targets include those established by SB 32 and AB 1279, which require GHG emissions be reduced to 40% below 1990 levels by 2030, and 85% below 1990 levels by 2045, respectively. In addition, AB 1279 requires the state to achieve net zero GHG emissions by no later than 2045 and achieve and maintain net negative GHG emissions thereafter.

As defined by AB 32, CARB is required to develop the Scoping Plan, which provides the framework for actions to achieve the state's GHG emission targets. The Scoping Plan is required to be updated every 5 years and requires CARB and other state agencies to adopt regulations and initiatives that would reduce GHG emissions statewide. The first Scoping Plan was adopted in 2008, and it was updated in 2014, 2017, and most recently in 2022. Although the Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations,⁷ it is the official framework for the measures and regulations that would be implemented to reduce California's GHG emissions in alignment with the adopted targets. Therefore, a project would be found to not conflict with the statutes if it would meet the Scoping Plan policies and would not impede attainment of the goals therein.

CARB's 2017 Scoping Plan update was the first to address the state's strategy for achieving the 2030 GHG reduction target set forth in SB 32 (CARB 2017); the most recent CARB 2022 Scoping Plan update outlines the state's plan to reduce emissions and achieve carbon neutrality by 2045 in alignment with AB 1279 and assesses progress toward the 2030 SB 32 target (CARB 2022). As such, given that SB 32 and AB 1279 are the relevant GHG emission targets, the 2017 and 2022 Scoping Plan updates are the most applicable to the proposed project.

The 2017 Climate Change Scoping Plan Update included measures to promote renewable energy and energy efficiency (including the mandates of SB 350), measures to increase stringency of the Low Carbon Fuel Standard, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant Plan, and measures to increase stringency of SB 375 targets. The 2022 Scoping Plan for Achieving Carbon Neutrality builds upon and accelerates programs currently in place, including moving to zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable

⁷ The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "the Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009).

options for walking, biking, and public transit; and displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines) (CARB 2022).

Many of the measures and programs included in the Scoping Plan would result in the reduction of project-related GHG emissions with no action required at the project-level, including GHG emission reductions through increased energy efficiency and renewable energy production (SB 350), reduction in carbon intensity of transportation fuels (Low Carbon Fuel Standard), and the accelerated efficiency and electrification of the statewide vehicle fleet (Mobile Source Strategy). Given that the proposed project is also not anticipated to result in substantial increase in mobile trips (see Section 3.17, Transportation), the project would not conflict with the 2017 update's goal of reducing GHG emissions through reductions in vehicle miles traveled (VMT) statewide.

The 2045 carbon neutrality goal required CARB to expand proposed actions in the 2022 update to include those that capture and store carbon in addition to those that reduce anthropogenic sources of GHG emissions. The proposed project would support the state's carbon neutrality goals, as implementation includes addition of urban trees and native plantings throughout the project site, which represent opportunities for potential carbon removal and sequestration over the project lifetime. However, the 2022 update emphasizes that reliance on carbon sequestration in the state's natural and working lands would not be sufficient to address residual GHG emissions, and achieving carbon neutrality would require research, development, and deployment of additional methods to capture atmospheric GHG emissions (e.g., mechanical direct air capture). Given that the specific path to neutrality would require development of technologies and programs that are not currently known or available, the project's role in supporting the statewide goal would be speculative and cannot be wholly identified at this time.

Overall, the proposed project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent applicable and required by law. As mentioned above, several Scoping Plan measures would result in reductions of project-related GHG emissions with no action required at the project-level, including those related to energy efficiency, reduced fossil fuel use, and renewable energy production. As demonstrated here in, the proposed project, which includes replacement of existing end of service life water reservoir infrastructure, would not conflict with CARB's 2017 or 2022 Scoping Plan updates or with the state's ability to achieve the 2030 and 2045 GHG reduction and carbon neutrality goals.

Based on the preceding considerations, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions, and impacts would be less than significant.

3.9 Hazards and Hazardous Materials

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

- a) ***Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?***

Less-than-Significant Impact. Relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, adhesive materials, grease, solvents, and architectural coatings would be used during construction. Operation and maintenance of the project would also require routine use of

common hazardous substances. These materials are used routinely throughout urban environments for construction projects and operation of utility infrastructure. These materials would be transported and handled in accordance with all federal, state, and local laws regulating the management and use of hazardous materials. Consequently, use of these materials for their intended purpose would not pose a significant risk to the public or environment. With adherence to state and local regulations, impacts associated with routine transport, use, and disposal of hazardous materials would be less than significant.

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

Less-than-Significant Impact. As discussed under Section 3.9(a), construction and operation would involve relatively small amounts of commonly used hazardous substances such as gasoline, diesel fuel, lubricating oil, grease, adhesive materials, and solvents. These materials are not considered acutely hazardous and are used routinely throughout urban environments for both construction and operation of projects. Further, these materials would be transported, handled, and disposed in accordance with all federal, state, and local laws regulating the management of, spill prevention, and spill response, related to, hazardous materials.

Asbestos and lead-based paint testing was performed on the existing Benson Reservoir. Asbestos was not detected in any samples. Lead content within the site soils was below Title 17, EPA, and California Department of Toxic Substances Control guidelines for non-residential areas. However, lead-based paint was detected on the reservoir, as well as on several areas of aboveground pipe (Dudek 2025). The Contract Documents for the project would include language that requires the Contractor to comply with all Occupational Safety and Health Administration Regulations (Title 8 CCR Section 1532.1 and 29 CFR 1926.62), and complete or satisfy the California Division of Occupational Safety and Health lead training requirement. The Contract Documents would also include the Asbestos, Lead-Based Paint, and Soil Testing Report to ensure all contractors and affected personnel are informed of the results (Dudek 2025). With implementation of the requirements of Occupational Safety and Health Administration Regulations or completion of the California Division of Occupational Safety and Health lead training, adherence to all appropriate federal, state, and local rules and regulations regarding lead-based paint, impacts would be less than significant.

With adherence to state and local regulations, impacts associated with reasonably foreseeable upset and accident conditions would be less than significant.

- c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?***

No Impact. The nearest school to the project site is Vista Grande Elementary School located approximately 0.3 miles to the northeast. As there are no schools located within 0.25 miles of the project site, the proposed project would not emit or handle hazardous materials within 0.25 miles of a school. No impact would occur.

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

No Impact. According to the Department of Toxic Substances Control's EnviroStor database, no sites or facilities are located within or adjacent to the project site. The nearest identified active site is the Country Fair Shopping Center, a Voluntary Cleanup Site, located approximately 0.45 miles southwest of the project site (DTSC 2024). Other state and local government agencies are required to provide additional hazardous materials release information for the Cortese List. The State Water Resource Control Board's GeoTracker database identifies leaking underground storage tanks, waste discharge sites, oil and gas sites, and other waste or cleanup sites. A review of GeoTracker did not identify any open cleanup sites or facilities within or adjacent to the project site. The nearest active cleanup site is Sunshine Cleaners (ID No. T10000005696), located approximately 1.75 miles southeast of the project site (SWRCB 2024). These hazardous materials sites are located at adequate distances from the project site such that they would be of no concern to present a worker hazard for construction crews. Therefore, no impact would occur.

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

No Impact. The project site is approximately 3.5 miles southwest of the Ontario International Airport and approximately 4.5 miles northwest of the Chino Airport. The project site does not fall within the airport land use plan for these airports. The project is not located within 2 miles of a public use airport, nor is it located within an airport land use plan. As such, there would be no excessive noise or safety hazards affecting the project, and no impact would occur.

- f) ***Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?***

Less-than-Significant Impact. The City has prepared a Local-Hazard Mitigation Plan. The hazard mitigation plan is a document that contains information to assist communities in reducing risk from hazards by identifying resources, information, and strategies for risk reduction (City of Chino 2025c). The proposed project would involve construction within the existing Benson WTP Complex and would not include construction within the public right-of-way. During construction of the project, temporary construction and staging areas would be located within the existing Benson WTP Complex. Full or partial closures of any public roads are not anticipated for project construction. If temporary closures of South Benson Avenue or adjoining roadways are required for project construction, the temporary closures would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval, which would demonstrate that emergency access or evacuation would not be impeded. Traffic would resume to existing conditions upon completion of the project. Impacts would be less than significant.

- g) ***Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?***

No Impact. According to the California Department of Forestry and Fire Protection Fire Hazard Severity Zone Viewer, the project site is located within a Local Responsibility Area and is not located within a Fire

Hazard Severity Zone (CAL FIRE 2024). The nearest Very High Fire Hazard Severity Zone is located approximately 4.15 miles northwest of the project site. In the event of an emergency, fire response services for the project are provided by the Chino Valley Independent Fire District. Construction and operation of the project would comply with Chapter 15.32 of the CMC, which adopts the California Fire Code by reference. The project would not include structures intended for long-term occupancy or include development that could exacerbate fire risk. Furthermore, the project site is relatively flat and would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, people and structures would not be exposed to a significant risk of loss, injury, or death involving wildfires. No impact would occur.

3.10 Hydrology and Water Quality

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

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

a) *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

Less-than-Significant Impact. The project site falls under the jurisdiction of the Santa Ana Regional Water Quality Control Board for water quality regulation. The existing retention basin and a new retention basin located in the central-southern portion of the site would capture stormwater runoff and overflow from the replacement reservoir. Given its role in collecting surface water, the retention basins require careful water quality management during construction.

Construction activities would involve ground-disturbing tasks such as grading, which could lead to sediment discharge into stormwater runoff. Additionally, construction equipment and operations may result in the potential discharge of oil, lubricants, and other chemicals due to leaks or accidental spills. These potential sediment and chemical discharges during construction would have the potential to impact water quality in receiving water bodies. However, because the project would disturb over 1 acre of land, the project would be required to prepare and implement a SWPPP, which would include water quality BMPs to ensure that water quality standards are met and that runoff from the construction work areas does not cause degradation of water quality in receiving water bodies. BMPs may include erosion and sediment control measures, spill prevention protocols, and monitoring strategies to maintain water quality standards during construction. Through the incorporation of BMPs through implementation of SWPPP requirements, impacts associated with water quality standards during construction would be less than significant.

The purpose of the project is to continue to provide a safe and reliable source of water to the City's customers, while also increasing on-site storage. The reservoir would store and manage water more efficiently, reducing the potential for degradation of surface or ground water quality. As such, impacts during operation would be less than significant.

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

Less-than-Significant Impact. Based on the geotechnical evaluation prepared by Verdantas for the project (Verdantas 2024), groundwater is not expected to be encountered during grading of the project. The project site is located in an area where groundwater conditions have historically included shallow water tables; however, the geotechnical evaluation indicates an absence of shallow groundwater beneath the project site. Construction and operation activities are not anticipated to require significant extraction of groundwater or contribute to a decrease in groundwater levels. Additionally, the project would maintain site permeability and implement stormwater management measures consistent with BMPs, allowing for ongoing infiltration and

recharge where feasible. Therefore, the project would not substantially interfere with groundwater recharge or impact sustainable groundwater management. Impacts would be less than significant.

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

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

and

ii) *Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?*

and

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

and

iv) *Impede or redirect flood flows?*

Less-than-Significant Impact. The project would not substantially alter existing drainage patterns, including streams or river courses. Construction activities primarily involve excavation to install a concrete reservoir, which would replace the existing Benson Reservoir. While temporary earthwork may disturb soils, implementation of the project-specific SWPPP, including BMPs, would prevent substantial erosion and siltation of exposed soils during construction activities.

The project would not substantially increase impervious surface area, as the replacement reservoir is designed to integrate into the existing site footprint. New impervious areas would include the replacement reservoir and paved access road. Proposed drainage improvements to accommodate the new impervious areas include construction of a new retention basin to infiltrate overflow from the replacement reservoir to meet stormwater quality and flood control flow mitigation requirements and installation of a proposed storm drain to convey flows from the existing retention basin to the new retention basin. Runoff from the replacement reservoir would also be conveyed to the existing brow ditch along the southern property line and discharge into the existing retention basin. Additionally, the reservoir design does not include features that would significantly alter floodplain conditions or redirect flood flows. The site's topography and existing drainage features would be maintained to ensure that flood flows, if any, remain unaffected by the project. Therefore, implementation of the project would not substantially alter the existing drainage pattern of the site or area in a way that would cause substantial erosions, flooding, polluted runoff, or changes to flood flows. Impacts would be less than significant.

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

No Impact. According to Federal Emergency Management Agency flood maps, the project site is located in Flood Zone X, characterized as an area with minimal flood hazard (FEMA 2008). Additionally, the project site is not located within the 566-foot Prado Dam inundation area or the San Antonio Dam potential inundation area (City of Chino 2025b). The project site is located approximately 30 miles from the ocean

and is not at risk of flooding due to tsunamis. Therefore, no impact associated with the risk of release of pollutants due to project inundation in a flood hazard, tsunami, or seiche zone would occur.

e) *Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

Less-than-Significant Impact. The project would not conflict with or obstruct the implementation of a water quality control plan or a sustainable groundwater management plan. The project does not propose new wells or increased groundwater pumping beyond the existing operations at Well 5 and Well 9, which would continue as part of the City's water system. The replacement reservoir is designed as a surface structure intended for treated water storage and distribution. By increasing storage capacity from 1.5 MG to 7.85 MG, the project would improve operational flexibility and provide a more reliable and sustainable water supply for the City's residents.

The project also integrates effective stormwater management by maintaining the on-site retention basin and constructing a new retention basin that would capture runoff and overflow from the reservoir, reducing the potential for infiltration-based contamination and protecting water quality. Therefore, the project would not conflict with a water quality control plan or sustainable groundwater management plan and impacts would be less than significant.

3.11 Land Use and Planning

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

a) *Would the project physically divide an established community?*

No Impact. The project site would be located within the existing Benson WTP Complex. The project would not create a physical division of an existing community, like what could occur with the development of a freeway or large linear infrastructure. The project would not result in removal of an existing means of access, such as a road or bridge, that would impede mobility with an existing community and other areas. Upon completion of the project, the existing Benson WTP Complex would resume operations consistent with existing conditions. Therefore, the project would not physically divide an established community, and no impact would occur.

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

No Impact. The project site is zoned as P (Public) and has a General Plan land use designation of Public/Institutional. The project would include constructing and operating a replacement reservoir for the existing Benson Reservoir within the Benson WTP complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. Implementation of the project would not result in a change to land uses. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. The project would incorporate applicable mitigation measures to reduce environmental impacts. Therefore, the project would not be in conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Therefore, no impact would occur.

3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES – Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

- a) ***Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?***

and

- b) ***Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?***

No Impact. According to Figure 6-1, Mineral Resource Zones, in the City of Chino 2045 General Plan Program Environmental Impact Report, the project site is within Mineral Resource Zone 3 (City of Chino 2025a). Mineral Resource Zone 3 in the City of Chino contains sand and gravel deposits, but there is insufficient data to determine whether these mineral deposits are significant (City of Chino 2025a). The project site is designated as Public/Institutional in the General Plan and does not support mineral extraction (City of Chino 2025b). Therefore, the project would not result in any loss of availability of a known mineral resource or locally important mineral resource recovery site, and no impact would occur.

3.13 Noise

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE – Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

This section is based on technical analysis conducted by Dudek, including quantitative estimates of noise emissions based on assumptions developed in consultation with the project design engineers. The results of the noise estimates are provided as Appendix E, Noise Modeling Data, to this IS/MND.

Existing Setting

Represented by locations ST1, and ST2 in Table 3.13-1, the existing outdoor ambient sound environment of the project location was sampled during a field survey conducted on February 21, 2025 (see Figure 3.13-1, Noise Measurement Locations). Collected sample sound pressure level measurements at these locations, along with documented investigator observations regarding perceived or witnessed acoustical contributors to this baseline or pre-project noise environment, also appear in Table 3.13-1. These locations are intended to be representative of the existing single-family homes adjoining the project area. Photographs, tagged survey positions, and instrument details can be found in Appendix E.

Table 3.13-1. Measured Samples of Existing Outdoor Ambient Sound Level

Survey Position	Description/Address	Time	Leq (dBA)	Lmax (dBA)	Lmin (dBA)	Notes (Perceived Sound Sources)
ST1	Adjacent from project boundary; East of S Benson Ave.	11:06 a.m. – 11:21 a.m.	68.1	83.4	45.7	Traffic, Birds, Aircraft Noise

Table 3.13-1. Measured Samples of Existing Outdoor Ambient Sound Level

Survey Position	Description/Address	Time	L _{eq} (dBA)	L _{max} (dBA)	L _{min} (dBA)	Notes (Perceived Sound Sources)
ST2	Dead-end of Adams Street; North of Project Boundary	10:36 a.m. – 10:56 .m.	50.2	69.1	37.1	Traffic, Birds, Distant Dog Barking, Rustling Leaves, Distant Landscape Noise, Conversation

Source: Appendix E.

Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); dBA = A-weighted decibels; L_{max} = maximum sound level during the measurement interval; L_{min} = minimum sound level during the measurement interval.

The measured outdoor energy-equivalent sound level (L_{eq}) values appearing in Table 3.13-1 range from 50.2 to 68.1 A-weighted decibels (dBA) and are consistent with expectations for the environment based on the distance to roadways, such as South Benson Avenue. The ambient sound measurements at ST1 and ST2 reflect conditions experienced by residences both within the City of Chino and across South Benson Avenue in the City of Ontario. While the nearest residential receptor is located in Chino, homes in Ontario are also in proximity to the project site and were considered in the ambient noise survey. Regulatory thresholds and mitigation measures are discussed in detail below, with primary reference to City of Chino standards, as the project is located within Chino city limits.

Regulatory Setting and Thresholds of Significance

Local Noise Ordinance and General Plan Guidance

The City of Chino restricts construction activities near sensitive land uses such as residences, hospitals, and senior centers to the hours between 7:00 a.m. and 7:00 p.m. Before construction begins, a noise monitoring plan must be submitted that outlines monitoring locations, frequency, equipment, and noise control measures. Required practices include using mufflers on combustion equipment, limiting unnecessary idling, shielding equipment with temporary barriers, placing stationary sources away from sensitive receptors, and using quieter equipment when available. Construction noise is exempt from operational noise limits during permitted hours, but must still comply with a 65 dBA threshold and avoid creating conditions that threaten public health or safety.

The CMC prohibits ground vibration that is perceptible without instruments at adjacent properties, with a defined threshold of 0.05 inches per second (ips) root-mean square vertical velocity. However, construction-related vibration is exempt from this standard as long as it occurs during allowable construction hours and does not pose a risk to public health, welfare, or safety. This exemption allows typical construction activities to proceed while maintaining protections for nearby sensitive uses.

While the City of Ontario's noise ordinance applies to residences east of the project site, the noise ordinance regulates construction primarily by restricting allowable hours (7:00 a.m. to 6:00 p.m. on weekdays, 9:00 a.m. to 6:00 p.m. on weekends) and does not specify a quantitative noise level threshold for construction activities. In contrast, the City of Chino applies a 65 dBA L_{eq} (8-hour) threshold for construction noise at residential property lines during permitted hours.

- a) ***Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?***

Construction

Less-Than-Significant Impact with Mitigation Incorporated. Construction of the project would result in the temporary generation of noise at the project site. Construction would involve the use of heavy equipment and machinery, such as excavators, loaders, cranes, temporary generators, scrapers, and other equipment. Construction would generate levels of noise that can vary from hour to hour and day to day depending on the equipment in use, the operations being performed, and the distance between the source and receptor. Typically, construction equipment operates in alternating cycles of full power and low power, producing average noise levels less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time. Aggregate noise emissions from construction activities, broken down by phase, were predicted at two evaluation distances to the nearest existing noise-sensitive receptor: (1) from the nearest position of the construction site boundary, and (2) from the center of the construction site. The closest existing noise-sensitive residential receptor is approximately 40 feet to the north of the proposed project's northern boundary. At the site boundary, this analysis assumes that only the two loudest pieces of equipment, comparable to Federal Transit Administration general assessment guidance, for the listed phase would be involved in construction activity for a limited portion of the 8-hour workday. In other words, at such proximity, the operating equipment cannot "stack" or crowd the vicinity and still operate.

Table 3.13-2 presents the estimated construction noise level (8-hour L_{eq}) for each anticipated phase of project construction activity. Details of these predictions in Appendix E show the expected acoustical contribution from each type of operating construction equipment for each phase.

Table 3.13-2. Estimated Per-Phase Construction Noise Levels

Project Construction Activity Phase	Nearest Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Nearest Distance	Centroid Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Centroid Distance
Demolish Existing Tank	200	62.6	250	60.3
Mobilization and Cleaning	40	79.8	165	64.0
Landscaping and fence installation	40	70.8	165	55.0
Backfill and Compact	40	72.4	165	56.5
Site Drainage Improvements	40	69.8	165	54.0
Grading	40	76.8	165	61.0
Reservoir Construction	40	75.8	165	59.9

Table 3.13-2. Estimated Per-Phase Construction Noise Levels

Project Construction Activity Phase	Nearest Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Nearest Distance	Centroid Horizontal Distance to Nearest Noise-sensitive Receptor (Feet)	Predicted 8-hour L_{eq} (dBA) for Centroid Distance
Paving	40	72.8	165	57.0
Architectural Coating	40	69.8	165	54.0
Yard Piping and Vaults	40	74.6	165	58.7

Source: Appendix E.

Note: L_{eq} = energy-equivalent sound level; dBA = A-weighted decibel

As shown in Table 3.13-2, predicted construction noise levels at the nearest residential property (approximately 40 feet from the project's northern boundary) could reach up to 80 dBA L_{eq} over an 8-hour period during mobilization and cleaning activities. These levels exceed the City of Chino's construction noise threshold of 65 dBA L_{eq} for residential areas, even under conservative modeling assumptions that limit heavy equipment operation to a cumulative total of 2 hours per day at the closest approach. Because of the proximity of construction activities to sensitive receptors and the intensity of equipment use, unmitigated construction noise would exceed applicable City standards.

At more typical distances, closer to the center of the project site (approximately 165 feet from the nearest residence), construction noise levels are estimated to range from approximately 54 dBA L_{eq} to 64 dBA L_{eq} . To ensure compliance with the 65 dBA 8-hour L_{eq} threshold and to mitigate potential exceedances, **MM- NOI-1** shall be implemented. Proper implementation of **MM-NOI-1**, including the installation of 10-foot-tall temporary noise barriers along the project's northwestern and eastern boundaries, can reduce noise levels by up to 15 decibels, thereby reducing the estimated unmitigated construction noise levels to approximately 64.7 dBA L_{eq} , which is within the acceptable limit.

In summary, while construction noise during allowable daytime hours (between 7:00 a.m. and 7:00 p.m.) has the potential to exceed the 65 dBA 8-hour L_{eq} threshold at the nearest residential receptors, the incorporation of **MM-NOI-1** is recommended to reduce construction noise exposure levels. With the implementation of this mitigation measure, temporary construction-related noise would be less than significant.

The outcome of the King & Gardiner Farms versus Kern County judge's decision established a requirement for construction noise analyses to disclose the relative increase of construction noise over ambient noise levels. Construction noise levels would cause a temporary increase of up to 15 dB L_{eq} over existing ambient noise levels at ST2 with mitigation measures implemented, which would be perceived as being up to twice as loud to average healthy hearing.

MM-NOI-1 described below would apply during project construction activities.

Operation

Less-Than-Significant Impact. Upon completion of construction, the project would operate similar to existing conditions, and there would be no increase in staffing to operate the proposed replacement facility. Therefore, noise from on-site activities such as maintenance, operation of the Benson WTP complex, and related sound emission would be relatively unchanged. Project operation noise would be considered less than significant.

Mitigation Measures

MM-NOI-1 Temporary Construction Noise Reduction. The City shall require the contractor to install temporary noise abatement during construction activities occurring near off-site residential receptors, specifically along the northern and eastern boundaries of the project site where residences are closest.

Noise abatement shall consist of sound blankets, field-erected plywood sheeting, or comparable temporary solid barriers (minimum height of 10 feet and minimum sound transmission class [STC] rating of 25) placed to block direct line-of-sight between construction activities and the nearest noise-sensitive receptors. The barrier shall be installed prior to commencement of heavy equipment use and maintained throughout all relevant construction phases.

The temporary barrier is expected to achieve a minimum construction noise reduction of approximately 13 decibels (dB) at the nearest residential property line, based on modeling results provided in Appendix E.

In addition to the noise barrier, the following supplemental measures shall be implemented:

- Administrative controls (e.g., further reduce operating time of equipment and/or prohibit usage of equipment type[s] within certain distances to a nearest receiving occupied off-site property).
- Engineering controls (change equipment operating parameters [e.g., speed, capacity], or install features or elements that otherwise reduce equipment noise emission [e.g., upgrade engine exhaust mufflers]).

The contractor shall document the installation and maintenance of noise abatement measures and provide verification to the City prior to and during construction.

b) *Would the project result in generation of excessive ground-borne vibration or ground-borne noise levels?*

Less-than-Significant Impact. Vibration is oscillatory movement of mass (typically a solid) over time. Depending on their distances to a sensitive receptor, operation of large bulldozers, graders, loaded dump trucks, or other heavy construction equipment and vehicles on a construction site have the potential to cause high vibration amplitudes.

The CMC prohibits ground vibration that is perceptible without instruments at adjacent properties, with a defined threshold of 0.05 ips root-mean square vertical velocity. However, construction-related vibration is exempt from this standard as long as it occurs during allowable construction hours and does not pose a

risk to public health, welfare, or safety. This exemption allows typical construction activities to proceed while maintaining protections for nearby sensitive uses. Ground-borne vibration attenuates rapidly, even over short distances. The attenuation of ground-borne vibration as it propagates from source to receptor through intervening soils and rock can be estimated with expressions found in Federal Transit Administration and California Department of Transportation guidance. By way of example, for a bulldozer or grader operating as close as 40 feet to the nearest receiving residential land use during the site preparation construction phase as shown in Table 3.13-2, the estimated vibration velocity level would be 0.044 ips per the equation as follows (Federal Transit Administration 2018):

$$PPV_{rcvr} = PPV_{ref} \times (25/D)^{1.5} = 0.044 \text{ ips } PPV = 0.089 \times (25/40)^{1.5}$$

In the above equation, PPV_{rcvr} is the predicted vibration velocity at the receiver position (i.e., residence), PPV_{ref} is the reference value at 25 feet from the vibration source (the bulldozer), and D is the actual horizontal distance to the receiver from the source.

Predicted ground-borne vibration velocity PPV values associated with project construction are below the 0.05 ips root-mean square threshold for the City of Chino and would occur within allowable construction hours. Impacts during construction would be less than significant.

Once operational, the proposed project would not be expected to feature major producers of ground-borne vibration. Anticipated mechanical systems like heating, ventilation, and air-conditioning units are designed and manufactured to feature rotating (fans, motors) and reciprocating (compressors) components that are well-balanced with isolated vibration within or external to the equipment casings. For this reason, operational ground-borne vibration at off-site receptors would be considered less than significant.

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

No Impact. There are no public airports or private airfields within 2 miles of the project and the project area is far from any aviation traffic noise contour greater than 65 dBA community noise equivalent level. Construction workers and employees of the Benson Reservoir WTP would not be exposed to significant aviation noise levels. No impact would occur.

3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. POPULATION AND HOUSING – Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

- a) ***Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?***

No Impact. Construction of the project would result in a temporary direct increase in construction jobs in the area. However, given the relatively small nature of the project construction and anticipated schedule, the demand for construction employment would likely be met within the existing and future labor market in the City and in the San Bernadino County area. If construction workers live outside of the City, these workers would likely commute during the temporary construction period. Operationally, the project does not contain land uses that typically result in direct population growth, such as new homes or large commercial/business centers. The project would not change the use of the existing Benson WTP Complex. Therefore, the project would not directly result in substantial unplanned population growth in the area.

The project would expand the City's water-storage capabilities; however, this expansion would serve the existing needs of the City and does not include components that would lead to new housing, commercial development, or other factors that could result in population growth. Therefore, the project would not indirectly result in substantial unplanned population growth in the area. No impact would occur.

- b) ***Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?***

No Impact. The project site does not contain any existing housing or provide other means of housing people. The project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. No impact would occur.

3.15 Public Services

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact

XV. PUBLIC SERVICES – Would the project:

- a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

- a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:*

Fire protection? Police protection? Schools? Parks? Other public facilities?

No Impact. As discussed in Section 3.14, Population and Housing, the project would not induce substantial unplanned population growth in the area. As such, construction, operation, and maintenance of the project would not require new or physically altered facilities associated with fire protection, police protection, schools, parks, or other public facilities. Therefore, no impact would occur.

3.16 Recreation

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact

XVI. RECREATION

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

- a) ***Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?***

No Impact. The project site is located within the existing Benson WTP complex, which consists of water production, treatment, and storage facilities. Construction and operation of the project within the existing Benson WTP complex would have no impact on parks or recreational facilities. As such, no impact would occur.

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

No Impact. The project would include improvements to the existing Benson WTP complex. As discussed in Section 3.16(a) above, construction and operation would not impact parks or recreational facilities. Furthermore, as discussed in Section 3.14, implementation of the project would not induce population growth. No impact would occur.

3.17 Transportation

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

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

Less-than-Significant Impact. The project would not conflict with applicable programs, plans, ordinances, or policies addressing the circulation system, as further discussed below. This includes the City's General Plan Infrastructure Element (City of Chino 2025b); the Bicycle and Pedestrian Master Plan (City of Chino 2016), and existing and proposed roadway, transit, bicycle, and pedestrian facilities or services in the project area. While the City of Chino is adjacent to the City of Ontario, applicable programs, plans, ordinances, or policies addressing the circulation system are discussed for the City of Chino as the project is located within Chino city limits.

General Plan Infrastructure Element

The City of Chino's Infrastructure Element focuses on supporting travel within Chino, connecting the transportation system to regional transportation options, reducing the impacts of transportation on the region's environment, and providing a variety of options so individuals can choose to travel by car, bicycle, foot, or public transportation. Key goals and policies include (City of Chino 2025b):

- **Goal INF-1. Regional Connectivity:** Strengthen connections to the regional transportation network.
- **Goal INF-2. Comprehensive Transportation:** Plan, design, build, and maintain a local transportation network that provides safe and efficient access throughout Chino and optimizes travel by all modes.
- **Goal INF-3. Efficient Circulation:** Manage the City's transportation system to maximize the efficiency of the network, minimize congestion and air pollution, and reduce vehicle miles traveled (VMTO>).
- **Goal INF-4. Connected City:** Provide safe and convenient connections between neighborhoods and destinations within Chino for pedestrians, cyclists, and transit riders.

City of Chino Bicycle and Pedestrian Master Plan

The City of Chino Bicycle and Pedestrian Master Plan (City of Chino 2016) was developed to provide the City a guide to improve bicycling and walking activity throughout the City. The Plan emphasizes the development of a safe, accessible, and sustainable transportation network to encourage bicycling and walking throughout the community. By incorporating public feedback and technical planning, the Bicycle and Pedestrian Master Plan prioritizes multimodal integration, safety improvements, and reduced automobile dependence. Through the creation of new development, upgrades to existing ones, and educational programs, the City aims to foster a more bicycle and pedestrian friendly environment.

Transit, Bicycle, and Pedestrian Facilities

Public transportation in the City is provided by Omnitrans, Foothill Transit, and Orange County Transportation Authority. The nearest transit route to the project site is Omnitrans Route 85, with service on Central Avenue. Omnitrans Route 85 is a north-south route that provides service between the Chino Transit Center, Montclair, Upland and the Chaffey College in Rancho Cucamonga. The nearest bus stop to the project site is located at the intersection of Central Avenue and Francis Avenue, approximately 0.4 miles northeast of the project site, servicing Omnitrans Route 85. Omnitrans Route 85 operates from

approximately 4:20 a.m. to 10:05 p.m. on weekdays, and from 6:00 a.m. to 7:44 p.m. on weekends (Omnitrans 2025). Omnitrans also provides transit services through OmniRide, an on-demand, shared transit service offering flexible pick-up and drop-off locations. OmniRide serves the Chino, Chino Hills, and Bloomington areas.

There are numerous bike facilities within the vicinity of the project site, including a Class III bike route on Philadelphia Avenue between South Benson Avenue and Central Avenue, a Class II bike lane on Philadelphia Avenue between Central Avenue and Monte Vista Avenue, a Class II bike lane on South Benson Avenue between Philadelphia Street and Walnut Avenue, a Class II bike route on South Benson Avenue between Walnut Avenue and Chino Avenue, and a Class II bike lane on Monte Vista Avenue between Philadelphia Street and Riverside Drive (City of Chino 2025b).

The City of Chino is well served by sidewalks, with relatively few gaps in the sidewalk network. Sidewalks are present along most roads within the vicinity of the site.

Impact Analysis

The project involves constructing and operating a replacement reservoir for the existing Benson Reservoir within the City's Benson WTP complex. This includes connecting the new reservoir to the existing system and demolishing the current structure.

Construction

The construction phase is expected to cause a temporary, short-term increase in traffic, due to the arrival of construction workers and the delivery of materials and equipment to the site. Construction work is planned to take place over a period of 12 months, with some phases overlapping. The typical working hours would be Monday through Friday from 7:00 a.m. to 5:30 p.m., with no night work anticipated. Construction activities would be carried out in compliance with the City of Chino's noise and construction regulations, ensuring that heavy equipment is used within the permitted hours. The project would involve traffic impacts primarily related to construction activities, but these impacts are expected to be temporary.

Regional access to the project site is from SR 60, which is located approximately 0.5 miles to the south; SR 83, which is located approximately 1.7 miles to the east; Interstate 10, which is approximately 3.3 miles to the north; and SR 71, which is approximately 4.6 miles to the west. Local construction access would be provided from South Benson Avenue. Temporary equipment staging and construction trailers would be established within the existing Benson WTP complex boundary, with no additional off-site staging anticipated to be needed. Full or partial closures of any public roads are not anticipated for project construction. If temporary closures of South Benson Avenue or adjoining roadways are required for project construction, the temporary closures would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval. The traffic control plan would include measures such as identifying the proposed truck routes, minimizing and/or avoiding truck travel during peak hours, using flaggers for local site access, and other measures. All lane closures would be performed pursuant to the traffic control plan. With implementation of the traffic control plan, the potential impact to the local circulation would be minimized and there would be no changes that would affect the safety and accessibility of the transportation system.

Construction of the replacement reservoir would entail excavating earth material and demolishing the existing reservoir. Material would be placed into dump trucks and hauled off site to a licensed landfill or quarry for reuse or disposal. The full extent of the material haul route or routes would be determined by the contractor and City of Chino Public Works Department once a disposal site has been identified. It is anticipated that the local route would follow South Benson Avenue to Philadelphia Street or Francis Avenue to access Central Avenue, which is a designated City truck route, to connect to SR 60, which is a designated State truck route (City of Chino 2016). Due to the nominal and temporary increase in construction traffic, any effect on the operations of roadways or the overall circulation system along these roads would be minimal.

The nearest bicycle facilities to the project site are a Class III bike route on Philadelphia Avenue between South Benson Avenue and Central Avenue and a Class II bike lane on South Benson Avenue between Philadelphia Street and Walnut Avenue. Omnitrans Route 85 is the nearest transit route to the site, with service on Central Avenue, and a bus stop at the intersection of Central Avenue and Francis Avenue. The transit, bicycle, and pedestrian facilities would remain open during construction, and the temporary and minimal increase in construction related traffic would not interfere with existing public transit, bicycle, or pedestrian facilities. Impacts would be less than significant.

Operation

The project primarily involves the construction of a replacement reservoir, which would not alter or obstruct the existing transportation network in the area. Once the reservoir is replaced, the project would operate similar to existing conditions. Access to the site would remain unchanged, with no changes to surrounding roadways, bike lanes, or pedestrian facilities. The project would not include site improvements that would extend into the public right-of-way or interfere with the existing roadway network, public transit, bicycle, or pedestrian facilities, or impede the construction of new or the expansion of existing facilities in the future. The project would also not severely delay, impact, or reduce the service level of transit in the area. Additionally, the project would not impact traffic circulation or result in significant changes to the existing transportation network. Consequently, the project would be in compliance with the City's transportation policies, which aim to maintain a safe, integrated, and multi-modal transportation network.

Therefore, the proposed project would not conflict with the circulation policies within the City's General Plan or the City's Bicycle and Pedestrian Master Plan. Impacts would be less than significant.

b) *Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?*

Less-than-Significant Impact. CEQA Guidelines Section 15064.3(b) focuses on VMT for determining the significance of transportation impacts. The Updated CEQA Guidelines state that "generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts," and define VMT as "the amount and distance of automobile travel attributable to a project." "Automobile" refers to on-road passenger vehicles, specifically cars and light trucks. The Governor's Office of Land Use and Climate Innovation (LCI), formerly known as the Governor's Office of Planning and Research (OPR), has clarified in its Technical Advisory on Evaluating Transportation Impacts in CEQA (LCI 2018) that heavy-duty truck VMT is not required to be included in the estimation of a project's VMT.

Consistent with LCI's Technical Advisory, the City developed the City of Chino Impact Analysis Guidelines, which establishes VMT screening criteria and thresholds for evaluating a project's potential impact on VMT (City of Chino 2020b). Based on guidance provided from LCI, and per the City's guidelines, land use projects can be screened from a VMT analysis if the project generates less than 110 daily trips, is a local serving retail project less than 50,000 square feet in size, is an office or residential use located in a low VMT Traffic Analysis Zone (TAZ), is within a transit priority area, or is an employment-related project within a low VMT TAZ that would generate similar VMT metrics to existing land uses in a low VMT area. A project only needs to satisfy one of the screening criteria to be exempt from further VMT.

Construction

CEQA Guidelines Section 15064.3(b) is divided into four subdivisions: (1) land use projects, (2) transportation projects, (3) qualitative analysis, and (4) methodology. The project is not a land use or transportation project; and the project would not result in a major expansion of the Benson WTP complex. Therefore, neither Section 15064.3(b)(1) nor Section 15064.3(b)(2) of the CEQA Guidelines apply. Instead, the project would be categorized under Section 15064.3(b)(3), suitable for qualitative analysis and not subject to a quantitative threshold. Furthermore, the City's project size screening criterium (projects generating 110 daily trips or less) are intended to address permanent vehicle trips. Therefore, a qualitative analysis of the project construction is provided.

The project would involve construction that would generate temporary construction-related traffic for approximately 12 months. Measures to reduce the VMT generated by workers and trucks are limited, and there are no thresholds or significance criteria for temporary, construction-related VMT. The project construction would generally be consistent with construction activities in terms of the temporary nature of activities, trip generation characteristics, and the types of vehicles and equipment required. The increase in VMT associated with the projects' construction is expected to be temporary and would therefore not cause a significant VMT impact.

Operation

Once construction of the replacement reservoir is complete, the replacement reservoir would operate as a key component of the City's water distribution system. Operational activities would include routine inspections, monitoring, and maintenance to ensure the proper function of the reservoir and its associated infrastructure. Operational activities are expected to generate minimal vehicle trips, primarily for maintenance personnel and occasional inspections, with no significant changes to existing traffic patterns. The operation of the proposed project can be considered a "small project" per the City's Transportation Study Guidelines and LCI Technical Advisory given that it would not generate greater than 110 daily trips and would therefore be presumed to have a less than significant VMT impact.

Therefore, the project would not result in any substantial increase in VMT or conflict with CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3).

- c) ***Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?***

Construction

Less-than-Significant Impact. The project site is located in an established, developed area with direct access to designated local and regional truck routes. Transportation and haul permits would be required from the California Department of Transportation and the City of Chino for construction truck traffic. The project would not introduce uses (types of vehicles) that are incompatible with existing uses already served by the area's road system during either construction or operations.

The proposed project would involve construction within the existing Benson WTP complex and would not include construction within the public right-of-way. During construction of the project, temporary construction and staging areas would be located within the existing Benson WTP complex. Full or partial closures of any public roads are not anticipated for project construction. If temporary closures of South Benson Avenue or adjoining roadways are required for project construction, the temporary closures would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval. With implementation of the traffic control, there would be no changes that would affect the safety and accessibility of the transportation system. Therefore, impacts associated with hazardous design features or incompatible land uses would be less than significant.

Operation

Less-than-Significant Impact. Access to the site would be provided from existing City streets and from the existing driveway. There would be no changes to the existing off-site circulation on City roads. Therefore, the project would not substantially increase hazards due to a roadway design feature or introduce incompatible uses. Impacts would be less than significant.

- d) ***Would the project result in inadequate emergency access?***

Construction

Less-Than-Significant Impact. The project site is located in an established, developed area with sufficient access for emergency service providers. The proposed project would involve construction within the existing Benson WTP Complex and would not include construction within the public right-of-way. During construction of the project, temporary construction and staging areas would be located within the existing Benson WTP Complex. Full or partial closures of any public roads are not anticipated for project construction. If temporary closures of South Benson Avenue or adjoining roadways are required for project construction, the temporary closures would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval. As part of the traffic control plan, the contractor would follow standard construction practices and ensure that adequate on-site circulation and access is always maintained for all users, including coordinating with local emergency response providers (local police, fire, and medical dispatch) regarding proposed construction activities. As such, construction of the project would have a less-than-significant impact related to emergency access.

Operation

Less-Than-Significant Impact. As previously discussed, the project site is located in an established, developed area with sufficient access for emergency service providers. There would be no changes to the existing off-site circulation on City roads during project operations. As such, operation of the project would have a less-than-significant impact related to emergency access.

3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRIBAL CULTURAL RESOURCES				
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	☐	☒	☐	☐
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

The evaluation of potential impacts to Tribal Cultural Resources (TCRs) is primarily based on the findings resulting from tribal consultation conducted by the City, as the lead agency, as well as the findings of Section 3.5, Cultural Resources, in this MND. Background research and fieldwork conducted to inform this analysis included a NAHC SLF search, archival research and California Historical Resources Information System database records search, a pedestrian survey of the project area, and the results of formal tribal consultation pursuant to California Assembly Bill (AB) 52.

The project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed project. All NAHC-listed California Native American Tribal representatives that have requested project notification pursuant to AB 52 were sent letters by the City on November 20, 2024. The notification letters contained a project

description, outline of AB 52 timing, an invitation to consult, a project location figure, and contact information for the appropriate lead agency representative. Three responses were received by the City from the Moronga Band of Mission Indians, San Manuel Nation, and Gabrieleño Band of Mission Indian-Kizh Nation. The Moronga Band of Mission Indians and San Manuel Nation both responded that the project is not within their ancestral territory and traditional use area boundaries and did not request AB 52 consultation. The Gabrieleño Band of Mission Indian-Kizh Nation responded requesting AB 52 consultation.

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?***

Less Than Significant Impact with Mitigation Incorporated. As discussed in Section 3.5, no previously recorded archaeological resources of Native American origin or TCRs listed in the California Register of Historic Resources or a local register were identified within the project area as a result of the SCCIC records search, the NAHC SLF results, or the pedestrian survey. Additionally, the City notified California Native American Tribal representatives who are traditionally or culturally affiliated with the geographic area of the project pursuant to AB 52. A response was received from the Gabrieleño Band of Mission Indian-Kizh Nation on January 13, 2025, requesting AB 52 consultation for the project. Mitigation measures for cultural resources monitoring were provided on January 16, 2025. The City agreed to the mitigation measures and consultation was concluded on January 16, 2025. No TCRs were identified as a result of information provided from the Gabrieleño Band of Mission Indian-Kizh Nation. Therefore, the project would not adversely affect TCRs that are listed or eligible for listing in the state or local register.

Although the potential for encountering subsurface TCRs are low, it is possible previously unknown TCRs could be inadvertently discovered during construction. As such, **MM-TCR-1** through **MM-TCR-3** would be implemented to prevent impacts to potential TCRs.

MM-TCR-1 Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities

- A. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians-Kizh Nation. The monitor shall be retained prior to the commencement of any “ground-disturbing activity” for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). “Ground-disturbing activity” shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.
- B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.
- C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed,

locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.

- D. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.

MM-TCR-2 Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial)

- A. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural, and/or historic purposes.

MM-TCR-3 Unanticipated Discovery of Human Remains and Associated Funerary Objects or Ceremonial Objects

- A. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.
- B. If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resources Code section 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed.
- C. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).
- D. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods.
- E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

- b) *A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.*

Less Than Significant Impact with Mitigation Incorporated. The project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process and requires lead agencies to provide notification of proposed projects to California Native American Tribal representatives that have requested such notifications. No TCRs were identified as a result of information provided from the Kizh Nation. Therefore, the project would not adversely affect TCRs that are listed or eligible for listing in the state or local register. Although potential for encountering subsurface TCRs are low, it is possible previously unknown TCRs could be inadvertently discovered during construction. As such, **MM-TCR-1** through **MM-TCR-3** would be implemented to prevent impacts to potential TCRs.

3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIX. UTILITIES AND SERVICE SYSTEMS – Would the project:				
a) Require or result in the relocation or construction of new or expanded water, waste water treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the waste water treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

- a) ***Would the project require or result in the relocation or construction of new or expanded water, waste water treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?***

Less-than-Significant Impact. The project entails constructing and operating a replacement for the existing Benson Reservoir within the City's Benson WTP complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. The replacement reservoir is planned to have a capacity of 7.85 MG, an increase in size from the existing 1.5 MG reservoir, in order to expand the City's water storage capabilities and improve water storage and distribution infrastructure. The project would involve improvements to stormwater drainage, including the expansion of the existing retention basin and construction of a new retention basin, to accommodate the increased runoff from the expanded impermeable surfaces, such as the new reservoir and access roads. These improvements are contained within the project site and would not require off-site infrastructure or result in a significant impact pursuant to CEQA. Potential environmental impacts associated with the implementation of the project are analyzed throughout this MND. Impacts would be less than significant.

- b) ***Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?***

Less-than-Significant Impact. The project would increase the Benson WTP's reservoir size from 1.5 MG to 7.85 MG. The larger reservoir would expand the City's water-storage capabilities. Project construction would temporarily require a minor amount of water primarily associated with site watering in compliance with SCAQMD Rule 403 to prevent, reduce, or mitigate fugitive dust emissions from construction activities. The project would not directly affect water supply but is intended to support the City's existing water system by improving water storage and distribution infrastructure. The increased storage capacity would aid in managing water supplies during varying demand conditions, including normal, dry, and multiple dry years, by providing more reliable storage and backup during times of reduced supplies. Other existing components of the Benson WTP complex that require water would not change their existing usage. As such, operation of the project would not demand additional water use. Therefore, impacts would be less than significant.

- c) ***Would the project result in a determination by the waste water treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?***

No Impact. Construction and operation of the project would not generate wastewater demand. Therefore, no impact would occur.

- d) ***Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?***

Less-than-Significant Impact. During construction, the project would generate solid waste such as residual wastes, plastics, and soils. Additionally, demolition of the existing reservoir and appurtenances would result in solid waste. Construction-generated solid waste would be temporary and would cease once construction is completed. Solid waste generated by project construction would be properly disposed of at designated landfill facilities for construction and demolition debris. Operation of the project would not generate any substantial additional solid waste beyond current WTP complex conditions. As such, solid

waste generated by the project would not exceed state or local standards or the capacity of local infrastructure. Impacts would be less than significant.

e) **Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?**

No Impact. As discussed in Section 3.19(d), construction-generated solid waste would be temporary, and operation of the project would not generate substantially more solid waste than existing conditions. Solid waste generated by project construction would be disposed of at designated landfill facilities under federal, state, and local regulation. Additionally, the project would be required to adhere to City and County ordinances with respect to waste reduction and recycling. As a result, no impacts related to state and local statutes governing solid waste are anticipated.

3.20 Wildfire

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

a) *Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

Less-than-Significant Impact. The project site is located within a Local Responsibility Area and is not located within a Fire Hazard Severity Zone (CAL FIRE 2024). The City has prepared a Local Hazard Mitigation Plan. The hazard mitigation plan is a document that contains information to assist communities in reducing risk from hazards by identifying resources, information, and strategies for risk reduction (City of Chino 2025c). The proposed project would involve construction within the existing Benson WTP Complex and would not include construction within the public right-of-way. During construction of the project, temporary construction and staging areas would be located within the existing Benson WTP Complex. Full or partial closures of any public roads are not anticipated for project construction. If temporary closures of South Benson Avenue or adjoining roadways are required for project construction, the temporary closures would be performed pursuant to a traffic-control plan prepared by the contractor and subject to City approval, which would demonstrate that emergency access or evacuation would not be impeded. Traffic would resume to existing conditions upon completion of the project. Impacts would be less than significant.

b) *Due to slope, prevailing winds, and other factors, would the project exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

Less-than-Significant Impact. During construction, the use of heavy equipment could cause sparks that could be a source of fire ignition. Construction of the project would comply with Chapter 15.32 of the CMC, which adopts the California Fire Code by reference. Chapter 33 of the California Fire Code outlines general fire safety precautions during construction and demolition that are intended to maintain minimum levels of fire protection and limit the spread of fire. Thus, construction of the project would not result in an exacerbated fire risk. The project would not include structures intended for long-term occupancy. Furthermore, the project site is relatively flat and would not influence prevailing winds or other factors that could exacerbate wildfire risk. As such, the project would not exacerbate wildfire risks such that project users would be exposed to pollutants concentrations. Impacts would be less than significant.

c) *Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

Less-than-Significant Impact. As discussed previously, the project overall would not exacerbate fire risk. Construction would comply with California Fire Code requirements to manage and minimize fire risk during construction. Operation of the project would not contain potential sources for fire risk. As such, the project would not result in installation or maintenance of associated infrastructure that may exacerbate fire risk. Impacts would be less than significant.

d) *Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

Less-than-Significant Impact. For reasons described previously in Sections 3.9(g) and 3.20(a), (b), and (c), the project would not pose a substantial risk for wildfire. The project would be located on relatively flat land within the Benson WTP Complex. As such, implementation of the project would not expose people or

structures to significant risks from post-fire slope instability or drainage changes. Impacts would be less than significant.

3.21 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. MANDATORY FINDINGS OF SIGNIFICANCE				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☒	☐	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

- a) ***Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?***

Less Than Significant Impact with Mitigation Incorporated. Potential impacts related to sensitive and special-status habitat, wildlife species, and plant species are discussed in Section 3.4, Biological Resources. As discussed in Section 3.4, all potentially significant impacts to biological resources would be reduced to a level below significance with incorporation of mitigation measures. The proposed project would not substantially degrade the quality of the environment or impact fish or wildlife species or plant communities. As discussed in Section 3.5, potential impacts to cultural resources would be reduced to a

level below significance with incorporation of mitigation measures. The proposed project would not eliminate important examples of the major periods of California history or prehistory. Overall, impacts would be less than significant with incorporation of mitigation measures.

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

Less Than Significant Impact with Mitigation Incorporated. As indicated in the analysis presented throughout Chapter 3, Initial Study Checklist, of this MND, the proposed project would not result in significant and unavoidable impacts in any issue area. Mitigation measures would reduce impacts to below a level of significance.

Cumulative projects in the City include the Eucalyptus Park Business Park Specific Plan, the Well 11 Pipeline project located in the vicinity of the project site; the Chino Gateway project located near the intersection of Oaks Avenue and Schaefer Avenue, approximately 2.36 miles south of the project site; the Philadelphia Street Industrial Site and East End Annexation project located approximately 2.46 miles west of the project site; the 13610 Yorba Avenue project located approximately 2.54 miles southwest of the project site; the Benson Industrial project located at 13925 Benson Avenue, approximately 2.62 miles south of the project site; the Eden Mixed Use Development project located near the intersection of Schaefer Avenue and Euclid Avenue, approximately 2.91 miles southeast of the project site; the Corporate Center Townhomes located near the intersection of Corporate Center Avenue and Ramona Avenue, approximately 3.97 miles southwest of the project site; the Chino Creek Apartments project located at 4700 Chino Hills Parkways, approximately 4.02 miles southwest of the project site; the Pine Avenue Connector/Bridge (SR-71 to Euclid Avenue) project, approximately 6.17 miles south of the project; the Pine Avenue at SR-71 Interchange Improvements project, approximately 6.23 miles south of the project; and the Euclid Avenue Bridge (Pine Avenue to Pomona Rincon Avenue) project, approximately 6.58 miles south of the project. The project is not located in the immediate vicinity of any large cumulative projects whose construction phase would overlap to create cumulative impacts. The proposed project, as with potential cumulative projects, would incorporate mitigation measures to reduce impacts, as applicable, particularly during construction. Upon completion of construction, the proposed project would have no potential to contribute to a cumulative impact. Impacts would be less than significant with incorporation of mitigation measures.

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

Less Than Significant Impact with Mitigation Incorporated. The potential for adverse direct or indirect impacts to human beings was considered throughout Chapter 3 of this MND. Based on this evaluation, there is no substantial evidence that construction or operation of the project with the proposed mitigation measures incorporated would result in a substantial adverse effect on human beings. Impacts would be less than significant with incorporation of mitigation measures.

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4.2 List of Preparers

City of Chino

Michelle Chapman – Capital Improvement Program Engineering Manager

Chi Wai Chan – Associate Engineer

Dudek

Alex Hardy - Senior Project Manager

Connor Burke - Environmental Acoustician

Tuesday Christoper - Environmental Planner

Josh Elson - Biologist

Carmen Garcia - Geospatial Analyst

Ryan J. Glenn, MA, RPA – Archaeological Principal Investigator

Shawna Johnson - Paleontologist

David Larocca - Senior Air Quality Specialist

Keshia Montifolca, MA, RPA – Project Archaeologist

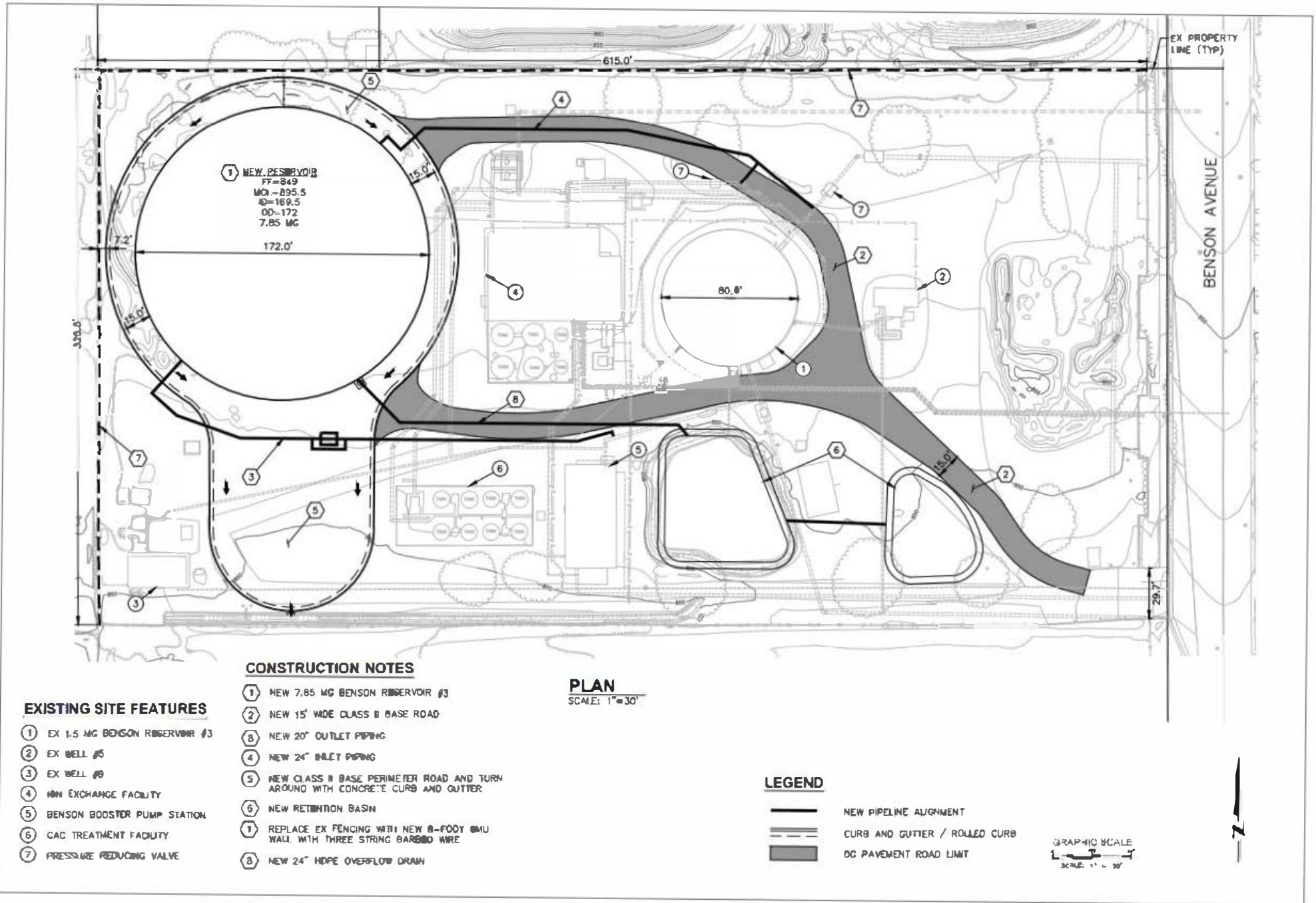
Kaylee Palmares - Environmental Planner

Hayley Rundle - Environmental Planner

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SOURCE: Dudek

DUDEK

FIGURE 3
 Site Plan
 Benson Reservoir Replacement and Improvements Design Project

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SOURCE: Esri World Imagery

DUDEK



0 55 110 Feet

FIGURE 3.4-1

Vegetation Communities and Land Covers

Benson Reservoir Replacement and Improvements Design Project

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FIGURE 3.13-1

Noise Measurement Locations

Benson Reservoir & Improvements Design & Bid Support Services Project

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Appendix A

Mitigation, Monitoring, and Reporting Program

Mitigation, Monitoring, and Reporting Program

Benson Reservoir Replacement and Improvements Project

MARCH 2026

Prepared for:

CITY OF CHINO

Public Works Department
13220 Central Avenue
Chino, California 91710
Contact: Michelle Chapman

Prepared by:

DUDEK

2280 Historic Decatur Road, Suite 200
San Diego, California 92106
Contact: Alex Hardy

The California Environmental Quality Act (CEQA) requires that public agencies adopting a Mitigated Negative Declaration (MND) take affirmative steps to determine that approved mitigation measures and project design features are implemented subsequent to project approval. The lead or responsible agency must adopt a monitoring and reporting program for the mitigation measures incorporated into a project or included as conditions of approval. The program must be designed to ensure compliance with the MND during project implementation (Public Resources Code, Section 20181.6; CEQA Guidelines, Section 15074(d)).

This Mitigation, Monitoring, and Reporting Program (MMRP) will be used by the City of Chino (City) to track compliance with adopted mitigation measures associated with the implementation of the proposed Benson Reservoir Replacement and Improvements Project (project). The City, as Lead Agency pursuant to CEQA, will ensure that all mitigation measures identified for the project are carried out in accordance with the adopted MMRP.

This MMRP consists of a checklist (Table 1) that identifies the mitigation measures, organized by environmental impact category discussed in the MND. The table identifies the mitigation monitoring and reporting requirements, including the timing of verification (e.g., prior to, during, or after construction) and the party responsible for implementing the measure. Space is provided for sign-off following completion/implementation of the mitigation measure.

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Table 1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Mitigation Measure	Timing of Verification			Responsible Party	Completed		Comments
		Pre Const	During Const	Post Const			Initials	
Air Quality								
Mitigation Measure AQ-1	Require Use of Tier 4 Off-Road Equipment During Construction. Prior to the commencement of any construction activities, the Project applicant or its designee shall provide evidence to the City of Chino (City) that for off-road equipment with engines rated at 75 horsepower or greater, no construction equipment shall be used that is less than Tier 4 interim. An exemption from this requirement may be granted under the following two conditions: (1) The applicant’s construction contractor shall demonstrate that at least three construction fleet owners/operators in San Bernardino County were contacted and that those owners/operators confirmed Tier 4 interim or final equipment could not be located within San Bernardino County during the desired construction schedule. (2) The proposed replacement equipment has been evaluated using the California Emissions Estimator Model or other industry standard emission estimation method and documentation has been provided to the City to confirm that necessary project-generated emissions reductions are achieved.	X			City of Chino			
Biological Resources								
Mitigation Measure BIO-1	Nesting Bird Avoidance. Project construction shall be conducted in compliance with the conditions set forth in the Migratory Bird Treaty Act and California Fish and Game Code to protect active bird/raptor nests. Vegetation removal shall occur during the non-breeding season for nesting birds and nesting raptors (September 1–January 31) to avoid impacts to nesting birds and raptors. If the project requires that work be performed during the breeding season for nesting birds (February 1–August 31) and nesting raptors (February 1–June 30), a pre-construction survey shall be conducted in the study area by qualified biologists for nesting birds and/or raptors within 3 days before project activities in order to avoid direct impacts on active nests. If the biologist does not find any active nests within or immediately adjacent to the impact areas, the vegetation clearing/construction work shall be allowed to proceed. If the biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the biologist shall delineate an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activity. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified biologist: (1) clearing limits shall be established within a buffer around any occupied nest; and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified biologist. The buffer shall be 100–300 feet for non-raptor nesting birds and 300–500 feet for nesting raptors. Construction can proceed into the buffer if the qualified biologist determines that the nest is no longer active.	X			City of Chino			

Table 1. Mitigation Monitoring and Reporting Program

		Timing of Verification			Responsible Party	Completed		Comments
Mitigation Measure	Mitigation Measure	Pre Const	During Const	Post Const		Initials	Date	
Cultural Resources								
Mitigation Measure CUL-1	Inadvertent Discovery of Archaeological Resources. In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior’s Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources have been properly mitigated and with approval by the City.		X		City of Chino			
Geology and Soils								
Mitigation Measure GEO-1	Paleontological Monitoring. Prior to commencement of any grading activity on site, the applicant shall retain a qualified paleontologist per the Society of Vertebrate Paleontology (SVP) (2010) guidelines. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the project. The PRIMP shall be consistent with the SVP (2010) guidelines and should outline requirements for preconstruction meeting attendance and worker environmental awareness training, where monitoring is required within the proposed project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological monitoring and discoveries treatment, and paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The qualified paleontologist shall attend the preconstruction meeting and a qualified paleontological monitor shall be on site during all rough grading and other significant ground-disturbing activities (including augering) in previously undisturbed, fine-grained Pleistocene sedimentary deposits. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Costs associated with laboratory work and curation fees are the responsibility of the City.	X	X		City of Chino			

Table 1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Mitigation Measure	Timing of Verification			Responsible Party	Completed		Comments
		Pre Const	During Const	Post Const		Initials	Date	
Noise								
Mitigation Measure NOI-1	Temporary Construction Noise Reduction. The City shall require the contractor to install temporary noise abatement during construction activities occurring near off-site residential receptors, specifically along the northern and eastern boundaries of the project site where residences are closest. Noise abatement shall consist of sound blankets, field-erected plywood sheeting, or comparable temporary solid barriers (minimum height of 10 feet and minimum sound transmission class [STC] rating of 25) placed to block direct line-of-sight between construction activities and the nearest noise-sensitive receptors. The barrier shall be installed prior to commencement of heavy equipment use and maintained throughout all relevant construction phases. The temporary barrier is expected to achieve a minimum construction noise reduction of approximately 13 decibels (dB) at the nearest residential property line, based on modeling results provided in Appendix E. In addition to the noise barrier, the following supplemental measures shall be implemented: ▪ Administrative controls (e.g., further reduce operating time of equipment and/or prohibit usage of equipment type[s] within certain distances to a nearest receiving occupied off-site property). ▪ Engineering controls (change equipment operating parameters [e.g., speed, capacity], or install features or elements that otherwise reduce equipment noise emission [e.g., upgrade engine exhaust mufflers]). The contractor shall document the installation and maintenance of noise abatement measures and provide verification to the City prior to and during construction.		X		City of Chino			

Table 1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Mitigation Measure	Timing of Verification			Responsible Party	Completed		Comments
		Pre Const	During Const	Post Const			Initials	
Tribal Cultural Resources								
Mitigation Measure TCR-1	Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities. A. The project applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians–Kizh Nation. The monitor shall be retained prior to the commencement of any “ground-disturbing activity” for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). “Ground-disturbing activity” shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching. B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity. C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or “TCR”), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe. D. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the project applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the project applicant/lead agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.	X	X		City of Chino			

Table 1. Mitigation Monitoring and Reporting Program

Mitigation Measure	Mitigation Measure	Timing of Verification			Responsible Party	Completed		Comments
		Pre Const	During Const	Post Const		Initials	Date	
Mitigation Measure TCR-2	Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial). A. Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist. The Kizh will recover and retain all discovered TCRs in the form and/or manner the Tribe deems appropriate, in the Tribe's sole discretion, and for any purpose the Tribe deems appropriate, including for educational, cultural, and/or historic purposes.		X		City of Chino			
Mitigation Measure TCR-3	Unanticipated Discovery of Human Remains and Associated Funerary Objects or Ceremonial Objects. A. Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute. B. If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resources Code section 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed. C. Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2). D. Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods. E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.		X		City of Chino			

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Appendix B

Air Quality and Greenhouse Gas Emissions Modeling

Benson Reservoir MND Detailed Report

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 - 3.7. Backfill and Compact (2027) - Unmitigated
 - 3.9. Site Drainage Improvements (2027) - Unmitigated

3.11. Grading (2026) - Unmitigated

3.13. Reservoir Construction (2026) - Unmitigated

3.15. Reservoir Construction (2027) - Unmitigated

3.17. Paving (2027) - Unmitigated

3.19. Architectural Coating (2027) - Unmitigated

3.21. Yard Piping & Vaults (2027) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Benson Reservoir MND
Construction Start Date	8/26/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.03872102266128, -117.68224293410923
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5216
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

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
Industrial Park	62.0	1000sqft	1.42	23,235	6,244	0.00	—	Building SF set equal to tank SF

Other Asphalt Surfaces	31.4	1000sqft	0.72	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	10.8	10.2	22.7	31.2	0.05	0.79	3.15	3.74	0.73	1.44	1.98	—	6,460	6,460	0.33	0.33	4.84	6,558
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.87	1.55	14.0	17.6	0.03	0.59	3.15	3.74	0.55	1.44	1.98	—	3,518	3,518	0.19	0.17	0.06	3,575
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	0.92	5.27	6.57	0.01	0.17	0.31	0.48	0.16	0.11	0.22	—	1,374	1,374	0.06	0.04	0.30	1,389
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.17	0.96	1.20	< 0.005	0.03	0.06	0.09	0.03	0.02	0.04	—	227	227	0.01	0.01	0.05	230

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	1.86	1.48	14.0	15.4	0.03	0.59	3.15	3.74	0.55	1.44	1.98	—	3,529	3,529	0.20	0.17	2.45	3,588
2027	10.8	10.2	22.7	31.2	0.05	0.79	2.41	3.20	0.73	0.46	1.18	—	6,460	6,460	0.33	0.33	4.84	6,558
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.85	1.48	14.0	15.2	0.03	0.59	3.15	3.74	0.55	1.44	1.98	—	3,518	3,518	0.19	0.17	0.06	3,575
2027	1.87	1.55	13.4	17.6	0.03	0.43	0.30	0.73	0.39	0.07	0.47	—	3,416	3,416	0.14	0.07	0.03	3,440
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.41	0.34	2.96	3.38	0.01	0.11	0.26	0.38	0.10	0.11	0.21	—	721	721	0.03	0.02	0.13	728
2027	1.05	0.92	5.27	6.57	0.01	0.17	0.31	0.48	0.16	0.06	0.22	—	1,374	1,374	0.06	0.04	0.30	1,389
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.06	0.54	0.62	< 0.005	0.02	0.05	0.07	0.02	0.02	0.04	—	119	119	0.01	< 0.005	0.02	120
2027	0.19	0.17	0.96	1.20	< 0.005	0.03	0.06	0.09	0.03	0.01	0.04	—	227	227	0.01	0.01	0.05	230

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.	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Area	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Area	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.17	0.15	0.17	1.34	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	391	391	0.02	0.02	0.55	398
Area	0.65	0.65	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
Area	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	97.5	97.5	0.01	< 0.005	—	98.0
Water	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Waste	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

3. Construction Emissions Details

3.1. Demo Existing Tank (2027) - 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	1.60	1.34	12.4	14.4	0.02	0.47	—	0.47	0.43	—	0.43	—	2,494	2,494	0.10	0.02	—	2,502

Demolition	—	—	—	—	—	—	1.49	1.49	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.18	0.15	1.36	1.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	273	273	0.01	< 0.005	—	274
Demolition	—	—	—	—	—	—	0.16	0.16	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.2	45.2	< 0.005	< 0.005	—	45.4
Demolition	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.94	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	189	189	< 0.005	0.01	0.60	192
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
Hauling	0.14	0.02	1.39	0.79	0.01	0.02	0.33	0.35	0.02	0.09	0.11	—	1,197	1,197	0.12	0.20	2.28	1,261

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	19.3	19.3	< 0.005	< 0.005	0.03	19.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.7
Hauling	0.02	< 0.005	0.16	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	131	131	0.01	0.02	0.11	138
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.20	3.20	< 0.005	< 0.005	< 0.005	3.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.16	2.16	< 0.005	< 0.005	< 0.005	2.26
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.7	21.7	< 0.005	< 0.005	0.02	22.9

3.3. Mob and Clearing (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	1.34	1.13	9.84	10.8	0.03	0.42	—	0.42	0.39	—	0.39	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.30	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.9	81.9	< 0.005	< 0.005	—	82.1
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	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.6
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	0.04	0.03	0.03	0.58	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	110	110	< 0.005	< 0.005	0.38	112
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	0.01	0.02	0.32	127
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.14

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.66	3.66	< 0.005	< 0.005	< 0.005	3.84
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	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.64
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

3.5. Landscape Fence (2027) - 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	0.19	0.16	1.96	3.85	0.01	0.05	—	0.05	0.04	—	0.04	—	612	612	0.02	< 0.005	—	614
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	0.01	< 0.005	0.05	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.8

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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.78	2.78	< 0.005	< 0.005	—	2.79
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	0.04	0.03	0.03	0.54	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	108	108	< 0.005	< 0.005	0.34	110
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	< 0.005	2.79
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.26	3.26	< 0.005	< 0.005	< 0.005	3.42
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	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.46

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.57
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

3.7. Backfill and Compact (2027) - 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 Equipm ent	0.14	0.12	1.12	1.88	< 0.005	0.04	—	0.04	0.03	—	0.03	—	289	289	0.01	< 0.005	—	289
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.96	1.96	< 0.005	< 0.005	—	1.97
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	0.03	0.02	0.02	0.40	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.2	81.2	< 0.005	< 0.005	0.26	82.3
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
Hauling	0.03	< 0.005	0.31	0.18	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	266	266	0.03	0.04	0.51	280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.10	3.10	< 0.005	< 0.005	< 0.005	3.14
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.89	4.89	< 0.005	< 0.005	0.01	5.13
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.85
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.81	1.81	< 0.005	< 0.005	< 0.005	1.90

3.9. Site Drainage Improvements (2027) - 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	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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	0.28	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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	0.02	0.02	0.20	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.7	52.7	< 0.005	< 0.005	—	52.8

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	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.72	8.72	< 0.005	< 0.005	—	8.75
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	0.04	0.03	0.03	0.54	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	108	108	< 0.005	< 0.005	0.34	110
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
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	0.03	0.03	0.03	0.40	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	99.3	99.3	< 0.005	< 0.005	0.01	100
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.01	125
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	—	8.27	8.27	< 0.005	< 0.005	0.01	8.38
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.79	9.79	< 0.005	< 0.005	0.01	10.3

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	—	1.37	1.37	< 0.005	< 0.005	< 0.005	1.39
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.70
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. Grading (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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipm ent	0.12	0.10	0.88	0.96	< 0.005	0.04	—	0.04	0.04	—	0.04	—	168	168	0.01	< 0.005	—	169	
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.8	27.8	< 0.005	< 0.005	—	27.9	
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.72	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	138	138	0.01	< 0.005	0.47	140	
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	0.01	0.02	0.32	127	
Hauling	0.10	0.01	0.96	0.55	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	815	815	0.08	0.13	1.66	857	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	0.01	128	

Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	0.01	0.02	0.01	127
Hauling	0.10	0.01	1.00	0.55	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	815	815	0.08	0.13	0.04	856
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	—	8.79	8.79	< 0.005	< 0.005	0.01	8.91
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.31	8.31	< 0.005	< 0.005	0.01	8.72
Hauling	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	55.8	55.8	0.01	0.01	0.05	58.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.24	9.24	< 0.005	< 0.005	0.01	9.71

3.13. Reservoir 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.29	10.9	12.4	0.02	0.39	—	0.39	0.36	—	0.36	—	2,314	2,314	0.09	0.02	—	2,322
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm	0.24	0.20	1.67	1.89	< 0.005	0.06	—	0.06	0.06	—	0.06	—	353	353	0.01	< 0.005	—	354
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.30	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.5	58.5	< 0.005	< 0.005	—	58.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.04	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	0.01	128
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	121	121	0.01	0.02	0.01	127
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	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.6	19.6	< 0.005	< 0.005	0.03	19.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.02	19.4
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.24	3.24	< 0.005	< 0.005	0.01	3.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.07	3.07	< 0.005	< 0.005	< 0.005	3.22
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. Reservoir Construction (2027) - 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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.42	0.35	3.01	3.53	0.01	0.10	—	0.10	0.09	—	0.09	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.06	0.55	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	109	109	< 0.005	< 0.005	—	110

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.03	0.67	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	< 0.005	< 0.005	0.43	137
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
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	0.04	0.04	0.04	0.50	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.01	126
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.01	125
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	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.9	35.9	< 0.005	< 0.005	0.05	36.4
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	0.01	0.04	35.6
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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.95	5.95	< 0.005	< 0.005	0.01	6.03
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.63	5.63	< 0.005	< 0.005	0.01	5.90
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. Paving (2027) - 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	0.77	0.65	5.74	8.20	0.01	0.23	—	0.23	0.21	—	0.21	—	1,244	1,244	0.05	0.01	—	1,248
Paving	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.7
Paving	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	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.26	2.26	< 0.005	< 0.005	—	2.26
Paving	< 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	0.05	0.94	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	189	189	< 0.005	0.01	0.60	192

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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.93	1.93	< 0.005	< 0.005	< 0.005	1.96
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	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
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

3.19. Architectural Coating (2027) - 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 Equipm ent	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	7.25	7.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm ent	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.85	5.85	< 0.005	< 0.005	—	5.87
Architect ural Coating s	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm ent	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.97	0.97	< 0.005	< 0.005	—	0.97
Architect ural Coating s	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	54.1	54.1	< 0.005	< 0.005	0.17	54.9
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	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.23
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	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.37
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

3.21. Yard Piping & Vaults (2027) - 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	0.27	0.22	2.03	2.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	452	452	0.02	< 0.005	—	454
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.6	49.6	< 0.005	< 0.005	—	49.7

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.21	8.21	< 0.005	< 0.005	—	8.24
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.03	0.02	0.02	0.30	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	74.4	74.4	< 0.005	< 0.005	0.01	75.3
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
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	—	8.27	8.27	< 0.005	< 0.005	0.01	8.38
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	—	1.37	1.37	< 0.005	< 0.005	< 0.005	1.39
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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
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	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
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	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9
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	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9

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	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.17	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Total	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00

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)

Equipm ent 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)

Equipm ent 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)

Equipm ent 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)

Vegetati on	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demo Existing Tank	Demolition	6/16/2027	8/10/2027	5.00	40.0	—
Mob and Clearing	Site Preparation	8/26/2026	9/9/2026	5.00	11.0	—
Landscape Fence	Site Preparation	6/16/2027	6/29/2027	5.00	10.0	—
Backfill and Compact	Site Preparation	5/27/2027	6/16/2027	5.00	15.0	—
Site Drainage Improvements	Site Preparation	3/17/2027	4/27/2027	5.00	30.0	—
Grading	Grading	9/10/2026	10/14/2026	5.00	25.0	—
Reservoir Construction	Building Construction	10/15/2026	5/26/2027	5.00	160	—
Paving	Paving	6/17/2027	6/22/2027	5.00	4.00	—
Architectural Coating	Architectural Coating	6/17/2027	7/8/2027	5.00	16.0	—
Yard Piping & Vaults	Trenching	1/20/2027	3/16/2027	5.00	40.0	—

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
Demo Existing Tank	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Demo Existing Tank	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demo Existing Tank	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Mob and Clearing	Graders	Diesel	Average	1.00	8.00	148	0.41
Mob and Clearing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Mob and Clearing	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Landscape Fence	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37

Landscape Fence	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Backfill and Compact	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Backfill and Compact	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Site Drainage Improvements	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Site Drainage Improvements	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Drainage Improvements	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Forklifts	Diesel	Average	2.00	7.00	82.0	0.20
Reservoir Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Reservoir Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	6.00	84.0	0.37
Reservoir Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Reservoir Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Yard Piping & Vaults	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Yard Piping & Vaults	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demo Existing Tank	—	—	—	—
Demo Existing Tank	Worker	14.0	18.5	LDA,LDT1,LDT2
Demo Existing Tank	Vendor	4.00	10.2	HHDT,MHDT
Demo Existing Tank	Hauling	18.0	20.0	HHDT
Demo Existing Tank	Onsite truck	—	—	HHDT
Mob and Clearing	—	—	—	—
Mob and Clearing	Worker	8.00	18.5	LDA,LDT1,LDT2
Mob and Clearing	Vendor	4.00	10.2	HHDT,MHDT
Mob and Clearing	Hauling	0.00	20.0	HHDT
Mob and Clearing	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	4.00	10.2	HHDT,MHDT
Grading	Hauling	12.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	14.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Landscape Fence	—	—	—	—
Landscape Fence	Worker	8.00	18.5	LDA,LDT1,LDT2
Landscape Fence	Vendor	4.00	10.2	HHDT,MHDT
Landscape Fence	Hauling	0.00	20.0	HHDT
Landscape Fence	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	10.0	18.5	LDA,LDT1,LDT2
Reservoir Construction	Vendor	4.00	10.2	HHDT,MHDT
Reservoir Construction	Hauling	0.00	20.0	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Yard Piping & Vaults	—	—	—	—
Yard Piping & Vaults	Worker	6.00	18.5	LDA,LDT1,LDT2
Yard Piping & Vaults	Vendor	0.00	10.2	HHDT,MHDT
Yard Piping & Vaults	Hauling	0.00	20.0	HHDT
Yard Piping & Vaults	Onsite truck	—	—	HHDT
Backfill and Compact	—	—	—	—
Backfill and Compact	Worker	6.00	18.5	LDA,LDT1,LDT2
Backfill and Compact	Vendor	4.00	10.2	HHDT,MHDT
Backfill and Compact	Hauling	4.00	20.0	HHDT
Backfill and Compact	Onsite truck	—	—	HHDT
Site Drainage Improvements	—	—	—	—
Site Drainage Improvements	Worker	8.00	18.5	LDA,LDT1,LDT2
Site Drainage Improvements	Vendor	4.00	10.2	HHDT,MHDT

Site Drainage Improvements	Hauling	0.00	20.0	HHDT
Site Drainage Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Architectural Coating	0.00	0.00	0.00	23,760	1,249

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 (Ton of Debris)	Acres Paved (acres)
Demo Existing Tank	0.00	0.00	0.00	4,290	—
Mob and Clearing	0.00	0.00	254	0.00	—
Landscape Fence	0.00	0.00	0.00	0.00	—
Backfill and Compact	472	0.00	0.00	0.00	—
Site Drainage Improvements	0.00	0.00	0.00	0.00	—
Grading	0.00	1,700	19.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.72

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Other Asphalt Surfaces	0.72	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	346	0.03	< 0.005
2027	0.00	346	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
Industrial Park	0.00	0.00	310	16,164	0.00	0.00	3,535	184,334
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

5.10.2. 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	0.00	23,760	1,249

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Industrial Park	405,495	346	0.0330	0.0040	637,569
Other Asphalt Surfaces	0.00	346	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)
Industrial Park	14,337,500	100,273
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	76.9	—
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
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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

5.16. 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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

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	19.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	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	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	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	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
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	78.0
AQ-PM	94.3
AQ-DPM	32.5
Drinking Water	99.4
Lead Risk Housing	27.8
Pesticides	61.9
Toxic Releases	61.8
Traffic	19.0
Effect Indicators	—

CleanUp Sites	80.3
Groundwater	0.00
Haz Waste Facilities/Generators	75.5
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	36.7
Cardio-vascular	61.7
Low Birth Weights	74.4
Socioeconomic Factor Indicators	—
Education	61.4
Housing	67.7
Linguistic	66.9
Poverty	55.9
Unemployment	55.0

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	56.64057487
Employed	51.27678686
Median HI	43.05145644
Education	—
Bachelor's or higher	41.07532401
High school enrollment	100
Preschool enrollment	27.08841268
Transportation	—

Auto Access	31.75927114
Active commuting	51.70024381
Social	—
2-parent households	73.77133325
Voting	67.35531888
Neighborhood	—
Alcohol availability	46.10547928
Park access	39.88194534
Retail density	44.86077249
Supermarket access	69.48543565
Tree canopy	16.91261388
Housing	—
Homeownership	31.64378288
Housing habitability	25.5357372
Low-inc homeowner severe housing cost burden	79.81521879
Low-inc renter severe housing cost burden	48.10727576
Uncrowded housing	50.73784165
Health Outcomes	—
Insured adults	56.08879764
Arthritis	18.8
Asthma ER Admissions	54.5
High Blood Pressure	25.9
Cancer (excluding skin)	24.3
Asthma	49.0
Coronary Heart Disease	21.3
Chronic Obstructive Pulmonary Disease	37.6
Diagnosed Diabetes	35.6
Life Expectancy at Birth	18.1

Cognitively Disabled	41.3
Physically Disabled	55.6
Heart Attack ER Admissions	23.4
Mental Health Not Good	53.9
Chronic Kidney Disease	20.1
Obesity	49.6
Pedestrian Injuries	49.7
Physical Health Not Good	44.3
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	55.6
Current Smoker	58.7
No Leisure Time for Physical Activity	49.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	81.0
Elderly	19.6
English Speaking	79.3
Foreign-born	57.1
Outdoor Workers	38.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	75.9
Traffic Density	25.7
Traffic Access	23.0
Other Indices	—
Hardship	52.9
Other Decision Support	—

2016 Voting	67.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	46.0
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	Building area set equal to the new tank area. Other asphalt surface includes new asphalt road within the project site.
Construction: Construction Phases	Based on project specific construction schedule.
Construction: Off-Road Equipment	Trenching equipment added for vault and piping construction.
Construction: Trips and VMT	Trips rounded up to the nearest even number to account for both arrival and departure trips.
Construction: Architectural Coatings	Coatings for exterior of new tank only.
Operations: Vehicle Data	No change in facility operations, therefore tips set equal to zero.

Operations: Architectural Coatings	Based on tank external area.
Construction: Dust From Material Movement	Project specific data.

Benson Reservoir MND LST Update Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Benson Reservoir MND LST Update
Construction Start Date	8/26/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.03872102266128, -117.68224293410923
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5216
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

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
Industrial Park	62.0	1000sqft	1.42	23,235	6,244	0.00	—	Building SF set equal to tank SF

Other Asphalt Surfaces	31.4	1000sqft	0.72	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	10.6	10.1	21.3	28.2	0.04	0.77	2.77	3.35	0.71	1.34	1.87	—	4,550	4,550	0.21	0.05	0.05	4,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	1.53	13.1	16.8	0.03	0.58	2.77	3.35	0.53	1.34	1.87	—	2,972	2,972	0.13	0.03	< 0.005	2,984
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.03	0.91	5.05	6.20	0.01	0.17	0.21	0.34	0.16	0.09	0.20	—	1,095	1,095	0.05	0.01	< 0.005	1,099
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.17	0.92	1.13	< 0.005	0.03	0.04	0.06	0.03	0.02	0.04	—	181	181	0.01	< 0.005	< 0.005	182

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	1.76	1.47	13.1	14.3	0.03	0.58	2.77	3.35	0.53	1.34	1.87	—	2,725	2,725	0.12	0.03	0.03	2,735
2027	10.6	10.1	21.3	28.2	0.04	0.77	1.50	2.26	0.71	0.23	0.93	—	4,550	4,550	0.21	0.05	0.05	4,570
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.75	1.46	13.1	14.3	0.02	0.58	2.77	3.35	0.53	1.34	1.87	—	2,493	2,493	0.12	0.03	< 0.005	2,504
2027	1.83	1.53	13.1	16.8	0.03	0.42	< 0.005	0.43	0.39	< 0.005	0.39	—	2,972	2,972	0.13	0.03	< 0.005	2,984
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.40	0.34	2.87	3.22	0.01	0.11	0.21	0.32	0.10	0.09	0.20	—	607	607	0.03	0.01	< 0.005	610
2027	1.03	0.91	5.05	6.20	0.01	0.17	0.16	0.34	0.16	0.03	0.18	—	1,095	1,095	0.05	0.01	< 0.005	1,099
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.06	0.52	0.59	< 0.005	0.02	0.04	0.06	0.02	0.02	0.04	—	101	101	< 0.005	< 0.005	< 0.005	101
2027	0.19	0.17	0.92	1.13	< 0.005	0.03	0.03	0.06	0.03	< 0.005	0.03	—	181	181	0.01	< 0.005	< 0.005	182

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.	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Area	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Area	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.17	0.15	0.17	1.34	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	391	391	0.02	0.02	0.55	398
Area	0.65	0.65	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
Area	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	97.5	97.5	0.01	< 0.005	—	98.0
Water	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Waste	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

3. Construction Emissions Details

3.1. Demo Existing Tank (2027) - 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	1.60	1.34	12.4	14.4	0.02	0.47	—	0.47	0.43	—	0.43	—	2,494	2,494	0.10	0.02	—	2,502

Demolition	—	—	—	—	—	—	1.49	1.49	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.18	0.15	1.36	1.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	273	273	0.01	< 0.005	—	274
Demolition	—	—	—	—	—	—	0.16	0.16	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.2	45.2	< 0.005	< 0.005	—	45.4
Demolition	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.28	4.28	< 0.005	< 0.005	0.01	4.63
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
Hauling	0.03	0.01	0.25	0.21	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	41.8	41.8	0.02	0.01	0.02	44.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.46	0.46	< 0.005	< 0.005	< 0.005	0.50
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.74
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.60	4.60	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.08
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.81

3.3. Mob and Clearing (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	1.34	1.13	9.84	10.8	0.03	0.42	—	0.42	0.39	—	0.39	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.30	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.9	81.9	< 0.005	< 0.005	—	82.1
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	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.6
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	0.03	0.03	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.50	2.50	< 0.005	< 0.005	< 0.005	2.71
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	0.01	6.85
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
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	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.5. Landscape Fence (2027) - 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	0.19	0.16	1.96	3.85	0.01	0.05	—	0.05	0.04	—	0.04	—	612	612	0.02	< 0.005	—	614
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	0.01	< 0.005	0.05	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.8

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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.78	2.78	< 0.005	< 0.005	—	2.79
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	0.01	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.65
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
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	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.7. Backfill and Compact (2027) - 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 Equipm ent	0.14	0.12	1.12	1.88	< 0.005	0.04	—	0.04	0.03	—	0.03	—	289	289	0.01	< 0.005	—	289
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.96	1.96	< 0.005	< 0.005	—	1.97
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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.99
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
Hauling	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.29	9.29	< 0.005	< 0.005	< 0.005	9.87
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07

3.9. Site Drainage Improvements (2027) - 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 Equipm ent	0.28	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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 Equipm ent	0.28	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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 Equipm ent	0.02	0.02	0.20	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.7	52.7	< 0.005	< 0.005	—	52.8

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	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.72	8.72	< 0.005	< 0.005	—	8.75
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	0.01	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.45	2.45	< 0.005	< 0.005	< 0.005	2.65
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	0.03	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.38	2.38	< 0.005	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.45	6.45	< 0.005	< 0.005	< 0.005	6.81
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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56

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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
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. Grading (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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.88	0.96	< 0.005	0.04	—	0.04	0.04	—	0.04	—	168	168	0.01	< 0.005	—	169
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.8	27.8	< 0.005	< 0.005	—	27.9
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	< 0.005	3.38
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	0.01	6.85
Hauling	0.02	0.01	0.17	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.3	28.3	0.01	< 0.005	0.02	30.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.04	3.04	< 0.005	< 0.005	< 0.005	3.36

Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.54	6.54	< 0.005	< 0.005	< 0.005	6.91
Hauling	0.02	0.01	0.18	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.6	28.6	0.01	< 0.005	< 0.005	30.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.95	1.95	< 0.005	< 0.005	< 0.005	2.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.34

3.13. Reservoir 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.29	10.9	12.4	0.02	0.39	—	0.39	0.36	—	0.36	—	2,314	2,314	0.09	0.02	—	2,322
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm	0.24	0.20	1.67	1.89	< 0.005	0.06	—	0.06	0.06	—	0.06	—	353	353	0.01	< 0.005	—	354
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.30	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.5	58.5	< 0.005	< 0.005	—	58.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.03	0.03	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.04	3.04	< 0.005	< 0.005	< 0.005	3.36
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.54	6.54	< 0.005	< 0.005	< 0.005	6.91
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	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.52
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.05
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	—	0.08	0.08	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
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. Reservoir Construction (2027) - 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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.42	0.35	3.01	3.53	0.01	0.10	—	0.10	0.09	—	0.09	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.06	0.55	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	109	109	< 0.005	< 0.005	—	110

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.31
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.22
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.45	6.45	< 0.005	< 0.005	< 0.005	6.81
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	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.85	0.85	< 0.005	< 0.005	< 0.005	0.93
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.93
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	—	0.14	0.14	< 0.005	< 0.005	< 0.005	0.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.32
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. Paving (2027) - 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	0.77	0.65	5.74	8.20	0.01	0.23	—	0.23	0.21	—	0.21	—	1,244	1,244	0.05	0.01	—	1,248
Paving	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.7
Paving	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	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.26	2.26	< 0.005	< 0.005	—	2.26
Paving	< 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	0.05	0.05	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.28	4.28	< 0.005	< 0.005	0.01	4.63

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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
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	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
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

3.19. Architectural Coating (2027) - 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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	7.25	7.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.85	5.85	< 0.005	< 0.005	—	5.87
Architectural Coatings	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.97	0.97	< 0.005	< 0.005	—	0.97
Architectural Coatings	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.32
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.06
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	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
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

3.21. Yard Piping & Vaults (2027) - 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	0.27	0.22	2.03	2.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	452	452	0.02	< 0.005	—	454
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.6	49.6	< 0.005	< 0.005	—	49.7

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.21	8.21	< 0.005	< 0.005	—	8.24
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.93
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	0.00	0.00	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
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	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.04
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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
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	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
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	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9
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	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9

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	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.17	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Total	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00

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)

Equipm ent 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)

Equipm ent 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)

Equipm ent 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)

Vegetati on	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demo Existing Tank	Demolition	6/16/2027	8/10/2027	5.00	40.0	—
Mob and Clearing	Site Preparation	8/26/2026	9/9/2026	5.00	11.0	—
Landscape Fence	Site Preparation	6/16/2027	6/29/2027	5.00	10.0	—
Backfill and Compact	Site Preparation	5/27/2027	6/16/2027	5.00	15.0	—
Site Drainage Improvements	Site Preparation	3/17/2027	4/27/2027	5.00	30.0	—
Grading	Grading	9/10/2026	10/14/2026	5.00	25.0	—
Reservoir Construction	Building Construction	10/15/2026	5/26/2027	5.00	160	—
Paving	Paving	6/17/2027	6/22/2027	5.00	4.00	—
Architectural Coating	Architectural Coating	6/17/2027	7/8/2027	5.00	16.0	—
Yard Piping & Vaults	Trenching	1/20/2027	3/16/2027	5.00	40.0	—

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
Demo Existing Tank	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Demo Existing Tank	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demo Existing Tank	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Mob and Clearing	Graders	Diesel	Average	1.00	8.00	148	0.41
Mob and Clearing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Mob and Clearing	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Landscape Fence	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37

Landscape Fence	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Backfill and Compact	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Backfill and Compact	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Site Drainage Improvements	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Site Drainage Improvements	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Drainage Improvements	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Forklifts	Diesel	Average	2.00	7.00	82.0	0.20
Reservoir Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Reservoir Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	6.00	84.0	0.37
Reservoir Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Reservoir Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Yard Piping & Vaults	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Yard Piping & Vaults	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demo Existing Tank	—	—	—	—
Demo Existing Tank	Worker	14.0	0.19	LDA,LDT1,LDT2
Demo Existing Tank	Vendor	4.00	0.19	HHDT,MHDT
Demo Existing Tank	Hauling	18.0	0.19	HHDT
Demo Existing Tank	Onsite truck	—	—	HHDT
Mob and Clearing	—	—	—	—
Mob and Clearing	Worker	8.00	0.19	LDA,LDT1,LDT2
Mob and Clearing	Vendor	4.00	0.19	HHDT,MHDT
Mob and Clearing	Hauling	0.00	0.19	HHDT
Mob and Clearing	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	0.19	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.19	HHDT,MHDT
Grading	Hauling	12.0	0.19	HHDT
Grading	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	14.0	0.19	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.19	HHDT,MHDT
Paving	Hauling	0.00	0.19	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	0.19	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.19	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Landscape Fence	—	—	—	—
Landscape Fence	Worker	8.00	0.19	LDA,LDT1,LDT2
Landscape Fence	Vendor	4.00	0.19	HHDT,MHDT
Landscape Fence	Hauling	0.00	0.19	HHDT
Landscape Fence	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	10.0	0.19	LDA,LDT1,LDT2
Reservoir Construction	Vendor	4.00	0.19	HHDT,MHDT
Reservoir Construction	Hauling	0.00	0.19	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Yard Piping & Vaults	—	—	—	—
Yard Piping & Vaults	Worker	6.00	0.19	LDA,LDT1,LDT2
Yard Piping & Vaults	Vendor	0.00	0.19	HHDT,MHDT
Yard Piping & Vaults	Hauling	0.00	0.19	HHDT
Yard Piping & Vaults	Onsite truck	—	—	HHDT
Backfill and Compact	—	—	—	—
Backfill and Compact	Worker	6.00	0.19	LDA,LDT1,LDT2
Backfill and Compact	Vendor	4.00	0.19	HHDT,MHDT
Backfill and Compact	Hauling	4.00	0.19	HHDT
Backfill and Compact	Onsite truck	—	—	HHDT
Site Drainage Improvements	—	—	—	—
Site Drainage Improvements	Worker	8.00	0.19	LDA,LDT1,LDT2
Site Drainage Improvements	Vendor	4.00	0.19	HHDT,MHDT

Site Drainage Improvements	Hauling	0.00	0.19	HHDT
Site Drainage Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Architectural Coating	0.00	0.00	0.00	23,760	1,249

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 (Ton of Debris)	Acres Paved (acres)
Demo Existing Tank	0.00	0.00	0.00	4,290	—
Mob and Clearing	0.00	0.00	254	0.00	—
Landscape Fence	0.00	0.00	0.00	0.00	—
Backfill and Compact	472	0.00	0.00	0.00	—
Site Drainage Improvements	0.00	0.00	0.00	0.00	—
Grading	0.00	1,700	19.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.72

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Other Asphalt Surfaces	0.72	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	346	0.03	< 0.005
2027	0.00	346	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
Industrial Park	0.00	0.00	310	16,164	0.00	0.00	3,535	184,334
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

5.10.2. 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	0.00	23,760	1,249

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Industrial Park	405,495	346	0.0330	0.0040	637,569
Other Asphalt Surfaces	0.00	346	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)
Industrial Park	14,337,500	100,273
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	76.9	—
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
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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

5.16. 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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

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	19.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	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 $\frac{3}{4}$ 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	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	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	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
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	78.0
AQ-PM	94.3
AQ-DPM	32.5
Drinking Water	99.4
Lead Risk Housing	27.8
Pesticides	61.9
Toxic Releases	61.8
Traffic	19.0
Effect Indicators	—

CleanUp Sites	80.3
Groundwater	0.00
Haz Waste Facilities/Generators	75.5
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	36.7
Cardio-vascular	61.7
Low Birth Weights	74.4
Socioeconomic Factor Indicators	—
Education	61.4
Housing	67.7
Linguistic	66.9
Poverty	55.9
Unemployment	55.0

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	56.64057487
Employed	51.27678686
Median HI	43.05145644
Education	—
Bachelor's or higher	41.07532401
High school enrollment	100
Preschool enrollment	27.08841268
Transportation	—

Auto Access	31.75927114
Active commuting	51.70024381
Social	—
2-parent households	73.77133325
Voting	67.35531888
Neighborhood	—
Alcohol availability	46.10547928
Park access	39.88194534
Retail density	44.86077249
Supermarket access	69.48543565
Tree canopy	16.91261388
Housing	—
Homeownership	31.64378288
Housing habitability	25.5357372
Low-inc homeowner severe housing cost burden	79.81521879
Low-inc renter severe housing cost burden	48.10727576
Uncrowded housing	50.73784165
Health Outcomes	—
Insured adults	56.08879764
Arthritis	18.8
Asthma ER Admissions	54.5
High Blood Pressure	25.9
Cancer (excluding skin)	24.3
Asthma	49.0
Coronary Heart Disease	21.3
Chronic Obstructive Pulmonary Disease	37.6
Diagnosed Diabetes	35.6
Life Expectancy at Birth	18.1

Cognitively Disabled	41.3
Physically Disabled	55.6
Heart Attack ER Admissions	23.4
Mental Health Not Good	53.9
Chronic Kidney Disease	20.1
Obesity	49.6
Pedestrian Injuries	49.7
Physical Health Not Good	44.3
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	55.6
Current Smoker	58.7
No Leisure Time for Physical Activity	49.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	81.0
Elderly	19.6
English Speaking	79.3
Foreign-born	57.1
Outdoor Workers	38.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	75.9
Traffic Density	25.7
Traffic Access	23.0
Other Indices	—
Hardship	52.9
Other Decision Support	—

2016 Voting	67.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	46.0
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	Building area set equal to the new tank area. Other asphalt surface includes new asphalt road within the project site.
Construction: Construction Phases	Based on project specific construction schedule.
Construction: Off-Road Equipment	Trenching equipment added for vault and piping construction.
Construction: Trips and VMT	Trips rounded up to the nearest even number to account for both arrival and departure trips. Trips set equal to 1,000 feet for onsite travel only for LST analysis.
Construction: Architectural Coatings	Coatings for exterior of new tank only.

Operations: Vehicle Data	No change in facility operations, therefore tips set equal to zero.
Operations: Architectural Coatings	Based on tank external area.
Construction: Dust From Material Movement	Project specific data.

Benson Reservoir MND HRA Update Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Benson Reservoir MND HRA Update
Construction Start Date	8/26/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.03872102266128, -117.68224293410923
County	San Bernardino-South Coast
City	Chino
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5216
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

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
Industrial Park	62.0	1000sqft	1.42	23,235	6,244	0.00	—	Building SF set equal to tank SF

Other Asphalt Surfaces	31.4	1000sqft	0.72	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	10.6	10.1	21.3	28.2	0.04	0.77	2.77	3.35	0.71	1.34	1.87	—	4,545	4,545	0.21	0.05	0.04	4,564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.83	1.53	13.1	16.8	0.03	0.58	2.77	3.35	0.53	1.34	1.87	—	2,970	2,970	0.13	0.03	< 0.005	2,982
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.03	0.91	5.05	6.19	0.01	0.17	0.21	0.34	0.16	0.09	0.20	—	1,094	1,094	0.05	0.01	< 0.005	1,099
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.17	0.92	1.13	< 0.005	0.03	0.04	0.06	0.03	0.02	0.04	—	181	181	0.01	< 0.005	< 0.005	182

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	1.76	1.47	13.1	14.3	0.03	0.58	2.77	3.35	0.53	1.34	1.87	—	2,724	2,724	0.12	0.03	0.02	2,734
2027	10.6	10.1	21.3	28.2	0.04	0.77	1.49	2.26	0.71	0.23	0.93	—	4,545	4,545	0.21	0.05	0.04	4,564
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.75	1.46	13.1	14.3	0.02	0.58	2.77	3.35	0.53	1.34	1.87	—	2,492	2,492	0.12	0.03	< 0.005	2,503
2027	1.83	1.53	13.1	16.8	0.03	0.42	< 0.005	0.42	0.39	< 0.005	0.39	—	2,970	2,970	0.13	0.03	< 0.005	2,982
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.40	0.34	2.87	3.22	0.01	0.11	0.21	0.32	0.10	0.09	0.20	—	607	607	0.03	0.01	< 0.005	610
2027	1.03	0.91	5.05	6.19	0.01	0.17	0.16	0.34	0.16	0.02	0.18	—	1,094	1,094	0.05	0.01	< 0.005	1,099
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.06	0.52	0.59	< 0.005	0.02	0.04	0.06	0.02	0.02	0.04	—	101	101	< 0.005	< 0.005	< 0.005	101
2027	0.19	0.17	0.92	1.13	< 0.005	0.03	0.03	0.06	0.03	< 0.005	0.03	—	181	181	0.01	< 0.005	< 0.005	182

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.	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Area	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	2.02	1.87	1.29	12.1	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,577	3,646	7.15	0.20	15.0	3,900
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Area	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	1.76	1.63	1.37	9.22	0.03	0.03	2.51	2.54	0.03	0.64	0.67	68.9	3,393	3,462	7.15	0.20	6.28	3,708
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.17	0.15	0.17	1.34	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	391	391	0.02	0.02	0.55	398
Area	0.65	0.65	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.85	2.85	< 0.005	< 0.005	—	2.86
Energy	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	589	589	0.05	< 0.005	—	592
Water	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Waste	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	0.85	0.81	0.35	2.18	< 0.005	0.02	0.36	0.37	0.02	0.09	0.11	68.9	1,076	1,145	7.04	0.09	6.60	1,355
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
Area	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	97.5	97.5	0.01	< 0.005	—	98.0
Water	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Waste	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	0.15	0.15	0.06	0.40	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	11.4	178	190	1.17	0.02	1.09	224

3. Construction Emissions Details

3.1. Demo Existing Tank (2027) - 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	1.60	1.34	12.4	14.4	0.02	0.47	—	0.47	0.43	—	0.43	—	2,494	2,494	0.10	0.02	—	2,502

Demolition	—	—	—	—	—	—	1.49	1.49	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.18	0.15	1.36	1.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	273	273	0.01	< 0.005	—	274
Demolition	—	—	—	—	—	—	0.16	0.16	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.2	45.2	< 0.005	< 0.005	—	45.4
Demolition	—	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	2.36	2.36	< 0.005	< 0.005	0.00	2.69
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
Hauling	0.03	0.01	0.25	0.21	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	41.8	41.8	0.02	0.01	0.02	44.4

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.26	0.26	< 0.005	< 0.005	0.00	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.74
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.60	4.60	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	0.00	0.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.81

3.3. Mob and Clearing (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	1.34	1.13	9.84	10.8	0.03	0.42	—	0.42	0.39	—	0.39	—	2,716	2,716	0.11	0.02	—	2,725
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.30	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.9	81.9	< 0.005	< 0.005	—	82.1
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	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.6
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	0.03	0.03	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.38	1.38	< 0.005	< 0.005	0.00	1.57
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	0.01	6.85
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	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	0.00	0.05

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
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	0.00	0.00	0.00	0.00	0.00	—	0.01	0.01	< 0.005	< 0.005	0.00	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.5. Landscape Fence (2027) - 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	0.19	0.16	1.96	3.85	0.01	0.05	—	0.05	0.04	—	0.04	—	612	612	0.02	< 0.005	—	614
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	0.01	< 0.005	0.05	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.8

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	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.78	2.78	< 0.005	< 0.005	—	2.79
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	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.35	1.35	< 0.005	< 0.005	0.00	1.54
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	0.00	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
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	0.00	0.00	0.00	0.00	0.00	—	0.01	0.01	< 0.005	< 0.005	0.00	0.01

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.7. Backfill and Compact (2027) - 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 Equipm ent	0.14	0.12	1.12	1.88	< 0.005	0.04	—	0.04	0.03	—	0.03	—	289	289	0.01	< 0.005	—	289
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	11.9
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.96	1.96	< 0.005	< 0.005	—	1.97
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	0.02	0.02	< 0.005	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.01	1.01	< 0.005	< 0.005	0.00	1.15
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
Hauling	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.29	9.29	< 0.005	< 0.005	< 0.005	9.87
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	0.00	0.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.01	0.01	< 0.005	< 0.005	0.00	0.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.05
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07

3.9. Site Drainage Improvements (2027) - 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	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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	0.28	0.24	2.49	4.19	0.01	0.07	—	0.07	0.06	—	0.06	—	641	641	0.03	0.01	—	643
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	0.02	0.02	0.20	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	52.7	52.7	< 0.005	< 0.005	—	52.8

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	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.72	8.72	< 0.005	< 0.005	—	8.75
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	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.35	1.35	< 0.005	< 0.005	0.00	1.54
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	0.03	0.02	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.37	1.37	< 0.005	< 0.005	0.00	1.56
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.45	6.45	< 0.005	< 0.005	< 0.005	6.81
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.11	0.11	< 0.005	< 0.005	0.00	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.56

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	0.00	0.00	0.00	0.00	0.00	—	0.02	0.02	< 0.005	< 0.005	0.00	0.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
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. Grading (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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.70	1.42	12.9	14.0	0.02	0.58	—	0.58	0.53	—	0.53	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.12	0.10	0.88	0.96	< 0.005	0.04	—	0.04	0.04	—	0.04	—	168	168	0.01	< 0.005	—	169
Dust From Material Movement	—	—	—	—	—	—	0.19	0.19	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.8	27.8	< 0.005	< 0.005	—	27.9
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.72	1.72	< 0.005	< 0.005	0.00	1.97
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	0.01	6.85
Hauling	0.02	0.01	0.17	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.3	28.3	0.01	< 0.005	0.02	30.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.75	1.75	< 0.005	< 0.005	0.00	2.07

Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.54	6.54	< 0.005	< 0.005	< 0.005	6.91
Hauling	0.02	0.01	0.18	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.6	28.6	0.01	< 0.005	< 0.005	30.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.12	0.12	< 0.005	< 0.005	0.00	0.14
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.95	1.95	< 0.005	< 0.005	< 0.005	2.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.02	0.02	< 0.005	< 0.005	0.00	0.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.34

3.13. Reservoir 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.29	10.9	12.4	0.02	0.39	—	0.39	0.36	—	0.36	—	2,314	2,314	0.09	0.02	—	2,322
Onsite truck	0.00	0.00	0.00	0.00	0.00	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 Equipm	0.24	0.20	1.67	1.89	< 0.005	0.06	—	0.06	0.06	—	0.06	—	353	353	0.01	< 0.005	—	354
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.30	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	58.5	58.5	< 0.005	< 0.005	—	58.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.03	0.03	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.75	1.75	< 0.005	< 0.005	0.00	2.07
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.54	6.54	< 0.005	< 0.005	< 0.005	6.91
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	< 0.005	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.27	0.27	< 0.005	< 0.005	0.00	0.32
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.05
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	0.00	0.00	0.00	0.00	0.00	—	0.04	0.04	< 0.005	< 0.005	0.00	0.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
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. Reservoir Construction (2027) - 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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	1.49	1.24	10.5	12.3	0.02	0.35	—	0.35	0.33	—	0.33	—	2,314	2,314	0.09	0.02	—	2,321
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.42	0.35	3.01	3.53	0.01	0.10	—	0.10	0.09	—	0.09	—	661	661	0.03	0.01	—	663
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.08	0.06	0.55	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	109	109	< 0.005	< 0.005	—	110

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.69	1.69	< 0.005	< 0.005	0.00	1.92
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.38	6.38	< 0.005	< 0.005	0.01	6.75
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	0.03	0.03	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.71	1.71	< 0.005	< 0.005	0.00	1.95
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.45	6.45	< 0.005	< 0.005	< 0.005	6.81
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	< 0.005	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.49	0.49	< 0.005	< 0.005	0.00	0.56
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.83	1.83	< 0.005	< 0.005	< 0.005	1.93
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	0.00	0.00	0.00	0.00	0.00	—	0.08	0.08	< 0.005	< 0.005	0.00	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.32
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. Paving (2027) - 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	0.77	0.65	5.74	8.20	0.01	0.23	—	0.23	0.21	—	0.21	—	1,244	1,244	0.05	0.01	—	1,248
Paving	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.6	13.6	< 0.005	< 0.005	—	13.7
Paving	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	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.26	2.26	< 0.005	< 0.005	—	2.26
Paving	< 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	0.05	0.05	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	2.36	2.36	< 0.005	< 0.005	0.00	2.69

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	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.03	0.03	< 0.005	< 0.005	0.00	0.03
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	0.00	0.00	0.00	0.00	0.00	—	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005
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

3.19. Architectural Coating (2027) - 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 Equipm ent	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	7.25	7.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.85	5.85	< 0.005	< 0.005	—	5.87
Architectural Coatings	0.32	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.97	0.97	< 0.005	< 0.005	—	0.97
Architectural Coatings	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.67	0.67	< 0.005	< 0.005	0.00	0.77
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	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.03	0.03	< 0.005	< 0.005	0.00	0.03
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	0.00	0.00	0.00	0.00	0.00	—	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.01
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

3.21. Yard Piping & Vaults (2027) - 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	0.27	0.22	2.03	2.91	< 0.005	0.06	—	0.06	0.06	—	0.06	—	452	452	0.02	< 0.005	—	454
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.22	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.6	49.6	< 0.005	< 0.005	—	49.7

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.21	8.21	< 0.005	< 0.005	—	8.24
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.02	0.02	< 0.005	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	1.03	1.03	< 0.005	< 0.005	0.00	1.17
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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.11	0.11	< 0.005	< 0.005	0.00	0.13
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	0.00	0.00	0.00	0.00	0.00	—	0.02	0.02	< 0.005	< 0.005	0.00	0.02
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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
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	1.29	1.16	1.11	10.9	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,891	2,891	0.12	0.13	8.98	2,941
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
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	1.21	1.09	1.20	9.07	0.03	0.02	2.51	2.53	0.02	0.64	0.65	—	2,711	2,711	0.13	0.13	0.23	2,753
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9
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	0.03	0.03	0.03	0.25	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	64.8	64.8	< 0.005	< 0.005	0.09	65.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	385	385	0.04	< 0.005	—	387
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	63.7	63.7	0.01	< 0.005	—	64.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.02	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
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	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	204	204	0.02	< 0.005	—	205
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9
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	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.8	33.8	< 0.005	< 0.005	—	33.9

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	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.17	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Total	0.71	0.70	0.01	1.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.16	4.16	< 0.005	< 0.005	—	4.17
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.53	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47
Total	0.12	0.12	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	0.47

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	27.5	93.1	121	2.83	0.07	—	211

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.55	15.4	20.0	0.47	0.01	—	35.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	41.4	0.00	41.4	4.14	0.00	—	145

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.86	0.00	6.86	0.69	0.00	—	24.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.05	6.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.00	1.00

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)

Equipm ent 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)

Equipm ent 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)

Equipm ent 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)

Vegetati on	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demo Existing Tank	Demolition	6/16/2027	8/10/2027	5.00	40.0	—
Mob and Clearing	Site Preparation	8/26/2026	9/9/2026	5.00	11.0	—
Landscape Fence	Site Preparation	6/16/2027	6/29/2027	5.00	10.0	—
Backfill and Compact	Site Preparation	5/27/2027	6/16/2027	5.00	15.0	—
Site Drainage Improvements	Site Preparation	3/17/2027	4/27/2027	5.00	30.0	—
Grading	Grading	9/10/2026	10/14/2026	5.00	25.0	—
Reservoir Construction	Building Construction	10/15/2026	5/26/2027	5.00	160	—
Paving	Paving	6/17/2027	6/22/2027	5.00	4.00	—
Architectural Coating	Architectural Coating	6/17/2027	7/8/2027	5.00	16.0	—
Yard Piping & Vaults	Trenching	1/20/2027	3/16/2027	5.00	40.0	—

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
Demo Existing Tank	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Demo Existing Tank	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demo Existing Tank	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Mob and Clearing	Graders	Diesel	Average	1.00	8.00	148	0.41
Mob and Clearing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Mob and Clearing	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Landscape Fence	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37

Landscape Fence	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Backfill and Compact	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Backfill and Compact	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Site Drainage Improvements	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.00	84.0	0.37
Site Drainage Improvements	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Drainage Improvements	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Reservoir Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Reservoir Construction	Forklifts	Diesel	Average	2.00	7.00	82.0	0.20
Reservoir Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Reservoir Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	6.00	84.0	0.37
Reservoir Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Reservoir Construction	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56

Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Yard Piping & Vaults	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Yard Piping & Vaults	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demo Existing Tank	—	—	—	—
Demo Existing Tank	Worker	14.0	0.00	LDA,LDT1,LDT2
Demo Existing Tank	Vendor	4.00	0.19	HHDT,MHDT
Demo Existing Tank	Hauling	18.0	0.19	HHDT
Demo Existing Tank	Onsite truck	—	—	HHDT
Mob and Clearing	—	—	—	—
Mob and Clearing	Worker	8.00	0.00	LDA,LDT1,LDT2
Mob and Clearing	Vendor	4.00	0.19	HHDT,MHDT
Mob and Clearing	Hauling	0.00	0.19	HHDT
Mob and Clearing	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	0.00	LDA,LDT1,LDT2
Grading	Vendor	4.00	0.19	HHDT,MHDT
Grading	Hauling	12.0	0.19	HHDT
Grading	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	14.0	0.00	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.19	HHDT,MHDT
Paving	Hauling	0.00	0.19	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	0.00	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	0.19	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.19	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Landscape Fence	—	—	—	—
Landscape Fence	Worker	8.00	0.00	LDA,LDT1,LDT2
Landscape Fence	Vendor	4.00	0.19	HHDT,MHDT
Landscape Fence	Hauling	0.00	0.19	HHDT
Landscape Fence	Onsite truck	—	—	HHDT
Reservoir Construction	—	—	—	—
Reservoir Construction	Worker	10.0	0.00	LDA,LDT1,LDT2
Reservoir Construction	Vendor	4.00	0.19	HHDT,MHDT
Reservoir Construction	Hauling	0.00	0.19	HHDT
Reservoir Construction	Onsite truck	—	—	HHDT
Yard Piping & Vaults	—	—	—	—
Yard Piping & Vaults	Worker	6.00	0.00	LDA,LDT1,LDT2
Yard Piping & Vaults	Vendor	0.00	0.19	HHDT,MHDT
Yard Piping & Vaults	Hauling	0.00	0.19	HHDT
Yard Piping & Vaults	Onsite truck	—	—	HHDT
Backfill and Compact	—	—	—	—
Backfill and Compact	Worker	6.00	0.00	LDA,LDT1,LDT2
Backfill and Compact	Vendor	4.00	0.19	HHDT,MHDT
Backfill and Compact	Hauling	4.00	0.19	HHDT
Backfill and Compact	Onsite truck	—	—	HHDT
Site Drainage Improvements	—	—	—	—
Site Drainage Improvements	Worker	8.00	0.00	LDA,LDT1,LDT2
Site Drainage Improvements	Vendor	4.00	0.19	HHDT,MHDT

Site Drainage Improvements	Hauling	0.00	0.19	HHDT
Site Drainage Improvements	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Architectural Coating	0.00	0.00	0.00	23,760	1,249

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 (Ton of Debris)	Acres Paved (acres)
Demo Existing Tank	0.00	0.00	0.00	4,290	—
Mob and Clearing	0.00	0.00	254	0.00	—
Landscape Fence	0.00	0.00	0.00	0.00	—
Backfill and Compact	472	0.00	0.00	0.00	—
Site Drainage Improvements	0.00	0.00	0.00	0.00	—
Grading	0.00	1,700	19.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.72

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Other Asphalt Surfaces	0.72	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	346	0.03	< 0.005
2027	0.00	346	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
Industrial Park	0.00	0.00	310	16,164	0.00	0.00	3,535	184,334
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

5.10.2. 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	0.00	23,760	1,249

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

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)
Industrial Park	405,495	346	0.0330	0.0040	637,569
Other Asphalt Surfaces	0.00	346	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)
Industrial Park	14,337,500	100,273
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	76.9	—
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
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

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

5.16. 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. Biomass Cover Type

5.18.1.1. Unmitigated

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)

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	19.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	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	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	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	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
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	78.0
AQ-PM	94.3
AQ-DPM	32.5
Drinking Water	99.4
Lead Risk Housing	27.8
Pesticides	61.9
Toxic Releases	61.8
Traffic	19.0
Effect Indicators	—

CleanUp Sites	80.3
Groundwater	0.00
Haz Waste Facilities/Generators	75.5
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	36.7
Cardio-vascular	61.7
Low Birth Weights	74.4
Socioeconomic Factor Indicators	—
Education	61.4
Housing	67.7
Linguistic	66.9
Poverty	55.9
Unemployment	55.0

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	56.64057487
Employed	51.27678686
Median HI	43.05145644
Education	—
Bachelor's or higher	41.07532401
High school enrollment	100
Preschool enrollment	27.08841268
Transportation	—

Auto Access	31.75927114
Active commuting	51.70024381
Social	—
2-parent households	73.77133325
Voting	67.35531888
Neighborhood	—
Alcohol availability	46.10547928
Park access	39.88194534
Retail density	44.86077249
Supermarket access	69.48543565
Tree canopy	16.91261388
Housing	—
Homeownership	31.64378288
Housing habitability	25.5357372
Low-inc homeowner severe housing cost burden	79.81521879
Low-inc renter severe housing cost burden	48.10727576
Uncrowded housing	50.73784165
Health Outcomes	—
Insured adults	56.08879764
Arthritis	18.8
Asthma ER Admissions	54.5
High Blood Pressure	25.9
Cancer (excluding skin)	24.3
Asthma	49.0
Coronary Heart Disease	21.3
Chronic Obstructive Pulmonary Disease	37.6
Diagnosed Diabetes	35.6
Life Expectancy at Birth	18.1

Cognitively Disabled	41.3
Physically Disabled	55.6
Heart Attack ER Admissions	23.4
Mental Health Not Good	53.9
Chronic Kidney Disease	20.1
Obesity	49.6
Pedestrian Injuries	49.7
Physical Health Not Good	44.3
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	55.6
Current Smoker	58.7
No Leisure Time for Physical Activity	49.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	81.0
Elderly	19.6
English Speaking	79.3
Foreign-born	57.1
Outdoor Workers	38.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	75.9
Traffic Density	25.7
Traffic Access	23.0
Other Indices	—
Hardship	52.9
Other Decision Support	—

2016 Voting	67.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	46.0
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	Building area set equal to the new tank area. Other asphalt surface includes new asphalt road within the project site.
Construction: Construction Phases	Based on project specific construction schedule.
Construction: Off-Road Equipment	Trenching equipment added for vault and piping construction.
Construction: Trips and VMT	Trips rounded up to the nearest even number to account for both arrival and departure trips. Trips set equal to 1,000 feet for onsite travel only for HRA analysis.
Construction: Architectural Coatings	Coatings for exterior of new tank only.

Operations: Vehicle Data	No change in facility operations, therefore tips set equal to zero.
Operations: Architectural Coatings	Based on tank external area.
Construction: Dust From Material Movement	Project specific data.

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 3/25/2025
** File: C:\Users\dlarocca\Desktop\Lakes Files\BensonConst2\BensonConst2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\dlarocca\Desktop\Lakes Files\BensonConst2\BensonConst2.isc
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 9663345
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL BensonConst2.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 = COST
** DESCRSRC Construction Sources
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 14
** 436962.236, 3766689.791, 260.94, 5.00, 4.65
** 437135.728, 3766689.469, 260.68, 5.00, 4.65
** 437135.728, 3766678.847, 260.65, 5.00, 4.65
** 436961.915, 3766679.169, 260.84, 5.00, 4.65

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** 436961.593, 3766665.650, 260.65, 5.00, 4.65
 ** 437135.085, 3766666.294, 260.46, 5.00, 4.65
 ** 437135.085, 3766652.131, 260.42, 5.00, 4.65
 ** 436962.236, 3766651.809, 260.56, 5.00, 4.65
 ** 436962.236, 3766636.681, 260.15, 5.00, 4.65
 ** 437136.050, 3766638.612, 260.05, 5.00, 4.65
 ** 437136.694, 3766625.093, 260.02, 5.00, 4.65
 ** 436962.236, 3766623.162, 260.06, 5.00, 4.65
 ** 436962.880, 3766609.321, 259.82, 5.00, 4.65
 ** 437135.085, 3766611.896, 259.46, 5.00, 4.65

** -----

LOCATION L0000001	VOLUME	436967.236	3766689.782	260.94
LOCATION L0000002	VOLUME	436977.236	3766689.763	261.00
LOCATION L0000003	VOLUME	436987.236	3766689.744	261.05
LOCATION L0000004	VOLUME	436997.236	3766689.726	261.25
LOCATION L0000005	VOLUME	437007.236	3766689.707	261.47
LOCATION L0000006	VOLUME	437017.236	3766689.689	261.71
LOCATION L0000007	VOLUME	437027.236	3766689.670	262.02
LOCATION L0000008	VOLUME	437037.236	3766689.652	262.32
LOCATION L0000009	VOLUME	437047.236	3766689.633	262.26
LOCATION L0000010	VOLUME	437057.236	3766689.615	262.10
LOCATION L0000011	VOLUME	437067.236	3766689.596	261.91
LOCATION L0000012	VOLUME	437077.236	3766689.577	261.64
LOCATION L0000013	VOLUME	437087.236	3766689.559	261.38
LOCATION L0000014	VOLUME	437097.236	3766689.540	261.17
LOCATION L0000015	VOLUME	437107.236	3766689.522	261.00
LOCATION L0000016	VOLUME	437117.236	3766689.503	260.84
LOCATION L0000017	VOLUME	437127.236	3766689.485	260.76
LOCATION L0000018	VOLUME	437135.728	3766687.961	260.69
LOCATION L0000019	VOLUME	437134.843	3766678.849	260.63
LOCATION L0000020	VOLUME	437124.843	3766678.867	260.71
LOCATION L0000021	VOLUME	437114.843	3766678.886	260.79
LOCATION L0000022	VOLUME	437104.843	3766678.904	260.87
LOCATION L0000023	VOLUME	437094.843	3766678.923	260.96
LOCATION L0000024	VOLUME	437084.843	3766678.941	261.08
LOCATION L0000025	VOLUME	437074.843	3766678.960	261.24
LOCATION L0000026	VOLUME	437064.843	3766678.978	261.40
LOCATION L0000027	VOLUME	437054.843	3766678.997	261.52
LOCATION L0000028	VOLUME	437044.843	3766679.015	261.64
LOCATION L0000029	VOLUME	437034.843	3766679.034	261.64
LOCATION L0000030	VOLUME	437024.843	3766679.052	261.47
LOCATION L0000031	VOLUME	437014.843	3766679.071	261.31
LOCATION L0000032	VOLUME	437004.843	3766679.089	261.19
LOCATION L0000033	VOLUME	436994.843	3766679.108	261.07
LOCATION L0000034	VOLUME	436984.843	3766679.126	260.97
LOCATION L0000035	VOLUME	436974.843	3766679.145	260.90
LOCATION L0000036	VOLUME	436964.843	3766679.163	260.83
LOCATION L0000037	VOLUME	436961.746	3766672.099	260.74
LOCATION L0000038	VOLUME	436965.141	3766665.663	260.70
LOCATION L0000039	VOLUME	436975.141	3766665.700	260.80

LOCATION	L0000040	VOLUME	436985.141	3766665.737	260.89
LOCATION	L0000041	VOLUME	436995.141	3766665.774	260.90
LOCATION	L0000042	VOLUME	437005.141	3766665.812	260.90
LOCATION	L0000043	VOLUME	437015.141	3766665.849	260.89
LOCATION	L0000044	VOLUME	437025.141	3766665.886	260.88
LOCATION	L0000045	VOLUME	437035.141	3766665.923	260.88
LOCATION	L0000046	VOLUME	437045.141	3766665.960	260.84
LOCATION	L0000047	VOLUME	437055.141	3766665.997	260.77
LOCATION	L0000048	VOLUME	437065.141	3766666.034	260.71
LOCATION	L0000049	VOLUME	437075.141	3766666.071	260.68
LOCATION	L0000050	VOLUME	437085.141	3766666.108	260.65
LOCATION	L0000051	VOLUME	437095.141	3766666.146	260.65
LOCATION	L0000052	VOLUME	437105.140	3766666.183	260.67
LOCATION	L0000053	VOLUME	437115.140	3766666.220	260.69
LOCATION	L0000054	VOLUME	437125.140	3766666.257	260.62
LOCATION	L0000055	VOLUME	437135.085	3766666.238	260.55
LOCATION	L0000056	VOLUME	437135.085	3766656.238	260.45
LOCATION	L0000057	VOLUME	437129.192	3766652.120	260.45
LOCATION	L0000058	VOLUME	437119.192	3766652.102	260.54
LOCATION	L0000059	VOLUME	437109.192	3766652.083	260.53
LOCATION	L0000060	VOLUME	437099.192	3766652.064	260.46
LOCATION	L0000061	VOLUME	437089.192	3766652.046	260.40
LOCATION	L0000062	VOLUME	437079.192	3766652.027	260.38
LOCATION	L0000063	VOLUME	437069.192	3766652.008	260.35
LOCATION	L0000064	VOLUME	437059.192	3766651.990	260.38
LOCATION	L0000065	VOLUME	437049.192	3766651.971	260.45
LOCATION	L0000066	VOLUME	437039.192	3766651.953	260.51
LOCATION	L0000067	VOLUME	437029.192	3766651.934	260.56
LOCATION	L0000068	VOLUME	437019.192	3766651.915	260.60
LOCATION	L0000069	VOLUME	437009.192	3766651.897	260.64
LOCATION	L0000070	VOLUME	436999.192	3766651.878	260.66
LOCATION	L0000071	VOLUME	436989.192	3766651.859	260.69
LOCATION	L0000072	VOLUME	436979.192	3766651.841	260.62
LOCATION	L0000073	VOLUME	436969.192	3766651.822	260.54
LOCATION	L0000074	VOLUME	436962.236	3766648.765	260.43
LOCATION	L0000075	VOLUME	436962.236	3766638.765	260.27
LOCATION	L0000076	VOLUME	436970.152	3766636.769	260.29
LOCATION	L0000077	VOLUME	436980.151	3766636.880	260.36
LOCATION	L0000078	VOLUME	436990.151	3766636.991	260.41
LOCATION	L0000079	VOLUME	437000.150	3766637.102	260.41
LOCATION	L0000080	VOLUME	437010.150	3766637.213	260.41
LOCATION	L0000081	VOLUME	437020.149	3766637.324	260.39
LOCATION	L0000082	VOLUME	437030.148	3766637.436	260.35
LOCATION	L0000083	VOLUME	437040.148	3766637.547	260.31
LOCATION	L0000084	VOLUME	437050.147	3766637.658	260.24
LOCATION	L0000085	VOLUME	437060.147	3766637.769	260.16
LOCATION	L0000086	VOLUME	437070.146	3766637.880	260.15
LOCATION	L0000087	VOLUME	437080.145	3766637.991	260.19
LOCATION	L0000088	VOLUME	437090.145	3766638.102	260.24
LOCATION	L0000089	VOLUME	437100.144	3766638.213	260.31

LOCATION	L0000090	VOLUME	437110.143	3766638.324	260.39
LOCATION	L0000091	VOLUME	437120.143	3766638.435	260.39
LOCATION	L0000092	VOLUME	437130.142	3766638.547	260.29
LOCATION	L0000093	VOLUME	437136.245	3766634.525	260.18
LOCATION	L0000094	VOLUME	437136.137	3766625.087	259.98
LOCATION	L0000095	VOLUME	437126.137	3766624.977	260.08
LOCATION	L0000096	VOLUME	437116.138	3766624.866	260.18
LOCATION	L0000097	VOLUME	437106.139	3766624.755	260.13
LOCATION	L0000098	VOLUME	437096.139	3766624.644	260.06
LOCATION	L0000099	VOLUME	437086.140	3766624.534	260.00
LOCATION	L0000100	VOLUME	437076.140	3766624.423	259.94
LOCATION	L0000101	VOLUME	437066.141	3766624.312	259.88
LOCATION	L0000102	VOLUME	437056.142	3766624.202	259.95
LOCATION	L0000103	VOLUME	437046.142	3766624.091	260.05
LOCATION	L0000104	VOLUME	437036.143	3766623.980	260.12
LOCATION	L0000105	VOLUME	437026.143	3766623.870	260.14
LOCATION	L0000106	VOLUME	437016.144	3766623.759	260.16
LOCATION	L0000107	VOLUME	437006.145	3766623.648	260.17
LOCATION	L0000108	VOLUME	436996.145	3766623.537	260.16
LOCATION	L0000109	VOLUME	436986.146	3766623.427	260.15
LOCATION	L0000110	VOLUME	436976.147	3766623.316	260.11
LOCATION	L0000111	VOLUME	436966.147	3766623.205	260.08
LOCATION	L0000112	VOLUME	436962.519	3766617.080	259.99
LOCATION	L0000113	VOLUME	436965.113	3766609.355	259.90
LOCATION	L0000114	VOLUME	436975.112	3766609.504	259.90
LOCATION	L0000115	VOLUME	436985.111	3766609.654	259.89
LOCATION	L0000116	VOLUME	436995.110	3766609.803	259.89
LOCATION	L0000117	VOLUME	437005.109	3766609.953	259.90
LOCATION	L0000118	VOLUME	437015.108	3766610.102	259.90
LOCATION	L0000119	VOLUME	437025.107	3766610.252	259.89
LOCATION	L0000120	VOLUME	437035.105	3766610.401	259.89
LOCATION	L0000121	VOLUME	437045.104	3766610.551	259.81
LOCATION	L0000122	VOLUME	437055.103	3766610.700	259.69
LOCATION	L0000123	VOLUME	437065.102	3766610.850	259.59
LOCATION	L0000124	VOLUME	437075.101	3766610.999	259.66
LOCATION	L0000125	VOLUME	437085.100	3766611.149	259.73
LOCATION	L0000126	VOLUME	437095.099	3766611.298	259.77
LOCATION	L0000127	VOLUME	437105.098	3766611.448	259.79
LOCATION	L0000128	VOLUME	437115.096	3766611.598	259.82
LOCATION	L0000129	VOLUME	437125.095	3766611.747	259.73

** End of LINE VOLUME Source ID = COST

** Source Parameters **

** LINE VOLUME Source ID = COST

SRCPARAM	L0000001	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000002	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000003	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000004	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000005	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000006	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000007	0.007751938	5.00	4.65	4.65

[illegible]

[illegible]

SRCPARAM	L0000108	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000109	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000110	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000111	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000112	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000113	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000114	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000115	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000116	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000117	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000118	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000119	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000120	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000121	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000122	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000123	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000124	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000125	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000126	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000127	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000128	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000129	0.007751938	5.00	4.65	4.65

**

URBANSRC ALL

SRCGROUP	COST	L0000001	L0000002	L0000003	L0000004	L0000005	L0000006
SRCGROUP	COST	L0000007	L0000008	L0000009	L0000010	L0000011	L0000012
SRCGROUP	COST	L0000013	L0000014	L0000015	L0000016	L0000017	L0000018
SRCGROUP	COST	L0000019	L0000020	L0000021	L0000022	L0000023	L0000024
SRCGROUP	COST	L0000025	L0000026	L0000027	L0000028	L0000029	L0000030
SRCGROUP	COST	L0000031	L0000032	L0000033	L0000034	L0000035	L0000036
SRCGROUP	COST	L0000037	L0000038	L0000039	L0000040	L0000041	L0000042
SRCGROUP	COST	L0000043	L0000044	L0000045	L0000046	L0000047	L0000048
SRCGROUP	COST	L0000049	L0000050	L0000051	L0000052	L0000053	L0000054
SRCGROUP	COST	L0000055	L0000056	L0000057	L0000058	L0000059	L0000060
SRCGROUP	COST	L0000061	L0000062	L0000063	L0000064	L0000065	L0000066
SRCGROUP	COST	L0000067	L0000068	L0000069	L0000070	L0000071	L0000072
SRCGROUP	COST	L0000073	L0000074	L0000075	L0000076	L0000077	L0000078
SRCGROUP	COST	L0000079	L0000080	L0000081	L0000082	L0000083	L0000084
SRCGROUP	COST	L0000085	L0000086	L0000087	L0000088	L0000089	L0000090
SRCGROUP	COST	L0000091	L0000092	L0000093	L0000094	L0000095	L0000096
SRCGROUP	COST	L0000097	L0000098	L0000099	L0000100	L0000101	L0000102
SRCGROUP	COST	L0000103	L0000104	L0000105	L0000106	L0000107	L0000108
SRCGROUP	COST	L0000109	L0000110	L0000111	L0000112	L0000113	L0000114
SRCGROUP	COST	L0000115	L0000116	L0000117	L0000118	L0000119	L0000120
SRCGROUP	COST	L0000121	L0000122	L0000123	L0000124	L0000125	L0000126
SRCGROUP	COST	L0000127	L0000128	L0000129			
SRCGROUP	ALL						

SO FINISHED

**

```

** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED BensonConst2.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.sfc
  PROFFILE ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.PFL
  SURFDATA 3179 2017
  UAIRDATA 3190 2017
  PROFBASE 191.07 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST BENSONCONST2.AD\01H1GALL.PLT 31
  PLOTFILE 1 COST 1ST BENSONCONST2.AD\01H1G001.PLT 32
  PLOTFILE PERIOD ALL BENSONCONST2.AD\PE00GALL.PLT 33
  PLOTFILE PERIOD COST BENSONCONST2.AD\PE00G001.PLT 34
  SUMMFILE BensonConst2.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS     m
** ZONE      11
** ZONEINX   0
**

```

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 3/25/2025
** File: C:\Users\dlarocca\Desktop\Lakes Files\BensonConst2\BensonConst2.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\dlarocca\Desktop\Lakes Files\BensonConst2\BensonConst2.isc
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 9663345
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL BensonConst2.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 = COST
** DESCRSRC Construction Sources
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 14
** 436962.236, 3766689.791, 260.94, 5.00, 4.65
** 437135.728, 3766689.469, 260.68, 5.00, 4.65
** 437135.728, 3766678.847, 260.65, 5.00, 4.65

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** 436961.915, 3766679.169, 260.84, 5.00, 4.65
 ** 436961.593, 3766665.650, 260.65, 5.00, 4.65
 ** 437135.085, 3766666.294, 260.46, 5.00, 4.65
 ** 437135.085, 3766652.131, 260.42, 5.00, 4.65
 ** 436962.236, 3766651.809, 260.56, 5.00, 4.65
 ** 436962.236, 3766636.681, 260.15, 5.00, 4.65
 ** 437136.050, 3766638.612, 260.05, 5.00, 4.65
 ** 437136.694, 3766625.093, 260.02, 5.00, 4.65
 ** 436962.236, 3766623.162, 260.06, 5.00, 4.65
 ** 436962.880, 3766609.321, 259.82, 5.00, 4.65
 ** 437135.085, 3766611.896, 259.46, 5.00, 4.65

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LOCATION L0000001	VOLUME	436967.236	3766689.782	260.94
LOCATION L0000002	VOLUME	436977.236	3766689.763	261.00
LOCATION L0000003	VOLUME	436987.236	3766689.744	261.05
LOCATION L0000004	VOLUME	436997.236	3766689.726	261.25
LOCATION L0000005	VOLUME	437007.236	3766689.707	261.47
LOCATION L0000006	VOLUME	437017.236	3766689.689	261.71
LOCATION L0000007	VOLUME	437027.236	3766689.670	262.02
LOCATION L0000008	VOLUME	437037.236	3766689.652	262.32
LOCATION L0000009	VOLUME	437047.236	3766689.633	262.26
LOCATION L0000010	VOLUME	437057.236	3766689.615	262.10
LOCATION L0000011	VOLUME	437067.236	3766689.596	261.91
LOCATION L0000012	VOLUME	437077.236	3766689.577	261.64
LOCATION L0000013	VOLUME	437087.236	3766689.559	261.38
LOCATION L0000014	VOLUME	437097.236	3766689.540	261.17
LOCATION L0000015	VOLUME	437107.236	3766689.522	261.00
LOCATION L0000016	VOLUME	437117.236	3766689.503	260.84
LOCATION L0000017	VOLUME	437127.236	3766689.485	260.76
LOCATION L0000018	VOLUME	437135.728	3766687.961	260.69
LOCATION L0000019	VOLUME	437134.843	3766678.849	260.63
LOCATION L0000020	VOLUME	437124.843	3766678.867	260.71
LOCATION L0000021	VOLUME	437114.843	3766678.886	260.79
LOCATION L0000022	VOLUME	437104.843	3766678.904	260.87
LOCATION L0000023	VOLUME	437094.843	3766678.923	260.96
LOCATION L0000024	VOLUME	437084.843	3766678.941	261.08
LOCATION L0000025	VOLUME	437074.843	3766678.960	261.24
LOCATION L0000026	VOLUME	437064.843	3766678.978	261.40
LOCATION L0000027	VOLUME	437054.843	3766678.997	261.52
LOCATION L0000028	VOLUME	437044.843	3766679.015	261.64
LOCATION L0000029	VOLUME	437034.843	3766679.034	261.64
LOCATION L0000030	VOLUME	437024.843	3766679.052	261.47
LOCATION L0000031	VOLUME	437014.843	3766679.071	261.31
LOCATION L0000032	VOLUME	437004.843	3766679.089	261.19
LOCATION L0000033	VOLUME	436994.843	3766679.108	261.07
LOCATION L0000034	VOLUME	436984.843	3766679.126	260.97
LOCATION L0000035	VOLUME	436974.843	3766679.145	260.90
LOCATION L0000036	VOLUME	436964.843	3766679.163	260.83
LOCATION L0000037	VOLUME	436961.746	3766672.099	260.74
LOCATION L0000038	VOLUME	436965.141	3766665.663	260.70

LOCATION	L0000039	VOLUME	436975.141	3766665.700	260.80
LOCATION	L0000040	VOLUME	436985.141	3766665.737	260.89
LOCATION	L0000041	VOLUME	436995.141	3766665.774	260.90
LOCATION	L0000042	VOLUME	437005.141	3766665.812	260.90
LOCATION	L0000043	VOLUME	437015.141	3766665.849	260.89
LOCATION	L0000044	VOLUME	437025.141	3766665.886	260.88
LOCATION	L0000045	VOLUME	437035.141	3766665.923	260.88
LOCATION	L0000046	VOLUME	437045.141	3766665.960	260.84
LOCATION	L0000047	VOLUME	437055.141	3766665.997	260.77
LOCATION	L0000048	VOLUME	437065.141	3766666.034	260.71
LOCATION	L0000049	VOLUME	437075.141	3766666.071	260.68
LOCATION	L0000050	VOLUME	437085.141	3766666.108	260.65
LOCATION	L0000051	VOLUME	437095.141	3766666.146	260.65
LOCATION	L0000052	VOLUME	437105.140	3766666.183	260.67
LOCATION	L0000053	VOLUME	437115.140	3766666.220	260.69
LOCATION	L0000054	VOLUME	437125.140	3766666.257	260.62
LOCATION	L0000055	VOLUME	437135.085	3766666.238	260.55
LOCATION	L0000056	VOLUME	437135.085	3766656.238	260.45
LOCATION	L0000057	VOLUME	437129.192	3766652.120	260.45
LOCATION	L0000058	VOLUME	437119.192	3766652.102	260.54
LOCATION	L0000059	VOLUME	437109.192	3766652.083	260.53
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LOCATION	L0000062	VOLUME	437079.192	3766652.027	260.38
LOCATION	L0000063	VOLUME	437069.192	3766652.008	260.35
LOCATION	L0000064	VOLUME	437059.192	3766651.990	260.38
LOCATION	L0000065	VOLUME	437049.192	3766651.971	260.45
LOCATION	L0000066	VOLUME	437039.192	3766651.953	260.51
LOCATION	L0000067	VOLUME	437029.192	3766651.934	260.56
LOCATION	L0000068	VOLUME	437019.192	3766651.915	260.60
LOCATION	L0000069	VOLUME	437009.192	3766651.897	260.64
LOCATION	L0000070	VOLUME	436999.192	3766651.878	260.66
LOCATION	L0000071	VOLUME	436989.192	3766651.859	260.69
LOCATION	L0000072	VOLUME	436979.192	3766651.841	260.62
LOCATION	L0000073	VOLUME	436969.192	3766651.822	260.54
LOCATION	L0000074	VOLUME	436962.236	3766648.765	260.43
LOCATION	L0000075	VOLUME	436962.236	3766638.765	260.27
LOCATION	L0000076	VOLUME	436970.152	3766636.769	260.29
LOCATION	L0000077	VOLUME	436980.151	3766636.880	260.36
LOCATION	L0000078	VOLUME	436990.151	3766636.991	260.41
LOCATION	L0000079	VOLUME	437000.150	3766637.102	260.41
LOCATION	L0000080	VOLUME	437010.150	3766637.213	260.41
LOCATION	L0000081	VOLUME	437020.149	3766637.324	260.39
LOCATION	L0000082	VOLUME	437030.148	3766637.436	260.35
LOCATION	L0000083	VOLUME	437040.148	3766637.547	260.31
LOCATION	L0000084	VOLUME	437050.147	3766637.658	260.24
LOCATION	L0000085	VOLUME	437060.147	3766637.769	260.16
LOCATION	L0000086	VOLUME	437070.146	3766637.880	260.15
LOCATION	L0000087	VOLUME	437080.145	3766637.991	260.19
LOCATION	L0000088	VOLUME	437090.145	3766638.102	260.24

LOCATION	L0000089	VOLUME	437100.144	3766638.213	260.31
LOCATION	L0000090	VOLUME	437110.143	3766638.324	260.39
LOCATION	L0000091	VOLUME	437120.143	3766638.435	260.39
LOCATION	L0000092	VOLUME	437130.142	3766638.547	260.29
LOCATION	L0000093	VOLUME	437136.245	3766634.525	260.18
LOCATION	L0000094	VOLUME	437136.137	3766625.087	259.98
LOCATION	L0000095	VOLUME	437126.137	3766624.977	260.08
LOCATION	L0000096	VOLUME	437116.138	3766624.866	260.18
LOCATION	L0000097	VOLUME	437106.139	3766624.755	260.13
LOCATION	L0000098	VOLUME	437096.139	3766624.644	260.06
LOCATION	L0000099	VOLUME	437086.140	3766624.534	260.00
LOCATION	L0000100	VOLUME	437076.140	3766624.423	259.94
LOCATION	L0000101	VOLUME	437066.141	3766624.312	259.88
LOCATION	L0000102	VOLUME	437056.142	3766624.202	259.95
LOCATION	L0000103	VOLUME	437046.142	3766624.091	260.05
LOCATION	L0000104	VOLUME	437036.143	3766623.980	260.12
LOCATION	L0000105	VOLUME	437026.143	3766623.870	260.14
LOCATION	L0000106	VOLUME	437016.144	3766623.759	260.16
LOCATION	L0000107	VOLUME	437006.145	3766623.648	260.17
LOCATION	L0000108	VOLUME	436996.145	3766623.537	260.16
LOCATION	L0000109	VOLUME	436986.146	3766623.427	260.15
LOCATION	L0000110	VOLUME	436976.147	3766623.316	260.11
LOCATION	L0000111	VOLUME	436966.147	3766623.205	260.08
LOCATION	L0000112	VOLUME	436962.519	3766617.080	259.99
LOCATION	L0000113	VOLUME	436965.113	3766609.355	259.90
LOCATION	L0000114	VOLUME	436975.112	3766609.504	259.90
LOCATION	L0000115	VOLUME	436985.111	3766609.654	259.89
LOCATION	L0000116	VOLUME	436995.110	3766609.803	259.89
LOCATION	L0000117	VOLUME	437005.109	3766609.953	259.90
LOCATION	L0000118	VOLUME	437015.108	3766610.102	259.90
LOCATION	L0000119	VOLUME	437025.107	3766610.252	259.89
LOCATION	L0000120	VOLUME	437035.105	3766610.401	259.89
LOCATION	L0000121	VOLUME	437045.104	3766610.551	259.81
LOCATION	L0000122	VOLUME	437055.103	3766610.700	259.69
LOCATION	L0000123	VOLUME	437065.102	3766610.850	259.59
LOCATION	L0000124	VOLUME	437075.101	3766610.999	259.66
LOCATION	L0000125	VOLUME	437085.100	3766611.149	259.73
LOCATION	L0000126	VOLUME	437095.099	3766611.298	259.77
LOCATION	L0000127	VOLUME	437105.098	3766611.448	259.79
LOCATION	L0000128	VOLUME	437115.096	3766611.598	259.82
LOCATION	L0000129	VOLUME	437125.095	3766611.747	259.73

** End of LINE VOLUME Source ID = COST

** Source Parameters **

** LINE VOLUME Source ID = COST

SRCPARAM	L0000001	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000002	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000003	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000004	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000005	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000006	0.007751938	5.00	4.65	4.65

[illegible]

[illegible]

SRCPARAM	L0000107	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000108	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000109	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000110	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000111	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000112	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000113	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000114	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000115	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000116	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000117	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000118	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000119	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000120	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000121	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000122	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000123	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000124	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000125	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000126	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000127	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000128	0.007751938	5.00	4.65	4.65
SRCPARAM	L0000129	0.007751938	5.00	4.65	4.65

**

URBANSRC ALL

SRCGROUP	COST	L0000001	L0000002	L0000003	L0000004	L0000005	L0000006
SRCGROUP	COST	L0000007	L0000008	L0000009	L0000010	L0000011	L0000012
SRCGROUP	COST	L0000013	L0000014	L0000015	L0000016	L0000017	L0000018
SRCGROUP	COST	L0000019	L0000020	L0000021	L0000022	L0000023	L0000024
SRCGROUP	COST	L0000025	L0000026	L0000027	L0000028	L0000029	L0000030
SRCGROUP	COST	L0000031	L0000032	L0000033	L0000034	L0000035	L0000036
SRCGROUP	COST	L0000037	L0000038	L0000039	L0000040	L0000041	L0000042
SRCGROUP	COST	L0000043	L0000044	L0000045	L0000046	L0000047	L0000048
SRCGROUP	COST	L0000049	L0000050	L0000051	L0000052	L0000053	L0000054
SRCGROUP	COST	L0000055	L0000056	L0000057	L0000058	L0000059	L0000060
SRCGROUP	COST	L0000061	L0000062	L0000063	L0000064	L0000065	L0000066
SRCGROUP	COST	L0000067	L0000068	L0000069	L0000070	L0000071	L0000072
SRCGROUP	COST	L0000073	L0000074	L0000075	L0000076	L0000077	L0000078
SRCGROUP	COST	L0000079	L0000080	L0000081	L0000082	L0000083	L0000084
SRCGROUP	COST	L0000085	L0000086	L0000087	L0000088	L0000089	L0000090
SRCGROUP	COST	L0000091	L0000092	L0000093	L0000094	L0000095	L0000096
SRCGROUP	COST	L0000097	L0000098	L0000099	L0000100	L0000101	L0000102
SRCGROUP	COST	L0000103	L0000104	L0000105	L0000106	L0000107	L0000108
SRCGROUP	COST	L0000109	L0000110	L0000111	L0000112	L0000113	L0000114
SRCGROUP	COST	L0000115	L0000116	L0000117	L0000118	L0000119	L0000120
SRCGROUP	COST	L0000121	L0000122	L0000123	L0000124	L0000125	L0000126
SRCGROUP	COST	L0000127	L0000128	L0000129			
SRCGROUP	ALL						

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED BensonConst2.rou

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.sfc

PROFFILE ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.PFL

SURFDATA 3179 2017

UAIRDATA 3190 2017

PROFBASE 191.07 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

** Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST BENSONCONST2.AD\01H1GALL.PLT 31

PLOTFILE 1 COST 1ST BENSONCONST2.AD\01H1G001.PLT 32

PLOTFILE PERIOD ALL BENSONCONST2.AD\PE00GALL.PLT 33

PLOTFILE PERIOD COST BENSONCONST2.AD\PE00G001.PLT 34

SUMMFILE BensonConst2.sum

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)

A Total of 2 Warning Message(s)

A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 370 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 370 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 129 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9663345.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * 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: PM₁₀

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 129 Source(s); 2 Source Group(s); and 1224 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 129 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 a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**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) = 191.07 ; 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: BensonConst2.err

**File for Summary of Results: BensonConst2.sum

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Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SOURCE	EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)
ID	CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	BY						
L0000001	0	0.77519E-02	436967.2	3766689.8	260.9	5.00	4.65
4.65	YES	NO					
L0000002	0	0.77519E-02	436977.2	3766689.8	261.0	5.00	4.65
4.65	YES	NO					
L0000003	0	0.77519E-02	436987.2	3766689.7	261.1	5.00	4.65
4.65	YES	NO					
L0000004	0	0.77519E-02	436997.2	3766689.7	261.2	5.00	4.65
4.65	YES	NO					
L0000005	0	0.77519E-02	437007.2	3766689.7	261.5	5.00	4.65
4.65	YES	NO					
L0000006	0	0.77519E-02	437017.2	3766689.7	261.7	5.00	4.65
4.65	YES	NO					
L0000007	0	0.77519E-02	437027.2	3766689.7	262.0	5.00	4.65
4.65	YES	NO					
L0000008	0	0.77519E-02	437037.2	3766689.7	262.3	5.00	4.65
4.65	YES	NO					
L0000009	0	0.77519E-02	437047.2	3766689.6	262.3	5.00	4.65
4.65	YES	NO					
L0000010	0	0.77519E-02	437057.2	3766689.6	262.1	5.00	4.65
4.65	YES	NO					
L0000011	0	0.77519E-02	437067.2	3766689.6	261.9	5.00	4.65
4.65	YES	NO					
L0000012	0	0.77519E-02	437077.2	3766689.6	261.6	5.00	4.65
4.65	YES	NO					
L0000013	0	0.77519E-02	437087.2	3766689.6	261.4	5.00	4.65
4.65	YES	NO					
L0000014	0	0.77519E-02	437097.2	3766689.5	261.2	5.00	4.65
4.65	YES	NO					
L0000015	0	0.77519E-02	437107.2	3766689.5	261.0	5.00	4.65
4.65	YES	NO					
L0000016	0	0.77519E-02	437117.2	3766689.5	260.8	5.00	4.65

4.65	YES		NO					
L0000017		0	0.77519E-02	437127.2	3766689.5	260.8	5.00	4.65
4.65	YES		NO					
L0000018		0	0.77519E-02	437135.7	3766688.0	260.7	5.00	4.65
4.65	YES		NO					
L0000019		0	0.77519E-02	437134.8	3766678.8	260.6	5.00	4.65
4.65	YES		NO					
L0000020		0	0.77519E-02	437124.8	3766678.9	260.7	5.00	4.65
4.65	YES		NO					
L0000021		0	0.77519E-02	437114.8	3766678.9	260.8	5.00	4.65
4.65	YES		NO					
L0000022		0	0.77519E-02	437104.8	3766678.9	260.9	5.00	4.65
4.65	YES		NO					
L0000023		0	0.77519E-02	437094.8	3766678.9	261.0	5.00	4.65
4.65	YES		NO					
L0000024		0	0.77519E-02	437084.8	3766678.9	261.1	5.00	4.65
4.65	YES		NO					
L0000025		0	0.77519E-02	437074.8	3766679.0	261.2	5.00	4.65
4.65	YES		NO					
L0000026		0	0.77519E-02	437064.8	3766679.0	261.4	5.00	4.65
4.65	YES		NO					
L0000027		0	0.77519E-02	437054.8	3766679.0	261.5	5.00	4.65
4.65	YES		NO					
L0000028		0	0.77519E-02	437044.8	3766679.0	261.6	5.00	4.65
4.65	YES		NO					
L0000029		0	0.77519E-02	437034.8	3766679.0	261.6	5.00	4.65
4.65	YES		NO					
L0000030		0	0.77519E-02	437024.8	3766679.1	261.5	5.00	4.65
4.65	YES		NO					
L0000031		0	0.77519E-02	437014.8	3766679.1	261.3	5.00	4.65
4.65	YES		NO					
L0000032		0	0.77519E-02	437004.8	3766679.1	261.2	5.00	4.65
4.65	YES		NO					
L0000033		0	0.77519E-02	436994.8	3766679.1	261.1	5.00	4.65
4.65	YES		NO					
L0000034		0	0.77519E-02	436984.8	3766679.1	261.0	5.00	4.65
4.65	YES		NO					
L0000035		0	0.77519E-02	436974.8	3766679.1	260.9	5.00	4.65
4.65	YES		NO					
L0000036		0	0.77519E-02	436964.8	3766679.2	260.8	5.00	4.65
4.65	YES		NO					
L0000037		0	0.77519E-02	436961.7	3766672.1	260.7	5.00	4.65
4.65	YES		NO					
L0000038		0	0.77519E-02	436965.1	3766665.7	260.7	5.00	4.65
4.65	YES		NO					
L0000039		0	0.77519E-02	436975.1	3766665.7	260.8	5.00	4.65
4.65	YES		NO					
L0000040		0	0.77519E-02	436985.1	3766665.7	260.9	5.00	4.65
4.65	YES		NO					

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY			(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000041		0	0.77519E-02	436995.1	3766665.8	260.9	5.00	4.65
4.65	YES		NO					
L0000042		0	0.77519E-02	437005.1	3766665.8	260.9	5.00	4.65
4.65	YES		NO					
L0000043		0	0.77519E-02	437015.1	3766665.8	260.9	5.00	4.65
4.65	YES		NO					
L0000044		0	0.77519E-02	437025.1	3766665.9	260.9	5.00	4.65
4.65	YES		NO					
L0000045		0	0.77519E-02	437035.1	3766665.9	260.9	5.00	4.65
4.65	YES		NO					
L0000046		0	0.77519E-02	437045.1	3766666.0	260.8	5.00	4.65
4.65	YES		NO					
L0000047		0	0.77519E-02	437055.1	3766666.0	260.8	5.00	4.65
4.65	YES		NO					
L0000048		0	0.77519E-02	437065.1	3766666.0	260.7	5.00	4.65
4.65	YES		NO					
L0000049		0	0.77519E-02	437075.1	3766666.1	260.7	5.00	4.65
4.65	YES		NO					
L0000050		0	0.77519E-02	437085.1	3766666.1	260.7	5.00	4.65
4.65	YES		NO					
L0000051		0	0.77519E-02	437095.1	3766666.1	260.7	5.00	4.65
4.65	YES		NO					
L0000052		0	0.77519E-02	437105.1	3766666.2	260.7	5.00	4.65
4.65	YES		NO					
L0000053		0	0.77519E-02	437115.1	3766666.2	260.7	5.00	4.65
4.65	YES		NO					
L0000054		0	0.77519E-02	437125.1	3766666.3	260.6	5.00	4.65
4.65	YES		NO					
L0000055		0	0.77519E-02	437135.1	3766666.2	260.6	5.00	4.65
4.65	YES		NO					
L0000056		0	0.77519E-02	437135.1	3766656.2	260.4	5.00	4.65

4.65	YES		NO				
L0000057		0	0.77519E-02	437129.2	3766652.1	260.4	5.00 4.65
4.65	YES		NO				
L0000058		0	0.77519E-02	437119.2	3766652.1	260.5	5.00 4.65
4.65	YES		NO				
L0000059		0	0.77519E-02	437109.2	3766652.1	260.5	5.00 4.65
4.65	YES		NO				
L0000060		0	0.77519E-02	437099.2	3766652.1	260.5	5.00 4.65
4.65	YES		NO				
L0000061		0	0.77519E-02	437089.2	3766652.0	260.4	5.00 4.65
4.65	YES		NO				
L0000062		0	0.77519E-02	437079.2	3766652.0	260.4	5.00 4.65
4.65	YES		NO				
L0000063		0	0.77519E-02	437069.2	3766652.0	260.4	5.00 4.65
4.65	YES		NO				
L0000064		0	0.77519E-02	437059.2	3766652.0	260.4	5.00 4.65
4.65	YES		NO				
L0000065		0	0.77519E-02	437049.2	3766652.0	260.4	5.00 4.65
4.65	YES		NO				
L0000066		0	0.77519E-02	437039.2	3766652.0	260.5	5.00 4.65
4.65	YES		NO				
L0000067		0	0.77519E-02	437029.2	3766651.9	260.6	5.00 4.65
4.65	YES		NO				
L0000068		0	0.77519E-02	437019.2	3766651.9	260.6	5.00 4.65
4.65	YES		NO				
L0000069		0	0.77519E-02	437009.2	3766651.9	260.6	5.00 4.65
4.65	YES		NO				
L0000070		0	0.77519E-02	436999.2	3766651.9	260.7	5.00 4.65
4.65	YES		NO				
L0000071		0	0.77519E-02	436989.2	3766651.9	260.7	5.00 4.65
4.65	YES		NO				
L0000072		0	0.77519E-02	436979.2	3766651.8	260.6	5.00 4.65
4.65	YES		NO				
L0000073		0	0.77519E-02	436969.2	3766651.8	260.5	5.00 4.65
4.65	YES		NO				
L0000074		0	0.77519E-02	436962.2	3766648.8	260.4	5.00 4.65
4.65	YES		NO				
L0000075		0	0.77519E-02	436962.2	3766638.8	260.3	5.00 4.65
4.65	YES		NO				
L0000076		0	0.77519E-02	436970.2	3766636.8	260.3	5.00 4.65
4.65	YES		NO				
L0000077		0	0.77519E-02	436980.2	3766636.9	260.4	5.00 4.65
4.65	YES		NO				
L0000078		0	0.77519E-02	436990.2	3766637.0	260.4	5.00 4.65
4.65	YES		NO				
L0000079		0	0.77519E-02	437000.1	3766637.1	260.4	5.00 4.65
4.65	YES		NO				
L0000080		0	0.77519E-02	437010.1	3766637.2	260.4	5.00 4.65
4.65	YES		NO				

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY			(METERS)	(METERS)	(METERS)
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000081	0	0.77519E-02	437020.1	3766637.3	260.4	5.00	4.65
4.65 YES		NO					
L0000082	0	0.77519E-02	437030.1	3766637.4	260.4	5.00	4.65
4.65 YES		NO					
L0000083	0	0.77519E-02	437040.1	3766637.5	260.3	5.00	4.65
4.65 YES		NO					
L0000084	0	0.77519E-02	437050.1	3766637.7	260.2	5.00	4.65
4.65 YES		NO					
L0000085	0	0.77519E-02	437060.1	3766637.8	260.2	5.00	4.65
4.65 YES		NO					
L0000086	0	0.77519E-02	437070.1	3766637.9	260.2	5.00	4.65
4.65 YES		NO					
L0000087	0	0.77519E-02	437080.1	3766638.0	260.2	5.00	4.65
4.65 YES		NO					
L0000088	0	0.77519E-02	437090.1	3766638.1	260.2	5.00	4.65
4.65 YES		NO					
L0000089	0	0.77519E-02	437100.1	3766638.2	260.3	5.00	4.65
4.65 YES		NO					
L0000090	0	0.77519E-02	437110.1	3766638.3	260.4	5.00	4.65
4.65 YES		NO					
L0000091	0	0.77519E-02	437120.1	3766638.4	260.4	5.00	4.65
4.65 YES		NO					
L0000092	0	0.77519E-02	437130.1	3766638.5	260.3	5.00	4.65
4.65 YES		NO					
L0000093	0	0.77519E-02	437136.2	3766634.5	260.2	5.00	4.65
4.65 YES		NO					
L0000094	0	0.77519E-02	437136.1	3766625.1	260.0	5.00	4.65
4.65 YES		NO					
L0000095	0	0.77519E-02	437126.1	3766625.0	260.1	5.00	4.65
4.65 YES		NO					
L0000096	0	0.77519E-02	437116.1	3766624.9	260.2	5.00	4.65

4.65	YES		NO					
L0000097		0	0.77519E-02	437106.1	3766624.8	260.1	5.00	4.65
4.65	YES		NO					
L0000098		0	0.77519E-02	437096.1	3766624.6	260.1	5.00	4.65
4.65	YES		NO					
L0000099		0	0.77519E-02	437086.1	3766624.5	260.0	5.00	4.65
4.65	YES		NO					
L0000100		0	0.77519E-02	437076.1	3766624.4	259.9	5.00	4.65
4.65	YES		NO					
L0000101		0	0.77519E-02	437066.1	3766624.3	259.9	5.00	4.65
4.65	YES		NO					
L0000102		0	0.77519E-02	437056.1	3766624.2	259.9	5.00	4.65
4.65	YES		NO					
L0000103		0	0.77519E-02	437046.1	3766624.1	260.1	5.00	4.65
4.65	YES		NO					
L0000104		0	0.77519E-02	437036.1	3766624.0	260.1	5.00	4.65
4.65	YES		NO					
L0000105		0	0.77519E-02	437026.1	3766623.9	260.1	5.00	4.65
4.65	YES		NO					
L0000106		0	0.77519E-02	437016.1	3766623.8	260.2	5.00	4.65
4.65	YES		NO					
L0000107		0	0.77519E-02	437006.1	3766623.6	260.2	5.00	4.65
4.65	YES		NO					
L0000108		0	0.77519E-02	436996.1	3766623.5	260.2	5.00	4.65
4.65	YES		NO					
L0000109		0	0.77519E-02	436986.1	3766623.4	260.2	5.00	4.65
4.65	YES		NO					
L0000110		0	0.77519E-02	436976.1	3766623.3	260.1	5.00	4.65
4.65	YES		NO					
L0000111		0	0.77519E-02	436966.1	3766623.2	260.1	5.00	4.65
4.65	YES		NO					
L0000112		0	0.77519E-02	436962.5	3766617.1	260.0	5.00	4.65
4.65	YES		NO					
L0000113		0	0.77519E-02	436965.1	3766609.4	259.9	5.00	4.65
4.65	YES		NO					
L0000114		0	0.77519E-02	436975.1	3766609.5	259.9	5.00	4.65
4.65	YES		NO					
L0000115		0	0.77519E-02	436985.1	3766609.7	259.9	5.00	4.65
4.65	YES		NO					
L0000116		0	0.77519E-02	436995.1	3766609.8	259.9	5.00	4.65
4.65	YES		NO					
L0000117		0	0.77519E-02	437005.1	3766610.0	259.9	5.00	4.65
4.65	YES		NO					
L0000118		0	0.77519E-02	437015.1	3766610.1	259.9	5.00	4.65
4.65	YES		NO					
L0000119		0	0.77519E-02	437025.1	3766610.3	259.9	5.00	4.65
4.65	YES		NO					
L0000120		0	0.77519E-02	437035.1	3766610.4	259.9	5.00	4.65
4.65	YES		NO					

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes

Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE	AIRCRAFT		ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY					
ID		CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						

L0000121	0	0.77519E-02	437045.1	3766610.6	259.8	5.00	4.65
4.65 YES		NO					
L0000122	0	0.77519E-02	437055.1	3766610.7	259.7	5.00	4.65
4.65 YES		NO					
L0000123	0	0.77519E-02	437065.1	3766610.8	259.6	5.00	4.65
4.65 YES		NO					
L0000124	0	0.77519E-02	437075.1	3766611.0	259.7	5.00	4.65
4.65 YES		NO					
L0000125	0	0.77519E-02	437085.1	3766611.1	259.7	5.00	4.65
4.65 YES		NO					
L0000126	0	0.77519E-02	437095.1	3766611.3	259.8	5.00	4.65
4.65 YES		NO					
L0000127	0	0.77519E-02	437105.1	3766611.4	259.8	5.00	4.65
4.65 YES		NO					
L0000128	0	0.77519E-02	437115.1	3766611.6	259.8	5.00	4.65
4.65 YES		NO					
L0000129	0	0.77519E-02	437125.1	3766611.7	259.7	5.00	4.65
4.65 YES		NO					

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Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----

COST L0000006	L0000001 , L0000007	, L0000002 , L0000008	, L0000003 ,	, L0000004	, L0000005	,
L0000014	L0000009 , L0000015	, L0000010 , L0000016	, L0000011 ,	, L0000012	, L0000013	,
L0000022	L0000017 , L0000023	, L0000018 , L0000024	, L0000019 ,	, L0000020	, L0000021	,
L0000030	L0000025 , L0000031	, L0000026 , L0000032	, L0000027 ,	, L0000028	, L0000029	,
L0000038	L0000033 , L0000039	, L0000034 , L0000040	, L0000035 ,	, L0000036	, L0000037	,
L0000046	L0000041 , L0000047	, L0000042 , L0000048	, L0000043 ,	, L0000044	, L0000045	,
L0000054	L0000049 , L0000055	, L0000050 , L0000056	, L0000051 ,	, L0000052	, L0000053	,
L0000062	L0000057 , L0000063	, L0000058 , L0000064	, L0000059 ,	, L0000060	, L0000061	,
L0000070	L0000065 , L0000071	, L0000066 , L0000072	, L0000067 ,	, L0000068	, L0000069	,
L0000078	L0000073 , L0000079	, L0000074 , L0000080	, L0000075 ,	, L0000076	, L0000077	,
L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,


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        L0000129      ,

ALL      L0000001      , L0000002      , L0000003      , L0000004      , L0000005      ,
L0000006      , L0000007      , L0000008      ,

        L0000009      , L0000010      , L0000011      , L0000012      , L0000013      ,
L0000014      , L0000015      , L0000016      ,

        L0000017      , L0000018      , L0000019      , L0000020      , L0000021      ,
L0000022      , L0000023      , L0000024      ,
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
L0000030	L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000031 , L0000032 ,
L0000038	L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000039 , L0000040 ,
L0000046	L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000047 , L0000048 ,
L0000054	L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000055 , L0000056 ,
L0000062	L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000063 , L0000064 ,
L0000070	L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000071 , L0000072 ,
L0000078	L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000079 , L0000080 ,
L0000086	L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000087 , L0000088 ,
	L0000089 , L0000090 , L0000091 , L0000092 , L0000093 ,

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L0000094      , L0000095      , L0000096      ,
               L0000097      , L0000098      , L0000099      , L0000100      , L0000101      ,
L0000102      , L0000103      , L0000104      ,
               L0000105      , L0000106      , L0000107      , L0000108      , L0000109      ,
L0000110      , L0000111      , L0000112      ,
               L0000113      , L0000114      , L0000115      , L0000116      , L0000117      ,
L0000118      , L0000119      , L0000120      ,
               L0000121      , L0000122      , L0000123      , L0000124      , L0000125      ,
L0000126      , L0000127      , L0000128      ,
               L0000129      ,

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^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000005 L0000008	9663345. , L0000006 ,	L0000001 , L0000002 , L0000003 , L0000004 , , L0000007 , ,
L0000014	L0000009 , L0000015	, L0000010 , L0000011 , L0000012 , L0000013 , , L0000016 ,
L0000022	L0000017 , L0000023	, L0000018 , L0000019 , L0000020 , L0000021 , , L0000024 ,
L0000030	L0000025 , L0000031	, L0000026 , L0000027 , L0000028 , L0000029 , , L0000032 ,
L0000038	L0000033 , L0000039	, L0000034 , L0000035 , L0000036 , L0000037 , , L0000040 ,
L0000046	L0000041 , L0000047	, L0000042 , L0000043 , L0000044 , L0000045 , , L0000048 ,

L0000054	L0000049 , L0000055	, L0000050 , L0000056	, L0000051 ,	, L0000052	, L0000053	,
L0000062	L0000057 , L0000063	, L0000058 , L0000064	, L0000059 ,	, L0000060	, L0000061	,
L0000070	L0000065 , L0000071	, L0000066 , L0000072	, L0000067 ,	, L0000068	, L0000069	,
L0000078	L0000073 , L0000079	, L0000074 , L0000080	, L0000075 ,	, L0000076	, L0000077	,
L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,

L0000129 ,

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
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 *** AERMET - VERSION 22112 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(436849.5, 3766465.0,	256.0,	3044.5,	0.0);	(436849.5,
3766485.0,	256.3,	3044.5,	0.0);	
(436849.5, 3766505.0,	256.4,	3044.5,	0.0);	(436849.5,
3766525.0,	256.6,	3044.5,	0.0);	
(436849.5, 3766545.0,	256.8,	3067.0,	0.0);	(436849.5,
3766565.0,	257.1,	3067.0,	0.0);	
(436849.5, 3766585.0,	257.4,	3067.0,	0.0);	(436849.5,

3766605.0,	257.8,	3067.0,	0.0);		
(436849.5,	3766625.0,	258.2,	3067.0,	0.0);	(436849.5,
3766645.0,	258.5,	3067.0,	0.0);		
(436849.5,	3766665.0,	258.9,	3067.0,	0.0);	(436849.5,
3766685.0,	259.5,	3067.0,	0.0);		
(436849.5,	3766705.0,	260.0,	3067.0,	0.0);	(436849.5,
3766725.0,	260.4,	3067.0,	0.0);		
(436849.5,	3766745.0,	260.5,	3067.0,	0.0);	(436849.5,
3766765.0,	260.7,	3067.0,	0.0);		
(436849.5,	3766785.0,	261.0,	3067.0,	0.0);	(436849.5,
3766805.0,	261.3,	3067.0,	0.0);		
(436849.5,	3766825.0,	261.6,	3067.0,	0.0);	(436849.5,
3766845.0,	261.8,	3067.0,	0.0);		
(436849.5,	3766865.0,	262.2,	3067.0,	0.0);	(436869.5,
3766465.0,	256.4,	3044.5,	0.0);		
(436869.5,	3766485.0,	256.8,	3044.5,	0.0);	(436869.5,
3766505.0,	256.9,	3044.5,	0.0);		
(436869.5,	3766525.0,	257.0,	3044.5,	0.0);	(436869.5,
3766545.0,	257.1,	3067.0,	0.0);		
(436869.5,	3766565.0,	257.4,	3067.0,	0.0);	(436869.5,
3766585.0,	257.7,	3067.0,	0.0);		
(436869.5,	3766725.0,	260.5,	3067.0,	0.0);	(436869.5,
3766745.0,	260.6,	3067.0,	0.0);		
(436869.5,	3766765.0,	260.8,	3067.0,	0.0);	(436869.5,
3766785.0,	261.0,	3067.0,	0.0);		
(436869.5,	3766805.0,	261.3,	3067.0,	0.0);	(436869.5,
3766825.0,	261.5,	3067.0,	0.0);		
(436869.5,	3766845.0,	261.8,	3067.0,	0.0);	(436869.5,
3766865.0,	262.2,	3067.0,	0.0);		
(436889.5,	3766465.0,	257.3,	3044.5,	0.0);	(436889.5,
3766485.0,	257.7,	3044.5,	0.0);		
(436889.5,	3766545.0,	257.7,	3063.7,	0.0);	(436889.5,
3766565.0,	257.8,	3067.0,	0.0);		
(436889.5,	3766585.0,	258.1,	3067.0,	0.0);	(436889.5,
3766725.0,	260.6,	3067.0,	0.0);		
(436889.5,	3766745.0,	260.7,	3067.0,	0.0);	(436889.5,
3766765.0,	260.8,	3067.0,	0.0);		
(436889.5,	3766785.0,	261.1,	3067.0,	0.0);	(436889.5,
3766805.0,	261.3,	3067.0,	0.0);		
(436889.5,	3766825.0,	261.5,	3067.0,	0.0);	(436889.5,
3766845.0,	261.8,	3067.0,	0.0);		
(436889.5,	3766865.0,	262.2,	3067.0,	0.0);	(436909.5,
3766465.0,	258.4,	3044.5,	0.0);		
(436909.5,	3766485.0,	258.7,	3044.5,	0.0);	(436909.5,
3766725.0,	260.7,	3067.0,	0.0);		
(436909.5,	3766745.0,	260.8,	3067.0,	0.0);	(436909.5,
3766765.0,	261.0,	3067.0,	0.0);		
(436909.5,	3766785.0,	261.3,	3067.0,	0.0);	(436909.5,
3766805.0,	261.5,	3067.0,	0.0);		
(436909.5,	3766825.0,	261.7,	3067.0,	0.0);	(436909.5,

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3766845.0,    262.0,    3067.0,    0.0);
    ( 436909.5, 3766865.0,    262.4,    3067.0,    0.0);    ( 436929.5,
3766465.0,    258.7,    3044.5,    0.0);
    ( 436929.5, 3766485.0,    258.9,    3044.5,    0.0);    ( 436929.5,
3766725.0,    260.9,    3067.0,    0.0);
    ( 436929.5, 3766745.0,    260.9,    3067.0,    0.0);    ( 436929.5,
3766765.0,    261.1,    3067.0,    0.0);
    ( 436929.5, 3766785.0,    261.5,    3067.0,    0.0);    ( 436929.5,
3766805.0,    261.8,    3067.0,    0.0);
    ( 436929.5, 3766825.0,    262.0,    3067.0,    0.0);    ( 436929.5,
3766845.0,    262.4,    3067.0,    0.0);
    ( 436929.5, 3766865.0,    262.7,    3067.0,    0.0);    ( 436949.5,
3766465.0,    258.7,    3044.5,    0.0);
    ( 436949.5, 3766485.0,    258.9,    3044.5,    0.0);    ( 436949.5,
3766725.0,    261.1,    3067.0,    0.0);
    ( 436949.5, 3766745.0,    261.2,    3067.0,    0.0);    ( 436949.5,
3766765.0,    261.4,    3067.0,    0.0);
    ( 436949.5, 3766785.0,    261.8,    3067.0,    0.0);    ( 436949.5,
3766805.0,    262.0,    3067.0,    0.0);
    ( 436949.5, 3766825.0,    262.3,    3067.0,    0.0);    ( 436949.5,
3766845.0,    262.6,    3067.0,    0.0);
    ( 436949.5, 3766865.0,    262.9,    3067.0,    0.0);    ( 436969.5,
3766725.0,    261.2,    3067.0,    0.0);
    ( 436969.5, 3766745.0,    261.4,    3067.0,    0.0);    ( 436969.5,
3766765.0,    261.7,    3067.0,    0.0);
    ( 436969.5, 3766785.0,    262.2,    3067.0,    0.0);    ( 436969.5,
3766805.0,    262.3,    3067.0,    0.0);
    ( 436969.5, 3766825.0,    262.5,    3067.0,    0.0);    ( 436969.5,
3766845.0,    262.8,    3067.0,    0.0);
    ( 436969.5, 3766865.0,    262.9,    3067.0,    0.0);    ( 436989.5,
3766725.0,    261.3,    3067.0,    0.0);
    ( 436989.5, 3766745.0,    261.6,    3067.0,    0.0);    ( 436989.5,
3766765.0,    262.0,    3067.0,    0.0);

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▲ *** AERMOD - VERSION 24142 ***    *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***    03/25/25

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*** AERMET - VERSION 22112 ***    ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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    ( 436989.5, 3766785.0,    262.7,    3067.0,    0.0);    ( 436989.5,
3766805.0,    262.6,    3067.0,    0.0);
    ( 436989.5, 3766825.0,    262.6,    3067.0,    0.0);    ( 436989.5,
3766845.0,    262.8,    3067.0,    0.0);
    ( 436989.5, 3766865.0,    262.9,    3067.0,    0.0);    ( 437009.5,

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3766785.0,	262.7,	3067.0,	0.0);		
(437009.5,	3766805.0,	263.0,	3067.0,	0.0);	(437009.5,
3766825.0,	263.0,	3067.0,	0.0);		
(437009.5,	3766845.0,	262.9,	3067.0,	0.0);	(437009.5,
3766865.0,	263.0,	3067.0,	0.0);		
(437029.5,	3766785.0,	262.6,	3067.0,	0.0);	(437029.5,
3766805.0,	263.0,	3067.0,	0.0);		
(437029.5,	3766825.0,	263.2,	3067.0,	0.0);	(437029.5,
3766845.0,	263.1,	3067.0,	0.0);		
(437029.5,	3766865.0,	263.1,	3067.0,	0.0);	(437049.5,
3766785.0,	262.5,	3067.0,	0.0);		
(437049.5,	3766805.0,	263.2,	3067.0,	0.0);	(437049.5,
3766825.0,	263.7,	3067.0,	0.0);		
(437049.5,	3766845.0,	263.8,	3067.0,	0.0);	(437049.5,
3766865.0,	263.5,	3067.0,	0.0);		
(437069.5,	3766785.0,	262.4,	3067.0,	0.0);	(437069.5,
3766805.0,	263.5,	3067.0,	0.0);		
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^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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3766865.0,    264.3,    3067.0,    0.0);

```

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^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

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*** AERMET - VERSION 22112 *** ***

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*** 12:32:57

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PAGE 13

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

(437449.5, 3766815.0, 263.6, 3067.0,	0.0);	(437449.5,
3766765.0, 262.8, 3067.0, 0.0);		
(437449.5, 3766715.0, 262.1, 3067.0,	0.0);	(437449.5,
3766665.0, 261.6, 3067.0, 0.0);		
(437449.5, 3766615.0, 261.2, 3067.0,	0.0);	(437449.5,
3766565.0, 260.5, 3067.0, 0.0);		
(437449.5, 3766515.0, 259.2, 3067.0,	0.0);	(437449.5,
3766465.0, 258.7, 3044.5, 0.0);		
(437449.5, 3766415.0, 258.8, 3044.5,	0.0);	(437449.5,
3766365.0, 258.1, 2697.3, 0.0);		
(437449.5, 3766315.0, 257.6, 2697.3,	0.0);	(437449.5,
3766265.0, 257.1, 2697.3, 0.0);		
(437449.5, 3766215.0, 256.6, 2697.3,	0.0);	(437449.5,
3766165.0, 256.1, 2697.3, 0.0);		
(437499.5, 3766865.0, 264.6, 3067.0,	0.0);	(437499.5,
3766815.0, 264.0, 3067.0, 0.0);		
(437499.5, 3766765.0, 263.8, 3067.0,	0.0);	(437499.5,
3766715.0, 263.2, 3067.0, 0.0);		
(437499.5, 3766665.0, 262.1, 3067.0,	0.0);	(437499.5,
3766615.0, 261.5, 3067.0, 0.0);		
(437499.5, 3766565.0, 261.0, 3067.0,	0.0);	(437499.5,
3766515.0, 260.3, 3067.0, 0.0);		
(437499.5, 3766465.0, 259.6, 3044.5,	0.0);	(437499.5,
3766415.0, 259.3, 3044.5, 0.0);		
(437499.5, 3766365.0, 258.8, 2697.3,	0.0);	(437499.5,
3766315.0, 258.5, 2697.3, 0.0);		
(437499.5, 3766265.0, 257.7, 2697.3,	0.0);	(437499.5,
3766215.0, 257.0, 2697.3, 0.0);		
(437499.5, 3766165.0, 256.3, 2697.3,	0.0);	(437549.5,
3766865.0, 264.7, 3067.0, 0.0);		
(437549.5, 3766815.0, 264.1, 3067.0,	0.0);	(437549.5,
3766765.0, 263.6, 3067.0, 0.0);		
(437549.5, 3766715.0, 263.0, 3067.0,	0.0);	(437549.5,
3766665.0, 262.4, 3067.0, 0.0);		
(437549.5, 3766615.0, 261.8, 3067.0,	0.0);	(437549.5,
3766565.0, 261.2, 3067.0, 0.0);		
(437549.5, 3766515.0, 260.7, 3067.0,	0.0);	(437549.5,
3766465.0, 260.1, 3044.5, 0.0);		
(437549.5, 3766415.0, 259.6, 3044.5,	0.0);	(437549.5,
3766365.0, 259.1, 2697.3, 0.0);		
(437549.5, 3766315.0, 258.5, 2697.3,	0.0);	(437549.5,
3766265.0, 257.8, 2697.3, 0.0);		
(437549.5, 3766215.0, 257.0, 2697.3,	0.0);	(437549.5,
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(437249.5, 3766315.0, 255.9, 2697.3,	0.0);	(437249.5,
3766265.0, 255.2, 2697.3, 0.0);		
(437249.5, 3766215.0, 254.7, 2697.3,	0.0);	(437249.5,

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3766165.0,    254.1,    2697.3,    0.0);
    ( 437199.5, 3766415.0,    256.7,    3044.5,    0.0);    ( 437199.5,
3766365.0,    256.2,    2697.3,    0.0);
    ( 437199.5, 3766315.0,    255.6,    2697.3,    0.0);    ( 437199.5,
3766265.0,    255.0,    2697.3,    0.0);
    ( 437199.5, 3766215.0,    254.4,    2697.3,    0.0);    ( 437199.5,
3766165.0,    253.9,    2697.3,    0.0);
    ( 437149.5, 3766415.0,    256.3,    3044.5,    0.0);    ( 437149.5,
3766365.0,    255.7,    2697.3,    0.0);
    ( 437149.5, 3766315.0,    255.1,    2697.3,    0.0);    ( 437149.5,
3766265.0,    254.7,    2697.3,    0.0);
    ( 437149.5, 3766215.0,    254.1,    2697.3,    0.0);    ( 437149.5,
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    ( 437099.5, 3766415.0,    256.3,    3044.5,    0.0);    ( 437099.5,
3766365.0,    255.6,    2697.3,    0.0);
    ( 437099.5, 3766315.0,    254.9,    2697.3,    0.0);    ( 437099.5,
3766265.0,    254.2,    2697.3,    0.0);
    ( 437099.5, 3766215.0,    253.7,    2697.3,    0.0);    ( 437099.5,
3766165.0,    253.0,    2697.3,    0.0);
    ( 437049.5, 3766415.0,    256.3,    3044.5,    0.0);    ( 437049.5,
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    ( 437049.5, 3766315.0,    254.8,    2697.3,    0.0);    ( 437049.5,
3766265.0,    254.0,    2697.3,    0.0);
    ( 437049.5, 3766215.0,    253.2,    2697.3,    0.0);    ( 437049.5,
3766165.0,    252.7,    2697.3,    0.0);
    ( 436999.5, 3766415.0,    257.1,    2697.3,    0.0);    ( 436999.5,
3766365.0,    255.7,    2697.3,    0.0);
    ( 436999.5, 3766315.0,    254.8,    2697.3,    0.0);    ( 436999.5,
3766265.0,    253.8,    2697.3,    0.0);
    ( 436999.5, 3766215.0,    253.1,    2697.3,    0.0);    ( 436999.5,
3766165.0,    252.5,    2697.3,    0.0);
    ( 436949.5, 3766415.0,    257.6,    2697.3,    0.0);    ( 436949.5,
3766365.0,    255.9,    2697.3,    0.0);
    ( 436949.5, 3766315.0,    254.7,    2697.3,    0.0);    ( 436949.5,
3766265.0,    253.7,    2697.3,    0.0);
    ( 436949.5, 3766215.0,    253.0,    2697.3,    0.0);    ( 436949.5,
3766165.0,    252.4,    2697.3,    0.0);
    ( 436899.5, 3766415.0,    255.9,    2697.3,    0.0);    ( 436899.5,
3766365.0,    254.9,    2697.3,    0.0);
    ( 436899.5, 3766315.0,    254.1,    2697.3,    0.0);    ( 436899.5,
3766265.0,    253.4,    2697.3,    0.0);

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▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

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*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** DISCRETE CARTESIAN RECEPTORS ***

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(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(436899.5, 3766215.0, 253.0, 2697.3, 0.0);	(436899.5,
3766165.0, 252.6, 2697.3, 0.0);	
(436849.5, 3766415.0, 255.1, 2697.3, 0.0);	(436849.5,
3766365.0, 254.5, 2697.3, 0.0);	
(436849.5, 3766315.0, 254.1, 2697.3, 0.0);	(436849.5,
3766265.0, 254.0, 2697.3, 0.0);	
(436849.5, 3766215.0, 253.3, 2697.3, 0.0);	(436849.5,
3766165.0, 253.0, 2697.3, 0.0);	
(436799.5, 3766415.0, 255.7, 2697.3, 0.0);	(436799.5,
3766365.0, 255.4, 2697.3, 0.0);	
(436799.5, 3766315.0, 255.1, 2697.3, 0.0);	(436799.5,
3766265.0, 254.9, 2697.3, 0.0);	
(436799.5, 3766215.0, 254.0, 2697.3, 0.0);	(436799.5,
3766165.0, 253.6, 2697.3, 0.0);	
(436749.5, 3766415.0, 256.9, 2697.3, 0.0);	(436749.5,
3766365.0, 256.5, 2697.3, 0.0);	
(436749.5, 3766315.0, 256.1, 2697.3, 0.0);	(436749.5,
3766265.0, 255.4, 2697.3, 0.0);	
(436749.5, 3766215.0, 254.4, 2697.3, 0.0);	(436749.5,
3766165.0, 253.9, 2697.3, 0.0);	
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3766365.0, 256.2, 2697.3, 0.0);	
(436699.5, 3766315.0, 255.2, 2697.3, 0.0);	(436699.5,
3766265.0, 255.2, 2697.3, 0.0);	
(436699.5, 3766215.0, 254.3, 2697.3, 0.0);	(436699.5,
3766165.0, 253.9, 2697.3, 0.0);	
(436649.5, 3766415.0, 256.4, 2697.3, 0.0);	(436649.5,
3766365.0, 255.9, 2697.3, 0.0);	
(436649.5, 3766315.0, 254.8, 2697.3, 0.0);	(436649.5,
3766265.0, 255.0, 2697.3, 0.0);	
(436649.5, 3766215.0, 254.2, 2697.3, 0.0);	(436649.5,
3766165.0, 253.8, 2697.3, 0.0);	
(436599.5, 3766415.0, 255.7, 2697.3, 0.0);	(436599.5,
3766365.0, 255.1, 2697.3, 0.0);	
(436599.5, 3766315.0, 254.5, 2697.3, 0.0);	(436599.5,
3766265.0, 254.7, 2697.3, 0.0);	
(436599.5, 3766215.0, 254.4, 2697.3, 0.0);	(436599.5,
3766165.0, 254.1, 2697.3, 0.0);	
(436549.5, 3766415.0, 255.1, 2697.3, 0.0);	(436549.5,
3766365.0, 254.6, 2697.3, 0.0);	
(436549.5, 3766315.0, 253.9, 2697.3, 0.0);	(436549.5,
3766265.0, 253.4, 2697.3, 0.0);	
(436549.5, 3766215.0, 253.0, 2697.3, 0.0);	(436549.5,
3766165.0, 252.6, 2697.3, 0.0);	
(436799.5, 3766465.0, 256.2, 3044.5, 0.0);	(436799.5,
3766515.0, 256.7, 3044.5, 0.0);	
(436799.5, 3766565.0, 257.3, 3067.0, 0.0);	(436799.5,

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3766615.0,    257.9,    3067.0,    0.0);
    ( 436799.5, 3766665.0,    258.6,    3067.0,    0.0);    ( 436799.5,
3766715.0,    259.8,    3067.0,    0.0);
    ( 436799.5, 3766765.0,    260.5,    3067.0,    0.0);    ( 436799.5,
3766815.0,    261.3,    3067.0,    0.0);
    ( 436799.5, 3766865.0,    262.0,    3067.0,    0.0);    ( 436799.5,
3766915.0,    262.8,    3067.0,    0.0);
    ( 436799.5, 3766965.0,    263.4,    3067.0,    0.0);    ( 436799.5,
3767015.0,    264.2,    3067.0,    0.0);
    ( 436799.5, 3767065.0,    265.2,    3067.0,    0.0);    ( 436799.5,
3767115.0,    266.1,    3067.0,    0.0);
    ( 436799.5, 3767165.0,    267.2,    3067.0,    0.0);    ( 436749.5,
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    ( 436749.5, 3766515.0,    257.6,    3044.5,    0.0);    ( 436749.5,
3766565.0,    257.9,    3044.5,    0.0);
    ( 436749.5, 3766615.0,    258.2,    3067.0,    0.0);    ( 436749.5,
3766665.0,    258.8,    3067.0,    0.0);
    ( 436749.5, 3766715.0,    259.7,    3067.0,    0.0);    ( 436749.5,
3766765.0,    260.3,    3067.0,    0.0);
    ( 436749.5, 3766815.0,    261.2,    3067.0,    0.0);    ( 436749.5,
3766865.0,    261.7,    3067.0,    0.0);
    ( 436749.5, 3766915.0,    262.7,    3067.0,    0.0);    ( 436749.5,
3766965.0,    263.7,    3067.0,    0.0);
    ( 436749.5, 3767015.0,    264.4,    3067.0,    0.0);    ( 436749.5,
3767065.0,    265.3,    3067.0,    0.0);
    ( 436749.5, 3767115.0,    266.2,    3067.0,    0.0);    ( 436749.5,
3767165.0,    267.1,    3067.0,    0.0);
    ( 436699.5, 3766465.0,    257.5,    3044.5,    0.0);    ( 436699.5,
3766515.0,    258.1,    3044.5,    0.0);
    ( 436699.5, 3766565.0,    258.6,    3044.5,    0.0);    ( 436699.5,
3766615.0,    259.0,    3067.0,    0.0);
    ( 436699.5, 3766665.0,    259.3,    3067.0,    0.0);    ( 436699.5,
3766715.0,    260.2,    3067.0,    0.0);
    ( 436699.5, 3766765.0,    260.6,    3067.0,    0.0);    ( 436699.5,
3766815.0,    261.2,    3067.0,    0.0);
    ( 436699.5, 3766865.0,    261.8,    3067.0,    0.0);    ( 436699.5,
3766915.0,    263.4,    3067.0,    0.0);
    ( 436699.5, 3766965.0,    264.3,    3067.0,    0.0);    ( 436699.5,
3767015.0,    264.7,    3067.0,    0.0);
    ( 436699.5, 3767065.0,    265.3,    3067.0,    0.0);    ( 436699.5,
3767115.0,    266.5,    3067.0,    0.0);
    ( 436699.5, 3767165.0,    267.1,    3067.0,    0.0);    ( 436649.5,
3766465.0,    257.5,    2697.3,    0.0);

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^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

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*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(436649.5, 3766515.0, 258.3, 3044.5, 0.0);	(436649.5,
3766565.0, 258.8, 3044.5, 0.0);	
(436649.5, 3766615.0, 259.4, 3067.0, 0.0);	(436649.5,
3766665.0, 259.5, 3067.0, 0.0);	
(436649.5, 3766715.0, 260.4, 3067.0, 0.0);	(436649.5,
3766765.0, 260.5, 3067.0, 0.0);	
(436649.5, 3766815.0, 261.2, 3067.0, 0.0);	(436649.5,
3766865.0, 262.2, 3067.0, 0.0);	
(436649.5, 3766915.0, 263.7, 3067.0, 0.0);	(436649.5,
3766965.0, 264.6, 3067.0, 0.0);	
(436649.5, 3767015.0, 265.4, 3067.0, 0.0);	(436649.5,
3767065.0, 266.0, 3067.0, 0.0);	
(436649.5, 3767115.0, 267.0, 3067.0, 0.0);	(436649.5,
3767165.0, 268.1, 3067.0, 0.0);	
(436599.5, 3766465.0, 256.2, 3044.5, 0.0);	(436599.5,
3766515.0, 257.4, 3044.5, 0.0);	
(436599.5, 3766565.0, 258.2, 3044.5, 0.0);	(436599.5,
3766615.0, 259.0, 3067.0, 0.0);	
(436599.5, 3766665.0, 259.7, 3067.0, 0.0);	(436599.5,
3766715.0, 260.6, 3067.0, 0.0);	
(436599.5, 3766765.0, 261.0, 3067.0, 0.0);	(436599.5,
3766815.0, 261.9, 3067.0, 0.0);	
(436599.5, 3766865.0, 262.5, 3067.0, 0.0);	(436599.5,
3766915.0, 263.6, 3067.0, 0.0);	
(436599.5, 3766965.0, 264.5, 3067.0, 0.0);	(436599.5,
3767015.0, 265.2, 3067.0, 0.0);	
(436599.5, 3767065.0, 266.0, 3067.0, 0.0);	(436599.5,
3767115.0, 266.7, 3067.0, 0.0);	
(436599.5, 3767165.0, 267.4, 3067.0, 0.0);	(436549.5,
3766465.0, 255.9, 3044.5, 0.0);	
(436549.5, 3766515.0, 257.0, 3044.5, 0.0);	(436549.5,
3766565.0, 257.8, 3044.5, 0.0);	
(436549.5, 3766615.0, 258.6, 3067.0, 0.0);	(436549.5,
3766665.0, 259.4, 3067.0, 0.0);	
(436549.5, 3766715.0, 260.4, 3067.0, 0.0);	(436549.5,
3766765.0, 260.8, 3067.0, 0.0);	
(436549.5, 3766815.0, 261.2, 3067.0, 0.0);	(436549.5,
3766865.0, 261.8, 3067.0, 0.0);	
(436549.5, 3766915.0, 262.6, 3067.0, 0.0);	(436549.5,
3766965.0, 263.2, 3067.0, 0.0);	
(436549.5, 3767015.0, 263.6, 3067.0, 0.0);	(436549.5,
3767065.0, 264.2, 3067.0, 0.0);	
(436549.5, 3767115.0, 264.9, 3067.0, 0.0);	(436549.5,
3767165.0, 265.6, 3067.0, 0.0);	
(436549.5, 3767265.0, 266.9, 3067.0, 0.0);	(436549.5,


```

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    ( 436549.5, 3767465.0,    269.8,    3067.0,    0.0);    ( 436549.5,
3767565.0,    271.3,    3067.0,    0.0);
    ( 436549.5, 3767665.0,    272.6,    3067.0,    0.0);    ( 436649.5,
3767265.0,    268.6,    3067.0,    0.0);
    ( 436649.5, 3767365.0,    270.2,    3067.0,    0.0);    ( 436649.5,
3767465.0,    271.4,    3067.0,    0.0);
    ( 436649.5, 3767565.0,    272.7,    3067.0,    0.0);    ( 436649.5,
3767665.0,    273.5,    3067.0,    0.0);
    ( 436749.5, 3767265.0,    268.7,    3067.0,    0.0);    ( 436749.5,
3767365.0,    270.1,    3067.0,    0.0);
    ( 436749.5, 3767465.0,    271.2,    3067.0,    0.0);    ( 436749.5,
3767565.0,    272.4,    3067.0,    0.0);
    ( 436749.5, 3767665.0,    273.9,    3067.0,    0.0);    ( 436849.5,
3767265.0,    268.8,    3067.0,    0.0);
    ( 436849.5, 3767365.0,    269.3,    3067.0,    0.0);    ( 436849.5,
3767465.0,    270.4,    3067.0,    0.0);
    ( 436849.5, 3767565.0,    272.3,    3067.0,    0.0);    ( 436849.5,
3767665.0,    273.3,    3067.0,    0.0);
    ( 436949.5, 3767265.0,    268.1,    3067.0,    0.0);    ( 436949.5,
3767365.0,    268.7,    3067.0,    0.0);
    ( 436949.5, 3767465.0,    270.0,    3067.0,    0.0);    ( 436949.5,
3767565.0,    272.9,    3067.0,    0.0);
    ( 436949.5, 3767665.0,    274.1,    3067.0,    0.0);    ( 437049.5,
3767265.0,    268.1,    3067.0,    0.0);
    ( 437049.5, 3767365.0,    269.0,    3067.0,    0.0);    ( 437049.5,
3767465.0,    270.8,    3067.0,    0.0);
    ( 437049.5, 3767565.0,    273.6,    3067.0,    0.0);    ( 437049.5,
3767665.0,    275.2,    3067.0,    0.0);
    ( 437149.5, 3767265.0,    269.5,    3067.0,    0.0);    ( 437149.5,
3767365.0,    270.8,    3067.0,    0.0);
    ( 437149.5, 3767465.0,    272.3,    3067.0,    0.0);    ( 437149.5,
3767565.0,    273.7,    3067.0,    0.0);
    ( 437149.5, 3767665.0,    275.2,    3067.0,    0.0);    ( 437249.5,
3767265.0,    269.1,    3067.0,    0.0);
    ( 437249.5, 3767365.0,    271.2,    3067.0,    0.0);    ( 437249.5,
3767465.0,    273.2,    3067.0,    0.0);
    ( 437249.5, 3767565.0,    274.7,    3067.0,    0.0);    ( 437249.5,
3767665.0,    275.4,    3067.0,    0.0);
    ( 437349.5, 3767265.0,    268.3,    3067.0,    0.0);    ( 437349.5,
3767365.0,    269.9,    3067.0,    0.0);
    ( 437349.5, 3767465.0,    271.6,    3067.0,    0.0);    ( 437349.5,
3767565.0,    273.6,    3067.0,    0.0);
    ( 437349.5, 3767665.0,    275.7,    3067.0,    0.0);    ( 437449.5,
3767265.0,    269.1,    3067.0,    0.0);

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^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

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*** AERMET - VERSION 22112 *** ***

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*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
 (METERS)

(437449.5, 3767365.0, 270.8, 3067.0, 0.0);	(437449.5,
3767465.0, 271.8, 3067.0, 0.0);	
(437449.5, 3767565.0, 274.0, 3067.0, 0.0);	(437449.5,
3767665.0, 275.8, 3067.0, 0.0);	
(437549.5, 3767265.0, 270.2, 3067.0, 0.0);	(437549.5,
3767365.0, 271.7, 3067.0, 0.0);	
(437549.5, 3767465.0, 273.0, 3067.0, 0.0);	(437549.5,
3767565.0, 274.4, 3067.0, 0.0);	
(437549.5, 3767665.0, 275.9, 3067.0, 0.0);	(437649.5,
3767265.0, 270.8, 3067.0, 0.0);	
(437649.5, 3767365.0, 272.1, 3067.0, 0.0);	(437649.5,
3767465.0, 273.4, 3067.0, 0.0);	
(437649.5, 3767565.0, 274.6, 3067.0, 0.0);	(437649.5,
3767665.0, 275.9, 3067.0, 0.0);	
(437749.5, 3767265.0, 270.8, 3067.0, 0.0);	(437749.5,
3767365.0, 272.6, 3067.0, 0.0);	
(437749.5, 3767465.0, 274.4, 3067.0, 0.0);	(437749.5,
3767565.0, 275.4, 3067.0, 0.0);	
(437749.5, 3767665.0, 276.7, 3067.0, 0.0);	(437849.5,
3767265.0, 271.7, 3067.0, 0.0);	
(437849.5, 3767365.0, 272.5, 3067.0, 0.0);	(437849.5,
3767465.0, 273.9, 3067.0, 0.0);	
(437849.5, 3767565.0, 275.7, 3067.0, 0.0);	(437849.5,
3767665.0, 276.7, 3067.0, 0.0);	
(437949.5, 3767265.0, 270.5, 3067.0, 0.0);	(437949.5,
3767365.0, 272.2, 3067.0, 0.0);	
(437949.5, 3767465.0, 273.9, 3067.0, 0.0);	(437949.5,
3767565.0, 275.4, 3067.0, 0.0);	
(437949.5, 3767665.0, 276.7, 3067.0, 0.0);	(438049.5,
3767265.0, 270.6, 3067.0, 0.0);	
(438049.5, 3767365.0, 272.3, 3067.0, 0.0);	(438049.5,
3767465.0, 273.0, 3067.0, 0.0);	
(438049.5, 3767565.0, 274.5, 3067.0, 0.0);	(438049.5,
3767665.0, 276.1, 3067.0, 0.0);	
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3767065.0, 267.2, 3067.0, 0.0);	
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3766865.0, 265.4, 3067.0, 0.0);	
(437649.5, 3766765.0, 263.7, 3067.0, 0.0);	(437649.5,
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(437649.5, 3766565.0, 260.7, 3067.0, 0.0);	(437649.5,
3766465.0, 259.4, 3044.5, 0.0);	
(437649.5, 3766365.0, 258.5, 2697.3, 0.0);	(437649.5,

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( 437649.5, 3766165.0,    256.2,    2697.3,    0.0); ( 437649.5,
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( 437649.5, 3765765.0,    251.6,    2697.3,    0.0); ( 437649.5,
3765665.0,    249.8,    2697.3,    0.0);
( 437749.5, 3767165.0,    269.3,    3067.0,    0.0); ( 437749.5,
3767065.0,    268.4,    3067.0,    0.0);
( 437749.5, 3766965.0,    267.3,    3067.0,    0.0); ( 437749.5,
3766865.0,    266.0,    3067.0,    0.0);
( 437749.5, 3766765.0,    264.6,    3067.0,    0.0); ( 437749.5,
3766665.0,    262.7,    3067.0,    0.0);
( 437749.5, 3766565.0,    260.5,    3067.0,    0.0); ( 437749.5,
3766465.0,    258.8,    3067.0,    0.0);
( 437749.5, 3766365.0,    258.2,    2697.3,    0.0); ( 437749.5,
3766265.0,    257.8,    2697.3,    0.0);
( 437749.5, 3766165.0,    256.0,    2697.3,    0.0); ( 437749.5,
3766065.0,    254.7,    2697.3,    0.0);
( 437749.5, 3765965.0,    253.8,    2697.3,    0.0); ( 437749.5,
3765865.0,    252.9,    2697.3,    0.0);
( 437749.5, 3765765.0,    251.8,    2697.3,    0.0); ( 437749.5,
3765665.0,    250.3,    2697.3,    0.0);
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3767065.0,    268.7,    3067.0,    0.0);
( 437849.5, 3766965.0,    267.6,    3067.0,    0.0); ( 437849.5,
3766865.0,    265.7,    3067.0,    0.0);
( 437849.5, 3766765.0,    264.4,    3067.0,    0.0); ( 437849.5,
3766665.0,    261.9,    3067.0,    0.0);
( 437849.5, 3766565.0,    261.9,    3067.0,    0.0); ( 437849.5,
3766465.0,    259.9,    3067.0,    0.0);
( 437849.5, 3766365.0,    258.8,    2697.3,    0.0); ( 437849.5,
3766265.0,    257.2,    2697.3,    0.0);
( 437849.5, 3766165.0,    255.9,    2697.3,    0.0); ( 437849.5,
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( 437849.5, 3765965.0,    253.5,    2697.3,    0.0); ( 437849.5,
3765865.0,    252.2,    2697.3,    0.0);
( 437849.5, 3765765.0,    251.7,    2697.3,    0.0); ( 437849.5,
3765665.0,    249.8,    2697.3,    0.0);
( 437949.5, 3767165.0,    269.0,    3067.0,    0.0); ( 437949.5,
3767065.0,    267.5,    3067.0,    0.0);
( 437949.5, 3766965.0,    266.1,    3067.0,    0.0); ( 437949.5,
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3766665.0,    262.7,    3067.0,    0.0);
( 437949.5, 3766565.0,    261.8,    3067.0,    0.0); ( 437949.5,
3766465.0,    261.1,    3067.0,    0.0);

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▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(437949.5, 3766365.0, 259.6, 2697.3, 0.0);	(437949.5,
3766265.0, 258.1, 2697.3, 0.0);	
(437949.5, 3766165.0, 256.8, 2697.3, 0.0);	(437949.5,
3766065.0, 255.0, 2697.3, 0.0);	
(437949.5, 3765965.0, 253.4, 2697.3, 0.0);	(437949.5,
3765865.0, 251.7, 2697.3, 0.0);	
(437949.5, 3765765.0, 250.8, 2697.3, 0.0);	(437949.5,
3765665.0, 249.9, 2697.3, 0.0);	
(438049.5, 3767165.0, 269.2, 3067.0, 0.0);	(438049.5,
3767065.0, 267.6, 3067.0, 0.0);	
(438049.5, 3766965.0, 266.3, 3067.0, 0.0);	(438049.5,
3766865.0, 265.0, 3067.0, 0.0);	
(438049.5, 3766765.0, 264.1, 3067.0, 0.0);	(438049.5,
3766665.0, 263.2, 3067.0, 0.0);	
(438049.5, 3766565.0, 262.5, 3067.0, 0.0);	(438049.5,
3766465.0, 261.8, 3067.0, 0.0);	
(438049.5, 3766365.0, 259.9, 2697.3, 0.0);	(438049.5,
3766265.0, 258.2, 2697.3, 0.0);	
(438049.5, 3766165.0, 256.4, 2697.3, 0.0);	(438049.5,
3766065.0, 255.0, 2697.3, 0.0);	
(438049.5, 3765965.0, 253.6, 2697.3, 0.0);	(438049.5,
3765865.0, 251.7, 2697.3, 0.0);	
(438049.5, 3765765.0, 251.4, 2697.3, 0.0);	(438049.5,
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(437549.5, 3766065.0, 254.1, 2697.3, 0.0);	(437549.5,
3765965.0, 252.9, 2697.3, 0.0);	
(437549.5, 3765865.0, 251.9, 2697.3, 0.0);	(437549.5,
3765765.0, 250.5, 2697.3, 0.0);	
(437549.5, 3765665.0, 249.1, 2697.3, 0.0);	(437449.5,
3766065.0, 254.2, 2697.3, 0.0);	
(437449.5, 3765965.0, 252.5, 2697.3, 0.0);	(437449.5,
3765865.0, 251.5, 2697.3, 0.0);	
(437449.5, 3765765.0, 249.7, 2697.3, 0.0);	(437449.5,
3765665.0, 248.0, 2697.3, 0.0);	
(437349.5, 3766065.0, 253.4, 2697.3, 0.0);	(437349.5,
3765965.0, 252.2, 2697.3, 0.0);	
(437349.5, 3765865.0, 251.5, 2697.3, 0.0);	(437349.5,
3765765.0, 249.8, 2697.3, 0.0);	
(437349.5, 3765665.0, 247.6, 2697.3, 0.0);	(437249.5,
3766065.0, 252.9, 2697.3, 0.0);	
(437249.5, 3765965.0, 251.6, 2697.3, 0.0);	(437249.5,

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  ( 437249.5, 3765765.0,    249.0,    2697.3,    0.0);    ( 437249.5,
3765665.0,    246.7,    2697.3,    0.0);
  ( 437149.5, 3766065.0,    252.2,    2697.3,    0.0);    ( 437149.5,
3765965.0,    251.0,    2697.3,    0.0);
  ( 437149.5, 3765865.0,    249.6,    2697.3,    0.0);    ( 437149.5,
3765765.0,    247.6,    2697.3,    0.0);
  ( 437149.5, 3765665.0,    246.1,    2697.3,    0.0);    ( 437049.5,
3766065.0,    251.6,    2697.3,    0.0);
  ( 437049.5, 3765965.0,    250.5,    2697.3,    0.0);    ( 437049.5,
3765865.0,    249.2,    2697.3,    0.0);
  ( 437049.5, 3765765.0,    247.3,    2697.3,    0.0);    ( 437049.5,
3765665.0,    245.7,    2697.3,    0.0);
  ( 436949.5, 3766065.0,    251.4,    2697.3,    0.0);    ( 436949.5,
3765965.0,    249.0,    2697.3,    0.0);
  ( 436949.5, 3765865.0,    249.0,    2697.3,    0.0);    ( 436949.5,
3765765.0,    247.1,    2697.3,    0.0);
  ( 436949.5, 3765665.0,    245.2,    2697.3,    0.0);    ( 436849.5,
3766065.0,    251.3,    2697.3,    0.0);
  ( 436849.5, 3765965.0,    249.2,    2697.3,    0.0);    ( 436849.5,
3765865.0,    249.3,    2697.3,    0.0);
  ( 436849.5, 3765765.0,    246.9,    2697.3,    0.0);    ( 436849.5,
3765665.0,    244.6,    2697.3,    0.0);
  ( 436749.5, 3766065.0,    252.0,    2697.3,    0.0);    ( 436749.5,
3765965.0,    248.8,    2697.3,    0.0);
  ( 436749.5, 3765865.0,    249.2,    2697.3,    0.0);    ( 436749.5,
3765765.0,    245.9,    2697.3,    0.0);
  ( 436749.5, 3765665.0,    243.7,    2697.3,    0.0);    ( 436649.5,
3766065.0,    251.6,    2697.3,    0.0);
  ( 436649.5, 3765965.0,    249.4,    2697.3,    0.0);    ( 436649.5,
3765865.0,    248.8,    2697.3,    0.0);
  ( 436649.5, 3765765.0,    244.2,    2697.3,    0.0);    ( 436649.5,
3765665.0,    242.8,    2697.3,    0.0);
  ( 436549.5, 3766065.0,    251.2,    2697.3,    0.0);    ( 436549.5,
3765965.0,    248.9,    2697.3,    0.0);
  ( 436549.5, 3765865.0,    248.2,    2697.3,    0.0);    ( 436549.5,
3765765.0,    242.2,    2697.3,    0.0);
  ( 436549.5, 3765665.0,    241.7,    2697.3,    0.0);    ( 436449.5,
3766065.0,    250.7,    2697.3,    0.0);
  ( 436449.5, 3765965.0,    249.0,    2697.3,    0.0);    ( 436449.5,
3765865.0,    248.0,    2697.3,    0.0);
  ( 436449.5, 3765765.0,    243.2,    2697.3,    0.0);    ( 436449.5,
3765665.0,    241.8,    2697.3,    0.0);
  ( 436349.5, 3766065.0,    250.4,    2697.3,    0.0);    ( 436349.5,
3765965.0,    249.3,    2697.3,    0.0);
  ( 436349.5, 3765865.0,    248.2,    2697.3,    0.0);    ( 436349.5,
3765765.0,    245.4,    2697.3,    0.0);
  ( 436349.5, 3765665.0,    243.7,    2697.3,    0.0);    ( 436249.5,
3766065.0,    249.7,    2697.3,    0.0);

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▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dIarocca\Desktop\Lakes

Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(436249.5, 3765965.0, 248.6, 2697.3, 0.0);	(436249.5,
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3765665.0, 241.0, 2697.3, 0.0);	
(436149.5, 3766065.0, 249.0, 2697.3, 0.0);	(436149.5,
3765965.0, 247.7, 2697.3, 0.0);	
(436149.5, 3765865.0, 246.4, 2697.3, 0.0);	(436149.5,
3765765.0, 241.2, 2697.3, 0.0);	
(436149.5, 3765665.0, 240.3, 2697.3, 0.0);	(436049.5,
3766065.0, 248.7, 2697.3, 0.0);	
(436049.5, 3765965.0, 247.8, 2697.3, 0.0);	(436049.5,
3765865.0, 246.3, 2697.3, 0.0);	
(436049.5, 3765765.0, 242.0, 2697.3, 0.0);	(436049.5,
3765665.0, 241.1, 2697.3, 0.0);	
(436449.5, 3766165.0, 251.8, 2697.3, 0.0);	(436449.5,
3766265.0, 252.7, 2697.3, 0.0);	
(436449.5, 3766365.0, 254.0, 2697.3, 0.0);	(436449.5,
3766465.0, 255.6, 2697.3, 0.0);	
(436449.5, 3766565.0, 257.7, 3044.5, 0.0);	(436449.5,
3766665.0, 258.3, 3067.0, 0.0);	
(436449.5, 3766765.0, 259.5, 3067.0, 0.0);	(436449.5,
3766865.0, 261.3, 3067.0, 0.0);	
(436449.5, 3766965.0, 262.2, 3067.0, 0.0);	(436449.5,
3767065.0, 263.6, 3067.0, 0.0);	
(436449.5, 3767165.0, 265.4, 3067.0, 0.0);	(436449.5,
3767265.0, 266.6, 3067.0, 0.0);	
(436449.5, 3767365.0, 267.8, 3067.0, 0.0);	(436449.5,
3767465.0, 269.9, 3067.0, 0.0);	
(436449.5, 3767565.0, 270.7, 3067.0, 0.0);	(436449.5,
3767665.0, 272.7, 3067.0, 0.0);	
(436349.5, 3766165.0, 251.3, 2697.3, 0.0);	(436349.5,
3766265.0, 252.4, 2697.3, 0.0);	
(436349.5, 3766365.0, 253.6, 2697.3, 0.0);	(436349.5,
3766465.0, 254.9, 2697.3, 0.0);	
(436349.5, 3766565.0, 256.0, 3044.5, 0.0);	(436349.5,
3766665.0, 257.4, 3067.0, 0.0);	
(436349.5, 3766765.0, 258.7, 3067.0, 0.0);	(436349.5,
3766865.0, 260.0, 3067.0, 0.0);	
(436349.5, 3766965.0, 261.6, 3067.0, 0.0);	(436349.5,

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(436349.5,	3767165.0,	264.7,	3067.0,	0.0);	(436349.5,
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(436349.5,	3767365.0,	267.8,	3067.0,	0.0);	(436349.5,
3767465.0,	269.2,	3067.0,	0.0);		
(436349.5,	3767565.0,	270.7,	3067.0,	0.0);	(436349.5,
3767665.0,	272.1,	3067.0,	0.0);		
(436249.5,	3766165.0,	250.5,	2697.3,	0.0);	(436249.5,
3766265.0,	252.2,	2697.3,	0.0);		
(436249.5,	3766365.0,	253.7,	2697.3,	0.0);	(436249.5,
3766465.0,	254.3,	2697.3,	0.0);		
(436249.5,	3766565.0,	255.0,	3044.5,	0.0);	(436249.5,
3766665.0,	256.7,	3067.0,	0.0);		
(436249.5,	3766765.0,	257.6,	3067.0,	0.0);	(436249.5,
3766865.0,	259.9,	3067.0,	0.0);		
(436249.5,	3766965.0,	261.4,	3067.0,	0.0);	(436249.5,
3767065.0,	262.7,	3067.0,	0.0);		
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(436149.5,	3767165.0,	264.0,	3067.0,	0.0);	(436149.5,
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(436149.5,	3767565.0,	269.8,	3067.0,	0.0);	(436149.5,
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3766265.0,	250.9,	2697.3,	0.0);		
(436049.5,	3766365.0,	253.0,	2697.3,	0.0);	(436049.5,
3766465.0,	253.8,	2697.3,	0.0);		
(436049.5,	3766565.0,	255.4,	3044.5,	0.0);	(436049.5,
3766665.0,	256.0,	3067.0,	0.0);		
(436049.5,	3766765.0,	257.3,	3067.0,	0.0);	(436049.5,
3766865.0,	258.8,	3067.0,	0.0);		
(436049.5,	3766965.0,	260.8,	3067.0,	0.0);	(436049.5,
3767065.0,	262.5,	3067.0,	0.0);		
(436049.5,	3767165.0,	264.1,	3067.0,	0.0);	(436049.5,

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3767265.0,    265.6,    3067.0,    0.0);
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(438449.5,	3768665.0,	292.9,	3067.0,	0.0);	(438649.5,
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▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(438249.5, 3766465.0, 260.9, 3067.0, 0.0); (438249.5,
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(438849.5,	3766865.0,	266.1,	3067.0,	0.0);	(438849.5,
3766665.0,	263.2,	3067.0,	0.0);		
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(438849.5,	3765665.0,	252.1,	2697.3,	0.0);	(438849.5,
3765465.0,	248.4,	2697.3,	0.0);		
(438849.5,	3765265.0,	246.7,	2697.3,	0.0);	(438849.5,
3765065.0,	243.2,	2697.3,	0.0);		
(438849.5,	3764865.0,	240.2,	2697.3,	0.0);	(438849.5,
3764665.0,	238.3,	2697.3,	0.0);		
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(437649.5,	3765465.0,	246.9,	2697.3,	0.0);	(437649.5,

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( 437649.5, 3765065.0,      241.1,      2697.3,      0.0);      ( 437649.5,
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3765465.0,      245.8,      2697.3,      0.0);

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▲ *** AERMOD - VERSION 24142 ***      *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***      03/25/25

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*** AERMET - VERSION 22112 ***      ***
***      12:32:57

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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3765265.0,      242.7,      2697.3,      0.0);
( 437249.5, 3765065.0,      239.3,      2697.3,      0.0);      ( 437249.5,
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( 436449.5, 3764665.0,      232.4,      2697.3,      0.0);      ( 436249.5,
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(436049.5,	3765065.0,	236.2,	2697.3,	0.0);	(436049.5,
3764865.0,	233.1,	2697.3,	0.0);		
(436049.5,	3764665.0,	230.3,	2697.3,	0.0);	(435849.5,
3765465.0,	240.2,	2697.3,	0.0);		
(435849.5,	3765265.0,	238.0,	2697.3,	0.0);	(435849.5,
3765065.0,	235.3,	2697.3,	0.0);		
(435849.5,	3764865.0,	232.9,	2697.3,	0.0);	(435849.5,
3764665.0,	230.2,	2697.3,	0.0);		
(435649.5,	3765465.0,	239.3,	2697.3,	0.0);	(435649.5,
3765265.0,	237.0,	2697.3,	0.0);		
(435649.5,	3765065.0,	234.0,	2697.3,	0.0);	(435649.5,
3764865.0,	232.1,	2697.3,	0.0);		
(435649.5,	3764665.0,	229.8,	2697.3,	0.0);	(435449.5,
3765465.0,	238.2,	2697.3,	0.0);		
(435449.5,	3765265.0,	236.0,	2697.3,	0.0);	(435449.5,
3765065.0,	234.4,	2697.3,	0.0);		
(435449.5,	3764865.0,	231.2,	2697.3,	0.0);	(435449.5,
3764665.0,	229.0,	2645.7,	0.0);		
(435249.5,	3765465.0,	237.5,	2697.3,	0.0);	(435249.5,
3765265.0,	235.2,	2697.3,	0.0);		
(435249.5,	3765065.0,	232.6,	2697.3,	0.0);	(435249.5,
3764865.0,	230.3,	2697.3,	0.0);		
(435249.5,	3764665.0,	227.4,	2645.7,	0.0);	(435049.5,
3765465.0,	237.6,	2697.3,	0.0);		
(435049.5,	3765265.0,	235.2,	2697.3,	0.0);	(435049.5,
3765065.0,	232.4,	2697.3,	0.0);		
(435049.5,	3764865.0,	230.0,	2645.7,	0.0);	(435049.5,
3764665.0,	226.9,	2645.7,	0.0);		
(435849.5,	3765665.0,	241.6,	2697.3,	0.0);	(435849.5,
3765865.0,	245.5,	2697.3,	0.0);		
(435849.5,	3766065.0,	247.8,	2697.3,	0.0);	(435849.5,
3766265.0,	250.3,	2697.3,	0.0);		
(435849.5,	3766465.0,	252.0,	2697.3,	0.0);	(435849.5,
3766665.0,	256.3,	3044.5,	0.0);		
(435849.5,	3766865.0,	261.1,	3067.0,	0.0);	(435849.5,
3767065.0,	262.8,	3067.0,	0.0);		
(435849.5,	3767265.0,	265.5,	3067.0,	0.0);	(435849.5,
3767465.0,	268.7,	3067.0,	0.0);		
(435849.5,	3767665.0,	271.9,	3067.0,	0.0);	(435849.5,
3767865.0,	274.3,	3067.0,	0.0);		
(435849.5,	3768065.0,	276.2,	3067.0,	0.0);	(435849.5,
3768265.0,	279.4,	3067.0,	0.0);		
(435849.5,	3768465.0,	281.2,	3067.0,	0.0);	(435849.5,
3768665.0,	283.9,	3067.0,	0.0);		
(435649.5,	3765665.0,	240.8,	2697.3,	0.0);	(435649.5,
3765865.0,	244.5,	2697.3,	0.0);		
(435649.5,	3766065.0,	246.4,	2697.3,	0.0);	(435649.5,

```

3766265.0,      248.9,      2697.3,      0.0);
      ( 435649.5, 3766465.0,      251.9,      2697.3,      0.0);      ( 435649.5,
3766665.0,      255.8,      3044.5,      0.0);
      ( 435649.5, 3766865.0,      258.4,      3067.0,      0.0);      ( 435649.5,
3767065.0,      261.2,      3067.0,      0.0);
      ( 435649.5, 3767265.0,      263.7,      3067.0,      0.0);      ( 435649.5,
3767465.0,      266.9,      3067.0,      0.0);

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^ *** AERMOD - VERSION 24142 ***      *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***      03/25/25
*** AERMET - VERSION 22112 ***      ***
***      12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```

      ( 435649.5, 3767665.0,      269.9,      3067.0,      0.0);      ( 435649.5,
3767865.0,      272.2,      3067.0,      0.0);
      ( 435649.5, 3768065.0,      275.1,      3067.0,      0.0);      ( 435649.5,
3768265.0,      276.8,      3067.0,      0.0);
      ( 435649.5, 3768465.0,      279.4,      3067.0,      0.0);      ( 435649.5,
3768665.0,      281.9,      3067.0,      0.0);
      ( 435449.5, 3765665.0,      239.4,      2697.3,      0.0);      ( 435449.5,
3765865.0,      243.0,      2697.3,      0.0);
      ( 435449.5, 3766065.0,      245.0,      2697.3,      0.0);      ( 435449.5,
3766265.0,      247.0,      2697.3,      0.0);
      ( 435449.5, 3766465.0,      250.4,      2697.3,      0.0);      ( 435449.5,
3766665.0,      253.5,      3044.5,      0.0);
      ( 435449.5, 3766865.0,      256.7,      3067.0,      0.0);      ( 435449.5,
3767065.0,      258.8,      3067.0,      0.0);
      ( 435449.5, 3767265.0,      261.8,      3067.0,      0.0);      ( 435449.5,
3767465.0,      264.6,      3067.0,      0.0);
      ( 435449.5, 3767665.0,      267.8,      3067.0,      0.0);      ( 435449.5,
3767865.0,      270.2,      3067.0,      0.0);
      ( 435449.5, 3768065.0,      272.2,      3067.0,      0.0);      ( 435449.5,
3768265.0,      275.2,      3067.0,      0.0);
      ( 435449.5, 3768465.0,      278.0,      3067.0,      0.0);      ( 435449.5,
3768665.0,      280.9,      3067.0,      0.0);
      ( 435249.5, 3765665.0,      238.7,      2697.3,      0.0);      ( 435249.5,
3765865.0,      242.0,      2697.3,      0.0);
      ( 435249.5, 3766065.0,      243.6,      2697.3,      0.0);      ( 435249.5,
3766265.0,      246.7,      2697.3,      0.0);
      ( 435249.5, 3766465.0,      248.4,      2697.3,      0.0);      ( 435249.5,
3766665.0,      253.0,      3044.5,      0.0);
      ( 435249.5, 3766865.0,      255.6,      3067.0,      0.0);      ( 435249.5,
3767065.0,      257.7,      3067.0,      0.0);
      ( 435249.5, 3767265.0,      261.0,      3067.0,      0.0);      ( 435249.5,

```


NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES ***
*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
(METERS/SEC)

1.54, 3.09, 5.14, 8.23,
10.80,

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

Surface file: ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.sfc

Met Version: 22112

Profile file: ..\Metdata\kcno_sfc_pfl\KCNO_V11_trimmed.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179
Name: UNKNOWN

Upper air station no.: 3190
Name: UNKNOWN

Year: 2017

Year: 2017

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							
17	01	01	1	01	-17.3	0.174	-9.000	-9.000	-999.	175.	33.5	0.02	0.54	
1.00	2.86	261.		7.9	279.2	2.0								
17	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.05	0.54	
1.00	0.00	0.		7.9	279.2	2.0								
17	01	01	1	03	-18.3	0.185	-9.000	-9.000	-999.	191.	37.7	0.11	0.54	
1.00	2.09	340.		7.9	279.2	2.0								
17	01	01	1	04	-5.5	0.091	-9.000	-9.000	-999.	70.	12.0	0.02	0.54	
1.00	1.52	89.		7.9	279.2	2.0								
17	01	01	1	05	-12.5	0.150	-9.000	-9.000	-999.	139.	24.7	0.14	0.54	

1.00	1.62	13.	7.9	277.5	2.0								
17	01	01	1	06	-9.0	0.126	-9.000	-9.000	-999.	107.	19.4	0.12	0.54
1.00	1.43	317.	7.9	277.5	2.0								
17	01	01	1	07	-3.0	0.067	-9.000	-9.000	-999.	43.	9.0	0.02	0.54
1.00	1.13	255.	7.9	277.0	2.0								
17	01	01	1	08	-5.8	0.097	-9.000	-9.000	-999.	73.	14.0	0.02	0.54
0.53	1.60	93.	7.9	277.5	2.0								
17	01	01	1	09	22.2	0.091	0.366	0.005	78.	66.	-3.0	0.02	0.54
0.31	0.97	35.	7.9	280.3	2.0								
17	01	01	1	10	54.8	0.172	0.954	0.005	559.	172.	-8.2	0.02	0.54
0.24	2.11	70.	7.9	283.8	2.0								
17	01	01	1	11	76.8	0.224	1.251	0.005	899.	254.	-12.9	0.02	0.54
0.21	2.83	99.	7.9	285.9	2.0								
17	01	01	1	12	73.6	0.126	1.297	0.005	1045.	111.	-2.4	0.02	0.54
0.20	1.31	107.	7.9	285.9	2.0								
17	01	01	1	13	86.2	0.147	1.404	0.005	1133.	135.	-3.3	0.02	0.54
0.20	1.60	234.	7.9	286.4	2.0								
17	01	01	1	14	62.5	0.198	1.284	0.005	1194.	211.	-10.9	0.02	0.54
0.21	2.49	291.	7.9	288.1	2.0								
17	01	01	1	15	42.3	0.319	1.138	0.005	1231.	433.	-67.8	0.02	0.54
0.25	4.65	247.	7.9	286.4	2.0								
17	01	01	1	16	1.0	0.222	0.331	0.005	1232.	256.	-941.4	0.02	0.54
0.34	3.40	241.	7.9	286.4	2.0								
17	01	01	1	17	-14.2	0.170	-9.000	-9.000	-999.	170.	31.9	0.02	0.54
0.61	2.69	233.	7.9	285.9	2.0								
17	01	01	1	18	-16.2	0.167	-9.000	-9.000	-999.	164.	30.6	0.02	0.54
1.00	2.74	250.	7.9	285.3	2.0								
17	01	01	1	19	-25.0	0.257	-9.000	-9.000	-999.	312.	72.6	0.02	0.54
1.00	4.14	243.	7.9	284.8	2.0								
17	01	01	1	20	-22.6	0.232	-9.000	-9.000	-999.	269.	59.3	0.02	0.54
1.00	3.63	226.	7.9	284.8	2.0								
17	01	01	1	21	-14.9	0.156	-9.000	-9.000	-999.	149.	26.7	0.03	0.54
1.00	2.28	151.	7.9	284.2	2.0								
17	01	01	1	22	-15.7	0.169	-9.000	-9.000	-999.	167.	31.5	0.14	0.54
1.00	1.81	14.	7.9	283.8	2.0								
17	01	01	1	23	-7.9	0.117	-9.000	-9.000	-999.	97.	18.1	0.11	0.54
1.00	1.37	358.	7.9	283.8	2.0								
17	01	01	1	24	-7.7	0.108	-9.000	-9.000	-999.	85.	14.6	0.02	0.54
1.00	1.77	94.	7.9	282.5	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
17	01	01	01	7.9	1	261.	2.86	279.3	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***

*** 12:32:57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436849.50	3766465.00	10.07904	436849.50
3766485.00	11.14363		
436849.50	3766505.00	12.28237	436849.50
3766525.00	13.50091		
436849.50	3766545.00	14.76021	436849.50
3766565.00	16.00246		
436849.50	3766585.00	17.16911	436849.50
3766605.00	18.12862		
436849.50	3766625.00	18.73927	436849.50
3766645.00	18.91701		
436849.50	3766665.00	18.62974	436849.50
3766685.00	17.95047		
436849.50	3766705.00	16.89869	436849.50
3766725.00	15.61411		
436849.50	3766745.00	14.23187	436849.50
3766765.00	12.88780		
436849.50	3766785.00	11.63215	436849.50
3766805.00	10.48757		
436849.50	3766825.00	9.46447	436849.50
3766845.00	8.55887		
436849.50	3766865.00	7.75910	436869.50
3766465.00	10.91026		
436869.50	3766485.00	12.23208	436869.50
3766505.00	13.67316		
436869.50	3766525.00	15.27133	436869.50

3766545.00	16.99750		
436869.50	3766565.00	18.79227	436869.50
3766585.00	20.53577		
436869.50	3766725.00	18.39995	436869.50
3766745.00	16.46182		
436869.50	3766765.00	14.65302	436869.50
3766785.00	13.02593		
436869.50	3766805.00	11.59191	436869.50
3766825.00	10.34492		
436869.50	3766845.00	9.26549	436869.50
3766865.00	8.32965		
436889.50	3766465.00	11.80265	436889.50
3766485.00	13.42478		
436889.50	3766545.00	19.71929	436889.50
3766565.00	22.35621		
436889.50	3766585.00	25.06985	436889.50
3766725.00	22.00178		
436889.50	3766745.00	19.20743	436889.50
3766765.00	16.73547		
436889.50	3766785.00	14.61279	436889.50
3766805.00	12.81318		
436889.50	3766825.00	11.29537	436889.50
3766845.00	10.01312		
436889.50	3766865.00	8.92205	436909.50
3766465.00	12.70868		
436909.50	3766485.00	14.64883	436909.50
3766725.00	26.70901		
436909.50	3766745.00	22.57849	436909.50
3766765.00	19.16446		
436909.50	3766785.00	16.38704	436909.50
3766805.00	14.13273		
436909.50	3766825.00	12.29363	436909.50
3766845.00	10.78042		
436909.50	3766865.00	9.52068	436929.50
3766465.00	13.48105		
436929.50	3766485.00	15.71484	436929.50
3766725.00	32.89166		
436929.50	3766745.00	26.63370	436929.50
3766765.00	21.91130		
436929.50	3766785.00	18.30954	436929.50
3766805.00	15.51564		
436929.50	3766825.00	13.31258	436929.50
3766845.00	11.54652		
436929.50	3766865.00	10.11037	436949.50
3766465.00	14.14497		
436949.50	3766485.00	16.66596	436949.50
3766725.00	40.70151		
436949.50	3766745.00	31.26158	436949.50
3766765.00	24.86612		
436949.50	3766785.00	20.29178	436949.50

3766805.00	16.90361			
436949.50	3766825.00	14.31498		436949.50
3766845.00	12.28846			
436949.50	3766865.00	10.67494		436969.50
3766725.00	49.38970			

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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436969.50	3766745.00	36.06831	436969.50
3766765.00	27.81135		
436969.50	3766785.00	22.20805	436969.50
3766805.00	18.22587		
436969.50	3766825.00	15.25918	436969.50
3766845.00	12.98031		
436969.50	3766865.00	11.19552	436989.50
3766725.00	57.68009		
436989.50	3766745.00	40.58679	436989.50
3766765.00	30.53219		
436989.50	3766785.00	23.93362	436989.50
3766805.00	19.41456		
436989.50	3766825.00	16.10678	436989.50
3766845.00	13.59885		
436989.50	3766865.00	11.65349	437009.50
3766785.00	25.46371		

437009.50	3766805.00	20.40450	437009.50
3766825.00	16.78854		
437009.50	3766845.00	14.10533	437009.50
3766865.00	12.02723		
437029.50	3766785.00	26.73793	437029.50
3766805.00	21.21663		
437029.50	3766825.00	17.33069	437029.50
3766845.00	14.48448		
437029.50	3766865.00	12.30607	437049.50
3766785.00	27.73110		
437049.50	3766805.00	21.79550	437049.50
3766825.00	17.67921		
437049.50	3766845.00	14.70181	437049.50
3766865.00	12.47747		
437069.50	3766785.00	28.41083	437069.50
3766805.00	22.14445		
437069.50	3766825.00	17.84671	437069.50
3766845.00	14.69694		
437069.50	3766865.00	12.55169	437089.50
3766785.00	28.76077		
437089.50	3766805.00	22.40719	437089.50
3766825.00	18.03244		
437089.50	3766845.00	14.88969	437089.50
3766865.00	12.59409		
437109.50	3766785.00	28.72581	437109.50
3766805.00	22.42582		
437109.50	3766825.00	18.05652	437109.50
3766845.00	14.90514		
437109.50	3766865.00	12.57196	437129.50
3766785.00	28.34748		
437129.50	3766805.00	22.23159	437129.50
3766825.00	17.93748		
437129.50	3766845.00	14.82024	437129.50
3766865.00	12.49248		
437149.50	3766785.00	27.70295	437149.50
3766805.00	21.87710		
437149.50	3766825.00	17.71612	437149.50
3766845.00	14.66627		
437149.50	3766865.00	12.37287	437169.50
3766785.00	26.87895		
437169.50	3766805.00	21.41575	437169.50
3766825.00	17.43344		
437169.50	3766845.00	14.47366	437169.50
3766865.00	12.23003		
437189.50	3766465.00	11.67967	437189.50
3766485.00	13.66386		
437189.50	3766505.00	16.27449	437189.50
3766525.00	19.79458		
437189.50	3766545.00	24.64142	437189.50
3766565.00	31.44262		

437189.50	3766585.00	40.97730	437189.50
3766605.00	53.60133		
437189.50	3766625.00	67.76662	437189.50
3766645.00	79.00996		
437189.50	3766665.00	83.34547	437189.50
3766685.00	79.51368		
437189.50	3766705.00	68.33495	437189.50
3766725.00	54.33471		
437189.50	3766745.00	42.08508	437189.50
3766765.00	32.78585		
437189.50	3766785.00	25.93954	437189.50
3766805.00	20.88172		
437189.50	3766825.00	17.10827	437189.50
3766845.00	14.25616		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437189.50	3766865.00	12.07062	437209.50
3766465.00	11.05600		
437209.50	3766485.00	12.87699	437209.50
3766505.00	15.24438		
437209.50	3766525.00	18.37861	437209.50
3766545.00	22.58632		
437209.50	3766565.00	28.25695	437209.50

3766585.00	35.69709		
437209.50	3766605.00	44.75514	437209.50
3766625.00	54.26467		
437209.50	3766645.00	61.94935	437209.50
3766665.00	65.42389		
437209.50	3766685.00	63.54426	437209.50
3766705.00	56.86006		
437209.50	3766725.00	47.69559	437209.50
3766745.00	38.58420		
437209.50	3766765.00	30.91499	437209.50
3766785.00	24.90053		
437209.50	3766805.00	20.28168	437209.50
3766825.00	16.74347		
437209.50	3766845.00	14.01886	437209.50
3766865.00	11.90263		
437229.50	3766465.00	10.47838	437229.50
3766485.00	12.15988		
437229.50	3766505.00	14.32279	437229.50
3766525.00	17.13212		
437229.50	3766545.00	20.80268	437229.50
3766565.00	25.54111		
437229.50	3766585.00	31.40028	437229.50
3766605.00	38.08869		
437229.50	3766625.00	44.77913	437229.50
3766645.00	50.13875		
437229.50	3766665.00	52.76710	437229.50
3766685.00	51.91378		
437229.50	3766705.00	47.80215	437229.50
3766725.00	41.69236		
437229.50	3766745.00	35.03969	437229.50
3766765.00	28.90593		
437229.50	3766785.00	23.75160	437229.50
3766805.00	19.60892		
437229.50	3766825.00	16.33449	437229.50
3766845.00	13.75712		
437229.50	3766865.00	11.72325	437249.50
3766465.00	9.95182		
437249.50	3766485.00	11.51157	437249.50
3766505.00	13.49404		
437249.50	3766525.00	16.01936	437249.50
3766545.00	19.22039		
437249.50	3766565.00	23.18403	437249.50
3766585.00	27.84390		
437249.50	3766605.00	32.90583	437249.50
3766625.00	37.76391		
437249.50	3766645.00	41.58553	437249.50
3766665.00	43.55137		
437249.50	3766685.00	43.19235	437249.50
3766705.00	40.60592		
437249.50	3766725.00	36.46529	437249.50

3766745.00	31.62245			
	437249.50	3766765.00	26.81517	437249.50
3766785.00	22.50228			
	437249.50	3766805.00	18.85826	437249.50
3766825.00	15.87468			
	437249.50	3766845.00	13.46533	437249.50
3766865.00	11.52800			
	436849.50	3766915.00	6.15042	436849.50
3766965.00	4.97650			
	436849.50	3767015.00	4.09866	436849.50
3767065.00	3.39754			
	436849.50	3767115.00	2.52175	436849.50
3767165.00	2.04599			
	436899.50	3766915.00	7.01014	436899.50
3766965.00	5.51069			
	436899.50	3767015.00	4.44083	436899.50
3767065.00	3.55889			
	436899.50	3767115.00	2.65145	436899.50
3767165.00	2.12869			
	436949.50	3766915.00	7.81050	436949.50
3766965.00	5.98350			
	436949.50	3767015.00	4.65575	436949.50
3767065.00	3.58071			

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

	436949.50	3767115.00	2.78549	436949.50
3767165.00	2.22486			
	436999.50	3766915.00	8.42357	436999.50
3766965.00	6.33508			
	436999.50	3767015.00	4.41650	436999.50
3767065.00	3.42395			
	436999.50	3767115.00	2.79816	436999.50
3767165.00	2.30538			
	437049.50	3766915.00	8.74311	437049.50
3766965.00	6.50935			
	437049.50	3767015.00	4.38794	437049.50
3767065.00	3.44449			
	437049.50	3767115.00	2.79055	437049.50
3767165.00	2.31531			
	437099.50	3766915.00	8.77111	437099.50
3766965.00	6.52227			
	437099.50	3767015.00	4.51862	437099.50
3767065.00	3.51260			
	437099.50	3767115.00	2.82661	437099.50
3767165.00	2.32909			
	437149.50	3766915.00	8.61670	437149.50
3766965.00	6.40409			
	437149.50	3767015.00	4.70469	437149.50
3767065.00	3.55419			
	437149.50	3767115.00	2.82445	437149.50
3767165.00	2.32606			
	437199.50	3766915.00	8.38578	437199.50
3766965.00	6.24567			
	437199.50	3767015.00	4.77481	437199.50
3767065.00	3.55467			
	437199.50	3767115.00	2.79930	437199.50
3767165.00	2.31914			
	437249.50	3766915.00	8.15080	437249.50
3766965.00	6.05056			
	437249.50	3767015.00	4.60860	437249.50
3767065.00	3.54890			
	437249.50	3767115.00	2.82816	437249.50
3767165.00	2.32869			
	437299.50	3766915.00	7.90345	437299.50
3766965.00	5.94218			
	437299.50	3767015.00	4.60996	437299.50
3767065.00	3.59230			
	437299.50	3767115.00	2.83931	437299.50
3767165.00	2.33868			
	437349.50	3766915.00	7.59000	437349.50
3766965.00	5.76090			
	437349.50	3767015.00	4.50053	437349.50
3767065.00	3.56841			

437349.50	3767115.00	2.86365	437349.50
3767165.00	2.36175		
437399.50	3766915.00	7.18391	437399.50
3766965.00	5.57309		
437399.50	3767015.00	4.38855	437399.50
3767065.00	3.49461		
437399.50	3767115.00	2.83380	437399.50
3767165.00	2.35998		
437449.50	3766915.00	6.72097	437449.50
3766965.00	5.35107		
437449.50	3767015.00	4.27287	437449.50
3767065.00	3.45195		
437449.50	3767115.00	2.81741	437449.50
3767165.00	2.35151		
437499.50	3766915.00	6.22222	437499.50
3766965.00	5.10072		
437499.50	3767015.00	4.15301	437499.50
3767065.00	3.39279		
437499.50	3767115.00	2.78717	437499.50
3767165.00	2.32713		
437549.50	3766915.00	5.72100	437549.50
3766965.00	4.82876		
437549.50	3767015.00	4.00213	437549.50
3767065.00	3.30874		
437549.50	3767115.00	2.74733	437549.50
3767165.00	2.30843		
437299.50	3766865.00	10.94609	437299.50
3766815.00	15.57339		
437299.50	3766765.00	21.73579	437299.50
3766715.00	27.44744		
437299.50	3766665.00	29.05773	437299.50
3766615.00	25.09118		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437299.50	3766565.00	18.41259	437299.50
3766515.00	12.61607		
437299.50	3766465.00	8.82327	437299.50
3766415.00	6.53110		
437299.50	3766365.00	5.10356	437299.50
3766315.00	4.15017		
437299.50	3766265.00	3.46596	437299.50
3766215.00	2.94401		
437299.50	3766165.00	2.53837	437349.50
3766865.00	10.18132		
437349.50	3766815.00	13.62099	437349.50
3766765.00	17.42300		
437349.50	3766715.00	20.34969	437349.50
3766665.00	20.96823		
437349.50	3766615.00	18.79802	437349.50
3766565.00	14.86899		
437349.50	3766515.00	10.91048	437349.50
3766465.00	7.92575		
437349.50	3766415.00	5.94600	437349.50
3766365.00	4.66264		
437349.50	3766315.00	3.80656	437349.50
3766265.00	3.19980		
437349.50	3766215.00	2.74288	437349.50
3766165.00	2.38340		
437399.50	3766865.00	9.28141	437399.50
3766815.00	11.73912		
437399.50	3766765.00	14.10274	437399.50
3766715.00	15.70881		
437399.50	3766665.00	15.95485	437399.50
3766615.00	14.64371		
437399.50	3766565.00	12.21448	437399.50
3766515.00	9.47244		
437399.50	3766465.00	7.17331	437399.50
3766415.00	5.48190		
437399.50	3766365.00	4.31234	437399.50
3766315.00	3.51898		
437399.50	3766265.00	2.96264	437399.50
3766215.00	2.55296		
437399.50	3766165.00	2.22983	437449.50

3766865.00	8.34254		
437449.50	3766815.00	10.04981	437449.50
3766765.00	11.54965		
437449.50	3766715.00	12.50010	437449.50
3766665.00	12.61000		
437449.50	3766615.00	11.76856	437449.50
3766565.00	10.17775		
437449.50	3766515.00	8.24824	437449.50
3766465.00	6.47891		
437449.50	3766415.00	5.06995	437449.50
3766365.00	4.02052		
437449.50	3766315.00	3.28307	437449.50
3766265.00	2.76081		
437449.50	3766215.00	2.37870	437449.50
3766165.00	2.08688		
437499.50	3766865.00	7.43339	437499.50
3766815.00	8.62235		
437499.50	3766765.00	9.59634	437499.50
3766715.00	10.19449		
437499.50	3766665.00	10.25655	437499.50
3766615.00	9.69076		
437499.50	3766565.00	8.60551	437499.50
3766515.00	7.24538		
437499.50	3766465.00	5.87818	437499.50
3766415.00	4.70451		
437499.50	3766365.00	3.78051	437499.50
3766315.00	3.09770		
437499.50	3766265.00	2.59808	437499.50
3766215.00	2.23272		
437499.50	3766165.00	1.95760	437549.50
3766865.00	6.60679		
437549.50	3766815.00	7.44983	437549.50
3766765.00	8.12096		
437549.50	3766715.00	8.51679	437549.50
3766665.00	8.53917		
437549.50	3766615.00	8.13887	437549.50
3766565.00	7.37011		
437549.50	3766515.00	6.37527	437549.50
3766465.00	5.32513		
437549.50	3766415.00	4.36047	437549.50
3766365.00	3.55720		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: COST

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
3766265.00	437549.50	3766315.00	2.93157	437549.50
3766165.00	437549.50	3766215.00	2.10929	437549.50
3766365.00	437249.50	3766415.00	7.28755	437249.50
3766265.00	437249.50	3766315.00	4.54238	437249.50
3766165.00	437249.50	3766215.00	3.15373	437249.50
3766365.00	437199.50	3766415.00	8.17534	437199.50
3766265.00	437199.50	3766315.00	4.93990	437199.50
3766165.00	437199.50	3766215.00	3.34000	437199.50
3766365.00	437149.50	3766415.00	9.07720	437149.50
3766265.00	437149.50	3766315.00	5.27652	437149.50
3766165.00	437149.50	3766215.00	3.48733	437149.50
3766365.00	437099.50	3766415.00	9.81801	437099.50
3766265.00	437099.50	3766315.00	5.50760	437099.50
3766165.00	437099.50	3766215.00	3.57385	437099.50
3766365.00	437049.50	3766415.00	10.18570	437049.50
3766265.00	437049.50	3766315.00	7.36374	437049.50

437049.50	3766315.00	5.60575	437049.50
3766265.00	4.42530		
437049.50	3766215.00	3.59891	437049.50
3766165.00	2.99604		
436999.50	3766415.00	10.20595	436999.50
3766365.00	7.33889		
436999.50	3766315.00	5.57503	436999.50
3766265.00	4.39559		
436999.50	3766215.00	3.57577	436999.50
3766165.00	2.97634		
436949.50	3766415.00	9.78855	436949.50
3766365.00	7.12451		
436949.50	3766315.00	5.44512	436949.50
3766265.00	4.31118		
436949.50	3766215.00	3.51788	436949.50
3766165.00	2.93280		
436899.50	3766415.00	8.85727	436899.50
3766365.00	6.69205		
436899.50	3766315.00	5.22079	436899.50
3766265.00	4.18397		
436899.50	3766215.00	3.43805	436899.50
3766165.00	2.88077		
436849.50	3766415.00	7.83518	436849.50
3766365.00	6.18291		
436849.50	3766315.00	4.95919	436849.50
3766265.00	4.05111		
436849.50	3766215.00	3.35268	436849.50
3766165.00	2.82500		
436799.50	3766415.00	6.83753	436799.50
3766365.00	5.63856		
436799.50	3766315.00	4.66163	436799.50
3766265.00	3.88100		
436799.50	3766215.00	3.25031	436799.50
3766165.00	2.75893		
436749.50	3766415.00	5.88273	436749.50
3766365.00	5.03524		
436749.50	3766315.00	4.29013	436749.50
3766265.00	3.64760		
436749.50	3766215.00	3.10720	436749.50
3766165.00	2.66992		
436699.50	3766415.00	4.97473	436699.50
3766365.00	4.39321		
436699.50	3766315.00	3.83896	436699.50
3766265.00	3.36051		
436699.50	3766215.00	2.92147	436699.50
3766165.00	2.55067		
436649.50	3766415.00	4.21566	436649.50
3766365.00	3.81525		
436649.50	3766315.00	3.41226	436649.50
3766265.00	3.05697		

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436649.50	3766215.00	2.71264	436649.50
3766165.00	2.40745		
436599.50	3766415.00	3.59365	436599.50
3766365.00	3.31068		
436599.50	3766315.00	3.02459	436599.50
3766265.00	2.75940		
436599.50	3766215.00	2.49811	436599.50
3766165.00	2.25420		
436549.50	3766415.00	3.09382	436549.50
3766365.00	2.88978		
436549.50	3766315.00	2.67810	436549.50
3766265.00	2.46925		
436549.50	3766215.00	2.26672	436549.50
3766165.00	2.07331		
436799.50	3766465.00	8.27214	436799.50
3766515.00	9.83470		
436799.50	3766565.00	11.30276	436799.50
3766615.00	12.25445		
436799.50	3766665.00	12.22987	436799.50
3766715.00	11.21530		
436799.50	3766765.00	9.58050	436799.50

3766815.00	7.90856		
436799.50	3766865.00	6.47523	436799.50
3766915.00	5.32889		
436799.50	3766965.00	4.43302	436799.50
3767015.00	3.72747		
436799.50	3767065.00	3.04310	436799.50
3767115.00	2.37869		
436799.50	3767165.00	1.96359	436749.50
3766465.00	6.78787		
436749.50	3766515.00	7.68528	436749.50
3766565.00	8.43870		
436749.50	3766615.00	8.85806	436749.50
3766665.00	8.80564		
436749.50	3766715.00	8.26153	436749.50
3766765.00	7.37091		
436749.50	3766815.00	6.36717	436749.50
3766865.00	5.41813		
436749.50	3766915.00	4.59785	436749.50
3766965.00	3.91815		
436749.50	3767015.00	3.36177	436749.50
3767065.00	2.78963		
436749.50	3767115.00	2.21374	436749.50
3767165.00	1.86400		
436699.50	3766465.00	5.56916	436699.50
3766515.00	6.11866		
436699.50	3766565.00	6.54959	436699.50
3766615.00	6.77034		
436699.50	3766665.00	6.70780	436699.50
3766715.00	6.38934		
436699.50	3766765.00	5.85054	436699.50
3766815.00	5.21219		
436699.50	3766865.00	4.56747	436699.50
3766915.00	3.97012		
436699.50	3766965.00	3.45529	436699.50
3767015.00	3.01527		
436699.50	3767065.00	2.54593	436699.50
3767115.00	2.03114		
436699.50	3767165.00	1.75843	436649.50
3766465.00	4.61902		
436649.50	3766515.00	4.97351	436649.50
3766565.00	5.23249		
436649.50	3766615.00	5.35939	436649.50
3766665.00	5.30372		
436649.50	3766715.00	5.10105	436649.50
3766765.00	4.75720		
436649.50	3766815.00	4.33661	436649.50
3766865.00	3.88599		
436649.50	3766915.00	3.44794	436649.50
3766965.00	3.05433		
436649.50	3767015.00	2.57593	436649.50

3767065.00	2.15829		
436649.50	3767115.00	1.84919	436649.50
3767165.00	1.60863		
436599.50	3766465.00	3.85766	436599.50
3766515.00	4.10146		
436599.50	3766565.00	4.27299	436599.50
3766615.00	4.35070		
436599.50	3766665.00	4.31694	436599.50
3766715.00	4.18027		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436599.50	3766765.00	3.95077	436599.50
3766815.00	3.65952		
436599.50	3766865.00	3.33931	436599.50
3766915.00	3.01583		
436599.50	3766965.00	2.71172	436599.50
3767015.00	2.35576		
436599.50	3767065.00	1.97717	436599.50
3767115.00	1.72162		
436599.50	3767165.00	1.52560	436549.50
3766465.00	3.28607		
436549.50	3766515.00	3.45347	436549.50
3766565.00	3.56743		

436549.50	3766615.00	3.61479	436549.50
3766665.00	3.59020		
436549.50	3766715.00	3.49650	436549.50
3766765.00	3.33730		
436549.50	3766815.00	3.13300	436549.50
3766865.00	2.90045		
436549.50	3766915.00	2.65775	436549.50
3766965.00	2.42192		
436549.50	3767015.00	2.20242	436549.50
3767065.00	2.00202		
436549.50	3767115.00	1.80935	436549.50
3767165.00	1.54978		
436549.50	3767265.00	1.20203	436549.50
3767365.00	0.96679		
436549.50	3767465.00	0.80418	436549.50
3767565.00	0.66950		
436549.50	3767665.00	0.56627	436649.50
3767265.00	1.28477		
436649.50	3767365.00	1.01809	436649.50
3767465.00	0.83030		
436649.50	3767565.00	0.68620	436649.50
3767665.00	0.58119		
436749.50	3767265.00	1.40196	436749.50
3767365.00	1.09271		
436749.50	3767465.00	0.87892	436749.50
3767565.00	0.72090		
436749.50	3767665.00	0.59885	436849.50
3767265.00	1.50553		
436849.50	3767365.00	1.17872	436849.50
3767465.00	0.93691		
436849.50	3767565.00	0.75150	436849.50
3767665.00	0.62566		
436949.50	3767265.00	1.62645	436949.50
3767365.00	1.25374		
436949.50	3767465.00	0.98269	436949.50
3767565.00	0.76660		
436949.50	3767665.00	0.63492	437049.50
3767265.00	1.69255		
437049.50	3767365.00	1.28664	437049.50
3767465.00	0.99562		
437049.50	3767565.00	0.77741	437049.50
3767665.00	0.63680		
437149.50	3767265.00	1.66455	437149.50
3767365.00	1.26019		
437149.50	3767465.00	0.98480	437149.50
3767565.00	0.79306		
437149.50	3767665.00	0.65085	437249.50
3767265.00	1.67196		
437249.50	3767365.00	1.25171	437249.50
3767465.00	0.97640		

437249.50	3767565.00	0.78867	437249.50
3767665.00	0.65901		
437349.50	3767265.00	1.69573	437349.50
3767365.00	1.27485		
437349.50	3767465.00	0.99799	437349.50
3767565.00	0.79995		
437349.50	3767665.00	0.65545	437449.50
3767265.00	1.68750		
437449.50	3767365.00	1.26529	437449.50
3767465.00	0.99446		
437449.50	3767565.00	0.79174	437449.50
3767665.00	0.65027		
437549.50	3767265.00	1.68275	437549.50
3767365.00	1.26957		
437549.50	3767465.00	0.99149	437549.50
3767565.00	0.79471		
437549.50	3767665.00	0.65147	437649.50
3767265.00	1.67380		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437649.50	3767365.00	1.27793	437649.50
3767465.00	1.00389		
437649.50	3767565.00	0.80653	437649.50

3767665.00	0.66122		
437749.50	3767265.00	1.65439	437749.50
3767365.00	1.27426		
437749.50	3767465.00	1.00375	437749.50
3767565.00	0.81242		
437749.50	3767665.00	0.66740	437849.50
3767265.00	1.60263		
437849.50	3767365.00	1.26539	437849.50
3767465.00	1.01114		
437849.50	3767565.00	0.81834	437849.50
3767665.00	0.67817		
437949.50	3767265.00	1.55726	437949.50
3767365.00	1.24603		
437949.50	3767465.00	1.00549	437949.50
3767565.00	0.82335		
437949.50	3767665.00	0.68413	438049.50
3767265.00	1.48001		
438049.50	3767365.00	1.21206	438049.50
3767465.00	0.99860		
438049.50	3767565.00	0.82594	438049.50
3767665.00	0.69025		
437649.50	3767165.00	2.25265	437649.50
3767065.00	3.13332		
437649.50	3766965.00	4.22799	437649.50
3766865.00	5.28992		
437649.50	3766765.00	6.03688	437649.50
3766665.00	6.23792		
437649.50	3766565.00	5.59286	437649.50
3766465.00	4.37018		
437649.50	3766365.00	3.14373	437649.50
3766265.00	2.23962		
437649.50	3766165.00	1.67365	437649.50
3766065.00	1.33058		
437649.50	3765965.00	1.11065	437649.50
3765865.00	0.95000		
437649.50	3765765.00	0.82527	437649.50
3765665.00	0.72196		
437749.50	3767165.00	2.18149	437749.50
3767065.00	2.86486		
437749.50	3766965.00	3.63494	437749.50
3766865.00	4.31994		
437749.50	3766765.00	4.67283	437749.50
3766665.00	4.78412		
437749.50	3766565.00	4.40041	437749.50
3766465.00	3.62710		
437749.50	3766365.00	2.77540	437749.50
3766265.00	2.05987		
437749.50	3766165.00	1.54903	437749.50
3766065.00	1.22328		
437749.50	3765965.00	1.01494	437749.50

3765865.00	0.87098		
437749.50	3765765.00	0.76183	437749.50
3765665.00	0.67294		
437849.50	3767165.00	2.05884	437849.50
3767065.00	2.58486		
437849.50	3766965.00	3.11391	437849.50
3766865.00	3.52947		
437849.50	3766765.00	3.74414	437849.50
3766665.00	3.81288		
437849.50	3766565.00	3.56188	437849.50
3766465.00	3.06015		
437849.50	3766365.00	2.45443	437849.50
3766265.00	1.89058		
437849.50	3766165.00	1.45091	437849.50
3766065.00	1.14426		
437849.50	3765965.00	0.94068	437849.50
3765865.00	0.80270		
437849.50	3765765.00	0.70423	437849.50
3765665.00	0.62501		
437949.50	3767165.00	1.92764	437949.50
3767065.00	2.32091		
437949.50	3766965.00	2.67158	437949.50
3766865.00	2.88374		
437949.50	3766765.00	3.08107	437949.50
3766665.00	3.11850		
437949.50	3766565.00	2.95170	437949.50
3766465.00	2.60837		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437949.50	3766365.00	2.17300	437949.50
3766265.00	1.73720		
437949.50	3766165.00	1.36639	437949.50
3766065.00	1.08368		
437949.50	3765965.00	0.88530	437949.50
3765865.00	0.74899		
437949.50	3765765.00	0.65412	437949.50
3765665.00	0.58258		
438049.50	3767165.00	1.77317	438049.50
3767065.00	2.06429		
438049.50	3766965.00	2.31876	438049.50
3766865.00	2.46293		
438049.50	3766765.00	2.58143	438049.50
3766665.00	2.60737		
438049.50	3766565.00	2.49036	438049.50
3766465.00	2.24678		
438049.50	3766365.00	1.92774	438049.50
3766265.00	1.58966		
438049.50	3766165.00	1.28155	438049.50
3766065.00	1.03124		
438049.50	3765965.00	0.84338	438049.50
3765865.00	0.70858		
438049.50	3765765.00	0.61555	438049.50
3765665.00	0.54739		
437549.50	3766065.00	1.47426	437549.50
3765965.00	1.22478		
437549.50	3765865.00	1.03782	437549.50
3765765.00	0.88954		
437549.50	3765665.00	0.77058	437449.50
3766065.00	1.65685		
437449.50	3765965.00	1.35262	437449.50
3765865.00	1.12820		
437449.50	3765765.00	0.95276	437449.50
3765665.00	0.81543		
437349.50	3766065.00	1.84991	437349.50
3765965.00	1.48114		
437349.50	3765865.00	1.21498	437349.50
3765765.00	1.01260		
437349.50	3765665.00	0.85594	437249.50
3766065.00	2.02888		
437249.50	3765965.00	1.58788	437249.50
3765865.00	1.28198		
437249.50	3765765.00	1.05624	437249.50
3765665.00	0.88517		

437149.50	3766065.00	2.15072	437149.50
3765965.00	1.65741		
437149.50	3765865.00	1.32129	437149.50
3765765.00	1.07914		
437149.50	3765665.00	0.90230	437049.50
3766065.00	2.18517		
437049.50	3765965.00	1.67553	437049.50
3765865.00	1.33159		
437049.50	3765765.00	1.08536	437049.50
3765665.00	0.90556		
436949.50	3766065.00	2.14566	436949.50
3765965.00	1.63827		
436949.50	3765865.00	1.31263	436949.50
3765765.00	1.07137		
436949.50	3765665.00	0.89409	436849.50
3766065.00	2.07581		
436849.50	3765965.00	1.59374	436849.50
3765865.00	1.28144		
436849.50	3765765.00	1.04626	436849.50
3765665.00	0.87324		
436749.50	3766065.00	2.00502	436749.50
3765965.00	1.54415		
436749.50	3765865.00	1.24830	436749.50
3765765.00	1.01624		
436749.50	3765665.00	0.84989	436649.50
3766065.00	1.88660		
436649.50	3765965.00	1.49566	436649.50
3765865.00	1.21534		
436649.50	3765765.00	0.98779	436649.50
3765665.00	0.83041		
436549.50	3766065.00	1.71603	436549.50
3765965.00	1.40907		
436549.50	3765865.00	1.17044	436549.50
3765765.00	0.95676		
436549.50	3765665.00	0.81257	436449.50
3766065.00	1.51636		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

```

, L0000019      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000020      , L0000020      , L0000021      ,
, L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436449.50	3765965.00	1.29603	436449.50
3765865.00	1.10632		
436449.50	3765765.00	0.92842	436449.50
3765665.00	0.79498		
436349.50	3766065.00	1.32105	436349.50
3765965.00	1.16733		
436349.50	3765865.00	1.02438	436349.50
3765765.00	0.88869		
436349.50	3765665.00	0.77327	436249.50
3766065.00	1.14605		
436249.50	3765965.00	1.03553	436249.50
3765865.00	0.93103		
436249.50	3765765.00	0.81869	436249.50
3765665.00	0.72587		
436149.50	3766065.00	0.99763	436149.50
3765965.00	0.91559		
436149.50	3765865.00	0.83631	436149.50
3765765.00	0.74772		
436149.50	3765665.00	0.67763	436049.50
3766065.00	0.87523		
436049.50	3765965.00	0.81457	436049.50
3765865.00	0.75295		
436049.50	3765765.00	0.68562	436049.50
3765665.00	0.63031		
436449.50	3766165.00	1.75349	436449.50
3766265.00	2.00165		
436449.50	3766365.00	2.25223	436449.50
3766465.00	2.47347		
436449.50	3766565.00	2.61614	436449.50
3766665.00	2.61091		
436449.50	3766765.00	2.47822	436449.50
3766865.00	2.24195		
436449.50	3766965.00	1.95329	436449.50
3767065.00	1.67179		
436449.50	3767165.00	1.36807	436449.50

3767265.00	1.07821		
436449.50	3767365.00	0.89878	436449.50
3767465.00	0.74681		
436449.50	3767565.00	0.63866	436449.50
3767665.00	0.53933		
436349.50	3766165.00	1.48141	436349.50
3766265.00	1.64471		
436349.50	3766365.00	1.80163	436349.50
3766465.00	1.93056		
436349.50	3766565.00	2.00274	436349.50
3766665.00	2.00005		
436349.50	3766765.00	1.92199	436349.50
3766865.00	1.78339		
436349.50	3766965.00	1.60269	436349.50
3767065.00	1.41060		
436349.50	3767165.00	1.22820	436349.50
3767265.00	0.96482		
436349.50	3767365.00	0.81228	436349.50
3767465.00	0.69564		
436349.50	3767565.00	0.59819	436349.50
3767665.00	0.51672		
436249.50	3766165.00	1.25730	436249.50
3766265.00	1.37284		
436249.50	3766365.00	1.47748	436249.50
3766465.00	1.55355		
436249.50	3766565.00	1.59249	436249.50
3766665.00	1.59053		
436249.50	3766765.00	1.53961	436249.50
3766865.00	1.45464		
436249.50	3766965.00	1.33641	436249.50
3767065.00	1.20320		
436249.50	3767165.00	1.07174	436249.50
3767265.00	0.87993		
436249.50	3767365.00	0.73658	436249.50
3767465.00	0.64914		
436249.50	3767565.00	0.56497	436249.50
3767665.00	0.49257		
436149.50	3766165.00	1.07996	436149.50
3766265.00	1.15918		
436149.50	3766365.00	1.23315	436149.50
3766465.00	1.28241		
436149.50	3766565.00	1.30868	436149.50
3766665.00	1.30340		
436149.50	3766765.00	1.26887	436149.50
3766865.00	1.21120		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
 *** AERMET - VERSION 22112 *** ***
 *** 12:32:57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436149.50	3766965.00	1.13084	436149.50
3767065.00	1.03654		
436149.50	3767165.00	0.93888	436149.50
3767265.00	0.79334		
436149.50	3767365.00	0.66935	436149.50
3767465.00	0.59151		
436149.50	3767565.00	0.52177	436149.50
3767665.00	0.45660		
436049.50	3766165.00	0.93734	436049.50
3766265.00	0.99343		
436049.50	3766365.00	1.04534	436049.50
3766465.00	1.07835		
436049.50	3766565.00	1.09520	436049.50
3766665.00	1.08897		
436049.50	3766765.00	1.06519	436049.50
3766865.00	1.02472		
436049.50	3766965.00	0.96942	436049.50
3767065.00	0.90130		
436049.50	3767165.00	0.82787	436049.50
3767265.00	0.71345		
436049.50	3767365.00	0.59722	436049.50
3767465.00	0.53062		
436049.50	3767565.00	0.47220	436049.50
3767665.00	0.42527		
436049.50	3767865.00	0.34140	436049.50
3768065.00	0.27836		

436049.50	3768265.00	0.22738	436049.50
3768465.00	0.18809		
436049.50	3768665.00	0.15854	436249.50
3767865.00	0.37301		
436249.50	3768065.00	0.29551	436249.50
3768265.00	0.23973		
436249.50	3768465.00	0.19655	436249.50
3768665.00	0.16379		
436449.50	3767865.00	0.40396	436449.50
3768065.00	0.31290		
436449.50	3768265.00	0.24884	436449.50
3768465.00	0.20275		
436449.50	3768665.00	0.16753	436649.50
3767865.00	0.42559		
436649.50	3768065.00	0.32414	436649.50
3768265.00	0.25250		
436649.50	3768465.00	0.20917	436649.50
3768665.00	0.17172		
436849.50	3767865.00	0.44686	436849.50
3768065.00	0.33314		
436849.50	3768265.00	0.26237	436849.50
3768465.00	0.21253		
436849.50	3768665.00	0.17427	437049.50
3767865.00	0.46036		
437049.50	3768065.00	0.34237	437049.50
3768265.00	0.26694		
437049.50	3768465.00	0.21329	437049.50
3768665.00	0.17399		
437249.50	3767865.00	0.47143	437249.50
3768065.00	0.35334		
437249.50	3768265.00	0.27610	437249.50
3768465.00	0.22169		
437249.50	3768665.00	0.18022	437449.50
3767865.00	0.47325		
437449.50	3768065.00	0.35790	437449.50
3768265.00	0.28177		
437449.50	3768465.00	0.22593	437449.50
3768665.00	0.18626		
437649.50	3767865.00	0.46719	437649.50
3768065.00	0.35054		
437649.50	3768265.00	0.27622	437649.50
3768465.00	0.22629		
437649.50	3768665.00	0.18805	437849.50
3767865.00	0.48069		
437849.50	3768065.00	0.35535	437849.50
3768265.00	0.27401		
437849.50	3768465.00	0.22152	437849.50
3768665.00	0.18253		
438049.50	3767865.00	0.49434	438049.50
3768065.00	0.36795		

438049.50	3768265.00	0.28311	438049.50
3768465.00	0.22447		
438049.50	3768665.00	0.18210	438249.50
3767865.00	0.50020		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

438249.50	3768065.00	0.38141	438249.50
3768265.00	0.29071		
438249.50	3768465.00	0.23005	438249.50
3768665.00	0.18595		
438449.50	3767865.00	0.49551	438449.50
3768065.00	0.38007		
438449.50	3768265.00	0.29835	438449.50
3768465.00	0.23460		
438449.50	3768665.00	0.19019	438649.50
3767865.00	0.48492		
438649.50	3768065.00	0.37908	438649.50
3768265.00	0.29953		
438649.50	3768465.00	0.24081	438649.50
3768665.00	0.19364		
438849.50	3767865.00	0.46810	438849.50
3768065.00	0.37251		
438849.50	3768265.00	0.29939	438849.50

3768465.00	0.24369		
438849.50	3768665.00	0.19977	439049.50
3767865.00	0.44858		
439049.50	3768065.00	0.36365	439049.50
3768265.00	0.29532		
439049.50	3768465.00	0.24175	439049.50
3768665.00	0.20203		
438249.50	3767665.00	0.67612	438249.50
3767465.00	0.94882		
438249.50	3767265.00	1.29798	438249.50
3767065.00	1.63650		
438249.50	3766865.00	1.91019	438249.50
3766665.00	1.91668		
438249.50	3766465.00	1.72063	438249.50
3766265.00	1.32586		
438249.50	3766065.00	0.93283	438249.50
3765865.00	0.65245		
438249.50	3765665.00	0.49410	438249.50
3765465.00	0.39908		
438249.50	3765265.00	0.33995	438249.50
3765065.00	0.29293		
438249.50	3764865.00	0.25611	438249.50
3764665.00	0.22550		
438449.50	3767665.00	0.65940	438449.50
3767465.00	0.87659		
438449.50	3767265.00	1.11172	438449.50
3767065.00	1.33106		
438449.50	3766865.00	1.48361	438449.50
3766665.00	1.51649		
438449.50	3766465.00	1.36305	438449.50
3766265.00	1.11270		
438449.50	3766065.00	0.83909	438449.50
3765865.00	0.61106		
438449.50	3765665.00	0.45901	438449.50
3765465.00	0.36483		
438449.50	3765265.00	0.30836	438449.50
3765065.00	0.26853		
438449.50	3764865.00	0.23714	438449.50
3764665.00	0.21041		
438649.50	3767665.00	0.62965	438649.50
3767465.00	0.79521		
438649.50	3767265.00	0.95447	438649.50
3767065.00	1.10045		
438649.50	3766865.00	1.16239	438649.50
3766665.00	1.18476		
438649.50	3766465.00	1.10965	438649.50
3766265.00	0.94605		
438649.50	3766065.00	0.75112	438649.50
3765865.00	0.57113		
438649.50	3765665.00	0.43463	438649.50

3765465.00	0.34048		
438649.50	3765265.00	0.28408	438649.50
3765065.00	0.24641		
438649.50	3764865.00	0.21835	438649.50
3764665.00	0.19573		
438849.50	3767665.00	0.58482	438849.50
3767465.00	0.70752		
438849.50	3767265.00	0.81901	438849.50
3767065.00	0.92671		
438849.50	3766865.00	1.00522	438849.50
3766665.00	0.97365		
438849.50	3766465.00	0.92353	438849.50
3766265.00	0.81053		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
438849.50	3766065.00	0.67009	438849.50
3765865.00	0.53129		
438849.50	3765665.00	0.41273	438849.50
3765465.00	0.32402		
438849.50	3765265.00	0.26615	438849.50
3765065.00	0.22816		
438849.50	3764865.00	0.20190	438849.50
3764665.00	0.18181		

439049.50	3767665.00	0.54149	439049.50
3767465.00	0.62931		
439049.50	3767265.00	0.71404	439049.50
3767065.00	0.79360		
439049.50	3766865.00	0.85761	439049.50
3766665.00	0.81733		
439049.50	3766465.00	0.78258	439049.50
3766265.00	0.70162		
439049.50	3766065.00	0.59745	439049.50
3765865.00	0.48983		
439049.50	3765665.00	0.39249	439049.50
3765465.00	0.31143		
439049.50	3765265.00	0.25349	439049.50
3765065.00	0.21486		
439049.50	3764865.00	0.18842	439049.50
3764665.00	0.16960		
438049.50	3765465.00	0.44729	438049.50
3765265.00	0.37673		
438049.50	3765065.00	0.32057	438049.50
3764865.00	0.27655		
438049.50	3764665.00	0.24062	437849.50
3765465.00	0.50522		
437849.50	3765265.00	0.41577	437849.50
3765065.00	0.34866		
437849.50	3764865.00	0.29676	437849.50
3764665.00	0.25459		
437649.50	3765465.00	0.56606	437649.50
3765265.00	0.45503		
437649.50	3765065.00	0.37415	437649.50
3764865.00	0.31367		
437649.50	3764665.00	0.26729	437449.50
3765465.00	0.61997		
437449.50	3765265.00	0.48761	437449.50
3765065.00	0.39475		
437449.50	3764865.00	0.32707	437449.50
3764665.00	0.27635		
437249.50	3765465.00	0.65944	437249.50
3765265.00	0.50993		
437249.50	3765065.00	0.40762	437249.50
3764865.00	0.33534		
437249.50	3764665.00	0.28197	437049.50
3765465.00	0.66832		
437049.50	3765265.00	0.51443	437049.50
3765065.00	0.41104		
437049.50	3764865.00	0.33764	437049.50
3764665.00	0.28292		
436849.50	3765465.00	0.64814	436849.50
3765265.00	0.50352		
436849.50	3765065.00	0.40360	436849.50
3764865.00	0.33187		

436849.50	3764665.00	0.27874	436649.50
3765465.00	0.62233		
436649.50	3765265.00	0.48267	436649.50
3765065.00	0.38956		
436649.50	3764865.00	0.32208	436649.50
3764665.00	0.27135		
436449.50	3765465.00	0.60449	436449.50
3765265.00	0.46867		
436449.50	3765065.00	0.37639	436449.50
3764865.00	0.31119		
436449.50	3764665.00	0.26259	436249.50
3765465.00	0.57886		
436249.50	3765265.00	0.45843	436249.50
3765065.00	0.36964		
436249.50	3764865.00	0.30473	436249.50
3764665.00	0.25623		
436049.50	3765465.00	0.53078	436049.50
3765265.00	0.43878		
436049.50	3765065.00	0.36216	436049.50
3764865.00	0.30082		
436049.50	3764665.00	0.25325	435849.50
3765465.00	0.46805		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

- - - - -				
435849.50	3765265.00	0.40340		435849.50
3765065.00	0.34447			
435849.50	3764865.00	0.29341		435849.50
3764665.00	0.25030			
435649.50	3765465.00	0.40671		435649.50
3765265.00	0.36136			
435649.50	3765065.00	0.31783		435649.50
3764865.00	0.27875			
435649.50	3764665.00	0.24314		435449.50
3765465.00	0.35295			
435449.50	3765265.00	0.32028		435449.50
3765065.00	0.28939			
435449.50	3764865.00	0.25880		435449.50
3764665.00	0.23085			
435249.50	3765465.00	0.30824		435249.50
3765265.00	0.28375			
435249.50	3765065.00	0.25985		435249.50
3764865.00	0.23709			
435249.50	3764665.00	0.21498		435049.50
3765465.00	0.27166			
435049.50	3765265.00	0.25266		435049.50
3765065.00	0.23400			
435049.50	3764865.00	0.21620		435049.50
3764665.00	0.19872			
435849.50	3765665.00	0.53586		435849.50
3765865.00	0.61204			
435849.50	3766065.00	0.68701		435849.50
3766265.00	0.75484			
435849.50	3766465.00	0.79551		435849.50
3766665.00	0.80219			
435849.50	3766865.00	0.76760		435849.50
3767065.00	0.69864			
435849.50	3767265.00	0.58507		435849.50
3767465.00	0.44996			
435849.50	3767665.00	0.36834		435849.50
3767865.00	0.31004			
435849.50	3768065.00	0.26083		435849.50
3768265.00	0.21655			
435849.50	3768465.00	0.18401		435849.50
3768665.00	0.15638			
435649.50	3765665.00	0.45313		435649.50
3765865.00	0.50456			
435649.50	3766065.00	0.55237		435649.50
3766265.00	0.59310			
435649.50	3766465.00	0.61712		435649.50
3766665.00	0.61935			
435649.50	3766865.00	0.59794		435649.50
3767065.00	0.55786			
435649.50	3767265.00	0.50324		435649.50

3767465.00	0.39818		
435649.50	3767665.00	0.32774	435649.50
3767865.00	0.28048		
435649.50	3768065.00	0.24044	435649.50
3768265.00	0.20734		
435649.50	3768465.00	0.17697	435649.50
3768665.00	0.15233		
435449.50	3765665.00	0.38580	435449.50
3765865.00	0.42199		
435449.50	3766065.00	0.45404	435449.50
3766265.00	0.47888		
435449.50	3766465.00	0.49374	435449.50
3766665.00	0.49406		
435449.50	3766865.00	0.48099	435449.50
3767065.00	0.45577		
435449.50	3767265.00	0.42092	435449.50
3767465.00	0.37977		
435449.50	3767665.00	0.29695	435449.50
3767865.00	0.25393		
435449.50	3768065.00	0.22262	435449.50
3768265.00	0.19416		
435449.50	3768465.00	0.16854	435449.50
3768665.00	0.14606		
435249.50	3765665.00	0.33257	435249.50
3765865.00	0.35855		
435249.50	3766065.00	0.38006	435249.50
3766265.00	0.39722		
435249.50	3766465.00	0.40508	435249.50
3766665.00	0.40611		
435249.50	3766865.00	0.39700	435249.50
3767065.00	0.38014		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: COST
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
435249.50	3767265.00	0.35686	435249.50
3767465.00	0.32803		
435249.50	3767665.00	0.27337	435249.50
3767865.00	0.23293		
435249.50	3768065.00	0.20147	435249.50
3768265.00	0.17928		
435249.50	3768465.00	0.15833	435249.50
3768665.00	0.13908		
435049.50	3765665.00	0.28959	435049.50
3765865.00	0.30870		
435049.50	3766065.00	0.32423	435049.50
3766265.00	0.33577		
435049.50	3766465.00	0.34140	435049.50
3766665.00	0.34082		
435049.50	3766865.00	0.33476	435049.50
3767065.00	0.32279		
435049.50	3767265.00	0.30635	435049.50
3767465.00	0.28590		
435049.50	3767665.00	0.25638	435049.50
3767865.00	0.21098		
435049.50	3768065.00	0.18406	435049.50
3768265.00	0.16367		
435049.50	3768465.00	0.14654	435049.50
3768665.00	0.13277		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***

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PAGE 41

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,

L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC	X-COORD (M)

436849.50	3766465.00	10.07904	436849.50
3766485.00	11.14363		
436849.50	3766505.00	12.28237	436849.50
3766525.00	13.50091		
436849.50	3766545.00	14.76021	436849.50
3766565.00	16.00246		
436849.50	3766585.00	17.16911	436849.50
3766605.00	18.12862		
436849.50	3766625.00	18.73927	436849.50
3766645.00	18.91701		
436849.50	3766665.00	18.62974	436849.50
3766685.00	17.95047		
436849.50	3766705.00	16.89869	436849.50
3766725.00	15.61411		
436849.50	3766745.00	14.23187	436849.50
3766765.00	12.88780		
436849.50	3766785.00	11.63215	436849.50
3766805.00	10.48757		
436849.50	3766825.00	9.46447	436849.50
3766845.00	8.55887		
436849.50	3766865.00	7.75910	436869.50
3766465.00	10.91026		
436869.50	3766485.00	12.23208	436869.50
3766505.00	13.67316		
436869.50	3766525.00	15.27133	436869.50
3766545.00	16.99750		
436869.50	3766565.00	18.79227	436869.50
3766585.00	20.53577		
436869.50	3766725.00	18.39995	436869.50
3766745.00	16.46182		
436869.50	3766765.00	14.65302	436869.50
3766785.00	13.02593		
436869.50	3766805.00	11.59191	436869.50
3766825.00	10.34492		
436869.50	3766845.00	9.26549	436869.50
3766865.00	8.32965		
436889.50	3766465.00	11.80265	436889.50

3766485.00	13.42478		
436889.50	3766545.00	19.71929	436889.50
3766565.00	22.35621		
436889.50	3766585.00	25.06985	436889.50
3766725.00	22.00178		
436889.50	3766745.00	19.20743	436889.50
3766765.00	16.73547		
436889.50	3766785.00	14.61279	436889.50
3766805.00	12.81318		
436889.50	3766825.00	11.29537	436889.50
3766845.00	10.01312		
436889.50	3766865.00	8.92205	436909.50
3766465.00	12.70868		
436909.50	3766485.00	14.64883	436909.50
3766725.00	26.70901		
436909.50	3766745.00	22.57849	436909.50
3766765.00	19.16446		
436909.50	3766785.00	16.38704	436909.50
3766805.00	14.13273		
436909.50	3766825.00	12.29363	436909.50
3766845.00	10.78042		
436909.50	3766865.00	9.52068	436929.50
3766465.00	13.48105		
436929.50	3766485.00	15.71484	436929.50
3766725.00	32.89166		
436929.50	3766745.00	26.63370	436929.50
3766765.00	21.91130		
436929.50	3766785.00	18.30954	436929.50
3766805.00	15.51564		
436929.50	3766825.00	13.31258	436929.50
3766845.00	11.54652		
436929.50	3766865.00	10.11037	436949.50
3766465.00	14.14497		
436949.50	3766485.00	16.66596	436949.50
3766725.00	40.70151		
436949.50	3766745.00	31.26158	436949.50
3766765.00	24.86612		
436949.50	3766785.00	20.29178	436949.50
3766805.00	16.90361		
436949.50	3766825.00	14.31498	436949.50
3766845.00	12.28846		
436949.50	3766865.00	10.67494	436969.50
3766725.00	49.38970		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436969.50	3766745.00	36.06831	436969.50
3766765.00	27.81135		
436969.50	3766785.00	22.20805	436969.50
3766805.00	18.22587		
436969.50	3766825.00	15.25918	436969.50
3766845.00	12.98031		
436969.50	3766865.00	11.19552	436989.50
3766725.00	57.68009		
436989.50	3766745.00	40.58679	436989.50
3766765.00	30.53219		
436989.50	3766785.00	23.93362	436989.50
3766805.00	19.41456		
436989.50	3766825.00	16.10678	436989.50
3766845.00	13.59885		
436989.50	3766865.00	11.65349	437009.50
3766785.00	25.46371		
437009.50	3766805.00	20.40450	437009.50
3766825.00	16.78854		
437009.50	3766845.00	14.10533	437009.50
3766865.00	12.02723		
437029.50	3766785.00	26.73793	437029.50
3766805.00	21.21663		
437029.50	3766825.00	17.33069	437029.50
3766845.00	14.48448		
437029.50	3766865.00	12.30607	437049.50
3766785.00	27.73110		
437049.50	3766805.00	21.79550	437049.50
3766825.00	17.67921		

437049.50	3766845.00	14.70181	437049.50
3766865.00	12.47747		
437069.50	3766785.00	28.41083	437069.50
3766805.00	22.14445		
437069.50	3766825.00	17.84671	437069.50
3766845.00	14.69694		
437069.50	3766865.00	12.55169	437089.50
3766785.00	28.76077		
437089.50	3766805.00	22.40719	437089.50
3766825.00	18.03244		
437089.50	3766845.00	14.88969	437089.50
3766865.00	12.59409		
437109.50	3766785.00	28.72581	437109.50
3766805.00	22.42582		
437109.50	3766825.00	18.05652	437109.50
3766845.00	14.90514		
437109.50	3766865.00	12.57196	437129.50
3766785.00	28.34748		
437129.50	3766805.00	22.23159	437129.50
3766825.00	17.93748		
437129.50	3766845.00	14.82024	437129.50
3766865.00	12.49248		
437149.50	3766785.00	27.70295	437149.50
3766805.00	21.87710		
437149.50	3766825.00	17.71612	437149.50
3766845.00	14.66627		
437149.50	3766865.00	12.37287	437169.50
3766785.00	26.87895		
437169.50	3766805.00	21.41575	437169.50
3766825.00	17.43344		
437169.50	3766845.00	14.47366	437169.50
3766865.00	12.23003		
437189.50	3766465.00	11.67967	437189.50
3766485.00	13.66386		
437189.50	3766505.00	16.27449	437189.50
3766525.00	19.79458		
437189.50	3766545.00	24.64142	437189.50
3766565.00	31.44262		
437189.50	3766585.00	40.97730	437189.50
3766605.00	53.60133		
437189.50	3766625.00	67.76662	437189.50
3766645.00	79.00996		
437189.50	3766665.00	83.34547	437189.50
3766685.00	79.51368		
437189.50	3766705.00	68.33495	437189.50
3766725.00	54.33471		
437189.50	3766745.00	42.08508	437189.50
3766765.00	32.78585		
437189.50	3766785.00	25.93954	437189.50
3766805.00	20.88172		

437189.50 3766825.00 17.10827 437189.50
 3766845.00 14.25616
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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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 *** 12:32:57

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437189.50	3766865.00	12.07062	437209.50
3766465.00	11.05600		
437209.50	3766485.00	12.87699	437209.50
3766505.00	15.24438		
437209.50	3766525.00	18.37861	437209.50
3766545.00	22.58632		
437209.50	3766565.00	28.25695	437209.50
3766585.00	35.69709		
437209.50	3766605.00	44.75514	437209.50
3766625.00	54.26467		
437209.50	3766645.00	61.94935	437209.50
3766665.00	65.42389		
437209.50	3766685.00	63.54426	437209.50
3766705.00	56.86006		
437209.50	3766725.00	47.69559	437209.50
3766745.00	38.58420		
437209.50	3766765.00	30.91499	437209.50
3766785.00	24.90053		
437209.50	3766805.00	20.28168	437209.50

3766825.00	16.74347		
437209.50	3766845.00	14.01886	437209.50
3766865.00	11.90263		
437229.50	3766465.00	10.47838	437229.50
3766485.00	12.15988		
437229.50	3766505.00	14.32279	437229.50
3766525.00	17.13212		
437229.50	3766545.00	20.80268	437229.50
3766565.00	25.54111		
437229.50	3766585.00	31.40028	437229.50
3766605.00	38.08869		
437229.50	3766625.00	44.77913	437229.50
3766645.00	50.13875		
437229.50	3766665.00	52.76710	437229.50
3766685.00	51.91378		
437229.50	3766705.00	47.80215	437229.50
3766725.00	41.69236		
437229.50	3766745.00	35.03969	437229.50
3766765.00	28.90593		
437229.50	3766785.00	23.75160	437229.50
3766805.00	19.60892		
437229.50	3766825.00	16.33449	437229.50
3766845.00	13.75712		
437229.50	3766865.00	11.72325	437249.50
3766465.00	9.95182		
437249.50	3766485.00	11.51157	437249.50
3766505.00	13.49404		
437249.50	3766525.00	16.01936	437249.50
3766545.00	19.22039		
437249.50	3766565.00	23.18403	437249.50
3766585.00	27.84390		
437249.50	3766605.00	32.90583	437249.50
3766625.00	37.76391		
437249.50	3766645.00	41.58553	437249.50
3766665.00	43.55137		
437249.50	3766685.00	43.19235	437249.50
3766705.00	40.60592		
437249.50	3766725.00	36.46529	437249.50
3766745.00	31.62245		
437249.50	3766765.00	26.81517	437249.50
3766785.00	22.50228		
437249.50	3766805.00	18.85826	437249.50
3766825.00	15.87468		
437249.50	3766845.00	13.46533	437249.50
3766865.00	11.52800		
436849.50	3766915.00	6.15042	436849.50
3766965.00	4.97650		
436849.50	3767015.00	4.09866	436849.50
3767065.00	3.39754		
436849.50	3767115.00	2.52175	436849.50

3767165.00	2.04599		
436899.50	3766915.00	7.01014	436899.50
3766965.00	5.51069		
436899.50	3767015.00	4.44083	436899.50
3767065.00	3.55889		
436899.50	3767115.00	2.65145	436899.50
3767165.00	2.12869		
436949.50	3766915.00	7.81050	436949.50
3766965.00	5.98350		
436949.50	3767015.00	4.65575	436949.50
3767065.00	3.58071		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436949.50	3767115.00	2.78549	436949.50
3767165.00	2.22486		
436999.50	3766915.00	8.42357	436999.50
3766965.00	6.33508		
436999.50	3767015.00	4.41650	436999.50
3767065.00	3.42395		
436999.50	3767115.00	2.79816	436999.50
3767165.00	2.30538		
437049.50	3766915.00	8.74311	437049.50
3766965.00	6.50935		

437049.50	3767015.00	4.38794	437049.50
3767065.00	3.44449		
437049.50	3767115.00	2.79055	437049.50
3767165.00	2.31531		
437099.50	3766915.00	8.77111	437099.50
3766965.00	6.52227		
437099.50	3767015.00	4.51862	437099.50
3767065.00	3.51260		
437099.50	3767115.00	2.82661	437099.50
3767165.00	2.32909		
437149.50	3766915.00	8.61670	437149.50
3766965.00	6.40409		
437149.50	3767015.00	4.70469	437149.50
3767065.00	3.55419		
437149.50	3767115.00	2.82445	437149.50
3767165.00	2.32606		
437199.50	3766915.00	8.38578	437199.50
3766965.00	6.24567		
437199.50	3767015.00	4.77481	437199.50
3767065.00	3.55467		
437199.50	3767115.00	2.79930	437199.50
3767165.00	2.31914		
437249.50	3766915.00	8.15080	437249.50
3766965.00	6.05056		
437249.50	3767015.00	4.60860	437249.50
3767065.00	3.54890		
437249.50	3767115.00	2.82816	437249.50
3767165.00	2.32869		
437299.50	3766915.00	7.90345	437299.50
3766965.00	5.94218		
437299.50	3767015.00	4.60996	437299.50
3767065.00	3.59230		
437299.50	3767115.00	2.83931	437299.50
3767165.00	2.33868		
437349.50	3766915.00	7.59000	437349.50
3766965.00	5.76090		
437349.50	3767015.00	4.50053	437349.50
3767065.00	3.56841		
437349.50	3767115.00	2.86365	437349.50
3767165.00	2.36175		
437399.50	3766915.00	7.18391	437399.50
3766965.00	5.57309		
437399.50	3767015.00	4.38855	437399.50
3767065.00	3.49461		
437399.50	3767115.00	2.83380	437399.50
3767165.00	2.35998		
437449.50	3766915.00	6.72097	437449.50
3766965.00	5.35107		
437449.50	3767015.00	4.27287	437449.50
3767065.00	3.45195		

437449.50	3767115.00	2.81741	437449.50
3767165.00	2.35151		
437499.50	3766915.00	6.22222	437499.50
3766965.00	5.10072		
437499.50	3767015.00	4.15301	437499.50
3767065.00	3.39279		
437499.50	3767115.00	2.78717	437499.50
3767165.00	2.32713		
437549.50	3766915.00	5.72100	437549.50
3766965.00	4.82876		
437549.50	3767015.00	4.00213	437549.50
3767065.00	3.30874		
437549.50	3767115.00	2.74733	437549.50
3767165.00	2.30843		
437299.50	3766865.00	10.94609	437299.50
3766815.00	15.57339		
437299.50	3766765.00	21.73579	437299.50
3766715.00	27.44744		
437299.50	3766665.00	29.05773	437299.50
3766615.00	25.09118		

*** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
-----	-----	-----	-----
-----	-----	-----	-----
437299.50	3766565.00	18.41259	437299.50

3766515.00	12.61607		
437299.50	3766465.00	8.82327	437299.50
3766415.00	6.53110		
437299.50	3766365.00	5.10356	437299.50
3766315.00	4.15017		
437299.50	3766265.00	3.46596	437299.50
3766215.00	2.94401		
437299.50	3766165.00	2.53837	437349.50
3766865.00	10.18132		
437349.50	3766815.00	13.62099	437349.50
3766765.00	17.42300		
437349.50	3766715.00	20.34969	437349.50
3766665.00	20.96823		
437349.50	3766615.00	18.79802	437349.50
3766565.00	14.86899		
437349.50	3766515.00	10.91048	437349.50
3766465.00	7.92575		
437349.50	3766415.00	5.94600	437349.50
3766365.00	4.66264		
437349.50	3766315.00	3.80656	437349.50
3766265.00	3.19980		
437349.50	3766215.00	2.74288	437349.50
3766165.00	2.38340		
437399.50	3766865.00	9.28141	437399.50
3766815.00	11.73912		
437399.50	3766765.00	14.10274	437399.50
3766715.00	15.70881		
437399.50	3766665.00	15.95485	437399.50
3766615.00	14.64371		
437399.50	3766565.00	12.21448	437399.50
3766515.00	9.47244		
437399.50	3766465.00	7.17331	437399.50
3766415.00	5.48190		
437399.50	3766365.00	4.31234	437399.50
3766315.00	3.51898		
437399.50	3766265.00	2.96264	437399.50
3766215.00	2.55296		
437399.50	3766165.00	2.22983	437449.50
3766865.00	8.34254		
437449.50	3766815.00	10.04981	437449.50
3766765.00	11.54965		
437449.50	3766715.00	12.50010	437449.50
3766665.00	12.61000		
437449.50	3766615.00	11.76856	437449.50
3766565.00	10.17775		
437449.50	3766515.00	8.24824	437449.50
3766465.00	6.47891		
437449.50	3766415.00	5.06995	437449.50
3766365.00	4.02052		
437449.50	3766315.00	3.28307	437449.50

3766265.00	2.76081		
437449.50	3766215.00	2.37870	437449.50
3766165.00	2.08688		
437499.50	3766865.00	7.43339	437499.50
3766815.00	8.62235		
437499.50	3766765.00	9.59634	437499.50
3766715.00	10.19449		
437499.50	3766665.00	10.25655	437499.50
3766615.00	9.69076		
437499.50	3766565.00	8.60551	437499.50
3766515.00	7.24538		
437499.50	3766465.00	5.87818	437499.50
3766415.00	4.70451		
437499.50	3766365.00	3.78051	437499.50
3766315.00	3.09770		
437499.50	3766265.00	2.59808	437499.50
3766215.00	2.23272		
437499.50	3766165.00	1.95760	437549.50
3766865.00	6.60679		
437549.50	3766815.00	7.44983	437549.50
3766765.00	8.12096		
437549.50	3766715.00	8.51679	437549.50
3766665.00	8.53917		
437549.50	3766615.00	8.13887	437549.50
3766565.00	7.37011		
437549.50	3766515.00	6.37527	437549.50
3766465.00	5.32513		
437549.50	3766415.00	4.36047	437549.50
3766365.00	3.55720		

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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 *** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)		Y-COORD (M) CONC	CONC	X-COORD (M)

437549.50	3766315.00	2.93157	437549.50	
3766265.00	2.46020			
437549.50	3766215.00	2.10929	437549.50	
3766165.00	1.84504			
437249.50	3766415.00	7.28755	437249.50	
3766365.00	5.64510			
437249.50	3766315.00	4.54238	437249.50	
3766265.00	3.74911			
437249.50	3766215.00	3.15373	437249.50	
3766165.00	2.69060			
437199.50	3766415.00	8.17534	437199.50	
3766365.00	6.23682			
437199.50	3766315.00	4.93990	437199.50	
3766265.00	4.02093			
437199.50	3766215.00	3.34000	437199.50	
3766165.00	2.82366			
437149.50	3766415.00	9.07720	437149.50	
3766365.00	6.77626			
437149.50	3766315.00	5.27652	437149.50	
3766265.00	4.23994			
437149.50	3766215.00	3.48733	437149.50	
3766165.00	2.92344			
437099.50	3766415.00	9.81801	437099.50	
3766365.00	7.18212			
437099.50	3766315.00	5.50760	437099.50	
3766265.00	4.37614			
437099.50	3766215.00	3.57385	437099.50	
3766165.00	2.98067			
437049.50	3766415.00	10.18570	437049.50	
3766365.00	7.36374			
437049.50	3766315.00	5.60575	437049.50	
3766265.00	4.42530			
437049.50	3766215.00	3.59891	437049.50	
3766165.00	2.99604			
436999.50	3766415.00	10.20595	436999.50	
3766365.00	7.33889			
436999.50	3766315.00	5.57503	436999.50	
3766265.00	4.39559			
436999.50	3766215.00	3.57577	436999.50	
3766165.00	2.97634			
436949.50	3766415.00	9.78855	436949.50	
3766365.00	7.12451			

436949.50	3766315.00	5.44512	436949.50
3766265.00	4.31118		
436949.50	3766215.00	3.51788	436949.50
3766165.00	2.93280		
436899.50	3766415.00	8.85727	436899.50
3766365.00	6.69205		
436899.50	3766315.00	5.22079	436899.50
3766265.00	4.18397		
436899.50	3766215.00	3.43805	436899.50
3766165.00	2.88077		
436849.50	3766415.00	7.83518	436849.50
3766365.00	6.18291		
436849.50	3766315.00	4.95919	436849.50
3766265.00	4.05111		
436849.50	3766215.00	3.35268	436849.50
3766165.00	2.82500		
436799.50	3766415.00	6.83753	436799.50
3766365.00	5.63856		
436799.50	3766315.00	4.66163	436799.50
3766265.00	3.88100		
436799.50	3766215.00	3.25031	436799.50
3766165.00	2.75893		
436749.50	3766415.00	5.88273	436749.50
3766365.00	5.03524		
436749.50	3766315.00	4.29013	436749.50
3766265.00	3.64760		
436749.50	3766215.00	3.10720	436749.50
3766165.00	2.66992		
436699.50	3766415.00	4.97473	436699.50
3766365.00	4.39321		
436699.50	3766315.00	3.83896	436699.50
3766265.00	3.36051		
436699.50	3766215.00	2.92147	436699.50
3766165.00	2.55067		
436649.50	3766415.00	4.21566	436649.50
3766365.00	3.81525		
436649.50	3766315.00	3.41226	436649.50
3766265.00	3.05697		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,


```

, L0000011      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000012      , L0000012      , L0000013      ,
, L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
, L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436649.50	3766215.00	2.71264	436649.50
3766165.00	2.40745		
436599.50	3766415.00	3.59365	436599.50
3766365.00	3.31068		
436599.50	3766315.00	3.02459	436599.50
3766265.00	2.75940		
436599.50	3766215.00	2.49811	436599.50
3766165.00	2.25420		
436549.50	3766415.00	3.09382	436549.50
3766365.00	2.88978		
436549.50	3766315.00	2.67810	436549.50
3766265.00	2.46925		
436549.50	3766215.00	2.26672	436549.50
3766165.00	2.07331		
436799.50	3766465.00	8.27214	436799.50
3766515.00	9.83470		
436799.50	3766565.00	11.30276	436799.50
3766615.00	12.25445		
436799.50	3766665.00	12.22987	436799.50
3766715.00	11.21530		
436799.50	3766765.00	9.58050	436799.50
3766815.00	7.90856		
436799.50	3766865.00	6.47523	436799.50
3766915.00	5.32889		
436799.50	3766965.00	4.43302	436799.50
3767015.00	3.72747		
436799.50	3767065.00	3.04310	436799.50
3767115.00	2.37869		
436799.50	3767165.00	1.96359	436749.50
3766465.00	6.78787		
436749.50	3766515.00	7.68528	436749.50
3766565.00	8.43870		
436749.50	3766615.00	8.85806	436749.50

376665.00	8.80564		
436749.50	3766715.00	8.26153	436749.50
3766765.00	7.37091		
436749.50	3766815.00	6.36717	436749.50
3766865.00	5.41813		
436749.50	3766915.00	4.59785	436749.50
3766965.00	3.91815		
436749.50	3767015.00	3.36177	436749.50
3767065.00	2.78963		
436749.50	3767115.00	2.21374	436749.50
3767165.00	1.86400		
436699.50	3766465.00	5.56916	436699.50
3766515.00	6.11866		
436699.50	3766565.00	6.54959	436699.50
3766615.00	6.77034		
436699.50	3766665.00	6.70780	436699.50
3766715.00	6.38934		
436699.50	3766765.00	5.85054	436699.50
3766815.00	5.21219		
436699.50	3766865.00	4.56747	436699.50
3766915.00	3.97012		
436699.50	3766965.00	3.45529	436699.50
3767015.00	3.01527		
436699.50	3767065.00	2.54593	436699.50
3767115.00	2.03114		
436699.50	3767165.00	1.75843	436649.50
3766465.00	4.61902		
436649.50	3766515.00	4.97351	436649.50
3766565.00	5.23249		
436649.50	3766615.00	5.35939	436649.50
3766665.00	5.30372		
436649.50	3766715.00	5.10105	436649.50
3766765.00	4.75720		
436649.50	3766815.00	4.33661	436649.50
3766865.00	3.88599		
436649.50	3766915.00	3.44794	436649.50
3766965.00	3.05433		
436649.50	3767015.00	2.57593	436649.50
3767065.00	2.15829		
436649.50	3767115.00	1.84919	436649.50
3767165.00	1.60863		
436599.50	3766465.00	3.85766	436599.50
3766515.00	4.10146		
436599.50	3766565.00	4.27299	436599.50
3766615.00	4.35070		
436599.50	3766665.00	4.31694	436599.50
3766715.00	4.18027		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436599.50	3766765.00	3.95077	436599.50
3766815.00	3.65952		
436599.50	3766865.00	3.33931	436599.50
3766915.00	3.01583		
436599.50	3766965.00	2.71172	436599.50
3767015.00	2.35576		
436599.50	3767065.00	1.97717	436599.50
3767115.00	1.72162		
436599.50	3767165.00	1.52560	436549.50
3766465.00	3.28607		
436549.50	3766515.00	3.45347	436549.50
3766565.00	3.56743		
436549.50	3766615.00	3.61479	436549.50
3766665.00	3.59020		
436549.50	3766715.00	3.49650	436549.50
3766765.00	3.33730		
436549.50	3766815.00	3.13300	436549.50
3766865.00	2.90045		
436549.50	3766915.00	2.65775	436549.50
3766965.00	2.42192		
436549.50	3767015.00	2.20242	436549.50
3767065.00	2.00202		
436549.50	3767115.00	1.80935	436549.50
3767165.00	1.54978		

436549.50	3767265.00	1.20203	436549.50
3767365.00	0.96679		
436549.50	3767465.00	0.80418	436549.50
3767565.00	0.66950		
436549.50	3767665.00	0.56627	436649.50
3767265.00	1.28477		
436649.50	3767365.00	1.01809	436649.50
3767465.00	0.83030		
436649.50	3767565.00	0.68620	436649.50
3767665.00	0.58119		
436749.50	3767265.00	1.40196	436749.50
3767365.00	1.09271		
436749.50	3767465.00	0.87892	436749.50
3767565.00	0.72090		
436749.50	3767665.00	0.59885	436849.50
3767265.00	1.50553		
436849.50	3767365.00	1.17872	436849.50
3767465.00	0.93691		
436849.50	3767565.00	0.75150	436849.50
3767665.00	0.62566		
436949.50	3767265.00	1.62645	436949.50
3767365.00	1.25374		
436949.50	3767465.00	0.98269	436949.50
3767565.00	0.76660		
436949.50	3767665.00	0.63492	437049.50
3767265.00	1.69255		
437049.50	3767365.00	1.28664	437049.50
3767465.00	0.99562		
437049.50	3767565.00	0.77741	437049.50
3767665.00	0.63680		
437149.50	3767265.00	1.66455	437149.50
3767365.00	1.26019		
437149.50	3767465.00	0.98480	437149.50
3767565.00	0.79306		
437149.50	3767665.00	0.65085	437249.50
3767265.00	1.67196		
437249.50	3767365.00	1.25171	437249.50
3767465.00	0.97640		
437249.50	3767565.00	0.78867	437249.50
3767665.00	0.65901		
437349.50	3767265.00	1.69573	437349.50
3767365.00	1.27485		
437349.50	3767465.00	0.99799	437349.50
3767565.00	0.79995		
437349.50	3767665.00	0.65545	437449.50
3767265.00	1.68750		
437449.50	3767365.00	1.26529	437449.50
3767465.00	0.99446		
437449.50	3767565.00	0.79174	437449.50
3767665.00	0.65027		

437549.50	3767265.00	1.68275	437549.50
3767365.00	1.26957		
437549.50	3767465.00	0.99149	437549.50
3767565.00	0.79471		
437549.50	3767665.00	0.65147	437649.50
3767265.00	1.67380		

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

437649.50	3767365.00	1.27793	437649.50
3767465.00	1.00389		
437649.50	3767565.00	0.80653	437649.50
3767665.00	0.66122		
437749.50	3767265.00	1.65439	437749.50
3767365.00	1.27426		
437749.50	3767465.00	1.00375	437749.50
3767565.00	0.81242		
437749.50	3767665.00	0.66740	437849.50
3767265.00	1.60263		
437849.50	3767365.00	1.26539	437849.50
3767465.00	1.01114		
437849.50	3767565.00	0.81834	437849.50
3767665.00	0.67817		
437949.50	3767265.00	1.55726	437949.50

3767365.00	1.24603		
437949.50	3767465.00	1.00549	437949.50
3767565.00	0.82335		
437949.50	3767665.00	0.68413	438049.50
3767265.00	1.48001		
438049.50	3767365.00	1.21206	438049.50
3767465.00	0.99860		
438049.50	3767565.00	0.82594	438049.50
3767665.00	0.69025		
437649.50	3767165.00	2.25265	437649.50
3767065.00	3.13332		
437649.50	3766965.00	4.22799	437649.50
3766865.00	5.28992		
437649.50	3766765.00	6.03688	437649.50
3766665.00	6.23792		
437649.50	3766565.00	5.59286	437649.50
3766465.00	4.37018		
437649.50	3766365.00	3.14373	437649.50
3766265.00	2.23962		
437649.50	3766165.00	1.67365	437649.50
3766065.00	1.33058		
437649.50	3765965.00	1.11065	437649.50
3765865.00	0.95000		
437649.50	3765765.00	0.82527	437649.50
3765665.00	0.72196		
437749.50	3767165.00	2.18149	437749.50
3767065.00	2.86486		
437749.50	3766965.00	3.63494	437749.50
3766865.00	4.31994		
437749.50	3766765.00	4.67283	437749.50
3766665.00	4.78412		
437749.50	3766565.00	4.40041	437749.50
3766465.00	3.62710		
437749.50	3766365.00	2.77540	437749.50
3766265.00	2.05987		
437749.50	3766165.00	1.54903	437749.50
3766065.00	1.22328		
437749.50	3765965.00	1.01494	437749.50
3765865.00	0.87098		
437749.50	3765765.00	0.76183	437749.50
3765665.00	0.67294		
437849.50	3767165.00	2.05884	437849.50
3767065.00	2.58486		
437849.50	3766965.00	3.11391	437849.50
3766865.00	3.52947		
437849.50	3766765.00	3.74414	437849.50
3766665.00	3.81288		
437849.50	3766565.00	3.56188	437849.50
3766465.00	3.06015		
437849.50	3766365.00	2.45443	437849.50

3766265.00	1.89058		
437849.50	3766165.00	1.45091	437849.50
3766065.00	1.14426		
437849.50	3765965.00	0.94068	437849.50
3765865.00	0.80270		
437849.50	3765765.00	0.70423	437849.50
3765665.00	0.62501		
437949.50	3767165.00	1.92764	437949.50
3767065.00	2.32091		
437949.50	3766965.00	2.67158	437949.50
3766865.00	2.88374		
437949.50	3766765.00	3.08107	437949.50
3766665.00	3.11850		
437949.50	3766565.00	2.95170	437949.50
3766465.00	2.60837		

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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 *** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
437949.50	3766365.00	2.17300	437949.50
3766265.00	1.73720		
437949.50	3766165.00	1.36639	437949.50
3766065.00	1.08368		
437949.50	3765965.00	0.88530	437949.50
3765865.00	0.74899		

437949.50	3765765.00	0.65412	437949.50
3765665.00	0.58258		
438049.50	3767165.00	1.77317	438049.50
3767065.00	2.06429		
438049.50	3766965.00	2.31876	438049.50
3766865.00	2.46293		
438049.50	3766765.00	2.58143	438049.50
3766665.00	2.60737		
438049.50	3766565.00	2.49036	438049.50
3766465.00	2.24678		
438049.50	3766365.00	1.92774	438049.50
3766265.00	1.58966		
438049.50	3766165.00	1.28155	438049.50
3766065.00	1.03124		
438049.50	3765965.00	0.84338	438049.50
3765865.00	0.70858		
438049.50	3765765.00	0.61555	438049.50
3765665.00	0.54739		
437549.50	3766065.00	1.47426	437549.50
3765965.00	1.22478		
437549.50	3765865.00	1.03782	437549.50
3765765.00	0.88954		
437549.50	3765665.00	0.77058	437449.50
3766065.00	1.65685		
437449.50	3765965.00	1.35262	437449.50
3765865.00	1.12820		
437449.50	3765765.00	0.95276	437449.50
3765665.00	0.81543		
437349.50	3766065.00	1.84991	437349.50
3765965.00	1.48114		
437349.50	3765865.00	1.21498	437349.50
3765765.00	1.01260		
437349.50	3765665.00	0.85594	437249.50
3766065.00	2.02888		
437249.50	3765965.00	1.58788	437249.50
3765865.00	1.28198		
437249.50	3765765.00	1.05624	437249.50
3765665.00	0.88517		
437149.50	3766065.00	2.15072	437149.50
3765965.00	1.65741		
437149.50	3765865.00	1.32129	437149.50
3765765.00	1.07914		
437149.50	3765665.00	0.90230	437049.50
3766065.00	2.18517		
437049.50	3765965.00	1.67553	437049.50
3765865.00	1.33159		
437049.50	3765765.00	1.08536	437049.50
3765665.00	0.90556		
436949.50	3766065.00	2.14566	436949.50
3765965.00	1.63827		

436949.50	3765865.00	1.31263	436949.50
3765765.00	1.07137		
436949.50	3765665.00	0.89409	436849.50
3766065.00	2.07581		
436849.50	3765965.00	1.59374	436849.50
3765865.00	1.28144		
436849.50	3765765.00	1.04626	436849.50
3765665.00	0.87324		
436749.50	3766065.00	2.00502	436749.50
3765965.00	1.54415		
436749.50	3765865.00	1.24830	436749.50
3765765.00	1.01624		
436749.50	3765665.00	0.84989	436649.50
3766065.00	1.88660		
436649.50	3765965.00	1.49566	436649.50
3765865.00	1.21534		
436649.50	3765765.00	0.98779	436649.50
3765665.00	0.83041		
436549.50	3766065.00	1.71603	436549.50
3765965.00	1.40907		
436549.50	3765865.00	1.17044	436549.50
3765765.00	0.95676		
436549.50	3765665.00	0.81257	436449.50
3766065.00	1.51636		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)

Y-COORD (M)	CONC		
436449.50	3765965.00	1.29603	436449.50
3765865.00	1.10632		
436449.50	3765765.00	0.92842	436449.50
3765665.00	0.79498		
436349.50	3766065.00	1.32105	436349.50
3765965.00	1.16733		
436349.50	3765865.00	1.02438	436349.50
3765765.00	0.88869		
436349.50	3765665.00	0.77327	436249.50
3766065.00	1.14605		
436249.50	3765965.00	1.03553	436249.50
3765865.00	0.93103		
436249.50	3765765.00	0.81869	436249.50
3765665.00	0.72587		
436149.50	3766065.00	0.99763	436149.50
3765965.00	0.91559		
436149.50	3765865.00	0.83631	436149.50
3765765.00	0.74772		
436149.50	3765665.00	0.67763	436049.50
3766065.00	0.87523		
436049.50	3765965.00	0.81457	436049.50
3765865.00	0.75295		
436049.50	3765765.00	0.68562	436049.50
3765665.00	0.63031		
436449.50	3766165.00	1.75349	436449.50
3766265.00	2.00165		
436449.50	3766365.00	2.25223	436449.50
3766465.00	2.47347		
436449.50	3766565.00	2.61614	436449.50
3766665.00	2.61091		
436449.50	3766765.00	2.47822	436449.50
3766865.00	2.24195		
436449.50	3766965.00	1.95329	436449.50
3767065.00	1.67179		
436449.50	3767165.00	1.36807	436449.50
3767265.00	1.07821		
436449.50	3767365.00	0.89878	436449.50
3767465.00	0.74681		
436449.50	3767565.00	0.63866	436449.50
3767665.00	0.53933		
436349.50	3766165.00	1.48141	436349.50
3766265.00	1.64471		
436349.50	3766365.00	1.80163	436349.50
3766465.00	1.93056		
436349.50	3766565.00	2.00274	436349.50
3766665.00	2.00005		
436349.50	3766765.00	1.92199	436349.50

3766865.00	1.78339		
436349.50	3766965.00	1.60269	436349.50
3767065.00	1.41060		
436349.50	3767165.00	1.22820	436349.50
3767265.00	0.96482		
436349.50	3767365.00	0.81228	436349.50
3767465.00	0.69564		
436349.50	3767565.00	0.59819	436349.50
3767665.00	0.51672		
436249.50	3766165.00	1.25730	436249.50
3766265.00	1.37284		
436249.50	3766365.00	1.47748	436249.50
3766465.00	1.55355		
436249.50	3766565.00	1.59249	436249.50
3766665.00	1.59053		
436249.50	3766765.00	1.53961	436249.50
3766865.00	1.45464		
436249.50	3766965.00	1.33641	436249.50
3767065.00	1.20320		
436249.50	3767165.00	1.07174	436249.50
3767265.00	0.87993		
436249.50	3767365.00	0.73658	436249.50
3767465.00	0.64914		
436249.50	3767565.00	0.56497	436249.50
3767665.00	0.49257		
436149.50	3766165.00	1.07996	436149.50
3766265.00	1.15918		
436149.50	3766365.00	1.23315	436149.50
3766465.00	1.28241		
436149.50	3766565.00	1.30868	436149.50
3766665.00	1.30340		
436149.50	3766765.00	1.26887	436149.50
3766865.00	1.21120		

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026

, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
436149.50	3766965.00	1.13084	436149.50
3767065.00	1.03654		
436149.50	3767165.00	0.93888	436149.50
3767265.00	0.79334		
436149.50	3767365.00	0.66935	436149.50
3767465.00	0.59151		
436149.50	3767565.00	0.52177	436149.50
3767665.00	0.45660		
436049.50	3766165.00	0.93734	436049.50
3766265.00	0.99343		
436049.50	3766365.00	1.04534	436049.50
3766465.00	1.07835		
436049.50	3766565.00	1.09520	436049.50
3766665.00	1.08897		
436049.50	3766765.00	1.06519	436049.50
3766865.00	1.02472		
436049.50	3766965.00	0.96942	436049.50
3767065.00	0.90130		
436049.50	3767165.00	0.82787	436049.50
3767265.00	0.71345		
436049.50	3767365.00	0.59722	436049.50
3767465.00	0.53062		
436049.50	3767565.00	0.47220	436049.50
3767665.00	0.42527		
436049.50	3767865.00	0.34140	436049.50
3768065.00	0.27836		
436049.50	3768265.00	0.22738	436049.50
3768465.00	0.18809		
436049.50	3768665.00	0.15854	436249.50
3767865.00	0.37301		
436249.50	3768065.00	0.29551	436249.50
3768265.00	0.23973		
436249.50	3768465.00	0.19655	436249.50
3768665.00	0.16379		
436449.50	3767865.00	0.40396	436449.50
3768065.00	0.31290		
436449.50	3768265.00	0.24884	436449.50
3768465.00	0.20275		

436449.50	3768665.00	0.16753	436649.50
3767865.00	0.42559		
436649.50	3768065.00	0.32414	436649.50
3768265.00	0.25250		
436649.50	3768465.00	0.20917	436649.50
3768665.00	0.17172		
436849.50	3767865.00	0.44686	436849.50
3768065.00	0.33314		
436849.50	3768265.00	0.26237	436849.50
3768465.00	0.21253		
436849.50	3768665.00	0.17427	437049.50
3767865.00	0.46036		
437049.50	3768065.00	0.34237	437049.50
3768265.00	0.26694		
437049.50	3768465.00	0.21329	437049.50
3768665.00	0.17399		
437249.50	3767865.00	0.47143	437249.50
3768065.00	0.35334		
437249.50	3768265.00	0.27610	437249.50
3768465.00	0.22169		
437249.50	3768665.00	0.18022	437449.50
3767865.00	0.47325		
437449.50	3768065.00	0.35790	437449.50
3768265.00	0.28177		
437449.50	3768465.00	0.22593	437449.50
3768665.00	0.18626		
437649.50	3767865.00	0.46719	437649.50
3768065.00	0.35054		
437649.50	3768265.00	0.27622	437649.50
3768465.00	0.22629		
437649.50	3768665.00	0.18805	437849.50
3767865.00	0.48069		
437849.50	3768065.00	0.35535	437849.50
3768265.00	0.27401		
437849.50	3768465.00	0.22152	437849.50
3768665.00	0.18253		
438049.50	3767865.00	0.49434	438049.50
3768065.00	0.36795		
438049.50	3768265.00	0.28311	438049.50
3768465.00	0.22447		
438049.50	3768665.00	0.18210	438249.50
3767865.00	0.50020		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
438249.50	3768065.00	0.38141	438249.50
3768265.00	0.29071		
438249.50	3768465.00	0.23005	438249.50
3768665.00	0.18595		
438449.50	3767865.00	0.49551	438449.50
3768065.00	0.38007		
438449.50	3768265.00	0.29835	438449.50
3768465.00	0.23460		
438449.50	3768665.00	0.19019	438649.50
3767865.00	0.48492		
438649.50	3768065.00	0.37908	438649.50
3768265.00	0.29953		
438649.50	3768465.00	0.24081	438649.50
3768665.00	0.19364		
438849.50	3767865.00	0.46810	438849.50
3768065.00	0.37251		
438849.50	3768265.00	0.29939	438849.50
3768465.00	0.24369		
438849.50	3768665.00	0.19977	439049.50
3767865.00	0.44858		
439049.50	3768065.00	0.36365	439049.50
3768265.00	0.29532		
439049.50	3768465.00	0.24175	439049.50
3768665.00	0.20203		
438249.50	3767665.00	0.67612	438249.50
3767465.00	0.94882		
438249.50	3767265.00	1.29798	438249.50
3767065.00	1.63650		
438249.50	3766865.00	1.91019	438249.50

376665.00	1.91668		
438249.50	3766465.00	1.72063	438249.50
3766265.00	1.32586		
438249.50	3766065.00	0.93283	438249.50
3765865.00	0.65245		
438249.50	3765665.00	0.49410	438249.50
3765465.00	0.39908		
438249.50	3765265.00	0.33995	438249.50
3765065.00	0.29293		
438249.50	3764865.00	0.25611	438249.50
3764665.00	0.22550		
438449.50	3767665.00	0.65940	438449.50
3767465.00	0.87659		
438449.50	3767265.00	1.11172	438449.50
3767065.00	1.33106		
438449.50	3766865.00	1.48361	438449.50
3766665.00	1.51649		
438449.50	3766465.00	1.36305	438449.50
3766265.00	1.11270		
438449.50	3766065.00	0.83909	438449.50
3765865.00	0.61106		
438449.50	3765665.00	0.45901	438449.50
3765465.00	0.36483		
438449.50	3765265.00	0.30836	438449.50
3765065.00	0.26853		
438449.50	3764865.00	0.23714	438449.50
3764665.00	0.21041		
438649.50	3767665.00	0.62965	438649.50
3767465.00	0.79521		
438649.50	3767265.00	0.95447	438649.50
3767065.00	1.10045		
438649.50	3766865.00	1.16239	438649.50
3766665.00	1.18476		
438649.50	3766465.00	1.10965	438649.50
3766265.00	0.94605		
438649.50	3766065.00	0.75112	438649.50
3765865.00	0.57113		
438649.50	3765665.00	0.43463	438649.50
3765465.00	0.34048		
438649.50	3765265.00	0.28408	438649.50
3765065.00	0.24641		
438649.50	3764865.00	0.21835	438649.50
3764665.00	0.19573		
438849.50	3767665.00	0.58482	438849.50
3767465.00	0.70752		
438849.50	3767265.00	0.81901	438849.50
3767065.00	0.92671		
438849.50	3766865.00	1.00522	438849.50
3766665.00	0.97365		
438849.50	3766465.00	0.92353	438849.50

3766265.00 0.81053

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
438849.50	3766065.00	0.67009	438849.50
3765865.00	0.53129		
438849.50	3765665.00	0.41273	438849.50
3765465.00	0.32402		
438849.50	3765265.00	0.26615	438849.50
3765065.00	0.22816		
438849.50	3764865.00	0.20190	438849.50
3764665.00	0.18181		
439049.50	3767665.00	0.54149	439049.50
3767465.00	0.62931		
439049.50	3767265.00	0.71404	439049.50
3767065.00	0.79360		
439049.50	3766865.00	0.85761	439049.50
3766665.00	0.81733		
439049.50	3766465.00	0.78258	439049.50
3766265.00	0.70162		
439049.50	3766065.00	0.59745	439049.50
3765865.00	0.48983		
439049.50	3765665.00	0.39249	439049.50
3765465.00	0.31143		

439049.50	3765265.00	0.25349	439049.50
3765065.00	0.21486		
439049.50	3764865.00	0.18842	439049.50
3764665.00	0.16960		
438049.50	3765465.00	0.44729	438049.50
3765265.00	0.37673		
438049.50	3765065.00	0.32057	438049.50
3764865.00	0.27655		
438049.50	3764665.00	0.24062	437849.50
3765465.00	0.50522		
437849.50	3765265.00	0.41577	437849.50
3765065.00	0.34866		
437849.50	3764865.00	0.29676	437849.50
3764665.00	0.25459		
437649.50	3765465.00	0.56606	437649.50
3765265.00	0.45503		
437649.50	3765065.00	0.37415	437649.50
3764865.00	0.31367		
437649.50	3764665.00	0.26729	437449.50
3765465.00	0.61997		
437449.50	3765265.00	0.48761	437449.50
3765065.00	0.39475		
437449.50	3764865.00	0.32707	437449.50
3764665.00	0.27635		
437249.50	3765465.00	0.65944	437249.50
3765265.00	0.50993		
437249.50	3765065.00	0.40762	437249.50
3764865.00	0.33534		
437249.50	3764665.00	0.28197	437049.50
3765465.00	0.66832		
437049.50	3765265.00	0.51443	437049.50
3765065.00	0.41104		
437049.50	3764865.00	0.33764	437049.50
3764665.00	0.28292		
436849.50	3765465.00	0.64814	436849.50
3765265.00	0.50352		
436849.50	3765065.00	0.40360	436849.50
3764865.00	0.33187		
436849.50	3764665.00	0.27874	436649.50
3765465.00	0.62233		
436649.50	3765265.00	0.48267	436649.50
3765065.00	0.38956		
436649.50	3764865.00	0.32208	436649.50
3764665.00	0.27135		
436449.50	3765465.00	0.60449	436449.50
3765265.00	0.46867		
436449.50	3765065.00	0.37639	436449.50
3764865.00	0.31119		
436449.50	3764665.00	0.26259	436249.50
3765465.00	0.57886		

436249.50	3765265.00	0.45843	436249.50
3765065.00	0.36964		
436249.50	3764865.00	0.30473	436249.50
3764665.00	0.25623		
436049.50	3765465.00	0.53078	436049.50
3765265.00	0.43878		
436049.50	3765065.00	0.36216	436049.50
3764865.00	0.30082		
436049.50	3764665.00	0.25325	435849.50
3765465.00	0.46805		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
435849.50	3765265.00	0.40340	435849.50
3765065.00	0.34447		
435849.50	3764865.00	0.29341	435849.50
3764665.00	0.25030		
435649.50	3765465.00	0.40671	435649.50
3765265.00	0.36136		
435649.50	3765065.00	0.31783	435649.50
3764865.00	0.27875		
435649.50	3764665.00	0.24314	435449.50
3765465.00	0.35295		
435449.50	3765265.00	0.32028	435449.50

3765065.00	0.28939		
435449.50	3764865.00	0.25880	435449.50
3764665.00	0.23085		
435249.50	3765465.00	0.30824	435249.50
3765265.00	0.28375		
435249.50	3765065.00	0.25985	435249.50
3764865.00	0.23709		
435249.50	3764665.00	0.21498	435049.50
3765465.00	0.27166		
435049.50	3765265.00	0.25266	435049.50
3765065.00	0.23400		
435049.50	3764865.00	0.21620	435049.50
3764665.00	0.19872		
435849.50	3765665.00	0.53586	435849.50
3765865.00	0.61204		
435849.50	3766065.00	0.68701	435849.50
3766265.00	0.75484		
435849.50	3766465.00	0.79551	435849.50
3766665.00	0.80219		
435849.50	3766865.00	0.76760	435849.50
3767065.00	0.69864		
435849.50	3767265.00	0.58507	435849.50
3767465.00	0.44996		
435849.50	3767665.00	0.36834	435849.50
3767865.00	0.31004		
435849.50	3768065.00	0.26083	435849.50
3768265.00	0.21655		
435849.50	3768465.00	0.18401	435849.50
3768665.00	0.15638		
435649.50	3765665.00	0.45313	435649.50
3765865.00	0.50456		
435649.50	3766065.00	0.55237	435649.50
3766265.00	0.59310		
435649.50	3766465.00	0.61712	435649.50
3766665.00	0.61935		
435649.50	3766865.00	0.59794	435649.50
3767065.00	0.55786		
435649.50	3767265.00	0.50324	435649.50
3767465.00	0.39818		
435649.50	3767665.00	0.32774	435649.50
3767865.00	0.28048		
435649.50	3768065.00	0.24044	435649.50
3768265.00	0.20734		
435649.50	3768465.00	0.17697	435649.50
3768665.00	0.15233		
435449.50	3765665.00	0.38580	435449.50
3765865.00	0.42199		
435449.50	3766065.00	0.45404	435449.50
3766265.00	0.47888		
435449.50	3766465.00	0.49374	435449.50

376665.00	0.49406			
435449.50	3766865.00	0.48099		435449.50
3767065.00	0.45577			
435449.50	3767265.00	0.42092		435449.50
3767465.00	0.37977			
435449.50	3767665.00	0.29695		435449.50
3767865.00	0.25393			
435449.50	3768065.00	0.22262		435449.50
3768265.00	0.19416			
435449.50	3768465.00	0.16854		435449.50
3768665.00	0.14606			
435249.50	3765665.00	0.33257		435249.50
3765865.00	0.35855			
435249.50	3766065.00	0.38006		435249.50
3766265.00	0.39722			
435249.50	3766465.00	0.40508		435249.50
3766665.00	0.40611			
435249.50	3766865.00	0.39700		435249.50
3767065.00	0.38014			

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43800 HRS) AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

435249.50	3767265.00	0.35686	435249.50
3767465.00	0.32803		

435249.50	3767665.00	0.27337	435249.50
3767865.00	0.23293		
435249.50	3768065.00	0.20147	435249.50
3768265.00	0.17928		
435249.50	3768465.00	0.15833	435249.50
3768665.00	0.13908		
435049.50	3765665.00	0.28959	435049.50
3765865.00	0.30870		
435049.50	3766065.00	0.32423	435049.50
3766265.00	0.33577		
435049.50	3766465.00	0.34140	435049.50
3766665.00	0.34082		
435049.50	3766865.00	0.33476	435049.50
3767065.00	0.32279		
435049.50	3767265.00	0.30635	435049.50
3767465.00	0.28590		
435049.50	3767665.00	0.25638	435049.50
3767865.00	0.21098		
435049.50	3768065.00	0.18406	435049.50
3768265.00	0.16367		
435049.50	3768465.00	0.14654	435049.50
3768665.00	0.13277		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

- - - - -	436849.50	3766465.00	111.01312	(21122916)	436849.50
3766485.00	154.66143	(21122916)			
	436849.50	3766505.00	202.70838	(21122916)	436849.50
3766525.00	246.39695	(21122916)			
	436849.50	3766545.00	269.10501	(21122916)	436849.50
3766565.00	255.41363	(21122916)			
	436849.50	3766585.00	208.95411	(21122916)	436849.50
3766605.00	224.91963	(22091807)			
	436849.50	3766625.00	241.95786	(22091807)	436849.50
3766645.00	220.11930	(22091807)			
	436849.50	3766665.00	169.87157	(21010621)	436849.50
3766685.00	184.58983	(17040407)			
	436849.50	3766705.00	180.25519	(17040407)	436849.50
3766725.00	165.92825	(17101517)			
	436849.50	3766745.00	169.90196	(17101517)	436849.50
3766765.00	159.23474	(22012917)			
	436849.50	3766785.00	158.43221	(22012917)	436849.50
3766805.00	145.73721	(22012917)			
	436849.50	3766825.00	126.65082	(22012917)	436849.50
3766845.00	105.49545	(22012917)			
	436849.50	3766865.00	84.97305	(22012917)	436869.50
3766465.00	105.52636	(22021222)			
	436869.50	3766485.00	138.28662	(21122916)	436869.50
3766505.00	192.03169	(21122916)			
	436869.50	3766525.00	250.47998	(21122916)	436869.50
3766545.00	299.09278	(21122916)			
	436869.50	3766565.00	311.51883	(21122916)	436869.50
3766585.00	275.58945	(21122916)			
	436869.50	3766725.00	202.27751	(17101517)	436869.50
3766745.00	192.12086	(17101517)			
	436869.50	3766765.00	191.10233	(22012917)	436869.50
3766785.00	175.86902	(22012917)			
	436869.50	3766805.00	151.54098	(22012917)	436869.50
3766825.00	124.82676	(22012917)			
	436869.50	3766845.00	99.37940	(22012917)	436869.50
3766865.00	82.69097	(22121718)			
	436889.50	3766465.00	110.93464	(23010921)	436889.50
3766485.00	122.34594	(22021222)			
	436889.50	3766545.00	314.03637	(21122916)	436889.50
3766565.00	364.71203	(21122916)			
	436889.50	3766585.00	352.19513	(21122916)	436889.50
3766725.00	239.66551	(17101517)			
	436889.50	3766745.00	234.18019	(22012917)	436889.50
3766765.00	215.93846	(22012917)			
	436889.50	3766785.00	183.99652	(22012917)	436889.50
3766805.00	149.50061	(22012917)			
	436889.50	3766825.00	117.50220	(22012917)	436889.50
3766845.00	93.23219	(22121718)			
	436889.50	3766865.00	86.95793	(21013119)	436909.50

3766465.00	118.28427	(17012920)		
436909.50	3766485.00	128.84299	(17021522)	436909.50
3766725.00	290.22470	(22012917)		
436909.50	3766745.00	270.36040	(22012917)	436909.50
3766765.00	226.97546	(22012917)		
436909.50	3766785.00	181.32052	(22012917)	436909.50
3766805.00	140.45823	(22012917)		
436909.50	3766825.00	106.88044	(21013119)	436909.50
3766845.00	98.33582	(21013119)		
436909.50	3766865.00	90.31893	(17120802)	436929.50
3766465.00	122.27311	(17121123)		
436929.50	3766485.00	134.54265	(17012920)	436929.50
3766725.00	343.74817	(22012917)		
436929.50	3766745.00	284.17571	(22012917)	436929.50
3766765.00	222.84785	(22012917)		
436929.50	3766785.00	170.27631	(22012917)	436929.50
3766805.00	126.63373	(22012917)		
436929.50	3766825.00	120.01644	(22123016)	436929.50
3766845.00	112.91436	(22123016)		
436929.50	3766865.00	105.77099	(22123016)	436949.50
3766465.00	131.13261	(22120216)		
436949.50	3766485.00	146.09822	(22120216)	436949.50
3766725.00	358.61979	(22012917)		
436949.50	3766745.00	277.55140	(22012917)	436949.50
3766765.00	209.84795	(22012917)		
436949.50	3766785.00	181.38836	(22123016)	436949.50
3766805.00	162.71344	(22123016)		
436949.50	3766825.00	146.54543	(22123016)	436949.50
3766845.00	132.66219	(22123016)		
436949.50	3766865.00	120.73685	(22123016)	436969.50
3766725.00	349.58066	(22012917)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436969.50	3766745.00	266.48735	(22123016)	436969.50
3766765.00	230.92879	(22123016)		
436969.50	3766785.00	201.08273	(22123016)	436969.50
3766805.00	177.03591	(22123016)		
436969.50	3766825.00	157.18638	(22123016)	436969.50
3766845.00	140.61806	(22123016)		
436969.50	3766865.00	126.72589	(22123016)	436989.50
3766725.00	334.10174	(22012917)		
436989.50	3766745.00	268.20860	(22123016)	436989.50
3766765.00	232.95264	(22123016)		
436989.50	3766785.00	202.58549	(22123016)	436989.50
3766805.00	178.88144	(22123016)		
436989.50	3766825.00	158.86160	(22123016)	436989.50
3766845.00	141.75871	(22123016)		
436989.50	3766865.00	127.10608	(22123016)	437009.50
3766785.00	202.25266	(22123016)		
437009.50	3766805.00	177.56003	(22123016)	437009.50
3766825.00	157.04890	(22123016)		
437009.50	3766845.00	139.58176	(22123016)	437009.50
3766865.00	123.98490	(22123016)		
437029.50	3766785.00	201.14854	(22123016)	437029.50
3766805.00	174.95142	(22123016)		
437029.50	3766825.00	152.80069	(22123016)	437029.50
3766845.00	133.68646	(22123016)		
437029.50	3766865.00	116.62609	(22123016)	437049.50
3766785.00	196.26382	(22123016)		
437049.50	3766805.00	167.03724	(22123016)	437049.50
3766825.00	142.09136	(22123016)		
437049.50	3766845.00	120.79020	(22123016)	437049.50
3766865.00	106.34657	(22123020)		
437069.50	3766785.00	181.57171	(22123016)	437069.50
3766805.00	148.15181	(22123016)		
437069.50	3766825.00	125.87871	(21121718)	437069.50
3766845.00	115.64989	(21121718)		
437069.50	3766865.00	104.58365	(21121718)	437089.50
3766785.00	159.47739	(22021121)		
437089.50	3766805.00	142.73235	(22021121)	437089.50
3766825.00	128.25271	(22021121)		
437089.50	3766845.00	115.67026	(22021121)	437089.50
3766865.00	105.18221	(22021121)		

437109.50	3766785.00	162.72886	(17022718)	437109.50
3766805.00	140.01652	(22021121)		
437109.50	3766825.00	126.90836	(22021121)	437109.50
3766845.00	115.52562	(22021121)		
437109.50	3766865.00	105.69762	(22021121)	437129.50
3766785.00	167.61625	(17022718)		
437129.50	3766805.00	147.12889	(17022718)	437129.50
3766825.00	128.60866	(17022718)		
437129.50	3766845.00	112.30128	(17011019)	437129.50
3766865.00	102.02452	(17011019)		
437149.50	3766785.00	166.07824	(21122917)	437149.50
3766805.00	148.87671	(17022718)		
437149.50	3766825.00	132.87755	(17022718)	437149.50
3766845.00	118.02424	(17022718)		
437149.50	3766865.00	104.33874	(17022718)	437169.50
3766785.00	163.27269	(17022023)		
437169.50	3766805.00	144.65070	(17021106)	437169.50
3766825.00	131.67925	(18021824)		
437169.50	3766845.00	119.42592	(17022718)	437169.50
3766865.00	107.86109	(17022718)		
437189.50	3766465.00	99.68916	(21123016)	437189.50
3766485.00	105.32161	(21123016)		
437189.50	3766505.00	114.35704	(23010216)	437189.50
3766525.00	131.45534	(23010216)		
437189.50	3766545.00	150.36326	(23010724)	437189.50
3766565.00	184.10541	(23122022)		
437189.50	3766585.00	217.05217	(22122916)	437189.50
3766605.00	331.38862	(22122916)		
437189.50	3766625.00	373.93401	(22122916)	437189.50
3766645.00	347.86243	(22122916)		
437189.50	3766665.00	301.24590	(21050807)	437189.50
3766685.00	319.00450	(17020617)		
437189.50	3766705.00	355.73991	(17020617)	437189.50
3766725.00	319.46222	(17020617)		
437189.50	3766745.00	243.91186	(17020617)	437189.50
3766765.00	180.66831	(21061519)		
437189.50	3766785.00	156.93084	(23020217)	437189.50
3766805.00	142.07420	(17022023)		
437189.50	3766825.00	127.96569	(17021106)	437189.50
3766845.00	116.54642	(18021824)		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437189.50	3766865.00	107.34763	(18021824)	437209.50
3766465.00	83.75434	(23010216)		
437209.50	3766485.00	96.30242	(23010216)	437209.50
3766505.00	107.95523	(23010216)		
437209.50	3766525.00	123.63853	(23010724)	437209.50
3766545.00	150.21714	(23122022)		
437209.50	3766565.00	175.56682	(23122022)	437209.50
3766585.00	214.18291	(22122916)		
437209.50	3766605.00	298.63282	(22122916)	437209.50
3766625.00	323.39550	(22122916)		
437209.50	3766645.00	293.86668	(22122916)	437209.50
3766665.00	253.44244	(17013017)		
437209.50	3766685.00	263.36065	(18111916)	437209.50
3766705.00	274.73923	(17020617)		
437209.50	3766725.00	271.38739	(17020617)	437209.50
3766745.00	229.74495	(17020617)		
437209.50	3766765.00	176.31446	(17020617)	437209.50
3766785.00	151.17390	(21061519)		
437209.50	3766805.00	134.40982	(17021101)	437209.50
3766825.00	124.38390	(17022023)		
437209.50	3766845.00	113.40059	(17021106)	437209.50
3766865.00	103.85979	(17021106)		
437229.50	3766465.00	82.02888	(23010216)	437229.50
3766485.00	90.20903	(23010216)		
437229.50	3766505.00	103.47374	(23010724)	437229.50
3766525.00	125.32842	(23010724)		
437229.50	3766545.00	146.76620	(23122022)	437229.50
3766565.00	162.55044	(23122022)		
437229.50	3766585.00	205.78207	(22122916)	437229.50
3766605.00	266.20983	(22122916)		
437229.50	3766625.00	278.56584	(22122916)	437229.50

3766645.00	244.73718	(22122916)		
437229.50	3766665.00	220.15366	(17013017)	437229.50
3766685.00	223.26767	(17013017)		
437229.50	3766705.00	227.73417	(18111916)	437229.50
3766725.00	221.32262	(17020617)		
437229.50	3766745.00	204.31186	(17020617)	437229.50
3766765.00	169.69700	(17020617)		
437229.50	3766785.00	140.07025	(23120518)	437229.50
3766805.00	128.71781	(23120518)		
437229.50	3766825.00	117.38490	(17021101)	437229.50
3766845.00	109.70180	(17022023)		
437229.50	3766865.00	101.17079	(17022023)	437249.50
3766465.00	76.49903	(23010216)		
437249.50	3766485.00	87.60865	(23010724)	437249.50
3766505.00	105.95242	(23010724)		
437249.50	3766525.00	124.02037	(23122022)	437249.50
3766545.00	139.44991	(23122022)		
437249.50	3766565.00	149.11372	(22120423)	437249.50
3766585.00	193.81169	(22122916)		
437249.50	3766605.00	236.09489	(22122916)	437249.50
3766625.00	238.83465	(22122916)		
437249.50	3766645.00	202.58555	(22122916)	437249.50
3766665.00	190.23286	(17013017)		
437249.50	3766685.00	195.45326	(17013017)	437249.50
3766705.00	193.25959	(18111916)		
437249.50	3766725.00	178.56529	(18111916)	437249.50
3766745.00	175.01844	(17020617)		
437249.50	3766765.00	156.03206	(17020617)	437249.50
3766785.00	132.64807	(22120420)		
437249.50	3766805.00	121.92841	(23120518)	437249.50
3766825.00	112.59766	(23120518)		
437249.50	3766845.00	103.58679	(17021101)	437249.50
3766865.00	97.50018	(17022023)		
436849.50	3766915.00	66.98206	(21013119)	436849.50
3766965.00	57.31838	(17120802)		
436849.50	3767015.00	50.20842	(17010121)	436849.50
3767065.00	45.42215	(21011119)		
436849.50	3767115.00	55.26671	(18020621)	436849.50
3767165.00	56.02775	(18020621)		
436899.50	3766915.00	73.44925	(17010121)	436899.50
3766965.00	62.76595	(22123016)		
436899.50	3767015.00	56.69483	(22123016)	436899.50
3767065.00	50.29407	(22123016)		
436899.50	3767115.00	57.69584	(23120818)	436899.50
3767165.00	57.46318	(22011520)		
436949.50	3766915.00	97.01928	(22123016)	436949.50
3766965.00	79.10342	(22123016)		
436949.50	3767015.00	64.54611	(22123016)	436949.50
3767065.00	57.02857	(21021602)		

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436949.50	3767115.00	57.38137	(21010920)	436949.50
3767165.00	57.95285	(21010920)		
436999.50	3766915.00	95.26130	(22123016)	436999.50
3766965.00	71.90796	(22123016)		
436999.50	3767015.00	72.19911	(23121822)	436999.50
3767065.00	68.01413	(23121822)		
436999.50	3767115.00	61.49223	(23121822)	436999.50
3767165.00	56.92808	(21020523)		
437049.50	3766915.00	86.40727	(22123020)	437049.50
3766965.00	71.65423	(22123020)		
437049.50	3767015.00	79.91953	(18010623)	437049.50
3767065.00	73.13738	(18010623)		
437049.50	3767115.00	66.88887	(18010623)	437049.50
3767165.00	61.14266	(18010623)		
437099.50	3766915.00	84.79782	(22021121)	437099.50
3766965.00	69.58146	(23011519)		
437099.50	3767015.00	77.18928	(21121718)	437099.50
3767065.00	71.54396	(21121718)		
437099.50	3767115.00	66.55799	(17020701)	437099.50
3767165.00	62.01408	(21011622)		
437149.50	3766915.00	81.92374	(17011019)	437149.50
3766965.00	68.81798	(22021121)		

437149.50	3767015.00	70.39205	(22021121)	437149.50
3767065.00	69.58811	(17020921)		
437149.50	3767115.00	65.83968	(17020921)	437149.50
3767165.00	61.00558	(18022521)		
437199.50	3766915.00	85.69858	(17022718)	437199.50
3766965.00	67.90984	(23030501)		
437199.50	3767015.00	60.09835	(17011019)	437199.50
3767065.00	66.30704	(18021205)		
437199.50	3767115.00	65.22416	(21120303)	437199.50
3767165.00	60.78702	(18121917)		
437249.50	3766915.00	81.68364	(17021106)	437249.50
3766965.00	71.83757	(17022718)		
437249.50	3767015.00	66.40108	(17022718)	437249.50
3767065.00	61.35032	(21122307)		
437249.50	3767115.00	61.08682	(21122307)	437249.50
3767165.00	57.97385	(18020924)		
437299.50	3766915.00	74.85567	(17022023)	437299.50
3766965.00	66.14397	(17021106)		
437299.50	3767015.00	60.71441	(21122917)	437299.50
3767065.00	62.03772	(17022718)		
437299.50	3767115.00	59.83496	(17022718)	437299.50
3767165.00	55.30750	(17122617)		
437349.50	3766915.00	68.11980	(23120518)	437349.50
3766965.00	63.50041	(17022023)		
437349.50	3767015.00	58.92762	(17022023)	437349.50
3767065.00	57.95149	(17021022)		
437349.50	3767115.00	59.50587	(17022718)	437349.50
3767165.00	55.92291	(17022718)		
437399.50	3766915.00	61.89513	(23120518)	437399.50
3766965.00	60.16999	(17021101)		
437399.50	3767015.00	58.59282	(17022023)	437399.50
3767065.00	59.93172	(17012922)		
437399.50	3767115.00	59.23778	(17021022)	437399.50
3767165.00	55.03474	(17021521)		
437449.50	3766915.00	58.97437	(22021018)	437449.50
3766965.00	59.52789	(17021103)		
437449.50	3767015.00	58.89573	(23121620)	437449.50
3767065.00	57.86108	(17021101)		
437449.50	3767115.00	56.36970	(17021021)	437449.50
3767165.00	53.23056	(23010223)		
437499.50	3766915.00	58.53939	(22120420)	437499.50
3766965.00	60.03557	(17010601)		
437499.50	3767015.00	58.56975	(17122817)	437499.50
3767065.00	56.55413	(23121620)		
437499.50	3767115.00	54.51444	(17021101)	437499.50
3767165.00	52.03532	(17021021)		
437549.50	3766915.00	55.28067	(17021705)	437549.50
3766965.00	59.17281	(22021018)		
437549.50	3767015.00	57.13535	(22121917)	437549.50
3767065.00	56.04612	(17122817)		

437549.50	3767115.00	52.87398	(17021701)	437549.50
3767165.00	49.65804	(17012819)		
437299.50	3766865.00	87.49917	(23120518)	437299.50
3766815.00	103.69477	(22120420)		
437299.50	3766765.00	122.80143	(22020823)	437299.50
3766715.00	138.42487	(18020819)		
437299.50	3766665.00	142.42154	(18122420)	437299.50
3766615.00	169.74518	(22122916)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437299.50	3766565.00	125.96192	(22122916)	437299.50
3766515.00	106.30877	(23122022)		
437299.50	3766465.00	78.35639	(23010724)	437299.50
3766415.00	53.37607	(23010216)		
437299.50	3766365.00	44.55846	(23010216)	437299.50
3766315.00	35.27126	(21123016)		
437299.50	3766265.00	35.35023	(21123016)	437299.50
3766215.00	33.02445	(21123016)		
437299.50	3766165.00	29.35676	(21123016)	437349.50
3766865.00	76.05831	(17010904)		
437349.50	3766815.00	91.97241	(22120420)	437349.50
3766765.00	101.98944	(18120817)		
437349.50	3766715.00	109.59102	(18020819)	437349.50

376665.00	113.39484	(18122420)		
437349.50	3766615.00	119.15395	(22122916)	437349.50
3766565.00	109.76533	(22122916)		
437349.50	3766515.00	90.09482	(22120423)	437349.50
3766465.00	77.45756	(23122022)		
437349.50	3766415.00	56.26813	(23010724)	437349.50
3766365.00	39.50416	(23010216)		
437349.50	3766315.00	34.45826	(23010216)	437349.50
3766265.00	26.94192	(23010216)		
437349.50	3766215.00	25.43126	(21123016)	437349.50
3766165.00	25.31800	(21123016)		
437399.50	3766865.00	71.77139	(22120420)	437399.50
3766815.00	79.23945	(22020823)		
437399.50	3766765.00	86.15528	(18121118)	437399.50
3766715.00	91.05057	(22122217)		
437399.50	3766665.00	92.90991	(18122420)	437399.50
3766615.00	86.98300	(22021218)		
437399.50	3766565.00	91.61529	(22122916)	437399.50
3766515.00	76.76030	(18010718)		
437399.50	3766465.00	71.16950	(23122022)	437399.50
3766415.00	58.41764	(23010724)		
437399.50	3766365.00	42.01837	(23010724)	437399.50
3766315.00	30.48660	(23010216)		
437399.50	3766265.00	27.39670	(23010216)	437399.50
3766215.00	22.32975	(23010216)		
437399.50	3766165.00	18.35125	(21123016)	437449.50
3766865.00	63.56787	(22120420)		
437449.50	3766815.00	68.75922	(23010521)	437449.50
3766765.00	74.29562	(18020819)		
437449.50	3766715.00	76.68813	(22122217)	437449.50
3766665.00	77.96301	(18122420)		
437449.50	3766615.00	73.04904	(17021922)	437449.50
3766565.00	74.92298	(22122916)		
437449.50	3766515.00	66.28802	(18010119)	437449.50
3766465.00	61.92139	(22120423)		
437449.50	3766415.00	56.51770	(23122022)	437449.50
3766365.00	44.95758	(23010724)		
437449.50	3766315.00	32.18466	(23010724)	437449.50
3766265.00	24.26828	(23010216)		
437449.50	3766215.00	22.28368	(23010216)	437449.50
3766165.00	18.74987	(23010216)		
437499.50	3766865.00	56.61477	(21120906)	437499.50
3766815.00	60.51536	(22012018)		
437499.50	3766765.00	64.33571	(18020819)	437499.50
3766715.00	65.56497	(21121118)		
437499.50	3766665.00	66.64134	(18122420)	437499.50
3766615.00	62.87666	(22021020)		
437499.50	3766565.00	61.60462	(22021218)	437499.50
3766515.00	58.46085	(21011019)		
437499.50	3766465.00	55.02531	(22120423)	437499.50

3766415.00	52.00119	(23122022)		
437499.50	3766365.00	45.05205	(23122022)	437499.50
3766315.00	35.49526	(23010724)		
437499.50	3766265.00	25.31957	(23010724)	437499.50
3766215.00	19.80104	(23010216)		
437499.50	3766165.00	18.47556	(23010216)	437549.50
3766865.00	51.23962	(22020823)		
437549.50	3766815.00	53.58563	(18121118)	437549.50
3766765.00	55.72786	(18020819)		
437549.50	3766715.00	57.08291	(21121118)	437549.50
3766665.00	57.86898	(18122420)		
437549.50	3766615.00	54.85246	(22021020)	437549.50
3766565.00	54.34328	(22021218)		
437549.50	3766515.00	51.63008	(21011019)	437549.50
3766465.00	49.02744	(18010718)		
437549.50	3766415.00	46.24861	(22120423)	437549.50
3766365.00	43.34461	(23122022)		

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437549.50	3766315.00	36.51494	(23010724)	437549.50
3766265.00	28.27237	(23010724)		
437549.50	3766215.00	20.19252	(23010724)	437549.50
3766165.00	16.47155	(23010216)		

437249.50	3766415.00	59.68340	(23010216)	437249.50
3766365.00	53.19923	(21123016)		
437249.50	3766315.00	48.81907	(21123016)	437249.50
3766265.00	42.23492	(21123016)		
437249.50	3766215.00	35.04307	(21123016)	437249.50
3766165.00	28.18900	(21123016)		
437199.50	3766415.00	79.91571	(21123016)	437199.50
3766365.00	65.74569	(21123016)		
437199.50	3766315.00	51.98628	(21123016)	437199.50
3766265.00	39.86860	(21123016)		
437199.50	3766215.00	29.87340	(21123016)	437199.50
3766165.00	22.03394	(21123016)		
437149.50	3766415.00	84.13014	(21123016)	437149.50
3766365.00	60.33698	(21123016)		
437149.50	3766315.00	42.32444	(21123016)	437149.50
3766265.00	29.23564	(21123016)		
437149.50	3766215.00	22.43044	(22122522)	437149.50
3766165.00	19.41877	(22020103)		
437099.50	3766415.00	65.73699	(21123016)	437099.50
3766365.00	46.35134	(23022717)		
437099.50	3766315.00	36.03747	(23022717)	437099.50
3766265.00	28.89036	(23022717)		
437099.50	3766215.00	23.70056	(23022717)	437099.50
3766165.00	19.97024	(17121102)		
437049.50	3766415.00	91.42220	(23022717)	437049.50
3766365.00	69.69672	(23022717)		
437049.50	3766315.00	54.57357	(23022717)	437049.50
3766265.00	43.66894	(23022717)		
437049.50	3766215.00	35.61761	(23022717)	437049.50
3766165.00	29.52297	(23022717)		
436999.50	3766415.00	106.47499	(22120216)	436999.50
3766365.00	78.29718	(22120216)		
436999.50	3766315.00	60.26269	(23022717)	436999.50
3766265.00	49.38640	(23022717)		
436999.50	3766215.00	41.07729	(23022717)	436999.50
3766165.00	34.57376	(23022717)		
436949.50	3766415.00	101.97154	(22120216)	436949.50
3766365.00	80.49593	(22120216)		
436949.50	3766315.00	64.22241	(22120216)	436949.50
3766265.00	51.62071	(22120216)		
436949.50	3766215.00	41.81975	(22120216)	436949.50
3766165.00	34.12310	(22120216)		
436899.50	3766415.00	91.28100	(17121123)	436899.50
3766365.00	74.74047	(17121123)		
436899.50	3766315.00	59.42231	(17121123)	436899.50
3766265.00	47.39597	(22120216)		
436899.50	3766215.00	40.80268	(22120216)	436899.50
3766165.00	34.96618	(22120216)		
436849.50	3766415.00	82.79384	(23010921)	436849.50
3766365.00	71.47671	(17012920)		

436849.50	3766315.00	61.68067	(17121123)	436849.50
3766265.00	52.95013	(17121123)		
436849.50	3766215.00	43.83746	(17121123)	436849.50
3766165.00	35.76429	(17121123)		
436799.50	3766415.00	75.27372	(22011223)	436799.50
3766365.00	66.51214	(22021222)		
436799.50	3766315.00	58.53532	(17012920)	436799.50
3766265.00	51.99115	(17012920)		
436799.50	3766215.00	46.05106	(17121123)	436799.50
3766165.00	40.15399	(17121123)		
436749.50	3766415.00	92.81438	(21122916)	436749.50
3766365.00	61.03889	(22011223)		
436749.50	3766315.00	55.14277	(22021222)	436749.50
3766265.00	48.68229	(18011223)		
436749.50	3766215.00	44.16788	(17012920)	436749.50
3766165.00	39.41043	(17121123)		
436699.50	3766415.00	100.17909	(21122916)	436699.50
3766365.00	62.50068	(21122916)		
436699.50	3766315.00	49.52994	(22011223)	436699.50
3766265.00	45.78506	(22021222)		
436699.50	3766215.00	40.93062	(23010921)	436699.50
3766165.00	37.60878	(17012920)		
436649.50	3766415.00	90.25183	(21122916)	436649.50
3766365.00	72.07103	(21122916)		
436649.50	3766315.00	46.09617	(22011222)	436649.50
3766265.00	41.71008	(22011223)		
▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes				
Files\BensonConst2\BensonConst2.isc *** 03/25/25				
*** AERMET - VERSION 22112 ***				
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

VALUES FOR SOURCE GROUP: COST		*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

		INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003	, L0000004	, L0000005 ,
	L0000006	, L0000007 , L0000008 , L0000009 , L0000010
, L0000011	, L0000012	, L0000013 ,
	L0000014	, L0000015 , L0000016 , L0000017 , L0000018
, L0000019	, L0000020	, L0000021 ,
	L0000022	, L0000023 , L0000024 , L0000025 , L0000026
, L0000027	, L0000028	, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	Y-COORD (M) (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
436649.50	3766215.00		38.70659	(22021222)	436649.50
3766165.00	35.23933	(22122424)			
436599.50	3766415.00		70.92101	(21122916)	436599.50
3766365.00	70.70740	(21122916)			
436599.50	3766315.00		52.51141	(21122916)	436599.50
3766265.00	39.16408	(22011222)			
436599.50	3766215.00		35.66615	(22011223)	436599.50
3766165.00	33.56126	(22021222)			
436549.50	3766415.00		50.52819	(21122916)	436549.50
3766365.00	61.21781	(21122916)			
436549.50	3766315.00		54.98788	(21122916)	436549.50
3766265.00	38.87317	(21122916)			
436549.50	3766215.00		33.25170	(22011222)	436549.50
3766165.00	30.59937	(22011223)			
436799.50	3766465.00		141.61235	(21122916)	436799.50
3766515.00	194.24149	(21122916)			
436799.50	3766565.00		135.89554	(21122916)	436799.50
3766615.00	176.02325	(22091807)			
436799.50	3766665.00		129.60526	(22021202)	436799.50
3766715.00	125.42554	(17122819)			
436799.50	3766765.00		117.32784	(17101517)	436799.50
3766815.00	108.51893	(22012917)			
436799.50	3766865.00		91.33717	(22012917)	436799.50
3766915.00	60.29410	(22011020)			
436799.50	3766965.00		52.22962	(22121718)	436799.50
3767015.00	46.79244	(21013119)			
436799.50	3767065.00		46.74021	(17120802)	436799.50
3767115.00	51.83661	(22011901)			
436799.50	3767165.00		50.78326	(22011901)	436749.50
3766465.00	140.37948	(21122916)			
436749.50	3766515.00		132.16088	(21122916)	436749.50
3766565.00	98.18005	(21010918)			
436749.50	3766615.00		131.26750	(22091807)	436749.50
3766665.00	103.79545	(22021202)			
436749.50	3766715.00		102.51530	(23121718)	436749.50
3766765.00	94.85488	(21013121)			
436749.50	3766815.00		84.66890	(23123005)	436749.50
3766865.00	77.91054	(22012917)			
436749.50	3766915.00		64.88721	(22012917)	436749.50
3766965.00	48.11516	(22011020)			
436749.50	3767015.00		42.74810	(22121718)	436749.50
3767065.00	43.42191	(23121519)			
436749.50	3767115.00		49.90879	(17123124)	436749.50
3767165.00	50.62058	(22011901)			
436699.50	3766465.00		112.55412	(21122916)	436699.50

3766515.00	77.45207	(23121022)		
436699.50	3766565.00	85.14531	(22091807)	436699.50
3766615.00	99.30025	(22091807)		
436699.50	3766665.00	85.63356	(22021202)	436699.50
3766715.00	85.48076	(23121718)		
436699.50	3766765.00	79.40861	(17122819)	436699.50
3766815.00	74.61403	(23120517)		
436699.50	3766865.00	64.19342	(23123005)	436699.50
3766915.00	58.35861	(22012917)		
436699.50	3766965.00	48.13659	(22012917)	436699.50
3767015.00	39.76258	(22011020)		
436699.50	3767065.00	40.56470	(22121718)	436699.50
3767115.00	48.20440	(18120604)		
436699.50	3767165.00	47.38491	(18120604)	436649.50
3766465.00	77.90626	(21122916)		
436649.50	3766515.00	66.54616	(23121424)	436649.50
3766565.00	73.82073	(22091807)		
436649.50	3766615.00	76.27815	(22091807)	436649.50
3766665.00	71.98993	(22021202)		
436649.50	3766715.00	71.60776	(23121718)	436649.50
3766765.00	68.00771	(17122819)		
436649.50	3766815.00	63.88461	(21013121)	436649.50
3766865.00	59.07943	(23120517)		
436649.50	3766915.00	49.15403	(23123005)	436649.50
3766965.00	44.90468	(22012917)		
436649.50	3767015.00	42.85009	(22011519)	436649.50
3767065.00	46.95151	(23010301)		
436649.50	3767115.00	48.77789	(21120305)	436649.50
3767165.00	46.57776	(18010218)		
436599.50	3766465.00	54.11159	(22011124)	436599.50
3766515.00	57.30655	(21010918)		
436599.50	3766565.00	63.14891	(22091807)	436599.50
3766615.00	61.88141	(18120602)		
436599.50	3766665.00	61.60386	(22021202)	436599.50
3766715.00	60.80329	(23121719)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018

, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436599.50	3766765.00	58.68189	(17020505)	436599.50
3766815.00	56.30499	(21013121)		
436599.50	3766865.00	53.38298	(23120517)	436599.50
3766915.00	47.70384	(23123005)		
436599.50	3766965.00	38.29649	(23123005)	436599.50
3767015.00	37.92483	(22011519)		
436599.50	3767065.00	43.85461	(22011702)	436599.50
3767115.00	44.17912	(18021322)		
436599.50	3767165.00	43.96517	(21120305)	436549.50
3766465.00	48.17324	(23121022)		
436549.50	3766515.00	50.72259	(17010723)	436549.50
3766565.00	53.76528	(22091807)		
436549.50	3766615.00	53.54304	(18120602)	436549.50
3766665.00	53.37857	(22021202)		
436549.50	3766715.00	52.25095	(23121719)	436549.50
3766765.00	51.86757	(23121718)		
436549.50	3766815.00	49.37389	(17122819)	436549.50
3766865.00	46.88273	(18021623)		
436549.50	3766915.00	44.34013	(23120517)	436549.50
3766965.00	38.76275	(23123005)		
436549.50	3767015.00	30.67950	(23021020)	436549.50
3767065.00	28.47329	(22011519)		
436549.50	3767115.00	27.24609	(22011020)	436549.50
3767165.00	31.26662	(21020907)		
436549.50	3767265.00	34.25471	(21120305)	436549.50
3767365.00	33.52008	(18010218)		
436549.50	3767465.00	31.26503	(17020603)	436549.50
3767565.00	29.80051	(22011901)		
436549.50	3767665.00	27.63651	(17011123)	436649.50
3767265.00	41.19944	(21121002)		
436649.50	3767365.00	39.06407	(22011901)	436649.50
3767465.00	34.97030	(17011123)		
436649.50	3767565.00	32.20781	(23010522)	436649.50
3767665.00	29.70677	(21010919)		
436749.50	3767265.00	44.51621	(17011123)	436749.50
3767365.00	41.06055	(21122017)		

436749.50	3767465.00	36.59569	(17121119)	436749.50
3767565.00	33.36680 (21010119)			
436749.50	3767665.00	30.98214	(21010119)	436849.50
3767265.00	49.00390 (23120818)			
436849.50	3767365.00	41.97051	(22011520)	436849.50
3767465.00	37.82033 (18121918)			
436849.50	3767565.00	34.69830	(18121918)	436849.50
3767665.00	31.28556 (18120917)			
436949.50	3767265.00	48.66306	(21010920)	436949.50
3767365.00	41.97773 (23010523)			
436949.50	3767465.00	37.72790	(23010523)	436949.50
3767565.00	35.23619 (18012524)			
436949.50	3767665.00	31.96393	(18012524)	437049.50
3767265.00	50.95381 (18010623)			
437049.50	3767365.00	43.82612	(18010623)	437049.50
3767465.00	39.34549 (17021024)			
437049.50	3767565.00	36.61917	(17021024)	437049.50
3767665.00	33.27055 (17021024)			
437149.50	3767265.00	53.02336	(18020521)	437149.50
3767365.00	46.51232 (23121720)			
437149.50	3767465.00	41.36724	(23121720)	437149.50
3767565.00	37.37762 (21011622)			
437149.50	3767665.00	34.27986	(21011622)	437249.50
3767265.00	50.74293 (17020322)			
437249.50	3767365.00	46.20346	(18121917)	437249.50
3767465.00	41.24442 (18121917)			
437249.50	3767565.00	36.85202	(21020904)	437249.50
3767665.00	33.69451 (21020904)			
437349.50	3767265.00	46.64509	(17122617)	437349.50
3767365.00	41.74944 (18010523)			
437349.50	3767465.00	38.46157	(18010523)	437349.50
3767565.00	35.14353 (17020322)			
437349.50	3767665.00	33.24474	(22012918)	437449.50
3767265.00	48.62879 (17021521)			
437449.50	3767365.00	42.86568	(21123023)	437449.50
3767465.00	36.81786 (17122617)			
437449.50	3767565.00	34.42941	(17020323)	437449.50
3767665.00	32.27142 (22120218)			
437549.50	3767265.00	45.70833	(17021021)	437549.50
3767365.00	42.15420 (22011823)			
437549.50	3767465.00	38.51631	(21123023)	437549.50
3767565.00	34.45915 (23021201)			
437549.50	3767665.00	30.82265	(23020321)	437649.50
3767265.00	42.04381 (17022624)			

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*** 12:32:57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: COST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437649.50	3767365.00	39.53823	(17021021)	437649.50
3767465.00	36.12163	(22011902)		
437649.50	3767565.00	33.64994	(23122407)	437649.50
3767665.00	31.61869	(21123023)		
437749.50	3767265.00	38.69719	(17122817)	437749.50
3767365.00	36.48879	(17022624)		
437749.50	3767465.00	34.66269	(17010501)	437749.50
3767565.00	32.13223	(18012523)		
437749.50	3767665.00	30.86884	(22011902)	437849.50
3767265.00	35.66367	(22021123)		
437849.50	3767365.00	33.32022	(22012620)	437849.50
3767465.00	31.94496	(23121817)		
437849.50	3767565.00	30.51546	(23010603)	437849.50
3767665.00	28.64150	(18012523)		
437949.50	3767265.00	31.50183	(21120624)	437949.50
3767365.00	31.12288	(22021123)		
437949.50	3767465.00	29.64397	(22012620)	437949.50
3767565.00	28.51982	(23121817)		
437949.50	3767665.00	27.31417	(17021104)	438049.50
3767265.00	29.47337	(22011824)		
438049.50	3767365.00	28.29473	(21120624)	438049.50
3767465.00	27.47356	(22021123)		
438049.50	3767565.00	26.10485	(22012620)	438049.50
3767665.00	25.31159	(23121817)		
437649.50	3767165.00	46.77345	(17122817)	437649.50
3767065.00	47.03734	(22021018)		
437649.50	3766965.00	50.96604	(17021705)	437649.50

3766865.00	47.98382	(17011121)		
437649.50	3766765.00	44.20170	(22122217)	437649.50
3766665.00	45.27445	(18122420)		
437649.50	3766565.00	42.85226	(22021218)	437649.50
3766465.00	39.41260	(21011019)		
437649.50	3766365.00	35.92539	(22120423)	437649.50
3766265.00	30.00567	(23010724)		
437649.50	3766165.00	18.72521	(23010724)	437649.50
3766065.00	11.93258	(23010216)		
437649.50	3765965.00	10.40997	(23010216)	437649.50
3765865.00	7.44855	(23010216)		
437649.50	3765765.00	6.55180	(21122303)	437649.50
3765665.00	6.93059	(21123016)		
437749.50	3767165.00	40.69459	(22121917)	437749.50
3767065.00	45.06883	(22011824)		
437749.50	3766965.00	47.57397	(17021102)	437749.50
3766865.00	45.13310	(23020218)		
437749.50	3766765.00	36.18142	(22122217)	437749.50
3766665.00	36.68459	(18122420)		
437749.50	3766565.00	34.46162	(22021218)	437749.50
3766465.00	32.61662	(21011019)		
437749.50	3766365.00	30.35878	(23121917)	437749.50
3766265.00	28.20165	(23122022)		
437749.50	3766165.00	21.42322	(23010724)	437749.50
3766065.00	13.00757	(23010724)		
437749.50	3765965.00	9.05541	(23010216)	437749.50
3765865.00	8.16215	(23010216)		
437749.50	3765765.00	6.20337	(23010216)	437749.50
3765665.00	5.31514	(21020322)		
437849.50	3767165.00	36.91688	(22021018)	437849.50
3767065.00	41.10140	(21011718)		
437849.50	3766965.00	41.31564	(22120124)	437849.50
3766865.00	36.83011	(18020819)		
437849.50	3766765.00	30.20551	(21121118)	437849.50
3766665.00	30.58063	(18122420)		
437849.50	3766565.00	28.58005	(17123119)	437849.50
3766465.00	27.79683	(23012419)		
437849.50	3766365.00	26.05840	(18010119)	437849.50
3766265.00	24.10845	(22120423)		
437849.50	3766165.00	21.51147	(23122022)	437849.50
3766065.00	15.63650	(23010724)		
437849.50	3765965.00	9.40027	(23010724)	437849.50
3765865.00	7.10568	(23010216)		
437849.50	3765765.00	6.55937	(23010216)	437849.50
3765665.00	5.21580	(23010216)		
437949.50	3767165.00	33.87155	(22011824)	437949.50
3767065.00	34.12844	(17021102)		
437949.50	3766965.00	32.62459	(23020218)	437949.50
3766865.00	25.16983	(18020819)		
437949.50	3766765.00	25.77386	(21121118)	437949.50

376665.00 25.99396 (18122420)
 437949.50 3766565.00 24.37314 (17021922) 437949.50
 3766465.00 23.93476 (18010719)
 *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
 *** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437949.50	3766365.00	22.57616	(21011019)	437949.50
3766265.00	21.53139 (22120423)			
437949.50	3766165.00	20.25317	(23122022)	437949.50
3766065.00	16.70455 (23010724)			
437949.50	3765965.00	11.64772	(23010724)	437949.50
3765865.00	6.97801 (23010724)			
437949.50	3765765.00	5.72383	(23010216)	437949.50
3765665.00	5.37760 (23010216)			
438049.50	3767165.00	31.38587	(21011718)	438049.50
3767065.00	30.44475 (22120124)			
438049.50	3766965.00	29.24514	(21120907)	438049.50
3766865.00	23.27203 (22122805)			
438049.50	3766765.00	22.23254	(17021019)	438049.50
3766665.00	22.46667 (18122420)			
438049.50	3766565.00	21.14455	(17021922)	438049.50
3766465.00	20.94521 (22021218)			
438049.50	3766365.00	20.09921	(21011019)	438049.50
3766265.00	19.04847 (18010718)			

438049.50	3766165.00	17.72586	(18011906)	438049.50
3766065.00	16.45530 (23122022)			
438049.50	3765965.00	13.01529	(23010724)	438049.50
3765865.00	8.83273 (23010724)			
438049.50	3765765.00	5.48402	(22030520)	438049.50
3765665.00	4.70889 (23010216)			
437549.50	3766065.00	13.68938	(23010216)	437549.50
3765965.00	9.02077 (23010216)			
437549.50	3765865.00	9.75799	(21123016)	437549.50
3765765.00	9.69155 (21123016)			
437549.50	3765665.00	8.65614	(21123016)	437449.50
3766065.00	14.57305 (21123016)			
437449.50	3765965.00	14.82051	(21123016)	437449.50
3765865.00	13.00907 (21123016)			
437449.50	3765765.00	10.34685	(21123016)	437449.50
3765665.00	7.69944 (21123016)			
437349.50	3766065.00	21.56523	(21123016)	437349.50
3765965.00	16.11740 (21123016)			
437349.50	3765865.00	11.11997	(21123016)	437349.50
3765765.00	8.07923 (23012319)			
437349.50	3765665.00	7.03386	(23010623)	437249.50
3766065.00	17.14869 (21123016)			
437249.50	3765965.00	11.75819	(23010623)	437249.50
3765865.00	9.86558 (23122019)			
437249.50	3765765.00	8.39387	(22122522)	437249.50
3765665.00	7.23338 (22020103)			
437149.50	3766065.00	15.16506	(17121102)	437149.50
3765965.00	12.35945 (17121102)			
437149.50	3765865.00	10.28133	(17121102)	437149.50
3765765.00	8.67871 (17121102)			
437149.50	3765665.00	7.45343	(17121102)	437049.50
3766065.00	21.08151 (23022717)			
437049.50	3765965.00	15.67362	(23022717)	437049.50
3765865.00	12.02070 (23022717)			
437049.50	3765765.00	9.44628	(23022717)	437049.50
3765665.00	7.57621 (23022717)			
436949.50	3766065.00	24.82272	(23022717)	436949.50
3765965.00	19.47448 (23022717)			
436949.50	3765865.00	15.55724	(23022717)	436949.50
3765765.00	12.57776 (23022717)			
436949.50	3765665.00	10.29862	(23022717)	436849.50
3766065.00	24.47279 (22120216)			
436849.50	3765965.00	19.30607	(22120216)	436849.50
3765865.00	15.12023 (22120216)			
436849.50	3765765.00	11.83415	(22120216)	436849.50
3765665.00	9.30320 (22120216)			
436749.50	3766065.00	31.37404	(17121123)	436749.50
3765965.00	22.76198 (17121123)			
436749.50	3765865.00	16.41865	(17121123)	436749.50
3765765.00	11.49697 (22120216)			

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436749.50 3765665.00 9.82548 (22120216) 436649.50
3766065.00 29.94530 (17012920)
436649.50 3765965.00 25.22734 (17121123) 436649.50
3765865.00 21.03255 (17121123)
436649.50 3765765.00 15.97925 (17121123) 436649.50
3765665.00 12.06617 (17121123)
436549.50 3766065.00 26.65041 (21022023) 436549.50
3765965.00 23.11354 (17021522)
436549.50 3765865.00 20.38239 (17012920) 436549.50
3765765.00 17.37102 (17121123)
436549.50 3765665.00 14.83706 (17121123) 436449.50
3766065.00 23.80338 (22011223)
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: COST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436449.50	3765965.00	21.30724	(22021222)	436449.50
3765865.00	18.89431	(18011223)		
436449.50	3765765.00	16.67782	(17012920)	436449.50
3765665.00	14.76285	(17121123)		
436349.50	3766065.00	21.81019	(22011222)	436349.50
3765965.00	19.27703	(22011223)		
436349.50	3765865.00	17.68963	(22021222)	436349.50
3765765.00	15.64724	(22122424)		
436349.50	3765665.00	14.26057	(17012920)	436249.50

3766065.00	19.21451	(18020805)		
436249.50	3765965.00	17.82364	(22011222)	436249.50
3765865.00	16.02721	(22011223)		
436249.50	3765765.00	14.50667	(22021222)	436249.50
3765665.00	13.10259	(22122424)		
436149.50	3766065.00	19.88114	(21122916)	436149.50
3765965.00	15.96269	(18010903)		
436149.50	3765865.00	14.84367	(22011222)	436149.50
3765765.00	13.11997	(22011223)		
436149.50	3765665.00	12.35446	(22021222)	436049.50
3766065.00	17.10737	(21122916)		
436049.50	3765965.00	14.74956	(21122916)	436049.50
3765865.00	13.72386	(18010903)		
436049.50	3765765.00	12.37448	(22011222)	436049.50
3765665.00	11.46267	(22011223)		
436449.50	3766165.00	27.31031	(22011222)	436449.50
3766265.00	42.29894	(21122916)		
436449.50	3766365.00	35.30903	(21122916)	436449.50
3766465.00	38.37662	(21010918)		
436449.50	3766565.00	41.04204	(18121706)	436449.50
3766665.00	41.47396	(18120606)		
436449.50	3766765.00	41.38214	(23121718)	436449.50
3766865.00	38.40518	(21013123)		
436449.50	3766965.00	34.95129	(23120517)	436449.50
3767065.00	25.98680	(23123005)		
436449.50	3767165.00	26.04318	(22011519)	436449.50
3767265.00	30.18262	(18021322)		
436449.50	3767365.00	29.84003	(21120305)	436449.50
3767465.00	29.42480	(18010218)		
436449.50	3767565.00	26.86643	(21123020)	436449.50
3767665.00	26.61169	(17020603)		
436349.50	3766165.00	28.22656	(21122916)	436349.50
3766265.00	32.37535	(21122916)		
436349.50	3766365.00	29.78731	(22011124)	436349.50
3766465.00	32.05532	(17010723)		
436349.50	3766565.00	33.32350	(18121706)	436349.50
3766665.00	33.57790	(18120606)		
436349.50	3766765.00	33.31535	(23121718)	436349.50
3766865.00	31.76521	(17122819)		
436349.50	3766965.00	29.66740	(18021623)	436349.50
3767065.00	26.16984	(23123005)		
436349.50	3767165.00	19.63236	(23021020)	436349.50
3767265.00	26.92571	(22011702)		
436349.50	3767365.00	27.08313	(18021322)	436349.50
3767465.00	26.61291	(21120305)		
436349.50	3767565.00	25.46597	(18010218)	436349.50
3767665.00	24.36370	(18010218)		
436249.50	3766165.00	26.11457	(21122916)	436249.50
3766265.00	23.61636	(18012403)		
436249.50	3766365.00	25.56948	(23121022)	436249.50

3766465.00	26.85777	(18121023)		
436249.50	3766565.00	27.81061	(21013122)	436249.50
3766665.00	27.96653	(18120606)		
436249.50	3766765.00	27.41260	(23121719)	436249.50
3766865.00	26.77598	(17020505)		
436249.50	3766965.00	25.58516	(21013121)	436249.50
3767065.00	23.82868	(23120517)		
436249.50	3767165.00	19.52158	(23123005)	436249.50
3767265.00	21.62820	(18120320)		
436249.50	3767365.00	24.92681	(22011702)	436249.50
3767465.00	23.13574	(18021322)		
436249.50	3767565.00	23.08175	(21120305)	436249.50
3767665.00	22.29377	(17020905)		
436149.50	3766165.00	19.64061	(23121721)	436149.50
3766265.00	20.87386	(22011124)		
436149.50	3766365.00	22.01548	(23121424)	436149.50
3766465.00	22.94723	(18121023)		
436149.50	3766565.00	23.87213	(21013122)	436149.50
3766665.00	23.88810	(18120606)		
436149.50	3766765.00	23.21028	(21121003)	436149.50
3766865.00	22.87898	(23121718)		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

- - - - -
 - - - - -

436149.50	3766965.00	22.16684	(21013123)	436149.50
3767065.00	21.03341 (23120517)			
436149.50	3767165.00	19.13127	(23123005)	436149.50
3767265.00	18.54920 (18022703)			
436149.50	3767365.00	21.98464	(18120519)	436149.50
3767465.00	21.95553 (22011702)			
436149.50	3767565.00	21.27282	(23123103)	436149.50
3767665.00	21.49796 (21120305)			
436049.50	3766165.00	17.33354	(18012403)	436049.50
3766265.00	18.55518 (23121022)			
436049.50	3766365.00	19.45599	(17010723)	436049.50
3766465.00	20.13633 (21120707)			
436049.50	3766565.00	20.66807	(18120602)	436049.50
3766665.00	20.63758 (18120606)			
436049.50	3766765.00	20.10189	(23021305)	436049.50
3766865.00	20.33764 (23121718)			
436049.50	3766965.00	19.44268	(17122819)	436049.50
3767065.00	18.44448 (21013121)			
436049.50	3767165.00	17.62197	(23120517)	436049.50
3767265.00	18.43384 (22021201)			
436049.50	3767365.00	21.03504	(23121420)	436049.50
3767465.00	20.88458 (18120519)			
436049.50	3767565.00	21.13594	(22011702)	436049.50
3767665.00	20.40274 (23020720)			
436049.50	3767865.00	19.15634	(18121107)	436049.50
3768065.00	18.33370 (18010218)			
436049.50	3768265.00	16.94182	(17013021)	436049.50
3768465.00	15.66754 (23122421)			
436049.50	3768665.00	14.98637	(21120902)	436249.50
3767865.00	21.68131 (17122519)			
436249.50	3768065.00	19.80170	(17020603)	436249.50
3768265.00	18.11438 (17120103)			
436249.50	3768465.00	16.85095	(18011820)	436249.50
3768665.00	15.64262 (21010919)			
436449.50	3767865.00	23.70825	(17011123)	436449.50
3768065.00	21.33441 (21020303)			
436449.50	3768265.00	19.59274	(21010919)	436449.50
3768465.00	17.52425 (18012006)			
436449.50	3768665.00	16.18841	(23012802)	436649.50
3767865.00	25.51537 (21010119)			
436649.50	3768065.00	22.74947	(23011607)	436649.50
3768265.00	20.87961 (23122405)			
436649.50	3768465.00	18.11646	(21020808)	436649.50
3768665.00	17.18279 (18020821)			
436849.50	3767865.00	27.35989	(18010803)	436849.50
3768065.00	24.31302 (18010602)			
436849.50	3768265.00	21.25488	(18010602)	436849.50
3768465.00	18.46999 (23011722)			
436849.50	3768665.00	16.58982	(17052022)	437049.50
3767865.00	27.90913 (23010318)			

437049.50	3768065.00	24.52248	(23010318)	437049.50
3768265.00	21.59210	(23010318)		
437049.50	3768465.00	19.55014	(18012208)	437049.50
3768665.00	17.83160	(18012208)		
437249.50	3767865.00	29.14809	(18011118)	437249.50
3768065.00	25.43233	(17020623)		
437249.50	3768265.00	22.16428	(17020623)	437249.50
3768465.00	19.85713	(21020119)		
437249.50	3768665.00	18.01203	(21020119)	437449.50
3767865.00	27.47469	(22012918)		
437449.50	3768065.00	24.35882	(18012007)	437449.50
3768265.00	21.52432	(17020318)		
437449.50	3768465.00	19.76461	(21021008)	437449.50
3768665.00	17.90328	(21021008)		
437649.50	3767865.00	26.16129	(23020321)	437649.50
3768065.00	23.24510	(17020323)		
437649.50	3768265.00	21.23066	(22120218)	437649.50
3768465.00	18.52127	(22012918)		
437649.50	3768665.00	17.26227	(22012918)	437849.50
3767865.00	25.90707	(23122407)		
437849.50	3768065.00	23.36437	(23021201)	437849.50
3768265.00	19.93967	(23020321)		
437849.50	3768465.00	17.91439	(23121919)	437849.50
3768665.00	16.89650	(18010508)		
438049.50	3767865.00	23.81316	(22122724)	438049.50
3768065.00	22.02434	(22011902)		
438049.50	3768265.00	19.79402	(17012124)	438049.50
3768465.00	17.80325	(23021201)		
438049.50	3768665.00	15.76304	(23020321)	438249.50
3767865.00	21.31073	(23121817)		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: COST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
438249.50	3768065.00	20.01682	(22122724)	438249.50
3768265.00	18.60209	(23011822)		
438249.50	3768465.00	17.59586	(17010420)	438249.50
3768665.00	16.26801	(17012124)		
438449.50	3767865.00	19.46326	(21022722)	438449.50
3768065.00	18.46942	(18032121)		
438449.50	3768265.00	17.42492	(23010603)	438449.50
3768465.00	16.66408	(17020924)		
438449.50	3768665.00	15.63483	(18011718)	438649.50
3767865.00	17.48751	(18122303)		
438649.50	3768065.00	16.98830	(22012620)	438649.50
3768265.00	16.22554	(23051806)		
438649.50	3768465.00	15.57203	(17021104)	438649.50
3768665.00	14.76483	(17020924)		
438849.50	3767865.00	16.43956	(17021105)	438849.50
3768065.00	15.67923	(18012221)		
438849.50	3768265.00	15.11659	(22012620)	438849.50
3768465.00	14.57247	(23051806)		
438849.50	3768665.00	13.94464	(17021104)	439049.50
3767865.00	14.72492	(18122301)		
439049.50	3768065.00	14.41938	(21120321)	439049.50
3768265.00	14.07622	(22021123)		
439049.50	3768465.00	13.56032	(21020205)	439049.50
3768665.00	13.20473	(23051806)		
438249.50	3767665.00	22.92723	(22021123)	438249.50
3767465.00	23.33979	(21120624)		
438249.50	3767265.00	26.06466	(21011718)	438249.50
3767065.00	26.00098	(18020921)		
438249.50	3766865.00	23.41704	(17120320)	438249.50
3766665.00	17.44539	(18122420)		
438249.50	3766465.00	16.65209	(22021218)	438249.50
3766265.00	15.12130	(22122922)		
438249.50	3766065.00	13.73286	(18011906)	438249.50
3765865.00	10.90743	(23010724)		
438249.50	3765665.00	5.46026	(23010724)	438249.50
3765465.00	3.41449	(22021119)		
438249.50	3765265.00	2.98317	(17120219)	438249.50
3765065.00	2.60615	(18020321)		
438249.50	3764865.00	2.37639	(21122303)	438249.50
3764665.00	2.25684	(21122303)		
438449.50	3767665.00	20.09204	(18021001)	438449.50

3767465.00	21.68897	(22011824)		
438449.50	3767265.00	22.02931	(17011020)	438449.50
3767065.00	20.38991	(17010923)		
438449.50	3766865.00	18.07598	(23010906)	438449.50
3766665.00	16.05021	(18122420)		
438449.50	3766465.00	13.36015	(22021218)	438449.50
3766265.00	12.61282	(21011019)		
438449.50	3766065.00	11.70993	(23121917)	438449.50
3765865.00	10.73115	(23122022)		
438449.50	3765665.00	7.41401	(23010724)	438449.50
3765465.00	3.54943	(22030520)		
438449.50	3765265.00	2.74798	(22021119)	438449.50
3765065.00	2.44122	(18012318)		
438449.50	3764865.00	2.17251	(21022621)	438449.50
3764665.00	1.96768	(21020322)		
438649.50	3767665.00	17.79291	(21120417)	438649.50
3767465.00	19.28695	(21011718)		
438649.50	3767265.00	18.54396	(21123017)	438649.50
3767065.00	17.67244	(18020819)		
438649.50	3766865.00	12.49896	(21121118)	438649.50
3766665.00	11.68475	(18122420)		
438649.50	3766465.00	11.03052	(22121517)	438649.50
3766265.00	10.68516	(23012419)		
438649.50	3766065.00	10.01273	(18010718)	438649.50
3765865.00	9.24362	(18011906)		
438649.50	3765665.00	8.08328	(23010724)	438649.50
3765465.00	5.00344	(23010724)		
438649.50	3765265.00	2.50975	(22030520)	438649.50
3765065.00	2.27113	(22021119)		
438649.50	3764865.00	2.04917	(18012318)	438649.50
3764665.00	1.84453	(21022621)		
438849.50	3767665.00	17.05262	(21120508)	438849.50
3767465.00	17.15374	(22120424)		
438849.50	3767265.00	16.93465	(21122221)	438849.50
3767065.00	15.65198	(18010921)		
438849.50	3766865.00	13.87500	(17010423)	438849.50
3766665.00	9.90392	(18122420)		
438849.50	3766465.00	9.38275	(17123119)	438849.50
3766265.00	9.13483	(18010719)		

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***

*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: COST ***

INCLUDING SOURCE(S): L0000001 , L0000002

```

, L0000003      , L0000004      , L0000005      ,
                  L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
438849.50	3766065.00	8.66241	(18010119)	438849.50
3765865.00	8.26706	(22120423)		
438849.50	3765665.00	7.73462	(23122022)	438849.50
3765465.00	5.95172	(23010724)		
438849.50	3765265.00	3.49213	(23010724)	438849.50
3765065.00	2.04341	(21120517)		
438849.50	3764865.00	1.91462	(22021119)	438849.50
3764665.00	1.75228	(18012318)		
439049.50	3767665.00	15.62631	(21011718)	439049.50
3767465.00	15.21647	(22120124)		
439049.50	3767265.00	14.45243	(23121318)	439049.50
3767065.00	13.59640	(17022124)		
439049.50	3766865.00	12.96718	(21011218)	439049.50
3766665.00	8.53842	(18122420)		
439049.50	3766465.00	8.12120	(17021922)	439049.50
3766265.00	8.01844	(18010719)		
439049.50	3766065.00	7.68231	(21011019)	439049.50
3765865.00	7.27881	(18010718)		
439049.50	3765665.00	6.80501	(18011906)	439049.50
3765465.00	6.12991	(23010724)		
439049.50	3765265.00	4.39914	(23010724)	439049.50
3765065.00	2.48298	(23010724)		
439049.50	3764865.00	1.73162	(21120517)	439049.50
3764665.00	1.64871	(22021119)		
438049.50	3765465.00	3.79896	(23010216)	438049.50
3765265.00	3.23754	(21020322)		
438049.50	3765065.00	3.00921	(21122303)	438049.50
3764865.00	2.69946	(21122303)		
438049.50	3764665.00	2.40214	(21123016)	437849.50
3765465.00	4.29610	(21122303)		
437849.50	3765265.00	3.93852	(21123016)	437849.50
3765065.00	3.52982	(21123016)		

437849.50	3764865.00	2.89772	(17010822)	437849.50
3764665.00	2.54036 (17010822)			
437649.50	3765465.00	6.14504	(21123016)	437649.50
3765265.00	4.23568 (21123016)			
437649.50	3765065.00	3.48484	(23012422)	437649.50
3764865.00	2.99315 (23012319)			
437649.50	3764665.00	2.61924	(23010623)	437449.50
3765465.00	5.34643 (23012319)			
437449.50	3765265.00	4.36433	(23010623)	437449.50
3765065.00	3.65293 (23122019)			
437449.50	3764865.00	3.10846	(22020103)	437449.50
3764665.00	2.69147 (22020103)			
437249.50	3765465.00	5.64658	(17121102)	437249.50
3765265.00	4.60418 (17121102)			
437249.50	3765065.00	3.82111	(17121102)	437249.50
3764865.00	3.23200 (17121102)			
437249.50	3764665.00	2.77506	(17121102)	437049.50
3765465.00	5.73949 (21122320)			
437049.50	3765265.00	4.59668	(21122320)	437049.50
3765065.00	3.79803 (21122320)			
437049.50	3764865.00	3.21130	(21122320)	437049.50
3764665.00	2.75929 (21122320)			
436849.50	3765465.00	6.95220	(23022717)	436849.50
3765265.00	5.38808 (23022717)			
436849.50	3765065.00	4.30112	(23022717)	436849.50
3764865.00	3.50623 (23022717)			
436849.50	3764665.00	2.89143	(23022717)	436649.50
3765465.00	6.68321 (17121123)			
436649.50	3765265.00	5.16718	(22120216)	436649.50
3765065.00	3.93368 (22120216)			
436649.50	3764865.00	2.95760	(22120216)	436649.50
3764665.00	2.31372 (23022717)			
436449.50	3765465.00	11.78145	(17121123)	436449.50
3765265.00	7.92085 (17121123)			
436449.50	3765065.00	4.96539	(17121123)	436449.50
3764865.00	3.02353 (17121123)			
436449.50	3764665.00	2.51141	(22120216)	436249.50
3765465.00	11.46343 (17012920)			
436249.50	3765265.00	9.67198	(17121123)	436249.50
3765065.00	7.72695 (17121123)			
436249.50	3764865.00	5.61115	(17121123)	436249.50
3764665.00	3.83400 (17121123)			
436049.50	3765465.00	10.15554	(22020802)	436049.50
3765265.00	8.86737 (17021522)			
436049.50	3765065.00	7.70311	(17012619)	436049.50
3764865.00	6.81215 (17121123)			
436049.50	3764665.00	5.55671	(17121123)	435849.50
3765465.00	9.01916 (22011223)			

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: COST ***
INCLUDING SOURCE(S): L0000001 , L0000002
, L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
435849.50	3765265.00	8.07151	(21022023)	435849.50
3765065.00	7.14761	(18011223)		
435849.50	3764865.00	6.47875	(17012920)	435849.50
3764665.00	5.69408	(17121123)		
435649.50	3765465.00	8.23431	(22011222)	435649.50
3765265.00	7.25373	(22011223)		
435649.50	3765065.00	6.60476	(22021222)	435649.50
3764865.00	5.91216	(22122424)		
435649.50	3764665.00	5.40617	(17012920)	435449.50
3765465.00	7.25009	(18020805)		
435449.50	3765265.00	6.68381	(22011222)	435449.50
3765065.00	6.01792	(22011223)		
435449.50	3764865.00	5.56149	(22021222)	435449.50
3764665.00	5.05334	(22122424)		
435249.50	3765465.00	6.56360	(23010920)	435249.50
3765265.00	6.00943	(18020805)		
435249.50	3765065.00	5.53655	(21022301)	435249.50
3764865.00	5.06703	(22011223)		
435249.50	3764665.00	4.73800	(22021222)	435049.50
3765465.00	6.09369	(23121721)		
435049.50	3765265.00	5.53188	(23010920)	435049.50
3765065.00	5.15824	(18010903)		
435049.50	3764865.00	4.73756	(17011907)	435049.50

3764665.00	4.35454	(22011223)		
435849.50	3765665.00	10.34134	(22011222)	435849.50
3765865.00	11.65308	(23010920)		
435849.50	3766065.00	13.42045	(18012403)	435849.50
3766265.00	14.71812	(23121424)		
435849.50	3766465.00	15.63782	(21120707)	435849.50
3766665.00	16.13910	(18120606)		
435849.50	3766865.00	16.07964	(23121718)	435849.50
3767065.00	14.91989	(21013123)		
435849.50	3767265.00	16.49639	(22021201)	435849.50
3767465.00	17.70956	(21012720)		
435849.50	3767665.00	17.82170	(17022024)	435849.50
3767865.00	17.11979	(23020720)		
435849.50	3768065.00	15.88075	(17123021)	435849.50
3768265.00	15.76852	(22010518)		
435849.50	3768465.00	14.41878	(17122519)	435849.50
3768665.00	13.59909	(23021523)		
435649.50	3765665.00	8.93459	(23010920)	435649.50
3765865.00	10.50539	(23121721)		
435649.50	3766065.00	11.36897	(22011124)	435649.50
3766265.00	12.23051	(17010723)		
435649.50	3766465.00	12.78401	(18120518)	435649.50
3766665.00	13.05676	(18120606)		
435649.50	3766865.00	12.82514	(23121719)	435649.50
3767065.00	12.31566	(17122819)		
435649.50	3767265.00	11.44974	(18021623)	435649.50
3767465.00	15.49408	(22021201)		
435649.50	3767665.00	14.63227	(23121420)	435649.50
3767865.00	14.49295	(17022024)		
435649.50	3768065.00	14.27603	(23020720)	435649.50
3768265.00	13.49680	(17123021)		
435649.50	3768465.00	13.28202	(22010518)	435649.50
3768665.00	12.59885	(21122921)		
435449.50	3765665.00	7.95081	(18010820)	435449.50
3765865.00	8.93800	(18012403)		
435449.50	3766065.00	9.67498	(23121022)	435449.50
3766265.00	10.17391	(18121023)		
435449.50	3766465.00	10.66551	(21013122)	435449.50
3766665.00	10.79819	(18120606)		
435449.50	3766865.00	10.46845	(21121003)	435449.50
3767065.00	10.33558	(17020505)		
435449.50	3767265.00	9.93666	(21013121)	435449.50
3767465.00	9.28227	(23120517)		
435449.50	3767665.00	11.86960	(23122806)	435449.50
3767865.00	12.20411	(23121420)		
435449.50	3768065.00	11.97989	(22011702)	435449.50
3768265.00	11.98071	(23020720)		
435449.50	3768465.00	11.79535	(17123021)	435449.50
3768665.00	11.48250	(18121107)		
435249.50	3765665.00	7.39439	(23121721)	435249.50

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3765865.00      7.88947 (22011124)
      435249.50  3766065.00      8.28438 (23121424)      435249.50
3766265.00      8.72025 (18121023)
      435249.50  3766465.00      9.06593 (21013122)      435249.50
3766665.00      9.17928 (18120606)
      435249.50  3766865.00      8.92097 (21121003)      435249.50
3767065.00      8.80234 (23121718)
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***      03/25/25
*** AERMET - VERSION 22112 *** ***
***      12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: COST ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
435249.50	3767265.00	8.50536	(21120703)	435249.50
3767465.00	8.09426	(18021623)		
435249.50	3767665.00	10.64489	(22021201)	435249.50
3767865.00	10.04090	(21012720)		
435249.50	3768065.00	10.49962	(18120520)	435249.50
3768265.00	10.63924	(22121101)		
435249.50	3768465.00	10.76292	(17021702)	435249.50
3768665.00	10.60899	(17123021)		
435049.50	3765665.00	6.49994	(18012403)	435049.50
3765865.00	7.01398	(23121022)		
435049.50	3766065.00	7.31821	(21010918)	435049.50
3766265.00	7.61674	(21120707)		
435049.50	3766465.00	7.87805	(21013122)	435049.50
3766665.00	7.92855	(18120606)		

435049.50	3766865.00	7.75024	(23021305)	435049.50
3767065.00	7.85324	(23121718)		
435049.50	3767265.00	7.48659	(17122819)	435049.50
3767465.00	7.13454	(21013121)		
435049.50	3767665.00	7.64295	(23120517)	435049.50
3767865.00	9.40903	(22021124)		
435049.50	3768065.00	9.26457	(23122103)	435049.50
3768265.00	9.46428	(18120520)		
435049.50	3768465.00	9.84753	(22121101)	435049.50
3768665.00	9.64521	(17021702)		

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436849.50	3766465.00	111.01312	(21122916)	436849.50
3766485.00	154.66143	(21122916)		
436849.50	3766505.00	202.70838	(21122916)	436849.50
3766525.00	246.39695	(21122916)		
436849.50	3766545.00	269.10501	(21122916)	436849.50
3766565.00	255.41363	(21122916)		
436849.50	3766585.00	208.95411	(21122916)	436849.50
3766605.00	224.91963	(22091807)		
436849.50	3766625.00	241.95786	(22091807)	436849.50
3766645.00	220.11930	(22091807)		
436849.50	3766665.00	169.87157	(21010621)	436849.50

3766685.00	184.58983	(17040407)	
436849.50	3766705.00	180.25519	(17040407) 436849.50
3766725.00	165.92825	(17101517)	
436849.50	3766745.00	169.90196	(17101517) 436849.50
3766765.00	159.23474	(22012917)	
436849.50	3766785.00	158.43221	(22012917) 436849.50
3766805.00	145.73721	(22012917)	
436849.50	3766825.00	126.65082	(22012917) 436849.50
3766845.00	105.49545	(22012917)	
436849.50	3766865.00	84.97305	(22012917) 436869.50
3766465.00	105.52636	(22021222)	
436869.50	3766485.00	138.28662	(21122916) 436869.50
3766505.00	192.03169	(21122916)	
436869.50	3766525.00	250.47998	(21122916) 436869.50
3766545.00	299.09278	(21122916)	
436869.50	3766565.00	311.51883	(21122916) 436869.50
3766585.00	275.58945	(21122916)	
436869.50	3766725.00	202.27751	(17101517) 436869.50
3766745.00	192.12086	(17101517)	
436869.50	3766765.00	191.10233	(22012917) 436869.50
3766785.00	175.86902	(22012917)	
436869.50	3766805.00	151.54098	(22012917) 436869.50
3766825.00	124.82676	(22012917)	
436869.50	3766845.00	99.37940	(22012917) 436869.50
3766865.00	82.69097	(22121718)	
436889.50	3766465.00	110.93464	(23010921) 436889.50
3766485.00	122.34594	(22021222)	
436889.50	3766545.00	314.03637	(21122916) 436889.50
3766565.00	364.71203	(21122916)	
436889.50	3766585.00	352.19513	(21122916) 436889.50
3766725.00	239.66551	(17101517)	
436889.50	3766745.00	234.18019	(22012917) 436889.50
3766765.00	215.93846	(22012917)	
436889.50	3766785.00	183.99652	(22012917) 436889.50
3766805.00	149.50061	(22012917)	
436889.50	3766825.00	117.50220	(22012917) 436889.50
3766845.00	93.23219	(22121718)	
436889.50	3766865.00	86.95793	(21013119) 436909.50
3766465.00	118.28427	(17012920)	
436909.50	3766485.00	128.84299	(17021522) 436909.50
3766725.00	290.22470	(22012917)	
436909.50	3766745.00	270.36040	(22012917) 436909.50
3766765.00	226.97546	(22012917)	
436909.50	3766785.00	181.32052	(22012917) 436909.50
3766805.00	140.45823	(22012917)	
436909.50	3766825.00	106.88044	(21013119) 436909.50
3766845.00	98.33582	(21013119)	
436909.50	3766865.00	90.31893	(17120802) 436929.50
3766465.00	122.27311	(17121123)	
436929.50	3766485.00	134.54265	(17012920) 436929.50

3766725.00	343.74817	(22012917)		
436929.50	3766745.00	284.17571	(22012917)	436929.50
3766765.00	222.84785	(22012917)		
436929.50	3766785.00	170.27631	(22012917)	436929.50
3766805.00	126.63373	(22012917)		
436929.50	3766825.00	120.01644	(22123016)	436929.50
3766845.00	112.91436	(22123016)		
436929.50	3766865.00	105.77099	(22123016)	436949.50
3766465.00	131.13261	(22120216)		
436949.50	3766485.00	146.09822	(22120216)	436949.50
3766725.00	358.61979	(22012917)		
436949.50	3766745.00	277.55140	(22012917)	436949.50
3766765.00	209.84795	(22012917)		
436949.50	3766785.00	181.38836	(22123016)	436949.50
3766805.00	162.71344	(22123016)		
436949.50	3766825.00	146.54543	(22123016)	436949.50
3766845.00	132.66219	(22123016)		
436949.50	3766865.00	120.73685	(22123016)	436969.50
3766725.00	349.58066	(22012917)		

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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 *** 12:32:57

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

436969.50	3766745.00	266.48735	(22123016)	436969.50
3766765.00	230.92879	(22123016)		

436969.50	3766785.00	201.08273	(22123016)	436969.50
3766805.00	177.03591	(22123016)		
436969.50	3766825.00	157.18638	(22123016)	436969.50
3766845.00	140.61806	(22123016)		
436969.50	3766865.00	126.72589	(22123016)	436989.50
3766725.00	334.10174	(22012917)		
436989.50	3766745.00	268.20860	(22123016)	436989.50
3766765.00	232.95264	(22123016)		
436989.50	3766785.00	202.58549	(22123016)	436989.50
3766805.00	178.88144	(22123016)		
436989.50	3766825.00	158.86160	(22123016)	436989.50
3766845.00	141.75871	(22123016)		
436989.50	3766865.00	127.10608	(22123016)	437009.50
3766785.00	202.25266	(22123016)		
437009.50	3766805.00	177.56003	(22123016)	437009.50
3766825.00	157.04890	(22123016)		
437009.50	3766845.00	139.58176	(22123016)	437009.50
3766865.00	123.98490	(22123016)		
437029.50	3766785.00	201.14854	(22123016)	437029.50
3766805.00	174.95142	(22123016)		
437029.50	3766825.00	152.80069	(22123016)	437029.50
3766845.00	133.68646	(22123016)		
437029.50	3766865.00	116.62609	(22123016)	437049.50
3766785.00	196.26382	(22123016)		
437049.50	3766805.00	167.03724	(22123016)	437049.50
3766825.00	142.09136	(22123016)		
437049.50	3766845.00	120.79020	(22123016)	437049.50
3766865.00	106.34657	(22123020)		
437069.50	3766785.00	181.57171	(22123016)	437069.50
3766805.00	148.15181	(22123016)		
437069.50	3766825.00	125.87871	(21121718)	437069.50
3766845.00	115.64989	(21121718)		
437069.50	3766865.00	104.58365	(21121718)	437089.50
3766785.00	159.47739	(22021121)		
437089.50	3766805.00	142.73235	(22021121)	437089.50
3766825.00	128.25271	(22021121)		
437089.50	3766845.00	115.67026	(22021121)	437089.50
3766865.00	105.18221	(22021121)		
437109.50	3766785.00	162.72886	(17022718)	437109.50
3766805.00	140.01652	(22021121)		
437109.50	3766825.00	126.90836	(22021121)	437109.50
3766845.00	115.52562	(22021121)		
437109.50	3766865.00	105.69762	(22021121)	437129.50
3766785.00	167.61625	(17022718)		
437129.50	3766805.00	147.12889	(17022718)	437129.50
3766825.00	128.60866	(17022718)		
437129.50	3766845.00	112.30128	(17011019)	437129.50
3766865.00	102.02452	(17011019)		
437149.50	3766785.00	166.07824	(21122917)	437149.50
3766805.00	148.87671	(17022718)		

437149.50	3766825.00	132.87755	(17022718)	437149.50
3766845.00	118.02424	(17022718)		
437149.50	3766865.00	104.33874	(17022718)	437169.50
3766785.00	163.27269	(17022023)		
437169.50	3766805.00	144.65070	(17021106)	437169.50
3766825.00	131.67925	(18021824)		
437169.50	3766845.00	119.42592	(17022718)	437169.50
3766865.00	107.86109	(17022718)		
437189.50	3766465.00	99.68916	(21123016)	437189.50
3766485.00	105.32161	(21123016)		
437189.50	3766505.00	114.35704	(23010216)	437189.50
3766525.00	131.45534	(23010216)		
437189.50	3766545.00	150.36326	(23010724)	437189.50
3766565.00	184.10541	(23122022)		
437189.50	3766585.00	217.05217	(22122916)	437189.50
3766605.00	331.38862	(22122916)		
437189.50	3766625.00	373.93401	(22122916)	437189.50
3766645.00	347.86243	(22122916)		
437189.50	3766665.00	301.24590	(21050807)	437189.50
3766685.00	319.00450	(17020617)		
437189.50	3766705.00	355.73991	(17020617)	437189.50
3766725.00	319.46222	(17020617)		
437189.50	3766745.00	243.91186	(17020617)	437189.50
3766765.00	180.66831	(21061519)		
437189.50	3766785.00	156.93084	(23020217)	437189.50
3766805.00	142.07420	(17022023)		
437189.50	3766825.00	127.96569	(17021106)	437189.50
3766845.00	116.54642	(18021824)		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)		Y-COORD (M) CONC	CONC (YYMMDDHH)	(YYMMDDHH)	X-COORD (M)

	437189.50	3766865.00	107.34763	(18021824)	437209.50
3766465.00		83.75434 (23010216)			
	437209.50	3766485.00	96.30242	(23010216)	437209.50
3766505.00		107.95523 (23010216)			
	437209.50	3766525.00	123.63853	(23010724)	437209.50
3766545.00		150.21714 (23122022)			
	437209.50	3766565.00	175.56682	(23122022)	437209.50
3766585.00		214.18291 (22122916)			
	437209.50	3766605.00	298.63282	(22122916)	437209.50
3766625.00		323.39550 (22122916)			
	437209.50	3766645.00	293.86668	(22122916)	437209.50
3766665.00		253.44244 (17013017)			
	437209.50	3766685.00	263.36065	(18111916)	437209.50
3766705.00		274.73923 (17020617)			
	437209.50	3766725.00	271.38739	(17020617)	437209.50
3766745.00		229.74495 (17020617)			
	437209.50	3766765.00	176.31446	(17020617)	437209.50
3766785.00		151.17390 (21061519)			
	437209.50	3766805.00	134.40982	(17021101)	437209.50
3766825.00		124.38390 (17022023)			
	437209.50	3766845.00	113.40059	(17021106)	437209.50
3766865.00		103.85979 (17021106)			
	437229.50	3766465.00	82.02888	(23010216)	437229.50
3766485.00		90.20903 (23010216)			
	437229.50	3766505.00	103.47374	(23010724)	437229.50
3766525.00		125.32842 (23010724)			
	437229.50	3766545.00	146.76620	(23122022)	437229.50
3766565.00		162.55044 (23122022)			
	437229.50	3766585.00	205.78207	(22122916)	437229.50
3766605.00		266.20983 (22122916)			
	437229.50	3766625.00	278.56584	(22122916)	437229.50
3766645.00		244.73718 (22122916)			
	437229.50	3766665.00	220.15366	(17013017)	437229.50
3766685.00		223.26767 (17013017)			
	437229.50	3766705.00	227.73417	(18111916)	437229.50
3766725.00		221.32262 (17020617)			
	437229.50	3766745.00	204.31186	(17020617)	437229.50
3766765.00		169.69700 (17020617)			
	437229.50	3766785.00	140.07025	(23120518)	437229.50
3766805.00		128.71781 (23120518)			
	437229.50	3766825.00	117.38490	(17021101)	437229.50
3766845.00		109.70180 (17022023)			
	437229.50	3766865.00	101.17079	(17022023)	437249.50

3766465.00	76.49903	(23010216)		
437249.50	3766485.00	87.60865	(23010724)	437249.50
3766505.00	105.95242	(23010724)		
437249.50	3766525.00	124.02037	(23122022)	437249.50
3766545.00	139.44991	(23122022)		
437249.50	3766565.00	149.11372	(22120423)	437249.50
3766585.00	193.81169	(22122916)		
437249.50	3766605.00	236.09489	(22122916)	437249.50
3766625.00	238.83465	(22122916)		
437249.50	3766645.00	202.58555	(22122916)	437249.50
3766665.00	190.23286	(17013017)		
437249.50	3766685.00	195.45326	(17013017)	437249.50
3766705.00	193.25959	(18111916)		
437249.50	3766725.00	178.56529	(18111916)	437249.50
3766745.00	175.01844	(17020617)		
437249.50	3766765.00	156.03206	(17020617)	437249.50
3766785.00	132.64807	(22120420)		
437249.50	3766805.00	121.92841	(23120518)	437249.50
3766825.00	112.59766	(23120518)		
437249.50	3766845.00	103.58679	(17021101)	437249.50
3766865.00	97.50018	(17022023)		
436849.50	3766915.00	66.98206	(21013119)	436849.50
3766965.00	57.31838	(17120802)		
436849.50	3767015.00	50.20842	(17010121)	436849.50
3767065.00	45.42215	(21011119)		
436849.50	3767115.00	55.26671	(18020621)	436849.50
3767165.00	56.02775	(18020621)		
436899.50	3766915.00	73.44925	(17010121)	436899.50
3766965.00	62.76595	(22123016)		
436899.50	3767015.00	56.69483	(22123016)	436899.50
3767065.00	50.29407	(22123016)		
436899.50	3767115.00	57.69584	(23120818)	436899.50
3767165.00	57.46318	(22011520)		
436949.50	3766915.00	97.01928	(22123016)	436949.50
3766965.00	79.10342	(22123016)		
436949.50	3767015.00	64.54611	(22123016)	436949.50
3767065.00	57.02857	(21021602)		

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

```

, L0000011      , L0000012      , L0000013      ,
                  L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
                  L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436949.50	3767115.00	57.38137	(21010920)	436949.50
3767165.00	57.95285	(21010920)		
436999.50	3766915.00	95.26130	(22123016)	436999.50
3766965.00	71.90796	(22123016)		
436999.50	3767015.00	72.19911	(23121822)	436999.50
3767065.00	68.01413	(23121822)		
436999.50	3767115.00	61.49223	(23121822)	436999.50
3767165.00	56.92808	(21020523)		
437049.50	3766915.00	86.40727	(22123020)	437049.50
3766965.00	71.65423	(22123020)		
437049.50	3767015.00	79.91953	(18010623)	437049.50
3767065.00	73.13738	(18010623)		
437049.50	3767115.00	66.88887	(18010623)	437049.50
3767165.00	61.14266	(18010623)		
437099.50	3766915.00	84.79782	(22021121)	437099.50
3766965.00	69.58146	(23011519)		
437099.50	3767015.00	77.18928	(21121718)	437099.50
3767065.00	71.54396	(21121718)		
437099.50	3767115.00	66.55799	(17020701)	437099.50
3767165.00	62.01408	(21011622)		
437149.50	3766915.00	81.92374	(17011019)	437149.50
3766965.00	68.81798	(22021121)		
437149.50	3767015.00	70.39205	(22021121)	437149.50
3767065.00	69.58811	(17020921)		
437149.50	3767115.00	65.83968	(17020921)	437149.50
3767165.00	61.00558	(18022521)		
437199.50	3766915.00	85.69858	(17022718)	437199.50
3766965.00	67.90984	(23030501)		
437199.50	3767015.00	60.09835	(17011019)	437199.50
3767065.00	66.30704	(18021205)		
437199.50	3767115.00	65.22416	(21120303)	437199.50
3767165.00	60.78702	(18121917)		
437249.50	3766915.00	81.68364	(17021106)	437249.50
3766965.00	71.83757	(17022718)		

437249.50	3767015.00	66.40108	(17022718)	437249.50
3767065.00	61.35032	(21122307)		
437249.50	3767115.00	61.08682	(21122307)	437249.50
3767165.00	57.97385	(18020924)		
437299.50	3766915.00	74.85567	(17022023)	437299.50
3766965.00	66.14397	(17021106)		
437299.50	3767015.00	60.71441	(21122917)	437299.50
3767065.00	62.03772	(17022718)		
437299.50	3767115.00	59.83496	(17022718)	437299.50
3767165.00	55.30750	(17122617)		
437349.50	3766915.00	68.11980	(23120518)	437349.50
3766965.00	63.50041	(17022023)		
437349.50	3767015.00	58.92762	(17022023)	437349.50
3767065.00	57.95149	(17021022)		
437349.50	3767115.00	59.50587	(17022718)	437349.50
3767165.00	55.92291	(17022718)		
437399.50	3766915.00	61.89513	(23120518)	437399.50
3766965.00	60.16999	(17021101)		
437399.50	3767015.00	58.59282	(17022023)	437399.50
3767065.00	59.93172	(17012922)		
437399.50	3767115.00	59.23778	(17021022)	437399.50
3767165.00	55.03474	(17021521)		
437449.50	3766915.00	58.97437	(22021018)	437449.50
3766965.00	59.52789	(17021103)		
437449.50	3767015.00	58.89573	(23121620)	437449.50
3767065.00	57.86108	(17021101)		
437449.50	3767115.00	56.36970	(17021021)	437449.50
3767165.00	53.23056	(23010223)		
437499.50	3766915.00	58.53939	(22120420)	437499.50
3766965.00	60.03557	(17010601)		
437499.50	3767015.00	58.56975	(17122817)	437499.50
3767065.00	56.55413	(23121620)		
437499.50	3767115.00	54.51444	(17021101)	437499.50
3767165.00	52.03532	(17021021)		
437549.50	3766915.00	55.28067	(17021705)	437549.50
3766965.00	59.17281	(22021018)		
437549.50	3767015.00	57.13535	(22121917)	437549.50
3767065.00	56.04612	(17122817)		
437549.50	3767115.00	52.87398	(17021701)	437549.50
3767165.00	49.65804	(17012819)		
437299.50	3766865.00	87.49917	(23120518)	437299.50
3766815.00	103.69477	(22120420)		
437299.50	3766765.00	122.80143	(22020823)	437299.50
3766715.00	138.42487	(18020819)		
437299.50	3766665.00	142.42154	(18122420)	437299.50
3766615.00	169.74518	(22122916)		

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 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***

*** 12:32:57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437299.50	3766565.00	125.96192	(22122916)	437299.50
3766515.00	106.30877	(23122022)		
437299.50	3766465.00	78.35639	(23010724)	437299.50
3766415.00	53.37607	(23010216)		
437299.50	3766365.00	44.55846	(23010216)	437299.50
3766315.00	35.27126	(21123016)		
437299.50	3766265.00	35.35023	(21123016)	437299.50
3766215.00	33.02445	(21123016)		
437299.50	3766165.00	29.35676	(21123016)	437349.50
3766865.00	76.05831	(17010904)		
437349.50	3766815.00	91.97241	(22120420)	437349.50
3766765.00	101.98944	(18120817)		
437349.50	3766715.00	109.59102	(18020819)	437349.50
3766665.00	113.39484	(18122420)		
437349.50	3766615.00	119.15395	(22122916)	437349.50
3766565.00	109.76533	(22122916)		
437349.50	3766515.00	90.09482	(22120423)	437349.50
3766465.00	77.45756	(23122022)		
437349.50	3766415.00	56.26813	(23010724)	437349.50
3766365.00	39.50416	(23010216)		
437349.50	3766315.00	34.45826	(23010216)	437349.50
3766265.00	26.94192	(23010216)		
437349.50	3766215.00	25.43126	(21123016)	437349.50
3766165.00	25.31800	(21123016)		
437399.50	3766865.00	71.77139	(22120420)	437399.50

3766815.00	79.23945	(22020823)		
437399.50	3766765.00	86.15528	(18121118)	437399.50
3766715.00	91.05057	(22122217)		
437399.50	3766665.00	92.90991	(18122420)	437399.50
3766615.00	86.98300	(22021218)		
437399.50	3766565.00	91.61529	(22122916)	437399.50
3766515.00	76.76030	(18010718)		
437399.50	3766465.00	71.16950	(23122022)	437399.50
3766415.00	58.41764	(23010724)		
437399.50	3766365.00	42.01837	(23010724)	437399.50
3766315.00	30.48660	(23010216)		
437399.50	3766265.00	27.39670	(23010216)	437399.50
3766215.00	22.32975	(23010216)		
437399.50	3766165.00	18.35125	(21123016)	437449.50
3766865.00	63.56787	(22120420)		
437449.50	3766815.00	68.75922	(23010521)	437449.50
3766765.00	74.29562	(18020819)		
437449.50	3766715.00	76.68813	(22122217)	437449.50
3766665.00	77.96301	(18122420)		
437449.50	3766615.00	73.04904	(17021922)	437449.50
3766565.00	74.92298	(22122916)		
437449.50	3766515.00	66.28802	(18010119)	437449.50
3766465.00	61.92139	(22120423)		
437449.50	3766415.00	56.51770	(23122022)	437449.50
3766365.00	44.95758	(23010724)		
437449.50	3766315.00	32.18466	(23010724)	437449.50
3766265.00	24.26828	(23010216)		
437449.50	3766215.00	22.28368	(23010216)	437449.50
3766165.00	18.74987	(23010216)		
437499.50	3766865.00	56.61477	(21120906)	437499.50
3766815.00	60.51536	(22012018)		
437499.50	3766765.00	64.33571	(18020819)	437499.50
3766715.00	65.56497	(21121118)		
437499.50	3766665.00	66.64134	(18122420)	437499.50
3766615.00	62.87666	(22021020)		
437499.50	3766565.00	61.60462	(22021218)	437499.50
3766515.00	58.46085	(21011019)		
437499.50	3766465.00	55.02531	(22120423)	437499.50
3766415.00	52.00119	(23122022)		
437499.50	3766365.00	45.05205	(23122022)	437499.50
3766315.00	35.49526	(23010724)		
437499.50	3766265.00	25.31957	(23010724)	437499.50
3766215.00	19.80104	(23010216)		
437499.50	3766165.00	18.47556	(23010216)	437549.50
3766865.00	51.23962	(22020823)		
437549.50	3766815.00	53.58563	(18121118)	437549.50
3766765.00	55.72786	(18020819)		
437549.50	3766715.00	57.08291	(21121118)	437549.50
3766665.00	57.86898	(18122420)		
437549.50	3766615.00	54.85246	(22021020)	437549.50

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3766565.00      54.34328 (22021218)
      437549.50  3766515.00      51.63008 (21011019)      437549.50
3766465.00      49.02744 (18010718)
      437549.50  3766415.00      46.24861 (22120423)      437549.50
3766365.00      43.34461 (23122022)
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***      03/25/25
*** AERMET - VERSION 22112 *** ***
***      12:32:57

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

437549.50	3766315.00	36.51494	(23010724)	437549.50
3766265.00	28.27237	(23010724)		
437549.50	3766215.00	20.19252	(23010724)	437549.50
3766165.00	16.47155	(23010216)		
437249.50	3766415.00	59.68340	(23010216)	437249.50
3766365.00	53.19923	(21123016)		
437249.50	3766315.00	48.81907	(21123016)	437249.50
3766265.00	42.23492	(21123016)		
437249.50	3766215.00	35.04307	(21123016)	437249.50
3766165.00	28.18900	(21123016)		
437199.50	3766415.00	79.91571	(21123016)	437199.50
3766365.00	65.74569	(21123016)		
437199.50	3766315.00	51.98628	(21123016)	437199.50
3766265.00	39.86860	(21123016)		
437199.50	3766215.00	29.87340	(21123016)	437199.50
3766165.00	22.03394	(21123016)		

437149.50	3766415.00	84.13014	(21123016)	437149.50
3766365.00	60.33698	(21123016)		
437149.50	3766315.00	42.32444	(21123016)	437149.50
3766265.00	29.23564	(21123016)		
437149.50	3766215.00	22.43044	(22122522)	437149.50
3766165.00	19.41877	(22020103)		
437099.50	3766415.00	65.73699	(21123016)	437099.50
3766365.00	46.35134	(23022717)		
437099.50	3766315.00	36.03747	(23022717)	437099.50
3766265.00	28.89036	(23022717)		
437099.50	3766215.00	23.70056	(23022717)	437099.50
3766165.00	19.97024	(17121102)		
437049.50	3766415.00	91.42220	(23022717)	437049.50
3766365.00	69.69672	(23022717)		
437049.50	3766315.00	54.57357	(23022717)	437049.50
3766265.00	43.66894	(23022717)		
437049.50	3766215.00	35.61761	(23022717)	437049.50
3766165.00	29.52297	(23022717)		
436999.50	3766415.00	106.47499	(22120216)	436999.50
3766365.00	78.29718	(22120216)		
436999.50	3766315.00	60.26269	(23022717)	436999.50
3766265.00	49.38640	(23022717)		
436999.50	3766215.00	41.07729	(23022717)	436999.50
3766165.00	34.57376	(23022717)		
436949.50	3766415.00	101.97154	(22120216)	436949.50
3766365.00	80.49593	(22120216)		
436949.50	3766315.00	64.22241	(22120216)	436949.50
3766265.00	51.62071	(22120216)		
436949.50	3766215.00	41.81975	(22120216)	436949.50
3766165.00	34.12310	(22120216)		
436899.50	3766415.00	91.28100	(17121123)	436899.50
3766365.00	74.74047	(17121123)		
436899.50	3766315.00	59.42231	(17121123)	436899.50
3766265.00	47.39597	(22120216)		
436899.50	3766215.00	40.80268	(22120216)	436899.50
3766165.00	34.96618	(22120216)		
436849.50	3766415.00	82.79384	(23010921)	436849.50
3766365.00	71.47671	(17012920)		
436849.50	3766315.00	61.68067	(17121123)	436849.50
3766265.00	52.95013	(17121123)		
436849.50	3766215.00	43.83746	(17121123)	436849.50
3766165.00	35.76429	(17121123)		
436799.50	3766415.00	75.27372	(22011223)	436799.50
3766365.00	66.51214	(22021222)		
436799.50	3766315.00	58.53532	(17012920)	436799.50
3766265.00	51.99115	(17012920)		
436799.50	3766215.00	46.05106	(17121123)	436799.50
3766165.00	40.15399	(17121123)		
436749.50	3766415.00	92.81438	(21122916)	436749.50
3766365.00	61.03889	(22011223)		

436749.50	3766315.00	55.14277	(22021222)	436749.50
3766265.00	48.68229	(18011223)		
436749.50	3766215.00	44.16788	(17012920)	436749.50
3766165.00	39.41043	(17121123)		
436699.50	3766415.00	100.17909	(21122916)	436699.50
3766365.00	62.50068	(21122916)		
436699.50	3766315.00	49.52994	(22011223)	436699.50
3766265.00	45.78506	(22021222)		
436699.50	3766215.00	40.93062	(23010921)	436699.50
3766165.00	37.60878	(17012920)		
436649.50	3766415.00	90.25183	(21122916)	436649.50
3766365.00	72.07103	(21122916)		
436649.50	3766315.00	46.09617	(22011222)	436649.50
3766265.00	41.71008	(22011223)		

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***
 *** 12:32:57

PAGE 79

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** *** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
436649.50	3766215.00	38.70659	(22021222)	436649.50
3766165.00	35.23933	(22122424)		
436599.50	3766415.00	70.92101	(21122916)	436599.50
3766365.00	70.70740	(21122916)		
436599.50	3766315.00	52.51141	(21122916)	436599.50
3766265.00	39.16408	(22011222)		
436599.50	3766215.00	35.66615	(22011223)	436599.50

3766165.00	33.56126	(22021222)		
436549.50	3766415.00	50.52819	(21122916)	436549.50
3766365.00	61.21781	(21122916)		
436549.50	3766315.00	54.98788	(21122916)	436549.50
3766265.00	38.87317	(21122916)		
436549.50	3766215.00	33.25170	(22011222)	436549.50
3766165.00	30.59937	(22011223)		
436799.50	3766465.00	141.61235	(21122916)	436799.50
3766515.00	194.24149	(21122916)		
436799.50	3766565.00	135.89554	(21122916)	436799.50
3766615.00	176.02325	(22091807)		
436799.50	3766665.00	129.60526	(22021202)	436799.50
3766715.00	125.42554	(17122819)		
436799.50	3766765.00	117.32784	(17101517)	436799.50
3766815.00	108.51893	(22012917)		
436799.50	3766865.00	91.33717	(22012917)	436799.50
3766915.00	60.29410	(22011020)		
436799.50	3766965.00	52.22962	(22121718)	436799.50
3767015.00	46.79244	(21013119)		
436799.50	3767065.00	46.74021	(17120802)	436799.50
3767115.00	51.83661	(22011901)		
436799.50	3767165.00	50.78326	(22011901)	436749.50
3766465.00	140.37948	(21122916)		
436749.50	3766515.00	132.16088	(21122916)	436749.50
3766565.00	98.18005	(21010918)		
436749.50	3766615.00	131.26750	(22091807)	436749.50
3766665.00	103.79545	(22021202)		
436749.50	3766715.00	102.51530	(23121718)	436749.50
3766765.00	94.85488	(21013121)		
436749.50	3766815.00	84.66890	(23123005)	436749.50
3766865.00	77.91054	(22012917)		
436749.50	3766915.00	64.88721	(22012917)	436749.50
3766965.00	48.11516	(22011020)		
436749.50	3767015.00	42.74810	(22121718)	436749.50
3767065.00	43.42191	(23121519)		
436749.50	3767115.00	49.90879	(17123124)	436749.50
3767165.00	50.62058	(22011901)		
436699.50	3766465.00	112.55412	(21122916)	436699.50
3766515.00	77.45207	(23121022)		
436699.50	3766565.00	85.14531	(22091807)	436699.50
3766615.00	99.30025	(22091807)		
436699.50	3766665.00	85.63356	(22021202)	436699.50
3766715.00	85.48076	(23121718)		
436699.50	3766765.00	79.40861	(17122819)	436699.50
3766815.00	74.61403	(23120517)		
436699.50	3766865.00	64.19342	(23123005)	436699.50
3766915.00	58.35861	(22012917)		
436699.50	3766965.00	48.13659	(22012917)	436699.50
3767015.00	39.76258	(22011020)		
436699.50	3767065.00	40.56470	(22121718)	436699.50

3767115.00	48.20440	(18120604)			
436699.50	3767165.00	47.38491	(18120604)		436649.50
3766465.00	77.90626	(21122916)			
436649.50	3766515.00	66.54616	(23121424)		436649.50
3766565.00	73.82073	(22091807)			
436649.50	3766615.00	76.27815	(22091807)		436649.50
3766665.00	71.98993	(22021202)			
436649.50	3766715.00	71.60776	(23121718)		436649.50
3766765.00	68.00771	(17122819)			
436649.50	3766815.00	63.88461	(21013121)		436649.50
3766865.00	59.07943	(23120517)			
436649.50	3766915.00	49.15403	(23123005)		436649.50
3766965.00	44.90468	(22012917)			
436649.50	3767015.00	42.85009	(22011519)		436649.50
3767065.00	46.95151	(23010301)			
436649.50	3767115.00	48.77789	(21120305)		436649.50
3767165.00	46.57776	(18010218)			
436599.50	3766465.00	54.11159	(22011124)		436599.50
3766515.00	57.30655	(21010918)			
436599.50	3766565.00	63.14891	(22091807)		436599.50
3766615.00	61.88141	(18120602)			
436599.50	3766665.00	61.60386	(22021202)		436599.50
3766715.00	60.80329	(23121719)			

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
 *** AERMET - VERSION 22112 *** ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

	436599.50	3766765.00	58.68189	(17020505)	436599.50
3766815.00	56.30499	(21013121)			
	436599.50	3766865.00	53.38298	(23120517)	436599.50
3766915.00	47.70384	(23123005)			
	436599.50	3766965.00	38.29649	(23123005)	436599.50
3767015.00	37.92483	(22011519)			
	436599.50	3767065.00	43.85461	(22011702)	436599.50
3767115.00	44.17912	(18021322)			
	436599.50	3767165.00	43.96517	(21120305)	436549.50
3766465.00	48.17324	(23121022)			
	436549.50	3766515.00	50.72259	(17010723)	436549.50
3766565.00	53.76528	(22091807)			
	436549.50	3766615.00	53.54304	(18120602)	436549.50
3766665.00	53.37857	(22021202)			
	436549.50	3766715.00	52.25095	(23121719)	436549.50
3766765.00	51.86757	(23121718)			
	436549.50	3766815.00	49.37389	(17122819)	436549.50
3766865.00	46.88273	(18021623)			
	436549.50	3766915.00	44.34013	(23120517)	436549.50
3766965.00	38.76275	(23123005)			
	436549.50	3767015.00	30.67950	(23021020)	436549.50
3767065.00	28.47329	(22011519)			
	436549.50	3767115.00	27.24609	(22011020)	436549.50
3767165.00	31.26662	(21020907)			
	436549.50	3767265.00	34.25471	(21120305)	436549.50
3767365.00	33.52008	(18010218)			
	436549.50	3767465.00	31.26503	(17020603)	436549.50
3767565.00	29.80051	(22011901)			
	436549.50	3767665.00	27.63651	(17011123)	436649.50
3767265.00	41.19944	(21121002)			
	436649.50	3767365.00	39.06407	(22011901)	436649.50
3767465.00	34.97030	(17011123)			
	436649.50	3767565.00	32.20781	(23010522)	436649.50
3767665.00	29.70677	(21010919)			
	436749.50	3767265.00	44.51621	(17011123)	436749.50
3767365.00	41.06055	(21122017)			
	436749.50	3767465.00	36.59569	(17121119)	436749.50
3767565.00	33.36680	(21010119)			
	436749.50	3767665.00	30.98214	(21010119)	436849.50
3767265.00	49.00390	(23120818)			
	436849.50	3767365.00	41.97051	(22011520)	436849.50
3767465.00	37.82033	(18121918)			
	436849.50	3767565.00	34.69830	(18121918)	436849.50
3767665.00	31.28556	(18120917)			
	436949.50	3767265.00	48.66306	(21010920)	436949.50
3767365.00	41.97773	(23010523)			
	436949.50	3767465.00	37.72790	(23010523)	436949.50
3767565.00	35.23619	(18012524)			

436949.50	3767665.00	31.96393	(18012524)	437049.50
3767265.00	50.95381	(18010623)		
437049.50	3767365.00	43.82612	(18010623)	437049.50
3767465.00	39.34549	(17021024)		
437049.50	3767565.00	36.61917	(17021024)	437049.50
3767665.00	33.27055	(17021024)		
437149.50	3767265.00	53.02336	(18020521)	437149.50
3767365.00	46.51232	(23121720)		
437149.50	3767465.00	41.36724	(23121720)	437149.50
3767565.00	37.37762	(21011622)		
437149.50	3767665.00	34.27986	(21011622)	437249.50
3767265.00	50.74293	(17020322)		
437249.50	3767365.00	46.20346	(18121917)	437249.50
3767465.00	41.24442	(18121917)		
437249.50	3767565.00	36.85202	(21020904)	437249.50
3767665.00	33.69451	(21020904)		
437349.50	3767265.00	46.64509	(17122617)	437349.50
3767365.00	41.74944	(18010523)		
437349.50	3767465.00	38.46157	(18010523)	437349.50
3767565.00	35.14353	(17020322)		
437349.50	3767665.00	33.24474	(22012918)	437449.50
3767265.00	48.62879	(17021521)		
437449.50	3767365.00	42.86568	(21123023)	437449.50
3767465.00	36.81786	(17122617)		
437449.50	3767565.00	34.42941	(17020323)	437449.50
3767665.00	32.27142	(22120218)		
437549.50	3767265.00	45.70833	(17021021)	437549.50
3767365.00	42.15420	(22011823)		
437549.50	3767465.00	38.51631	(21123023)	437549.50
3767565.00	34.45915	(23021201)		
437549.50	3767665.00	30.82265	(23020321)	437649.50
3767265.00	42.04381	(17022624)		

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437649.50	3767365.00	39.53823	(17021021)	437649.50
3767465.00	36.12163	(22011902)		
437649.50	3767565.00	33.64994	(23122407)	437649.50
3767665.00	31.61869	(21123023)		
437749.50	3767265.00	38.69719	(17122817)	437749.50
3767365.00	36.48879	(17022624)		
437749.50	3767465.00	34.66269	(17010501)	437749.50
3767565.00	32.13223	(18012523)		
437749.50	3767665.00	30.86884	(22011902)	437849.50
3767265.00	35.66367	(22021123)		
437849.50	3767365.00	33.32022	(22012620)	437849.50
3767465.00	31.94496	(23121817)		
437849.50	3767565.00	30.51546	(23010603)	437849.50
3767665.00	28.64150	(18012523)		
437949.50	3767265.00	31.50183	(21120624)	437949.50
3767365.00	31.12288	(22021123)		
437949.50	3767465.00	29.64397	(22012620)	437949.50
3767565.00	28.51982	(23121817)		
437949.50	3767665.00	27.31417	(17021104)	438049.50
3767265.00	29.47337	(22011824)		
438049.50	3767365.00	28.29473	(21120624)	438049.50
3767465.00	27.47356	(22021123)		
438049.50	3767565.00	26.10485	(22012620)	438049.50
3767665.00	25.31159	(23121817)		
437649.50	3767165.00	46.77345	(17122817)	437649.50
3767065.00	47.03734	(22021018)		
437649.50	3766965.00	50.96604	(17021705)	437649.50
3766865.00	47.98382	(17011121)		
437649.50	3766765.00	44.20170	(22122217)	437649.50
3766665.00	45.27445	(18122420)		
437649.50	3766565.00	42.85226	(22021218)	437649.50
3766465.00	39.41260	(21011019)		
437649.50	3766365.00	35.92539	(22120423)	437649.50
3766265.00	30.00567	(23010724)		
437649.50	3766165.00	18.72521	(23010724)	437649.50
3766065.00	11.93258	(23010216)		
437649.50	3765965.00	10.40997	(23010216)	437649.50
3765865.00	7.44855	(23010216)		
437649.50	3765765.00	6.55180	(21122303)	437649.50

3765665.00	6.93059	(21123016)		
437749.50	3767165.00	40.69459	(22121917)	437749.50
3767065.00	45.06883	(22011824)		
437749.50	3766965.00	47.57397	(17021102)	437749.50
3766865.00	45.13310	(23020218)		
437749.50	3766765.00	36.18142	(22122217)	437749.50
3766665.00	36.68459	(18122420)		
437749.50	3766565.00	34.46162	(22021218)	437749.50
3766465.00	32.61662	(21011019)		
437749.50	3766365.00	30.35878	(23121917)	437749.50
3766265.00	28.20165	(23122022)		
437749.50	3766165.00	21.42322	(23010724)	437749.50
3766065.00	13.00757	(23010724)		
437749.50	3765965.00	9.05541	(23010216)	437749.50
3765865.00	8.16215	(23010216)		
437749.50	3765765.00	6.20337	(23010216)	437749.50
3765665.00	5.31514	(21020322)		
437849.50	3767165.00	36.91688	(22021018)	437849.50
3767065.00	41.10140	(21011718)		
437849.50	3766965.00	41.31564	(22120124)	437849.50
3766865.00	36.83011	(18020819)		
437849.50	3766765.00	30.20551	(21121118)	437849.50
3766665.00	30.58063	(18122420)		
437849.50	3766565.00	28.58005	(17123119)	437849.50
3766465.00	27.79683	(23012419)		
437849.50	3766365.00	26.05840	(18010119)	437849.50
3766265.00	24.10845	(22120423)		
437849.50	3766165.00	21.51147	(23122022)	437849.50
3766065.00	15.63650	(23010724)		
437849.50	3765965.00	9.40027	(23010724)	437849.50
3765865.00	7.10568	(23010216)		
437849.50	3765765.00	6.55937	(23010216)	437849.50
3765665.00	5.21580	(23010216)		
437949.50	3767165.00	33.87155	(22011824)	437949.50
3767065.00	34.12844	(17021102)		
437949.50	3766965.00	32.62459	(23020218)	437949.50
3766865.00	25.16983	(18020819)		
437949.50	3766765.00	25.77386	(21121118)	437949.50
3766665.00	25.99396	(18122420)		
437949.50	3766565.00	24.37314	(17021922)	437949.50
3766465.00	23.93476	(18010719)		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
437949.50	3766365.00	22.57616	(21011019)	437949.50
3766265.00	21.53139	(22120423)		
437949.50	3766165.00	20.25317	(23122022)	437949.50
3766065.00	16.70455	(23010724)		
437949.50	3765965.00	11.64772	(23010724)	437949.50
3765865.00	6.97801	(23010724)		
437949.50	3765765.00	5.72383	(23010216)	437949.50
3765665.00	5.37760	(23010216)		
438049.50	3767165.00	31.38587	(21011718)	438049.50
3767065.00	30.44475	(22120124)		
438049.50	3766965.00	29.24514	(21120907)	438049.50
3766865.00	23.27203	(22122805)		
438049.50	3766765.00	22.23254	(17021019)	438049.50
3766665.00	22.46667	(18122420)		
438049.50	3766565.00	21.14455	(17021922)	438049.50
3766465.00	20.94521	(22021218)		
438049.50	3766365.00	20.09921	(21011019)	438049.50
3766265.00	19.04847	(18010718)		
438049.50	3766165.00	17.72586	(18011906)	438049.50
3766065.00	16.45530	(23122022)		
438049.50	3765965.00	13.01529	(23010724)	438049.50
3765865.00	8.83273	(23010724)		
438049.50	3765765.00	5.48402	(22030520)	438049.50
3765665.00	4.70889	(23010216)		
437549.50	3766065.00	13.68938	(23010216)	437549.50
3765965.00	9.02077	(23010216)		
437549.50	3765865.00	9.75799	(21123016)	437549.50
3765765.00	9.69155	(21123016)		
437549.50	3765665.00	8.65614	(21123016)	437449.50
3766065.00	14.57305	(21123016)		

437449.50	3765965.00	14.82051	(21123016)	437449.50
3765865.00	13.00907	(21123016)		
437449.50	3765765.00	10.34685	(21123016)	437449.50
3765665.00	7.69944	(21123016)		
437349.50	3766065.00	21.56523	(21123016)	437349.50
3765965.00	16.11740	(21123016)		
437349.50	3765865.00	11.11997	(21123016)	437349.50
3765765.00	8.07923	(23012319)		
437349.50	3765665.00	7.03386	(23010623)	437249.50
3766065.00	17.14869	(21123016)		
437249.50	3765965.00	11.75819	(23010623)	437249.50
3765865.00	9.86558	(23122019)		
437249.50	3765765.00	8.39387	(22122522)	437249.50
3765665.00	7.23338	(22020103)		
437149.50	3766065.00	15.16506	(17121102)	437149.50
3765965.00	12.35945	(17121102)		
437149.50	3765865.00	10.28133	(17121102)	437149.50
3765765.00	8.67871	(17121102)		
437149.50	3765665.00	7.45343	(17121102)	437049.50
3766065.00	21.08151	(23022717)		
437049.50	3765965.00	15.67362	(23022717)	437049.50
3765865.00	12.02070	(23022717)		
437049.50	3765765.00	9.44628	(23022717)	437049.50
3765665.00	7.57621	(23022717)		
436949.50	3766065.00	24.82272	(23022717)	436949.50
3765965.00	19.47448	(23022717)		
436949.50	3765865.00	15.55724	(23022717)	436949.50
3765765.00	12.57776	(23022717)		
436949.50	3765665.00	10.29862	(23022717)	436849.50
3766065.00	24.47279	(22120216)		
436849.50	3765965.00	19.30607	(22120216)	436849.50
3765865.00	15.12023	(22120216)		
436849.50	3765765.00	11.83415	(22120216)	436849.50
3765665.00	9.30320	(22120216)		
436749.50	3766065.00	31.37404	(17121123)	436749.50
3765965.00	22.76198	(17121123)		
436749.50	3765865.00	16.41865	(17121123)	436749.50
3765765.00	11.49697	(22120216)		
436749.50	3765665.00	9.82548	(22120216)	436649.50
3766065.00	29.94530	(17012920)		
436649.50	3765965.00	25.22734	(17121123)	436649.50
3765865.00	21.03255	(17121123)		
436649.50	3765765.00	15.97925	(17121123)	436649.50
3765665.00	12.06617	(17121123)		
436549.50	3766065.00	26.65041	(21022023)	436549.50
3765965.00	23.11354	(17021522)		
436549.50	3765865.00	20.38239	(17012920)	436549.50
3765765.00	17.37102	(17121123)		
436549.50	3765665.00	14.83706	(17121123)	436449.50
3766065.00	23.80338	(22011223)		

^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
-	-	-	-	-
-	-	-	-	-
436449.50	3765965.00	21.30724	(22021222)	436449.50
3765865.00	18.89431	(18011223)		
436449.50	3765765.00	16.67782	(17012920)	436449.50
3765665.00	14.76285	(17121123)		
436349.50	3766065.00	21.81019	(22011222)	436349.50
3765965.00	19.27703	(22011223)		
436349.50	3765865.00	17.68963	(22021222)	436349.50
3765765.00	15.64724	(22122424)		
436349.50	3765665.00	14.26057	(17012920)	436249.50
3766065.00	19.21451	(18020805)		
436249.50	3765965.00	17.82364	(22011222)	436249.50
3765865.00	16.02721	(22011223)		
436249.50	3765765.00	14.50667	(22021222)	436249.50
3765665.00	13.10259	(22122424)		
436149.50	3766065.00	19.88114	(21122916)	436149.50
3765965.00	15.96269	(18010903)		
436149.50	3765865.00	14.84367	(22011222)	436149.50
3765765.00	13.11997	(22011223)		
436149.50	3765665.00	12.35446	(22021222)	436049.50
3766065.00	17.10737	(21122916)		
436049.50	3765965.00	14.74956	(21122916)	436049.50

3765865.00	13.72386	(18010903)		
436049.50	3765765.00	12.37448	(22011222)	436049.50
3765665.00	11.46267	(22011223)		
436449.50	3766165.00	27.31031	(22011222)	436449.50
3766265.00	42.29894	(21122916)		
436449.50	3766365.00	35.30903	(21122916)	436449.50
3766465.00	38.37662	(21010918)		
436449.50	3766565.00	41.04204	(18121706)	436449.50
3766665.00	41.47396	(18120606)		
436449.50	3766765.00	41.38214	(23121718)	436449.50
3766865.00	38.40518	(21013123)		
436449.50	3766965.00	34.95129	(23120517)	436449.50
3767065.00	25.98680	(23123005)		
436449.50	3767165.00	26.04318	(22011519)	436449.50
3767265.00	30.18262	(18021322)		
436449.50	3767365.00	29.84003	(21120305)	436449.50
3767465.00	29.42480	(18010218)		
436449.50	3767565.00	26.86643	(21123020)	436449.50
3767665.00	26.61169	(17020603)		
436349.50	3766165.00	28.22656	(21122916)	436349.50
3766265.00	32.37535	(21122916)		
436349.50	3766365.00	29.78731	(22011124)	436349.50
3766465.00	32.05532	(17010723)		
436349.50	3766565.00	33.32350	(18121706)	436349.50
3766665.00	33.57790	(18120606)		
436349.50	3766765.00	33.31535	(23121718)	436349.50
3766865.00	31.76521	(17122819)		
436349.50	3766965.00	29.66740	(18021623)	436349.50
3767065.00	26.16984	(23123005)		
436349.50	3767165.00	19.63236	(23021020)	436349.50
3767265.00	26.92571	(22011702)		
436349.50	3767365.00	27.08313	(18021322)	436349.50
3767465.00	26.61291	(21120305)		
436349.50	3767565.00	25.46597	(18010218)	436349.50
3767665.00	24.36370	(18010218)		
436249.50	3766165.00	26.11457	(21122916)	436249.50
3766265.00	23.61636	(18012403)		
436249.50	3766365.00	25.56948	(23121022)	436249.50
3766465.00	26.85777	(18121023)		
436249.50	3766565.00	27.81061	(21013122)	436249.50
3766665.00	27.96653	(18120606)		
436249.50	3766765.00	27.41260	(23121719)	436249.50
3766865.00	26.77598	(17020505)		
436249.50	3766965.00	25.58516	(21013121)	436249.50
3767065.00	23.82868	(23120517)		
436249.50	3767165.00	19.52158	(23123005)	436249.50
3767265.00	21.62820	(18120320)		
436249.50	3767365.00	24.92681	(22011702)	436249.50
3767465.00	23.13574	(18021322)		
436249.50	3767565.00	23.08175	(21120305)	436249.50

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3767665.00      22.29377 (17020905)
      436149.50      3766165.00      19.64061 (23121721)      436149.50
3766265.00      20.87386 (22011124)
      436149.50      3766365.00      22.01548 (23121424)      436149.50
3766465.00      22.94723 (18121023)
      436149.50      3766565.00      23.87213 (21013122)      436149.50
3766665.00      23.88810 (18120606)
      436149.50      3766765.00      23.21028 (21121003)      436149.50
3766865.00      22.87898 (23121718)
^ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc ***      03/25/25
*** AERMET - VERSION 22112 *** ***
***      12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

436149.50	3766965.00	22.16684	(21013123)	436149.50
3767065.00	21.03341	(23120517)		
436149.50	3767165.00	19.13127	(23123005)	436149.50
3767265.00	18.54920	(18022703)		
436149.50	3767365.00	21.98464	(18120519)	436149.50
3767465.00	21.95553	(22011702)		
436149.50	3767565.00	21.27282	(23123103)	436149.50
3767665.00	21.49796	(21120305)		
436049.50	3766165.00	17.33354	(18012403)	436049.50
3766265.00	18.55518	(23121022)		
436049.50	3766365.00	19.45599	(17010723)	436049.50
3766465.00	20.13633	(21120707)		

436049.50	3766565.00	20.66807	(18120602)	436049.50
3766665.00	20.63758	(18120606)		
436049.50	3766765.00	20.10189	(23021305)	436049.50
3766865.00	20.33764	(23121718)		
436049.50	3766965.00	19.44268	(17122819)	436049.50
3767065.00	18.44448	(21013121)		
436049.50	3767165.00	17.62197	(23120517)	436049.50
3767265.00	18.43384	(22021201)		
436049.50	3767365.00	21.03504	(23121420)	436049.50
3767465.00	20.88458	(18120519)		
436049.50	3767565.00	21.13594	(22011702)	436049.50
3767665.00	20.40274	(23020720)		
436049.50	3767865.00	19.15634	(18121107)	436049.50
3768065.00	18.33370	(18010218)		
436049.50	3768265.00	16.94182	(17013021)	436049.50
3768465.00	15.66754	(23122421)		
436049.50	3768665.00	14.98637	(21120902)	436249.50
3767865.00	21.68131	(17122519)		
436249.50	3768065.00	19.80170	(17020603)	436249.50
3768265.00	18.11438	(17120103)		
436249.50	3768465.00	16.85095	(18011820)	436249.50
3768665.00	15.64262	(21010919)		
436449.50	3767865.00	23.70825	(17011123)	436449.50
3768065.00	21.33441	(21020303)		
436449.50	3768265.00	19.59274	(21010919)	436449.50
3768465.00	17.52425	(18012006)		
436449.50	3768665.00	16.18841	(23012802)	436649.50
3767865.00	25.51537	(21010119)		
436649.50	3768065.00	22.74947	(23011607)	436649.50
3768265.00	20.87961	(23122405)		
436649.50	3768465.00	18.11646	(21020808)	436649.50
3768665.00	17.18279	(18020821)		
436849.50	3767865.00	27.35989	(18010803)	436849.50
3768065.00	24.31302	(18010602)		
436849.50	3768265.00	21.25488	(18010602)	436849.50
3768465.00	18.46999	(23011722)		
436849.50	3768665.00	16.58982	(17052022)	437049.50
3767865.00	27.90913	(23010318)		
437049.50	3768065.00	24.52248	(23010318)	437049.50
3768265.00	21.59210	(23010318)		
437049.50	3768465.00	19.55014	(18012208)	437049.50
3768665.00	17.83160	(18012208)		
437249.50	3767865.00	29.14809	(18011118)	437249.50
3768065.00	25.43233	(17020623)		
437249.50	3768265.00	22.16428	(17020623)	437249.50
3768465.00	19.85713	(21020119)		
437249.50	3768665.00	18.01203	(21020119)	437449.50
3767865.00	27.47469	(22012918)		
437449.50	3768065.00	24.35882	(18012007)	437449.50
3768265.00	21.52432	(17020318)		

437449.50	3768465.00	19.76461	(21021008)	437449.50
3768665.00	17.90328	(21021008)		
437649.50	3767865.00	26.16129	(23020321)	437649.50
3768065.00	23.24510	(17020323)		
437649.50	3768265.00	21.23066	(22120218)	437649.50
3768465.00	18.52127	(22012918)		
437649.50	3768665.00	17.26227	(22012918)	437849.50
3767865.00	25.90707	(23122407)		
437849.50	3768065.00	23.36437	(23021201)	437849.50
3768265.00	19.93967	(23020321)		
437849.50	3768465.00	17.91439	(23121919)	437849.50
3768665.00	16.89650	(18010508)		
438049.50	3767865.00	23.81316	(22122724)	438049.50
3768065.00	22.02434	(22011902)		
438049.50	3768265.00	19.79402	(17012124)	438049.50
3768465.00	17.80325	(23021201)		
438049.50	3768665.00	15.76304	(23020321)	438249.50
3767865.00	21.31073	(23121817)		

*** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
438249.50	3768065.00	20.01682	(22122724)	438249.50
3768265.00	18.60209	(23011822)		
438249.50	3768465.00	17.59586	(17010420)	438249.50

3768665.00	16.26801	(17012124)		
438449.50	3767865.00	19.46326	(21022722)	438449.50
3768065.00	18.46942	(18032121)		
438449.50	3768265.00	17.42492	(23010603)	438449.50
3768465.00	16.66408	(17020924)		
438449.50	3768665.00	15.63483	(18011718)	438649.50
3767865.00	17.48751	(18122303)		
438649.50	3768065.00	16.98830	(22012620)	438649.50
3768265.00	16.22554	(23051806)		
438649.50	3768465.00	15.57203	(17021104)	438649.50
3768665.00	14.76483	(17020924)		
438849.50	3767865.00	16.43956	(17021105)	438849.50
3768065.00	15.67923	(18012221)		
438849.50	3768265.00	15.11659	(22012620)	438849.50
3768465.00	14.57247	(23051806)		
438849.50	3768665.00	13.94464	(17021104)	439049.50
3767865.00	14.72492	(18122301)		
439049.50	3768065.00	14.41938	(21120321)	439049.50
3768265.00	14.07622	(22021123)		
439049.50	3768465.00	13.56032	(21020205)	439049.50
3768665.00	13.20473	(23051806)		
438249.50	3767665.00	22.92723	(22021123)	438249.50
3767465.00	23.33979	(21120624)		
438249.50	3767265.00	26.06466	(21011718)	438249.50
3767065.00	26.00098	(18020921)		
438249.50	3766865.00	23.41704	(17120320)	438249.50
3766665.00	17.44539	(18122420)		
438249.50	3766465.00	16.65209	(22021218)	438249.50
3766265.00	15.12130	(22122922)		
438249.50	3766065.00	13.73286	(18011906)	438249.50
3765865.00	10.90743	(23010724)		
438249.50	3765665.00	5.46026	(23010724)	438249.50
3765465.00	3.41449	(22021119)		
438249.50	3765265.00	2.98317	(17120219)	438249.50
3765065.00	2.60615	(18020321)		
438249.50	3764865.00	2.37639	(21122303)	438249.50
3764665.00	2.25684	(21122303)		
438449.50	3767665.00	20.09204	(18021001)	438449.50
3767465.00	21.68897	(22011824)		
438449.50	3767265.00	22.02931	(17011020)	438449.50
3767065.00	20.38991	(17010923)		
438449.50	3766865.00	18.07598	(23010906)	438449.50
3766665.00	16.05021	(18122420)		
438449.50	3766465.00	13.36015	(22021218)	438449.50
3766265.00	12.61282	(21011019)		
438449.50	3766065.00	11.70993	(23121917)	438449.50
3765865.00	10.73115	(23122022)		
438449.50	3765665.00	7.41401	(23010724)	438449.50
3765465.00	3.54943	(22030520)		
438449.50	3765265.00	2.74798	(22021119)	438449.50

3765065.00	2.44122	(18012318)		
438449.50	3764865.00	2.17251	(21022621)	438449.50
3764665.00	1.96768	(21020322)		
438649.50	3767665.00	17.79291	(21120417)	438649.50
3767465.00	19.28695	(21011718)		
438649.50	3767265.00	18.54396	(21123017)	438649.50
3767065.00	17.67244	(18020819)		
438649.50	3766865.00	12.49896	(21121118)	438649.50
3766665.00	11.68475	(18122420)		
438649.50	3766465.00	11.03052	(22121517)	438649.50
3766265.00	10.68516	(23012419)		
438649.50	3766065.00	10.01273	(18010718)	438649.50
3765865.00	9.24362	(18011906)		
438649.50	3765665.00	8.08328	(23010724)	438649.50
3765465.00	5.00344	(23010724)		
438649.50	3765265.00	2.50975	(22030520)	438649.50
3765065.00	2.27113	(22021119)		
438649.50	3764865.00	2.04917	(18012318)	438649.50
3764665.00	1.84453	(21022621)		
438849.50	3767665.00	17.05262	(21120508)	438849.50
3767465.00	17.15374	(22120424)		
438849.50	3767265.00	16.93465	(21122221)	438849.50
3767065.00	15.65198	(18010921)		
438849.50	3766865.00	13.87500	(17010423)	438849.50
3766665.00	9.90392	(18122420)		
438849.50	3766465.00	9.38275	(17123119)	438849.50
3766265.00	9.13483	(18010719)		
▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes				
Files\BensonConst2\BensonConst2.isc *** 03/25/25				
*** AERMET - VERSION 22112 ***				
*** 12:32:57				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002

, L0000003	, L0000004	, L0000005	,	
	L0000006	, L0000007	, L0000008	, L0000009 , L0000010
, L0000011	, L0000012	, L0000013	,	
	L0000014	, L0000015	, L0000016	, L0000017 , L0000018
, L0000019	, L0000020	, L0000021	,	
	L0000022	, L0000023	, L0000024	, L0000025 , L0000026
, L0000027	, L0000028	, . . .	,	

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
438849.50	3766065.00	8.66241 (18010119)	438849.50
3765865.00	8.26706 (22120423)		
438849.50	3765665.00	7.73462 (23122022)	438849.50
3765465.00	5.95172 (23010724)		
438849.50	3765265.00	3.49213 (23010724)	438849.50
3765065.00	2.04341 (21120517)		
438849.50	3764865.00	1.91462 (22021119)	438849.50
3764665.00	1.75228 (18012318)		
439049.50	3767665.00	15.62631 (21011718)	439049.50
3767465.00	15.21647 (22120124)		
439049.50	3767265.00	14.45243 (23121318)	439049.50
3767065.00	13.59640 (17022124)		
439049.50	3766865.00	12.96718 (21011218)	439049.50
3766665.00	8.53842 (18122420)		
439049.50	3766465.00	8.12120 (17021922)	439049.50
3766265.00	8.01844 (18010719)		
439049.50	3766065.00	7.68231 (21011019)	439049.50
3765865.00	7.27881 (18010718)		
439049.50	3765665.00	6.80501 (18011906)	439049.50
3765465.00	6.12991 (23010724)		
439049.50	3765265.00	4.39914 (23010724)	439049.50
3765065.00	2.48298 (23010724)		
439049.50	3764865.00	1.73162 (21120517)	439049.50
3764665.00	1.64871 (22021119)		
438049.50	3765465.00	3.79896 (23010216)	438049.50
3765265.00	3.23754 (21020322)		
438049.50	3765065.00	3.00921 (21122303)	438049.50
3764865.00	2.69946 (21122303)		
438049.50	3764665.00	2.40214 (21123016)	437849.50
3765465.00	4.29610 (21122303)		
437849.50	3765265.00	3.93852 (21123016)	437849.50
3765065.00	3.52982 (21123016)		
437849.50	3764865.00	2.89772 (17010822)	437849.50
3764665.00	2.54036 (17010822)		
437649.50	3765465.00	6.14504 (21123016)	437649.50
3765265.00	4.23568 (21123016)		
437649.50	3765065.00	3.48484 (23012422)	437649.50
3764865.00	2.99315 (23012319)		
437649.50	3764665.00	2.61924 (23010623)	437449.50
3765465.00	5.34643 (23012319)		
437449.50	3765265.00	4.36433 (23010623)	437449.50
3765065.00	3.65293 (23122019)		
437449.50	3764865.00	3.10846 (22020103)	437449.50
3764665.00	2.69147 (22020103)		

437249.50	3765465.00	5.64658	(17121102)	437249.50
3765265.00	4.60418	(17121102)		
437249.50	3765065.00	3.82111	(17121102)	437249.50
3764865.00	3.23200	(17121102)		
437249.50	3764665.00	2.77506	(17121102)	437049.50
3765465.00	5.73949	(21122320)		
437049.50	3765265.00	4.59668	(21122320)	437049.50
3765065.00	3.79803	(21122320)		
437049.50	3764865.00	3.21130	(21122320)	437049.50
3764665.00	2.75929	(21122320)		
436849.50	3765465.00	6.95220	(23022717)	436849.50
3765265.00	5.38808	(23022717)		
436849.50	3765065.00	4.30112	(23022717)	436849.50
3764865.00	3.50623	(23022717)		
436849.50	3764665.00	2.89143	(23022717)	436649.50
3765465.00	6.68321	(17121123)		
436649.50	3765265.00	5.16718	(22120216)	436649.50
3765065.00	3.93368	(22120216)		
436649.50	3764865.00	2.95760	(22120216)	436649.50
3764665.00	2.31372	(23022717)		
436449.50	3765465.00	11.78145	(17121123)	436449.50
3765265.00	7.92085	(17121123)		
436449.50	3765065.00	4.96539	(17121123)	436449.50
3764865.00	3.02353	(17121123)		
436449.50	3764665.00	2.51141	(22120216)	436249.50
3765465.00	11.46343	(17012920)		
436249.50	3765265.00	9.67198	(17121123)	436249.50
3765065.00	7.72695	(17121123)		
436249.50	3764865.00	5.61115	(17121123)	436249.50
3764665.00	3.83400	(17121123)		
436049.50	3765465.00	10.15554	(22020802)	436049.50
3765265.00	8.86737	(17021522)		
436049.50	3765065.00	7.70311	(17012619)	436049.50
3764865.00	6.81215	(17121123)		
436049.50	3764665.00	5.55671	(17121123)	435849.50
3765465.00	9.01916	(22011223)		

▲ *** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,

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, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
435849.50	3765265.00	8.07151	(21022023)	435849.50
3765065.00	7.14761	(18011223)		
435849.50	3764865.00	6.47875	(17012920)	435849.50
3764665.00	5.69408	(17121123)		
435649.50	3765465.00	8.23431	(22011222)	435649.50
3765265.00	7.25373	(22011223)		
435649.50	3765065.00	6.60476	(22021222)	435649.50
3764865.00	5.91216	(22122424)		
435649.50	3764665.00	5.40617	(17012920)	435449.50
3765465.00	7.25009	(18020805)		
435449.50	3765265.00	6.68381	(22011222)	435449.50
3765065.00	6.01792	(22011223)		
435449.50	3764865.00	5.56149	(22021222)	435449.50
3764665.00	5.05334	(22122424)		
435249.50	3765465.00	6.56360	(23010920)	435249.50
3765265.00	6.00943	(18020805)		
435249.50	3765065.00	5.53655	(21022301)	435249.50
3764865.00	5.06703	(22011223)		
435249.50	3764665.00	4.73800	(22021222)	435049.50
3765465.00	6.09369	(23121721)		
435049.50	3765265.00	5.53188	(23010920)	435049.50
3765065.00	5.15824	(18010903)		
435049.50	3764865.00	4.73756	(17011907)	435049.50
3764665.00	4.35454	(22011223)		
435849.50	3765665.00	10.34134	(22011222)	435849.50
3765865.00	11.65308	(23010920)		
435849.50	3766065.00	13.42045	(18012403)	435849.50
3766265.00	14.71812	(23121424)		
435849.50	3766465.00	15.63782	(21120707)	435849.50
3766665.00	16.13910	(18120606)		
435849.50	3766865.00	16.07964	(23121718)	435849.50
3767065.00	14.91989	(21013123)		
435849.50	3767265.00	16.49639	(22021201)	435849.50
3767465.00	17.70956	(21012720)		
435849.50	3767665.00	17.82170	(17022024)	435849.50

3767865.00	17.11979	(23020720)		
435849.50	3768065.00	15.88075	(17123021)	435849.50
3768265.00	15.76852	(22010518)		
435849.50	3768465.00	14.41878	(17122519)	435849.50
3768665.00	13.59909	(23021523)		
435649.50	3765665.00	8.93459	(23010920)	435649.50
3765865.00	10.50539	(23121721)		
435649.50	3766065.00	11.36897	(22011124)	435649.50
3766265.00	12.23051	(17010723)		
435649.50	3766465.00	12.78401	(18120518)	435649.50
3766665.00	13.05676	(18120606)		
435649.50	3766865.00	12.82514	(23121719)	435649.50
3767065.00	12.31566	(17122819)		
435649.50	3767265.00	11.44974	(18021623)	435649.50
3767465.00	15.49408	(22021201)		
435649.50	3767665.00	14.63227	(23121420)	435649.50
3767865.00	14.49295	(17022024)		
435649.50	3768065.00	14.27603	(23020720)	435649.50
3768265.00	13.49680	(17123021)		
435649.50	3768465.00	13.28202	(22010518)	435649.50
3768665.00	12.59885	(21122921)		
435449.50	3765665.00	7.95081	(18010820)	435449.50
3765865.00	8.93800	(18012403)		
435449.50	3766065.00	9.67498	(23121022)	435449.50
3766265.00	10.17391	(18121023)		
435449.50	3766465.00	10.66551	(21013122)	435449.50
3766665.00	10.79819	(18120606)		
435449.50	3766865.00	10.46845	(21121003)	435449.50
3767065.00	10.33558	(17020505)		
435449.50	3767265.00	9.93666	(21013121)	435449.50
3767465.00	9.28227	(23120517)		
435449.50	3767665.00	11.86960	(23122806)	435449.50
3767865.00	12.20411	(23121420)		
435449.50	3768065.00	11.97989	(22011702)	435449.50
3768265.00	11.98071	(23020720)		
435449.50	3768465.00	11.79535	(17123021)	435449.50
3768665.00	11.48250	(18121107)		
435249.50	3765665.00	7.39439	(23121721)	435249.50
3765865.00	7.88947	(22011124)		
435249.50	3766065.00	8.28438	(23121424)	435249.50
3766265.00	8.72025	(18121023)		
435249.50	3766465.00	9.06593	(21013122)	435249.50
3766665.00	9.17928	(18120606)		
435249.50	3766865.00	8.92097	(21121003)	435249.50
3767065.00	8.80234	(23121718)		

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25

*** AERMET - VERSION 22112 *** ***

*** 12:32:57

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
435249.50	3767265.00	8.50536	(21120703)	435249.50
3767465.00	8.09426	(18021623)		
435249.50	3767665.00	10.64489	(22021201)	435249.50
3767865.00	10.04090	(21012720)		
435249.50	3768065.00	10.49962	(18120520)	435249.50
3768265.00	10.63924	(22121101)		
435249.50	3768465.00	10.76292	(17021702)	435249.50
3768665.00	10.60899	(17123021)		
435049.50	3765665.00	6.49994	(18012403)	435049.50
3765865.00	7.01398	(23121022)		
435049.50	3766065.00	7.31821	(21010918)	435049.50
3766265.00	7.61674	(21120707)		
435049.50	3766465.00	7.87805	(21013122)	435049.50
3766665.00	7.92855	(18120606)		
435049.50	3766865.00	7.75024	(23021305)	435049.50
3767065.00	7.85324	(23121718)		
435049.50	3767265.00	7.48659	(17122819)	435049.50
3767465.00	7.13454	(21013121)		
435049.50	3767665.00	7.64295	(23120517)	435049.50
3767865.00	9.40903	(22021124)		
435049.50	3768065.00	9.26457	(23122103)	435049.50
3768265.00	9.46428	(18120520)		
435049.50	3768465.00	9.84753	(22121101)	435049.50
3768665.00	9.64521	(17021702)		

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*** AERMET - VERSION 22112 ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43800

HRS) RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG)	OF TYPE GRID-ID		
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

COST	1ST HIGHEST VALUE IS	83.34547 AT (	437189.50,	3766665.00,	260.34,
3067.00,	0.00) DC				
	2ND HIGHEST VALUE IS	79.51368 AT (	437189.50,	3766685.00,	260.72,
3067.00,	0.00) DC				
	3RD HIGHEST VALUE IS	79.00996 AT (	437189.50,	3766645.00,	259.91,
3067.00,	0.00) DC				
	4TH HIGHEST VALUE IS	68.33495 AT (	437189.50,	3766705.00,	261.06,
3067.00,	0.00) DC				
	5TH HIGHEST VALUE IS	67.76662 AT (	437189.50,	3766625.00,	259.49,
3067.00,	0.00) DC				
	6TH HIGHEST VALUE IS	65.42389 AT (	437209.50,	3766665.00,	260.25,
3067.00,	0.00) DC				
	7TH HIGHEST VALUE IS	63.54426 AT (	437209.50,	3766685.00,	260.69,
3067.00,	0.00) DC				
	8TH HIGHEST VALUE IS	61.94935 AT (	437209.50,	3766645.00,	259.83,
3067.00,	0.00) DC				
	9TH HIGHEST VALUE IS	57.68009 AT (	436989.50,	3766725.00,	261.33,
3067.00,	0.00) DC				
	10TH HIGHEST VALUE IS	56.86006 AT (	437209.50,	3766705.00,	261.07,
3067.00,	0.00) DC				

ALL	1ST HIGHEST VALUE IS	83.34547 AT (	437189.50,	3766665.00,	260.34,
3067.00,	0.00) DC				
	2ND HIGHEST VALUE IS	79.51368 AT (	437189.50,	3766685.00,	260.72,
3067.00,	0.00) DC				
	3RD HIGHEST VALUE IS	79.00996 AT (	437189.50,	3766645.00,	259.91,
3067.00,	0.00) DC				
	4TH HIGHEST VALUE IS	68.33495 AT (	437189.50,	3766705.00,	261.06,
3067.00,	0.00) DC				
	5TH HIGHEST VALUE IS	67.76662 AT (	437189.50,	3766625.00,	259.49,

3067.00, 0.00) DC
 6TH HIGHEST VALUE IS 65.42389 AT (437209.50, 3766665.00, 260.25,
 3067.00, 0.00) DC
 7TH HIGHEST VALUE IS 63.54426 AT (437209.50, 3766685.00, 260.69,
 3067.00, 0.00) DC
 8TH HIGHEST VALUE IS 61.94935 AT (437209.50, 3766645.00, 259.83,
 3067.00, 0.00) DC
 9TH HIGHEST VALUE IS 57.68009 AT (436989.50, 3766725.00, 261.33,
 3067.00, 0.00) DC
 10TH HIGHEST VALUE IS 56.86006 AT (437209.50, 3766705.00, 261.07,
 3067.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

*** AERMOD - VERSION 24142 *** C:\Users\dlarocca\Desktop\Lakes
 Files\BensonConst2\BensonConst2.isc *** 03/25/25
 *** AERMET - VERSION 22112 ***
 *** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

GROUP ID	DATE	NETWORK	RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)	(YYMMDDHH)	AVERAGE CONC OF TYPE GRID-ID	
- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -

COST HIGH 1ST HIGH VALUE IS 373.93401 ON 22122916: AT (437189.50,
 3766625.00, 259.49, 3067.00, 0.00) DC

ALL HIGH 1ST HIGH VALUE IS 373.93401 ON 22122916: AT (437189.50,
 3766625.00, 259.49, 3067.00, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 24142 *** *** C:\Users\dlarocca\Desktop\Lakes
Files\BensonConst2\BensonConst2.isc *** 03/25/25
*** AERMET - VERSION 22112 *** ***
*** 12:32:57

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 4 Warning Message(s)
A Total of 1967 Informational Message(s)

A Total of 43800 Hours Were Processed

A Total of 1244 Calm Hours Identified

A Total of 723 Missing Hours Identified (1.65 Percent)

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

***** WARNING MESSAGES *****
ME W186 370 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 370 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:
21010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

*** AERMOD Finishes Successfully ***

*HARP - HRACalc v22118 11/4/2025 1:22:23 PM - Cancer Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\BENSONCONST\hra\ConstCancerUpdateHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISI	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_	EGG_RISK
1	ALL		436849.5	3766465	1.59E-06	1.167YrCa	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		436849.5	3766485	1.76E-06	1.167YrCa	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		436849.5	3766505	1.93E-06	1.167YrCa	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		436849.5	3766525	2.13E-06	1.167YrCa	2.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		436849.5	3766545	2.32E-06	1.167YrCa	2.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		436849.5	3766565	2.52E-06	1.167YrCa	2.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		436849.5	3766585	2.70E-06	1.167YrCa	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		436849.5	3766605	2.86E-06	1.167YrCa	2.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		436849.5	3766625	2.95E-06	1.167YrCa	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		436849.5	3766645	2.98E-06	1.167YrCa	2.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		436849.5	3766665	2.93E-06	1.167YrCa	2.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		436849.5	3766685	2.83E-06	1.167YrCa	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		436849.5	3766705	2.66E-06	1.167YrCa	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		436849.5	3766725	2.46E-06	1.167YrCa	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		436849.5	3766745	2.24E-06	1.167YrCa	2.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		436849.5	3766765	2.03E-06	1.167YrCa	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		436849.5	3766785	1.83E-06	1.167YrCa	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		436849.5	3766805	1.65E-06	1.167YrCa	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		436849.5	3766825	1.49E-06	1.167YrCa	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		436849.5	3766845	1.35E-06	1.167YrCa	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		436849.5	3766865	1.22E-06	1.167YrCa	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		436869.5	3766465	1.72E-06	1.167YrCa	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		436869.5	3766485	1.93E-06	1.167YrCa	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		436869.5	3766505	2.15E-06	1.167YrCa	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		436869.5	3766525	2.41E-06	1.167YrCa	2.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		436869.5	3766545	2.68E-06	1.167YrCa	2.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		436869.5	3766565	2.96E-06	1.167YrCa	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		436869.5	3766585	3.23E-06	1.167YrCa	3.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		436869.5	3766725	2.90E-06	1.167YrCa	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		436869.5	3766745	2.59E-06	1.167YrCa	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		436869.5	3766765	2.31E-06	1.167YrCa	2.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		436869.5	3766785	2.05E-06	1.167YrCa	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		436869.5	3766805	1.83E-06	1.167YrCa	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		436869.5	3766825	1.63E-06	1.167YrCa	1.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		436869.5	3766845	1.46E-06	1.167YrCa	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		436869.5	3766865	1.31E-06	1.167YrCa	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		436889.5	3766465	1.86E-06	1.167YrCa	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		436889.5	3766485	2.11E-06	1.167YrCa	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		436889.5	3766545	3.11E-06	1.167YrCa	3.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		436889.5	3766565	3.52E-06	1.167YrCa	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		436889.5	3766585	3.95E-06	1.167YrCa	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		436889.5	3766725	3.47E-06	1.167YrCa	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		436889.5	3766745	3.02E-06	1.167YrCa	3.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		436889.5	3766765	2.64E-06	1.167YrCa	2.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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137	ALL	437169.5	3766805	3.37E-06	1.167YrCa	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	437169.5	3766825	2.75E-06	1.167YrCa	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	437169.5	3766845	2.28E-06	1.167YrCa	2.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	437169.5	3766865	1.93E-06	1.167YrCa	1.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	437189.5	3766465	1.84E-06	1.167YrCa	1.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	437189.5	3766485	2.15E-06	1.167YrCa	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	437189.5	3766505	2.56E-06	1.167YrCa	2.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	437189.5	3766525	3.12E-06	1.167YrCa	3.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	437189.5	3766545	3.88E-06	1.167YrCa	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	437189.5	3766565	4.95E-06	1.167YrCa	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	437189.5	3766585	6.45E-06	1.167YrCa	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	437189.5	3766605	8.44E-06	1.167YrCa	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	437189.5	3766625	1.07E-05	1.167YrCa	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	437189.5	3766645	1.24E-05	1.167YrCa	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	437189.5	3766665	1.31E-05	1.167YrCa	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	437189.5	3766685	1.25E-05	1.167YrCa	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	437189.5	3766705	1.08E-05	1.167YrCa	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	437189.5	3766725	8.56E-06	1.167YrCa	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	437189.5	3766745	6													

183	ALL	437229.5	3766465	1.65E-06	1.167YrCa	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	437229.5	3766485	1.92E-06	1.167YrCa	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	437229.5	3766505	2.26E-06	1.167YrCa	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	437229.5	3766525	2.70E-06	1.167YrCa	2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	437229.5	3766545	3.28E-06	1.167YrCa	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	437229.5	3766565	4.02E-06	1.167YrCa	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	437229.5	3766585	4.95E-06	1.167YrCa	4.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	437229.5	3766605	6.00E-06	1.167YrCa	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	437229.5	3766625	7.05E-06	1.167YrCa	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	437229.5	3766645	7.90E-06	1.167YrCa	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	437229.5	3766665	8.31E-06	1.167YrCa	8.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	437229.5	3766685	8.18E-06	1.167YrCa	8.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	437229.5	3766705	7.53E-06	1.167YrCa	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	437229.5	3766725	6.57E-06	1.167YrCa	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	437229.5	3766745	5.52E-06	1.167YrCa	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	437229.5	3766765	4.55E-06	1.167YrCa	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	437229.5	3766785	3.74E-06	1.167YrCa	3.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	437229.5	3766805	3.09E-06	1.167YrCa	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	437229.5	3766825	2													

229	ALL	436849.5	3767115	3.97E-07	1.167YrCa	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	436849.5	3767165	3.22E-07	1.167YrCa	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	436899.5	3766915	1.10E-06	1.167YrCa	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	436899.5	3766965	8.68E-07	1.167YrCa	8.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	436899.5	3767015	6.99E-07	1.167YrCa	6.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	436899.5	3767065	5.60E-07	1.167YrCa	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	436899.5	3767115	4.18E-07	1.167YrCa	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	436899.5	3767165	3.35E-07	1.167YrCa	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	436949.5	3766915	1.23E-06	1.167YrCa	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	436949.5	3766965	9.42E-07	1.167YrCa	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	436949.5	3767015	7.33E-07	1.167YrCa	7.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	436949.5	3767065	5.64E-07	1.167YrCa	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	436949.5	3767115	4.39E-07	1.167YrCa	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	436949.5	3767165	3.50E-07	1.167YrCa	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	436999.5	3766915	1.33E-06	1.167YrCa	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	436999.5	3766965	9.98E-07	1.167YrCa	9.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	436999.5	3767015	6.96E-07	1.167YrCa	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	436999.5	3767065	5.39E-07	1.167YrCa	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	436999.5	3767115	4													

275	ALL	437249.5	3767015	7.26E-07	1.167YrCa	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	437249.5	3767065	5.59E-07	1.167YrCa	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	437249.5	3767115	4.45E-07	1.167YrCa	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	437249.5	3767165	3.67E-07	1.167YrCa	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	437299.5	3766915	1.24E-06	1.167YrCa	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	437299.5	3766965	9.36E-07	1.167YrCa	9.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	437299.5	3767015	7.26E-07	1.167YrCa	7.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	437299.5	3767065	5.66E-07	1.167YrCa	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	437299.5	3767115	4.47E-07	1.167YrCa	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	437299.5	3767165	3.68E-07	1.167YrCa	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	437349.5	3766915	1.20E-06	1.167YrCa	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	437349.5	3766965	9.07E-07	1.167YrCa	9.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	437349.5	3767015	7.09E-07	1.167YrCa	7.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	437349.5	3767065	5.62E-07	1.167YrCa	5.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	437349.5	3767115	4.51E-07	1.167YrCa	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	437349.5	3767165	3.72E-07	1.167YrCa	3.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	437399.5	3766915	1.13E-06	1.167YrCa	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	437399.5	3766965	8.78E-07	1.167YrCa	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	437399.5	3767015	6													

321	ALL	437299.5	3766565	2.90E-06	1.167YrCa	2.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	437299.5	3766515	1.99E-06	1.167YrCa	1.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	437299.5	3766465	1.39E-06	1.167YrCa	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	437299.5	3766415	1.03E-06	1.167YrCa	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	437299.5	3766365	8.04E-07	1.167YrCa	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	437299.5	3766315	6.54E-07	1.167YrCa	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	437299.5	3766265	5.46E-07	1.167YrCa	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	437299.5	3766215	4.64E-07	1.167YrCa	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	437299.5	3766165	4.00E-07	1.167YrCa	4.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	437349.5	3766865	1.60E-06	1.167YrCa	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	437349.5	3766815	2.15E-06	1.167YrCa	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	437349.5	3766765	2.74E-06	1.167YrCa	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	437349.5	3766715	3.20E-06	1.167YrCa	3.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	437349.5	3766665	3.30E-06	1.167YrCa	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	437349.5	3766615	2.96E-06	1.167YrCa	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	437349.5	3766565	2.34E-06	1.167YrCa	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	437349.5	3766515	1.72E-06	1.167YrCa	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	437349.5	3766465	1.25E-06	1.167YrCa	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	437349.5	3766415	9													

367	ALL	437449.5	3766515	1.30E-06	1.167YrCa	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	437449.5	3766465	1.02E-06	1.167YrCa	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	437449.5	3766415	7.98E-07	1.167YrCa	7.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	437449.5	3766365	6.33E-07	1.167YrCa	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	437449.5	3766315	5.17E-07	1.167YrCa	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	437449.5	3766265	4.35E-07	1.167YrCa	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	437449.5	3766215	3.75E-07	1.167YrCa	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	437449.5	3766165	3.29E-07	1.167YrCa	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	437499.5	3766865	1.17E-06	1.167YrCa	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	437499.5	3766815	1.36E-06	1.167YrCa	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	437499.5	3766765	1.51E-06	1.167YrCa	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	437499.5	3766715	1.61E-06	1.167YrCa	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	437499.5	3766665	1.62E-06	1.167YrCa	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	437499.5	3766615	1.53E-06	1.167YrCa	1.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	437499.5	3766565	1.36E-06	1.167YrCa	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	437499.5	3766515	1.14E-06	1.167YrCa	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	437499.5	3766465	9.26E-07	1.167YrCa	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	437499.5	3766415	7.41E-07	1.167YrCa	7.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	437499.5	3766365	5													

413	ALL	437199.5	3766315	7.78E-07	1.167YrCa	7.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	437199.5	3766265	6.33E-07	1.167YrCa	6.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	437199.5	3766215	5.26E-07	1.167YrCa	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	437199.5	3766165	4.45E-07	1.167YrCa	4.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	437149.5	3766415	1.43E-06	1.167YrCa	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	437149.5	3766365	1.07E-06	1.167YrCa	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	437149.5	3766315	8.31E-07	1.167YrCa	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	437149.5	3766265	6.68E-07	1.167YrCa	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	437149.5	3766215	5.49E-07	1.167YrCa	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	437149.5	3766165	4.60E-07	1.167YrCa	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	437099.5	3766415	1.55E-06	1.167YrCa	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	437099.5	3766365	1.13E-06	1.167YrCa	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	437099.5	3766315	8.67E-07	1.167YrCa	8.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	437099.5	3766265	6.89E-07	1.167YrCa	6.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	437099.5	3766215	5.63E-07	1.167YrCa	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	437099.5	3766165	4.69E-07	1.167YrCa	4.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	437049.5	3766415	1.60E-06	1.167YrCa	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	437049.5	3766365	1.16E-06	1.167YrCa	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	437049.5	3766315	8													

459	ALL	436799.5	3766415	1.08E-06	1.167YrCa	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	436799.5	3766365	8.88E-07	1.167YrCa	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	436799.5	3766315	7.34E-07	1.167YrCa	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	436799.5	3766265	6.11E-07	1.167YrCa	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	436799.5	3766215	5.12E-07	1.167YrCa	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	436799.5	3766165	4.35E-07	1.167YrCa	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	436749.5	3766415	9.26E-07	1.167YrCa	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	436749.5	3766365	7.93E-07	1.167YrCa	7.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	436749.5	3766315	6.76E-07	1.167YrCa	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	436749.5	3766265	5.74E-07	1.167YrCa	5.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	436749.5	3766215	4.89E-07	1.167YrCa	4.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	436749.5	3766165	4.20E-07	1.167YrCa	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	436699.5	3766415	7.83E-07	1.167YrCa	7.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	436699.5	3766365	6.92E-07	1.167YrCa	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	436699.5	3766315	6.05E-07	1.167YrCa	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	436699.5	3766265	5.29E-07	1.167YrCa	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	436699.5	3766215	4.60E-07	1.167YrCa	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	436699.5	3766165	4.02E-07	1.167YrCa	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	436649.5	3766415	6													

505	ALL	436799.5	3766965	6.98E-07	1.167YrCa	6.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	436799.5	3767015	5.87E-07	1.167YrCa	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	436799.5	3767065	4.79E-07	1.167YrCa	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	436799.5	3767115	3.75E-07	1.167YrCa	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	436799.5	3767165	3.09E-07	1.167YrCa	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	436749.5	3766465	1.07E-06	1.167YrCa	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	436749.5	3766515	1.21E-06	1.167YrCa	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	436749.5	3766565	1.33E-06	1.167YrCa	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	436749.5	3766615	1.40E-06	1.167YrCa	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	436749.5	3766665	1.39E-06	1.167YrCa	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	436749.5	3766715	1.30E-06	1.167YrCa	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	436749.5	3766765	1.16E-06	1.167YrCa	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	436749.5	3766815	1.00E-06	1.167YrCa	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	436749.5	3766865	8.53E-07	1.167YrCa	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	436749.5	3766915	7.24E-07	1.167YrCa	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	436749.5	3766965	6.17E-07	1.167YrCa	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	436749.5	3767015	5.29E-07	1.167YrCa	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	436749.5	3767065	4.39E-07	1.167YrCa	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	436749.5	3767115	3													

551	ALL	436649.5	3767015	4.06E-07	1.167YrCa	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	436649.5	3767065	3.40E-07	1.167YrCa	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	436649.5	3767115	2.91E-07	1.167YrCa	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	436649.5	3767165	2.53E-07	1.167YrCa	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	436599.5	3766465	6.08E-07	1.167YrCa	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	436599.5	3766515	6.46E-07	1.167YrCa	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	436599.5	3766565	6.73E-07	1.167YrCa	6.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	436599.5	3766615	6.85E-07	1.167YrCa	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	436599.5	3766665	6.80E-07	1.167YrCa	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	436599.5	3766715	6.58E-07	1.167YrCa	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	436599.5	3766765	6.22E-07	1.167YrCa	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	436599.5	3766815	5.76E-07	1.167YrCa	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	436599.5	3766865	5.26E-07	1.167YrCa	5.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	436599.5	3766915	4.75E-07	1.167YrCa	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	436599.5	3766965	4.27E-07	1.167YrCa	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	436599.5	3767015	3.71E-07	1.167YrCa	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	436599.5	3767065	3.11E-07	1.167YrCa	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	436599.5	3767115	2.71E-07	1.167YrCa	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	436599.5	3767165	2													

597 ALL	436749.5	3767465	1.38E-07	1.167YrCa	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598 ALL	436749.5	3767565	1.14E-07	1.167YrCa	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599 ALL	436749.5	3767665	9.43E-08	1.167YrCa	9.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600 ALL	436849.5	3767265	2.37E-07	1.167YrCa	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601 ALL	436849.5	3767365	1.86E-07	1.167YrCa	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602 ALL	436849.5	3767465	1.48E-07	1.167YrCa	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603 ALL	436849.5	3767565	1.18E-07	1.167YrCa	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604 ALL	436849.5	3767665	9.85E-08	1.167YrCa	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605 ALL	436949.5	3767265	2.56E-07	1.167YrCa	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606 ALL	436949.5	3767365	1.97E-07	1.167YrCa	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607 ALL	436949.5	3767465	1.55E-07	1.167YrCa	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608 ALL	436949.5	3767565	1.21E-07	1.167YrCa	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609 ALL	436949.5	3767665	1.00E-07	1.167YrCa	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610 ALL	437049.5	3767265	2.67E-07	1.167YrCa	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611 ALL	437049.5	3767365	2.03E-07	1.167YrCa	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612 ALL	437049.5	3767465	1.57E-07	1.167YrCa	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613 ALL	437049.5	3767565	1.22E-07	1.167YrCa	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614 ALL	437049.5	3767665	1.00E-07	1.167YrCa	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615 ALL	437149.5	3767265	2.62E-07	1.167YrCa	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E						

[illegible]

689	ALL	437749.5	3766365	4.37E-07	1.167YrCa	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	437749.5	3766265	3.24E-07	1.167YrCa	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	437749.5	3766165	2.44E-07	1.167YrCa	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	437749.5	3766065	1.93E-07	1.167YrCa	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	437749.5	3765965	1.60E-07	1.167YrCa	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	437749.5	3765865	1.37E-07	1.167YrCa	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	437749.5	3765765	1.20E-07	1.167YrCa	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	437749.5	3765665	1.06E-07	1.167YrCa	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	437849.5	3767165	3.24E-07	1.167YrCa	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	437849.5	3767065	4.07E-07	1.167YrCa	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	437849.5	3766965	4.90E-07	1.167YrCa	4.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	437849.5	3766865	5.56E-07	1.167YrCa	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	437849.5	3766765	5.90E-07	1.167YrCa	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	437849.5	3766665	6.00E-07	1.167YrCa	6.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	437849.5	3766565	5.61E-07	1.167YrCa	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	437849.5	3766465	4.82E-07	1.167YrCa	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	437849.5	3766365	3.87E-07	1.167YrCa	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	437849.5	3766265	2.98E-07	1.167YrCa	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	437849.5	3766165	2.29E-07	1.167YrCa	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	437849.5	3766065	1.80E-07	1.167YrCa											

735 ALL	438049.5	3766565	3.92E-07	1.167YrCa	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736 ALL	438049.5	3766465	3.54E-07	1.167YrCa	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737 ALL	438049.5	3766365	3.04E-07	1.167YrCa	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738 ALL	438049.5	3766265	2.50E-07	1.167YrCa	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739 ALL	438049.5	3766165	2.02E-07	1.167YrCa	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740 ALL	438049.5	3766065	1.62E-07	1.167YrCa	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741 ALL	438049.5	3765965	1.33E-07	1.167YrCa	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742 ALL	438049.5	3765865	1.12E-07	1.167YrCa	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743 ALL	438049.5	3765765	9.69E-08	1.167YrCa	9.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744 ALL	438049.5	3765665	8.62E-08	1.167YrCa	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745 ALL	437549.5	3766065	2.32E-07	1.167YrCa	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746 ALL	437549.5	3765965	1.93E-07	1.167YrCa	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747 ALL	437549.5	3765865	1.63E-07	1.167YrCa	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748 ALL	437549.5	3765765	1.40E-07	1.167YrCa	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749 ALL	437549.5	3765665	1.21E-07	1.167YrCa	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750 ALL	437449.5	3766065	2.61E-07	1.167YrCa	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751 ALL	437449.5	3765965	2.13E-07	1.167YrCa	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752 ALL	437449.5	3765865	1.78E-07	1.167YrCa	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

781 ALL	436849.5	3765965	2.51E-07	1.167YrCa	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782 ALL	436849.5	3765865	2.02E-07	1.167YrCa	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783 ALL	436849.5	3765765	1.65E-07	1.167YrCa	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784 ALL	436849.5	3765665	1.38E-07	1.167YrCa	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785 ALL	436749.5	3766065	3.16E-07	1.167YrCa	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786 ALL	436749.5	3765965	2.43E-07	1.167YrCa	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787 ALL	436749.5	3765865	1.97E-07	1.167YrCa	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788 ALL	436749.5	3765765	1.60E-07	1.167YrCa	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789 ALL	436749.5	3765665	1.34E-07	1.167YrCa	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790 ALL	436649.5	3766065	2.97E-07	1.167YrCa	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791 ALL	436649.5	3765965	2.36E-07	1.167YrCa	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792 ALL	436649.5	3765865	1.91E-07	1.167YrCa	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793 ALL	436649.5	3765765	1.56E-07	1.167YrCa	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794 ALL	436649.5	3765665	1.31E-07	1.167YrCa	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795 ALL	436549.5	3766065	2.70E-07	1.167YrCa	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796 ALL	436549.5	3765965	2.22E-07	1.167YrCa	2.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797 ALL	436549.5	3765865	1.84E-07	1.167YrCa	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798 ALL	436549.5	3765765	1.51E-07	1.167YrCa	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

827 ALL	436449.5	3766365	3.55E-07	1.167YrCa	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828 ALL	436449.5	3766465	3.90E-07	1.167YrCa	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829 ALL	436449.5	3766565	4.12E-07	1.167YrCa	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830 ALL	436449.5	3766665	4.11E-07	1.167YrCa	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831 ALL	436449.5	3766765	3.90E-07	1.167YrCa	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832 ALL	436449.5	3766865	3.53E-07	1.167YrCa	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833 ALL	436449.5	3766965	3.08E-07	1.167YrCa	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834 ALL	436449.5	3767065	2.63E-07	1.167YrCa	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835 ALL	436449.5	3767165	2.15E-07	1.167YrCa	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836 ALL	436449.5	3767265	1.70E-07	1.167YrCa	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837 ALL	436449.5	3767365	1.42E-07	1.167YrCa	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838 ALL	436449.5	3767465	1.18E-07	1.167YrCa	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839 ALL	436449.5	3767565	1.01E-07	1.167YrCa	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840 ALL	436449.5	3767665	8.49E-08	1.167YrCa	8.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841 ALL	436349.5	3766165	2.33E-07	1.167YrCa	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842 ALL	436349.5	3766265	2.59E-07	1.167YrCa	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843 ALL	436349.5	3766365	2.84E-07	1.167YrCa	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844 ALL	436349.5	3766465	3.04E-07	1.167YrCa	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

873 ALL	436149.5	3766165	1.70E-07	1.167YrCa	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874 ALL	436149.5	3766265	1.83E-07	1.167YrCa	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875 ALL	436149.5	3766365	1.94E-07	1.167YrCa	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876 ALL	436149.5	3766465	2.02E-07	1.167YrCa	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877 ALL	436149.5	3766565	2.06E-07	1.167YrCa	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878 ALL	436149.5	3766665	2.05E-07	1.167YrCa	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879 ALL	436149.5	3766765	2.00E-07	1.167YrCa	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880 ALL	436149.5	3766865	1.91E-07	1.167YrCa	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881 ALL	436149.5	3766965	1.78E-07	1.167YrCa	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882 ALL	436149.5	3767065	1.63E-07	1.167YrCa	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883 ALL	436149.5	3767165	1.48E-07	1.167YrCa	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884 ALL	436149.5	3767265	1.25E-07	1.167YrCa	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885 ALL	436149.5	3767365	1.05E-07	1.167YrCa	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886 ALL	436149.5	3767465	9.32E-08	1.167YrCa	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887 ALL	436149.5	3767565	8.22E-08	1.167YrCa	8.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888 ALL	436149.5	3767665	7.19E-08	1.167YrCa	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889 ALL	436049.5	3766165	1.48E-07	1.167YrCa	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890 ALL	436049.5	3766265	1.56E-07	1.167YrCa	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

919	ALL	436449.5	3768665	2.64E-08	1.167YrCa	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	436649.5	3767865	6.70E-08	1.167YrCa	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	436649.5	3768065	5.10E-08	1.167YrCa	5.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	436649.5	3768265	3.98E-08	1.167YrCa	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	436649.5	3768465	3.29E-08	1.167YrCa	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	436649.5	3768665	2.70E-08	1.167YrCa	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	436849.5	3767865	7.04E-08	1.167YrCa	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	436849.5	3768065	5.25E-08	1.167YrCa	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	436849.5	3768265	4.13E-08	1.167YrCa	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	436849.5	3768465	3.35E-08	1.167YrCa	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	436849.5	3768665	2.74E-08	1.167YrCa	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	437049.5	3767865	7.25E-08	1.167YrCa	7.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	437049.5	3768065	5.39E-08	1.167YrCa	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	437049.5	3768265	4.20E-08	1.167YrCa	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	437049.5	3768465	3.36E-08	1.167YrCa	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	437049.5	3768665	2.74E-08	1.167YrCa	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	437249.5	3767865	7.42E-08	1.167YrCa	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	437249.5	3768065	5.56E-08	1.167YrCa	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	437249.5	3768265	4													

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1103 ALL		436649.5	3764865	5.07E-08	1.167YrCa	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104 ALL		436649.5	3764665	4.27E-08	1.167YrCa	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105 ALL		436449.5	3765465	9.52E-08	1.167YrCa	9.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106 ALL		436449.5	3765265	7.38E-08	1.167YrCa	7.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107 ALL		436449.5	3765065	5.93E-08	1.167YrCa	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108 ALL		436449.5	3764865	4.90E-08	1.167YrCa	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109 ALL		436449.5	3764665	4.14E-08	1.167YrCa	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110 ALL		436249.5	3765465	9.12E-08	1.167YrCa	9.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111 ALL		436249.5	3765265	7.22E-08	1.167YrCa	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112 ALL		436249.5	3765065	5.82E-08	1.167YrCa	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113 ALL		436249.5	3764865	4.80E-08	1.167YrCa	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114 ALL		436249.5	3764665	4.04E-08	1.167YrCa	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115 ALL		436049.5	3765465	8.36E-08	1.167YrCa	8.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116 ALL		436049.5	3765265	6.91E-08	1.167YrCa	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117 ALL		436049.5	3765065	5.70E-08	1.167YrCa	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118 ALL		436049.5	3764865	4.74E-08	1.167YrCa	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119 ALL		436049.5	3764665	3.99E-08	1.167YrCa	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120 ALL		435849.5	3765465	7.37E-08	1.167YrCa	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121 ALL		435849.5	3765265	6													

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1195	ALL	435249.5	3766065	5.99E-08	1.167YrCa	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	435249.5	3766265	6.26E-08	1.167YrCa	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	435249.5	3766465	6.38E-08	1.167YrCa	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	435249.5	3766665	6.40E-08	1.167YrCa	6.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	435249.5	3766865	6.25E-08	1.167YrCa	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	435249.5	3767065	5.99E-08	1.167YrCa	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	435249.5	3767265	5.62E-08	1.167YrCa	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	435249.5	3767465	5.17E-08	1.167YrCa	5.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	435249.5	3767665	4.31E-08	1.167YrCa	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	435249.5	3767865	3.67E-08	1.167YrCa	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	435249.5	3768065	3.17E-08	1.167YrCa	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	435249.5	3768265	2.82E-08	1.167YrCa	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	435249.5	3768465	2.49E-08	1.167YrCa	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	435249.5	3768665	2.19E-08	1.167YrCa	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	435049.5	3765665	4.56E-08	1.167YrCa	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	435049.5	3765865	4.86E-08	1.167YrCa	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	435049.5	3766065	5.11E-08	1.167YrCa	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	435049.5	3766265	5.29E-08	1.167YrCa	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	435049.5	3766465	5.38E-08	1.167YrCa	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	435049.5	3766665	5.3												

HARP2 - HRACalc (dated 22118) 11/4/2025 1:22:23 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.167

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.167
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden

Fraction leafy: 0.137

Fraction exposed: 0.137

Fraction protected: 0.137

Fraction root: 0.137

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to:

C:\Users\dlarocca\Desktop\HARP2

Files\BENSONCONST\hra\ConstCancerUpdateCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2

Files\BENSONCONST\hra\ConstCancerUpdateCancerRiskSumByRec.csv

HRA ran successfully

REC	GRP	NETID	X	Y	SCENARIO CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE RESP	SKIN	EYE	BONE/TEE ENDO	BLOOD	ODOR	GENERAL	MAXHI	
1	ALL		436849.5	3766465	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
2	ALL		436849.5	3766485	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03
3	ALL		436849.5	3766505	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
4	ALL		436849.5	3766525	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
5	ALL		436849.5	3766545	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
6	ALL		436849.5	3766565	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
7	ALL		436849.5	3766585	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
8	ALL		436849.5	3766605	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-03
9	ALL		436849.5	3766625	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
10	ALL		436849.5	3766645	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03
11	ALL		436849.5	3766665	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
12	ALL		436849.5	3766685	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-03
13	ALL		436849.5	3766705	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
14	ALL		436849.5	3766725	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
15	ALL		436849.5	3766745	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-03
16	ALL		436849.5	3766765	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
17	ALL		436849.5	3766785	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
18	ALL		436849.5	3766805	NonCance	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00			

49		436889.5	3766885	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
50	ALL	436909.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03
51	ALL	436909.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
52	ALL	436909.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03
53	ALL	436909.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03
54	ALL	436909.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-03
55	ALL	436909.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
56	ALL	436909.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
57	ALL	436909.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
58	ALL	436909.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
59	ALL	436909.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
60	ALL	436929.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
61	ALL	436929.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-03
62	ALL	436929.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
63	ALL	436929.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-03
64	ALL	436929.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03
65	ALL	436929.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
66	ALL	436929.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03
67	ALL	436929.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
68	ALL	436929.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
69	ALL	436929.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
70	ALL	436949.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
71	ALL	436949.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03
72	ALL	436949.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-03
73	ALL	436949.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03
74	ALL	436949.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
75	ALL	436949.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
76	ALL	436949.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
77	ALL	436949.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
78	ALL	436949.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-03
79	ALL	436949.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
80	ALL	436969.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-03
81	ALL	436969.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-03
82	ALL	436969.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03
83	ALL	436969.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03
84	ALL	436969.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03
85	ALL	436969.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
86	ALL	436969.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
87	ALL	436969.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
88	ALL	436989.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03
89	ALL	436989.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03
90	ALL	436989.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03
91	ALL	436989.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03
92	ALL	436989.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
93	ALL	436989.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
94	ALL	436989.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03
95	ALL	436989.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03
96	ALL	437009.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-03
97	ALL	437009.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-03
98	ALL	437009.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-03

[illegible]

149		437189.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02
150	ALL	437189.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02
151	ALL	437189.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02
152	ALL	437189.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02
153	ALL	437189.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
154	ALL	437189.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-03
155	ALL	437189.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03
156	ALL	437189.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03
157	ALL	437189.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03
158	ALL	437189.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-03
159	ALL	437189.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
160	ALL	437189.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
161	ALL	437189.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
162	ALL	437209.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03
163	ALL	437209.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03
164	ALL	437209.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-03
165	ALL	437209.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
166	ALL	437209.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
167	ALL	437209.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03
168	ALL	437209.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-03
169	ALL	437209.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03
170	ALL	437209.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03
171	ALL	437209.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-03
172	ALL	437209.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
173	ALL	437209.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-03
174	ALL	437209.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-03
175	ALL	437209.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-03
176	ALL	437209.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-03
177	ALL	437209.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03
178	ALL	437209.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-03
179	ALL	437209.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
180	ALL	437209.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
181	ALL	437209.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-03
182	ALL	437209.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
183	ALL	437229.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03
184	ALL	437229.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
185	ALL	437229.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-03
186	ALL	437229.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-03
187	ALL	437229.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
188	ALL	437229.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-03
189	ALL	437229.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03
190	ALL	437229.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03
191	ALL	437229.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-03
192	ALL	437229.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-03
193	ALL	437229.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03
194	ALL	437229.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-03
195	ALL	437229.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-03
196	ALL	437229.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-03
197	ALL	437229.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-03
198	ALL	437229.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-03

		437229.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-03
200	ALL	437229.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
201	ALL	437229.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03
202	ALL	437229.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
203	ALL	437229.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
204	ALL	437249.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03
205	ALL	437249.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
206	ALL	437249.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
207	ALL	437249.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
208	ALL	437249.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03
209	ALL	437249.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-03
210	ALL	437249.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-03
211	ALL	437249.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
212	ALL	437249.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03
213	ALL	437249.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03
214	ALL	437249.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03
215	ALL	437249.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03
216	ALL	437249.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03
217	ALL	437249.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-03
218	ALL	437249.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03
219	ALL	437249.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03
220	ALL	437249.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03
221	ALL	437249.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
222	ALL	437249.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03
223	ALL	437249.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
224	ALL	437249.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
225	ALL	436849.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
226	ALL	436849.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04
227	ALL	436849.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
228	ALL	436849.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-04
229	ALL	436849.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-04
230	ALL	436849.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
231	ALL	436899.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03
232	ALL	436899.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
233	ALL	436899.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-04
234	ALL	436899.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-04
235	ALL	436899.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
236	ALL	436899.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
237	ALL	436949.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
238	ALL	436949.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-04
239	ALL	436949.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
240	ALL	436949.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-04
241	ALL	436949.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
242	ALL	436949.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
243	ALL	436999.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
244	ALL	436999.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
245	ALL	436999.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04
246	ALL	436999.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
247	ALL	436999.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04
248	ALL	436999.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04

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		437399.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03
350 ALL		437399.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03
351 ALL		437399.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-03
352 ALL		437399.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
353 ALL		437399.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
354 ALL		437399.5	3766415	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-04
355 ALL		437399.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
356 ALL		437399.5	3766315	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04
357 ALL		437399.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-04
358 ALL		437399.5	3766215	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-04
359 ALL		437399.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
360 ALL		437449.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
361 ALL		437449.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
362 ALL		437449.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
363 ALL		437449.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
364 ALL		437449.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
365 ALL		437449.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-03
366 ALL		437449.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+				

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499		436799.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
500	ALL	436799.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
501	ALL	436799.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-03
502	ALL	436799.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03
503	ALL	436799.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-04
504	ALL	436799.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
505	ALL	436799.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-04
506	ALL	436799.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
507	ALL	436799.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04
508	ALL	436799.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
509	ALL	436799.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
510	ALL	436749.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
511	ALL	436749.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
512	ALL	436749.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03
513	ALL	436749.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
514	ALL	436749.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03
515	ALL	436749.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
516	ALL	436749.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
517	ALL	436749.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-04
518	ALL	436749.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-04
519	ALL	436749.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04
520	ALL	436749.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04
521	ALL	436749.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04
522	ALL	436749.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
523	ALL	436749.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
524	ALL	436749.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
525	ALL	436699.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-04
526	ALL	436699.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-04
527	ALL	436699.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
528	ALL	436699.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
529	ALL	436699.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03
530	ALL	436699.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-04
531	ALL	436699.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
532	ALL	436699.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04
533	ALL	436699.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04
534	ALL	436699.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
535	ALL	436699.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-04
536	ALL	436699.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
537	ALL	436699.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
538	ALL	436699.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
539	ALL	436699.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
540	ALL	436649.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04
541	ALL	436649.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-04
542	ALL	436649.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-04
543	ALL	436649.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-04
544	ALL	436649.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
545	ALL	436649.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
546	ALL	436649.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-04
547	ALL	436649.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-04
548	ALL	436649.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04

		436649.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-04
550 ALL		436649.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
551 ALL		436649.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04
552 ALL		436649.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
553 ALL		436649.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
554 ALL		436649.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
555 ALL		436599.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-04
556 ALL		436599.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
557 ALL		436599.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
558 ALL		436599.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04
559 ALL		436599.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-04
560 ALL		436599.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
561 ALL		436599.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04
562 ALL		436599.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04
563 ALL		436599.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-04
564 ALL		436599.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-04
565 ALL		436599.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
566 ALL		436599.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+				

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		437849.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-04
700	ALL	437849.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
701	ALL	437849.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-04
702	ALL	437849.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04
703	ALL	437849.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
704	ALL	437849.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
705	ALL	437849.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04
706	ALL	437849.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
707	ALL	437849.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
708	ALL	437849.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
709	ALL	437849.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
710	ALL	437849.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
711	ALL	437849.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
712	ALL	437849.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05
713	ALL	437949.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
714	ALL	437949.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
715	ALL	437949.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
716	ALL	437949.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
717	ALL	437949.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
718	ALL	437949.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-04
719	ALL	437949.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
720	ALL	437949.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
721	ALL	437949.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
722	ALL	437949.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
723	ALL	437949.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
724	ALL	437949.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
725	ALL	437949.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
726	ALL	437949.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
727	ALL	437949.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
728	ALL	437949.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
729	ALL	438049.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
730	ALL	438049.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
731	ALL	438049.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-04
732	ALL	438049.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
733	ALL	438049.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
734	ALL	438049.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
735	ALL	438049.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
736	ALL	438049.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
737	ALL	438049.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
738	ALL	438049.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
739	ALL	438049.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
740	ALL	438049.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
741	ALL	438049.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
742	ALL	438049.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
743	ALL	438049.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
744	ALL	438049.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05
745	ALL	437549.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
746	ALL	437549.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
747	ALL	437549.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
748	ALL	437549.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04

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		436049.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
900	ALL	436049.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
901	ALL	436049.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
902	ALL	436049.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
903	ALL	436049.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
904	ALL	436049.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
905	ALL	436049.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
906	ALL	436049.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
907	ALL	436049.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
908	ALL	436049.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
909	ALL	436049.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
910	ALL	436249.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
911	ALL	436249.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
912	ALL	436249.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
913	ALL	436249.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
914	ALL	436249.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
915	ALL	436449.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
916	ALL	436449.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
917	ALL	436449.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
918	ALL	436449.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
919	ALL	436449.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
920	ALL	436649.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
921	ALL	436649.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
922	ALL	436649.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
923	ALL	436649.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
924	ALL	436649.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
925	ALL	436849.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
926	ALL	436849.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
927	ALL	436849.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
928	ALL	436849.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
929	ALL	436849.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
930	ALL	437049.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
931	ALL	437049.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
932	ALL	437049.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
933	ALL	437049.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
934	ALL	437049.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
935	ALL	437249.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
936	ALL	437249.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
937	ALL	437249.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
938	ALL	437249.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
939	ALL	437249.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
940	ALL	437449.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
941	ALL	437449.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
942	ALL	437449.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
943	ALL	437449.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
944	ALL	437449.5	3768665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
945	ALL	437649.5	3767865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05
946	ALL	437649.5	3768065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
947	ALL	437649.5	3768265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
948	ALL	437649.5	3768465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05

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HARP2 - HRACalc (dated 22118) 11/4/2025 1:25:47 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm

HOME GROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to:

C:\Users\dlarocca\Desktop\HARP2

Files\BENSONCONST\hra\ConstChronicUpdateNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2

Files\BENSONCONST\hra\ConstChronicUpdateNCChronicRiskSumByRec.csv

HRA ran successfully

*HARP - HRACalc v22118 11/5/2025 1:40:21 PM - Cancer Risk - Input File: C:\Users\dlarocca\Desktop\HARP2 Files\BensonMit\hra\ConstCancerMitHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISI	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_	EGG_RISK
1	ALL		436849.5	3766465	7.16E-07	1.167YrCa	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		436849.5	3766485	7.92E-07	1.167YrCa	7.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		436849.5	3766505	8.72E-07	1.167YrCa	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		436849.5	3766525	9.59E-07	1.167YrCa	9.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		436849.5	3766545	1.05E-06	1.167YrCa	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		436849.5	3766565	1.14E-06	1.167YrCa	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		436849.5	3766585	1.22E-06	1.167YrCa	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		436849.5	3766605	1.29E-06	1.167YrCa	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		436849.5	3766625	1.33E-06	1.167YrCa	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		436849.5	3766645	1.34E-06	1.167YrCa	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		436849.5	3766665	1.32E-06	1.167YrCa	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		436849.5	3766685	1.28E-06	1.167YrCa	1.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		436849.5	3766705	1.20E-06	1.167YrCa	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		436849.5	3766725	1.11E-06	1.167YrCa	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		436849.5	3766745	1.01E-06	1.167YrCa	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		436849.5	3766765	9.15E-07	1.167YrCa	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		436849.5	3766785	8.26E-07	1.167YrCa	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		436849.5	3766805	7.45E-07	1.167YrCa	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		436849.5	3766825	6.72E-07	1.167YrCa	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		436849.5	3766845	6.08E-07	1.167YrCa	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		436849.5	3766865	5.51E-07	1.167YrCa	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		436869.5	3766465	7.75E-07	1.167YrCa	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		436869.5	3766485	8.69E-07	1.167YrCa	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		436869.5	3766505	9.71E-07	1.167YrCa	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		436869.5	3766525	1.08E-06	1.167YrCa	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		436869.5	3766545	1.21E-06	1.167YrCa	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		436869.5	3766565	1.33E-06	1.167YrCa	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		436869.5	3766585	1.46E-06	1.167YrCa	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		436869.5	3766725	1.31E-06	1.167YrCa	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		436869.5	3766745	1.17E-06	1.167YrCa	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		436869.5	3766765	1.04E-06	1.167YrCa	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		436869.5	3766785	9.25E-07	1.167YrCa	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		436869.5	3766805	8.23E-07	1.167YrCa	8.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		436869.5	3766825	7.35E-07	1.167YrCa	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		436869.5	3766845	6.58E-07	1.167YrCa	6.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		436869.5	3766865	5.92E-07	1.167YrCa	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		436889.5	3766465	8.38E-07	1.167YrCa	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		436889.5	3766485	9.54E-07	1.167YrCa	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		436889.5	3766545	1.40E-06	1.167YrCa	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		436889.5	3766565	1.59E-06	1.167YrCa	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		436889.5	3766585	1.78E-06	1.167YrCa	1.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		436889.5	3766725	1.56E-06	1.167YrCa	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		436889.5	3766745	1.36E-06	1.167YrCa	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		436889.5	3766765	1.19E-06	1.167YrCa	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

45	ALL	436889.5	3766785	1.04E-06	1.167YrCa	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL	436889.5	3766805	9.10E-07	1.167YrCa	9.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL	436889.5	3766825	8.02E-07	1.167YrCa	8.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL	436889.5	3766845	7.11E-07	1.167YrCa	7.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL	436889.5	3766865	6.34E-07	1.167YrCa	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL	436909.5	3766465	9.03E-07	1.167YrCa	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL	436909.5	3766485	1.04E-06	1.167YrCa	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL	436909.5	3766725	1.90E-06	1.167YrCa	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL	436909.5	3766745	1.60E-06	1.167YrCa	1.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL	436909.5	3766765	1.36E-06	1.167YrCa	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL	436909.5	3766785	1.16E-06	1.167YrCa	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL	436909.5	3766805	1.00E-06	1.167YrCa	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL	436909.5	3766825	8.73E-07	1.167YrCa	8.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL	436909.5	3766845	7.66E-07	1.167YrCa	7.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL	436909.5	3766865	6.76E-07	1.167YrCa	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL	436929.5	3766465	9.58E-07	1.167YrCa	9.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL	436929.5	3766485	1.12E-06	1.167YrCa	1.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL	436929.5	3766725	2.34E-06	1.167YrCa	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL	436929.5	3766745	1.89E-06	1.167Yr												

91	ALL	436989.5	3766785	1.70E-06	1.167YrCa	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	436989.5	3766805	1.38E-06	1.167YrCa	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	436989.5	3766825	1.14E-06	1.167YrCa	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	436989.5	3766845	9.66E-07	1.167YrCa	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	436989.5	3766865	8.28E-07	1.167YrCa	8.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	437009.5	3766785	1.81E-06	1.167YrCa	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	437009.5	3766805	1.45E-06	1.167YrCa	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	437009.5	3766825	1.19E-06	1.167YrCa	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	437009.5	3766845	1.00E-06	1.167YrCa	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	437009.5	3766865	8.54E-07	1.167YrCa	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	437029.5	3766785	1.90E-06	1.167YrCa	1.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	437029.5	3766805	1.51E-06	1.167YrCa	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	437029.5	3766825	1.23E-06	1.167YrCa	1.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	437029.5	3766845	1.03E-06	1.167YrCa	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	437029.5	3766865	8.74E-07	1.167YrCa	8.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	437049.5	3766785	1.97E-06	1.167YrCa	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	437049.5	3766805	1.55E-06	1.167YrCa	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	437049.5	3766825	1.26E-06	1.167YrCa	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	437049.5	3766845	1.04E-06													

137	ALL	437169.5	3766805	1.52E-06	1.167YrCa	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	437169.5	3766825	1.24E-06	1.167YrCa	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	437169.5	3766845	1.03E-06	1.167YrCa	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	437169.5	3766865	8.69E-07	1.167YrCa	8.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	437189.5	3766465	8.30E-07	1.167YrCa	8.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	437189.5	3766485	9.71E-07	1.167YrCa	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	437189.5	3766505	1.16E-06	1.167YrCa	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	437189.5	3766525	1.41E-06	1.167YrCa	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	437189.5	3766545	1.75E-06	1.167YrCa	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	437189.5	3766565	2.23E-06	1.167YrCa	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	437189.5	3766585	2.91E-06	1.167YrCa	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	437189.5	3766605	3.81E-06	1.167YrCa	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	437189.5	3766625	4.81E-06	1.167YrCa	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	437189.5	3766645	5.61E-06	1.167YrCa	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	437189.5	3766665	5.92E-06	1.167YrCa	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	437189.5	3766685	5.65E-06	1.167YrCa	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	437189.5	3766705	4.85E-06	1.167YrCa	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	437189.5	3766725	3.86E-06	1.167YrCa	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	437189.5	3766745	2													

183	ALL	437229.5	3766465	7.44E-07	1.167YrCa	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	437229.5	3766485	8.64E-07	1.167YrCa	8.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	437229.5	3766505	1.02E-06	1.167YrCa	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	437229.5	3766525	1.22E-06	1.167YrCa	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	437229.5	3766545	1.48E-06	1.167YrCa	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	437229.5	3766565	1.81E-06	1.167YrCa	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	437229.5	3766585	2.23E-06	1.167YrCa	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	437229.5	3766605	2.71E-06	1.167YrCa	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	437229.5	3766625	3.18E-06	1.167YrCa	3.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	437229.5	3766645	3.56E-06	1.167YrCa	3.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	437229.5	3766665	3.75E-06	1.167YrCa	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	437229.5	3766685	3.69E-06	1.167YrCa	3.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	437229.5	3766705	3.40E-06	1.167YrCa	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	437229.5	3766725	2.96E-06	1.167YrCa	2.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	437229.5	3766745	2.49E-06	1.167YrCa	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	437229.5	3766765	2.05E-06	1.167YrCa	2.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	437229.5	3766785	1.69E-06	1.167YrCa	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	437229.5	3766805	1.39E-06	1.167YrCa	1.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	437229.5	3766825	1													

[illegible]

275	ALL	437249.5	3767015	3.27E-07	1.167YrCa	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	437249.5	3767065	2.52E-07	1.167YrCa	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	437249.5	3767115	2.01E-07	1.167YrCa	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	437249.5	3767165	1.65E-07	1.167YrCa	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	437299.5	3766915	5.61E-07	1.167YrCa	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	437299.5	3766965	4.22E-07	1.167YrCa	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	437299.5	3767015	3.27E-07	1.167YrCa	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	437299.5	3767065	2.55E-07	1.167YrCa	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	437299.5	3767115	2.02E-07	1.167YrCa	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	437299.5	3767165	1.66E-07	1.167YrCa	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	437349.5	3766915	5.39E-07	1.167YrCa	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	437349.5	3766965	4.09E-07	1.167YrCa	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	437349.5	3767015	3.20E-07	1.167YrCa	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	437349.5	3767065	2.53E-07	1.167YrCa	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	437349.5	3767115	2.03E-07	1.167YrCa	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	437349.5	3767165	1.68E-07	1.167YrCa	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	437399.5	3766915	5.10E-07	1.167YrCa	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	437399.5	3766965	3.96E-07	1.167YrCa	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	437399.5	3767015	3													

321	ALL	437299.5	3766565	1.31E-06	1.167YrCa	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	437299.5	3766515	8.96E-07	1.167YrCa	8.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	437299.5	3766465	6.27E-07	1.167YrCa	6.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	437299.5	3766415	4.64E-07	1.167YrCa	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	437299.5	3766365	3.63E-07	1.167YrCa	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	437299.5	3766315	2.95E-07	1.167YrCa	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	437299.5	3766265	2.46E-07	1.167YrCa	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	437299.5	3766215	2.09E-07	1.167YrCa	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	437299.5	3766165	1.80E-07	1.167YrCa	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	437349.5	3766865	7.23E-07	1.167YrCa	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	437349.5	3766815	9.67E-07	1.167YrCa	9.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	437349.5	3766765	1.24E-06	1.167YrCa	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	437349.5	3766715	1.45E-06	1.167YrCa	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	437349.5	3766665	1.49E-06	1.167YrCa	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	437349.5	3766615	1.34E-06	1.167YrCa	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	437349.5	3766565	1.06E-06	1.167YrCa	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	437349.5	3766515	7.75E-07	1.167YrCa	7.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	437349.5	3766465	5.63E-07	1.167YrCa	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	437349.5	3766415	4													

367	ALL	437449.5	3766515	5.86E-07	1.167YrCa	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	437449.5	3766465	4.60E-07	1.167YrCa	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	437449.5	3766415	3.60E-07	1.167YrCa	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	437449.5	3766365	2.86E-07	1.167YrCa	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	437449.5	3766315	2.33E-07	1.167YrCa	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	437449.5	3766265	1.96E-07	1.167YrCa	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	437449.5	3766215	1.69E-07	1.167YrCa	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	437449.5	3766165	1.48E-07	1.167YrCa	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	437499.5	3766865	5.28E-07	1.167YrCa	5.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	437499.5	3766815	6.12E-07	1.167YrCa	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	437499.5	3766765	6.82E-07	1.167YrCa	6.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	437499.5	3766715	7.24E-07	1.167YrCa	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	437499.5	3766665	7.29E-07	1.167YrCa	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	437499.5	3766615	6.88E-07	1.167YrCa	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	437499.5	3766565	6.11E-07	1.167YrCa	6.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	437499.5	3766515	5.15E-07	1.167YrCa	5.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	437499.5	3766465	4.18E-07	1.167YrCa	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	437499.5	3766415	3.34E-07	1.167YrCa	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	437499.5	3766365	2													

413	ALL	437199.5	3766315	3.51E-07	1.167YrCa	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	437199.5	3766265	2.86E-07	1.167YrCa	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	437199.5	3766215	2.37E-07	1.167YrCa	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	437199.5	3766165	2.01E-07	1.167YrCa	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	437149.5	3766415	6.45E-07	1.167YrCa	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	437149.5	3766365	4.81E-07	1.167YrCa	4.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	437149.5	3766315	3.75E-07	1.167YrCa	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	437149.5	3766265	3.01E-07	1.167YrCa	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	437149.5	3766215	2.48E-07	1.167YrCa	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	437149.5	3766165	2.08E-07	1.167YrCa	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	437099.5	3766415	6.97E-07	1.167YrCa	6.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	437099.5	3766365	5.10E-07	1.167YrCa	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	437099.5	3766315	3.91E-07	1.167YrCa	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	437099.5	3766265	3.11E-07	1.167YrCa	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	437099.5	3766215	2.54E-07	1.167YrCa	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	437099.5	3766165	2.12E-07	1.167YrCa	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	437049.5	3766415	7.23E-07	1.167YrCa	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	437049.5	3766365	5.23E-07	1.167YrCa	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	437049.5	3766315	3													

459	ALL	436799.5	3766415	4.86E-07	1.167YrCa	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	436799.5	3766365	4.01E-07	1.167YrCa	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	436799.5	3766315	3.31E-07	1.167YrCa	3.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	436799.5	3766265	2.76E-07	1.167YrCa	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	436799.5	3766215	2.31E-07	1.167YrCa	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	436799.5	3766165	1.96E-07	1.167YrCa	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	436749.5	3766415	4.18E-07	1.167YrCa	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	436749.5	3766365	3.58E-07	1.167YrCa	3.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	436749.5	3766315	3.05E-07	1.167YrCa	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	436749.5	3766265	2.59E-07	1.167YrCa	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	436749.5	3766215	2.21E-07	1.167YrCa	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	436749.5	3766165	1.90E-07	1.167YrCa	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	436699.5	3766415	3.53E-07	1.167YrCa	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	436699.5	3766365	3.12E-07	1.167YrCa	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	436699.5	3766315	2.73E-07	1.167YrCa	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	436699.5	3766265	2.39E-07	1.167YrCa	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	436699.5	3766215	2.08E-07	1.167YrCa	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	436699.5	3766165	1.81E-07	1.167YrCa	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	436649.5	3766415	2.99E-07	1.167YrCa	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	436649.5	3766365	2.71E-07	1.167YrCa											

505	ALL	436799.5	3766965	3.15E-07	1.167YrCa	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	436799.5	3767015	2.65E-07	1.167YrCa	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	436799.5	3767065	2.16E-07	1.167YrCa	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	436799.5	3767115	1.69E-07	1.167YrCa	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	436799.5	3767165	1.39E-07	1.167YrCa	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	436749.5	3766465	4.82E-07	1.167YrCa	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	436749.5	3766515	5.46E-07	1.167YrCa	5.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	436749.5	3766565	5.99E-07	1.167YrCa	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	436749.5	3766615	6.29E-07	1.167YrCa	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	436749.5	3766665	6.25E-07	1.167YrCa	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	436749.5	3766715	5.87E-07	1.167YrCa	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	436749.5	3766765	5.24E-07	1.167YrCa	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	436749.5	3766815	4.52E-07	1.167YrCa	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	436749.5	3766865	3.85E-07	1.167YrCa	3.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	436749.5	3766915	3.27E-07	1.167YrCa	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	436749.5	3766965	2.78E-07	1.167YrCa	2.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	436749.5	3767015	2.39E-07	1.167YrCa	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	436749.5	3767065	1.98E-07	1.167YrCa	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	436749.5	3767115	1													

551	ALL	436649.5	3767015	1.83E-07	1.167YrCa	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	436649.5	3767065	1.53E-07	1.167YrCa	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	436649.5	3767115	1.31E-07	1.167YrCa	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	436649.5	3767165	1.14E-07	1.167YrCa	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	436599.5	3766465	2.74E-07	1.167YrCa	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	436599.5	3766515	2.91E-07	1.167YrCa	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	436599.5	3766565	3.04E-07	1.167YrCa	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	436599.5	3766615	3.09E-07	1.167YrCa	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	436599.5	3766665	3.07E-07	1.167YrCa	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	436599.5	3766715	2.97E-07	1.167YrCa	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	436599.5	3766765	2.81E-07	1.167YrCa	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	436599.5	3766815	2.60E-07	1.167YrCa	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	436599.5	3766865	2.37E-07	1.167YrCa	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	436599.5	3766915	2.14E-07	1.167YrCa	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	436599.5	3766965	1.93E-07	1.167YrCa	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	436599.5	3767015	1.67E-07	1.167YrCa	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	436599.5	3767065	1.40E-07	1.167YrCa	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	436599.5	3767115	1.22E-07	1.167YrCa	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	436599.5	3767165	1													

597 ALL	436749.5	3767465	6.24E-08	1.167YrCa	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598 ALL	436749.5	3767565	5.12E-08	1.167YrCa	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599 ALL	436749.5	3767665	4.25E-08	1.167YrCa	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600 ALL	436849.5	3767265	1.07E-07	1.167YrCa	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601 ALL	436849.5	3767365	8.37E-08	1.167YrCa	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602 ALL	436849.5	3767465	6.65E-08	1.167YrCa	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603 ALL	436849.5	3767565	5.34E-08	1.167YrCa	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604 ALL	436849.5	3767665	4.44E-08	1.167YrCa	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605 ALL	436949.5	3767265	1.16E-07	1.167YrCa	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606 ALL	436949.5	3767365	8.91E-08	1.167YrCa	8.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607 ALL	436949.5	3767465	6.98E-08	1.167YrCa	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608 ALL	436949.5	3767565	5.45E-08	1.167YrCa	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609 ALL	436949.5	3767665	4.51E-08	1.167YrCa	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610 ALL	437049.5	3767265	1.20E-07	1.167YrCa	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611 ALL	437049.5	3767365	9.14E-08	1.167YrCa	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612 ALL	437049.5	3767465	7.07E-08	1.167YrCa	7.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613 ALL	437049.5	3767565	5.52E-08	1.167YrCa	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614 ALL	437049.5	3767665	4.52E-08	1.167YrCa	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

643	ALL	437649.5	3767565	5.73E-08	1.167YrCa	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	437649.5	3767665	4.70E-08	1.167YrCa	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	437749.5	3767265	1.18E-07	1.167YrCa	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	437749.5	3767365	9.05E-08	1.167YrCa	9.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	437749.5	3767465	7.13E-08	1.167YrCa	7.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	437749.5	3767565	5.77E-08	1.167YrCa	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	437749.5	3767665	4.74E-08	1.167YrCa	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	437849.5	3767265	1.14E-07	1.167YrCa	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	437849.5	3767365	8.99E-08	1.167YrCa	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	437849.5	3767465	7.18E-08	1.167YrCa	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	437849.5	3767565	5.81E-08	1.167YrCa	5.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	437849.5	3767665	4.82E-08	1.167YrCa	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	437949.5	3767265	1.11E-07	1.167YrCa	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	437949.5	3767365	8.85E-08	1.167YrCa	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	437949.5	3767465	7.14E-08	1.167YrCa	7.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	437949.5	3767565	5.85E-08	1.167YrCa	5.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	437949.5	3767665	4.86E-08	1.167YrCa	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	438049.5	3767265	1.05E-07	1.167YrCa	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	438049.5	3767365	8.61E-08	1.167YrCa	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	438049.5	3767465	7.09E-08	1.167YrCa											

689	ALL	437749.5	3766365	1.97E-07	1.167YrCa	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	437749.5	3766265	1.46E-07	1.167YrCa	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	437749.5	3766165	1.10E-07	1.167YrCa	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	437749.5	3766065	8.69E-08	1.167YrCa	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	437749.5	3765965	7.21E-08	1.167YrCa	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	437749.5	3765865	6.19E-08	1.167YrCa	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	437749.5	3765765	5.41E-08	1.167YrCa	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	437749.5	3765665	4.78E-08	1.167YrCa	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	437849.5	3767165	1.46E-07	1.167YrCa	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	437849.5	3767065	1.84E-07	1.167YrCa	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	437849.5	3766965	2.21E-07	1.167YrCa	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	437849.5	3766865	2.51E-07	1.167YrCa	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	437849.5	3766765	2.66E-07	1.167YrCa	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	437849.5	3766665	2.71E-07	1.167YrCa	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	437849.5	3766565	2.53E-07	1.167YrCa	2.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	437849.5	3766465	2.17E-07	1.167YrCa	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	437849.5	3766365	1.74E-07	1.167YrCa	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	437849.5	3766265	1.34E-07	1.167YrCa	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	437849.5	3766165	1.03E-07	1.167YrCa	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	437849.5	3766065	8.13E-08	1.167YrCa											

735 ALL	438049.5	3766565	1.77E-07	1.167YrCa	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736 ALL	438049.5	3766465	1.60E-07	1.167YrCa	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737 ALL	438049.5	3766365	1.37E-07	1.167YrCa	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738 ALL	438049.5	3766265	1.13E-07	1.167YrCa	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739 ALL	438049.5	3766165	9.10E-08	1.167YrCa	9.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740 ALL	438049.5	3766065	7.32E-08	1.167YrCa	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741 ALL	438049.5	3765965	5.99E-08	1.167YrCa	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742 ALL	438049.5	3765865	5.03E-08	1.167YrCa	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743 ALL	438049.5	3765765	4.37E-08	1.167YrCa	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744 ALL	438049.5	3765665	3.89E-08	1.167YrCa	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745 ALL	437549.5	3766065	1.05E-07	1.167YrCa	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746 ALL	437549.5	3765965	8.70E-08	1.167YrCa	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747 ALL	437549.5	3765865	7.37E-08	1.167YrCa	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748 ALL	437549.5	3765765	6.32E-08	1.167YrCa	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749 ALL	437549.5	3765665	5.47E-08	1.167YrCa	5.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750 ALL	437449.5	3766065	1.18E-07	1.167YrCa	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751 ALL	437449.5	3765965	9.61E-08	1.167YrCa	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752 ALL	437449.5	3765865	8.01E-08	1.167YrCa	8.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

781	ALL	436849.5	3765965	1.13E-07	1.167YrCa	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	436849.5	3765865	9.10E-08	1.167YrCa	9.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	436849.5	3765765	7.43E-08	1.167YrCa	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	436849.5	3765665	6.20E-08	1.167YrCa	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	436749.5	3766065	1.42E-07	1.167YrCa	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	436749.5	3765965	1.10E-07	1.167YrCa	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	436749.5	3765865	8.87E-08	1.167YrCa	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	436749.5	3765765	7.22E-08	1.167YrCa	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	436749.5	3765665	6.04E-08	1.167YrCa	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	436649.5	3766065	1.34E-07	1.167YrCa	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	436649.5	3765965	1.06E-07	1.167YrCa	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	436649.5	3765865	8.63E-08	1.167YrCa	8.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	436649.5	3765765	7.02E-08	1.167YrCa	7.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	436649.5	3765665	5.90E-08	1.167YrCa	5.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	436549.5	3766065	1.22E-07	1.167YrCa	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	436549.5	3765965	1.00E-07	1.167YrCa	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	436549.5	3765865	8.31E-08	1.167YrCa	8.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	436549.5	3765765	6.80E-08	1.167YrCa	6.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	436549.5	3765665	5													

827 ALL	436449.5	3766365	1.60E-07	1.167YrCa	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828 ALL	436449.5	3766465	1.76E-07	1.167YrCa	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829 ALL	436449.5	3766565	1.86E-07	1.167YrCa	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830 ALL	436449.5	3766665	1.85E-07	1.167YrCa	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831 ALL	436449.5	3766765	1.76E-07	1.167YrCa	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832 ALL	436449.5	3766865	1.59E-07	1.167YrCa	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833 ALL	436449.5	3766965	1.39E-07	1.167YrCa	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834 ALL	436449.5	3767065	1.19E-07	1.167YrCa	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835 ALL	436449.5	3767165	9.72E-08	1.167YrCa	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836 ALL	436449.5	3767265	7.66E-08	1.167YrCa	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837 ALL	436449.5	3767365	6.38E-08	1.167YrCa	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838 ALL	436449.5	3767465	5.30E-08	1.167YrCa	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839 ALL	436449.5	3767565	4.54E-08	1.167YrCa	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840 ALL	436449.5	3767665	3.83E-08	1.167YrCa	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841 ALL	436349.5	3766165	1.05E-07	1.167YrCa	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842 ALL	436349.5	3766265	1.17E-07	1.167YrCa	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843 ALL	436349.5	3766365	1.28E-07	1.167YrCa	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844 ALL	436349.5	3766465	1.37E-07	1.167YrCa	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

873 ALL	436149.5	3766165	7.67E-08	1.167YrCa	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874 ALL	436149.5	3766265	8.23E-08	1.167YrCa	8.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875 ALL	436149.5	3766365	8.76E-08	1.167YrCa	8.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876 ALL	436149.5	3766465	9.11E-08	1.167YrCa	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877 ALL	436149.5	3766565	9.30E-08	1.167YrCa	9.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878 ALL	436149.5	3766665	9.26E-08	1.167YrCa	9.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879 ALL	436149.5	3766765	9.01E-08	1.167YrCa	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880 ALL	436149.5	3766865	8.60E-08	1.167YrCa	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881 ALL	436149.5	3766965	8.03E-08	1.167YrCa	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882 ALL	436149.5	3767065	7.36E-08	1.167YrCa	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883 ALL	436149.5	3767165	6.67E-08	1.167YrCa	6.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884 ALL	436149.5	3767265	5.64E-08	1.167YrCa	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885 ALL	436149.5	3767365	4.75E-08	1.167YrCa	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886 ALL	436149.5	3767465	4.20E-08	1.167YrCa	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887 ALL	436149.5	3767565	3.71E-08	1.167YrCa	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888 ALL	436149.5	3767665	3.24E-08	1.167YrCa	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889 ALL	436049.5	3766165	6.66E-08	1.167YrCa	6.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890 ALL	436049.5	3766265	7.06E-08	1.167YrCa	7.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00							

[illegible]

965	ALL	438449.5	3767865	3.52E-08	1.167YrCa	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	438449.5	3768065	2.70E-08	1.167YrCa	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	438449.5	3768265	2.12E-08	1.167YrCa	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	438449.5	3768465	1.67E-08	1.167YrCa	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	438449.5	3768665	1.35E-08	1.167YrCa	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	438649.5	3767865	3.44E-08	1.167YrCa	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	438649.5	3768065	2.69E-08	1.167YrCa	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	438649.5	3768265	2.13E-08	1.167YrCa	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	438649.5	3768465	1.71E-08	1.167YrCa	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	438649.5	3768665	1.38E-08	1.167YrCa	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	438849.5	3767865	3.32E-08	1.167YrCa	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	438849.5	3768065	2.65E-08	1.167YrCa	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	438849.5	3768265	2.13E-08	1.167YrCa	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	438849.5	3768465	1.73E-08	1.167YrCa	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	438849.5	3768665	1.42E-08	1.167YrCa	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	439049.5	3767865	3.19E-08	1.167YrCa	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	439049.5	3768065	2.58E-08	1.167YrCa	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	439049.5	3768265	2.10E-08	1.167YrCa	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	439049.5	3768465	1													

[illegible]

[illegible]

[illegible]

1149 ALL		435849.5	3766465	5.65E-08	1.167YrCa	5.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150 ALL		435849.5	3766665	5.70E-08	1.167YrCa	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151 ALL		435849.5	3766865	5.45E-08	1.167YrCa	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152 ALL		435849.5	3767065	4.96E-08	1.167YrCa	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153 ALL		435849.5	3767265	4.16E-08	1.167YrCa	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154 ALL		435849.5	3767465	3.20E-08	1.167YrCa	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155 ALL		435849.5	3767665	2.62E-08	1.167YrCa	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156 ALL		435849.5	3767865	2.20E-08	1.167YrCa	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157 ALL		435849.5	3768065	1.85E-08	1.167YrCa	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158 ALL		435849.5	3768265	1.54E-08	1.167YrCa	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159 ALL		435849.5	3768465	1.31E-08	1.167YrCa	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160 ALL		435849.5	3768665	1.11E-08	1.167YrCa	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161 ALL		435649.5	3765665	3.22E-08	1.167YrCa	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162 ALL		435649.5	3765865	3.58E-08	1.167YrCa	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163 ALL		435649.5	3766065	3.92E-08	1.167YrCa	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164 ALL		435649.5	3766265	4.21E-08	1.167YrCa	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165 ALL		435649.5	3766465	4.38E-08	1.167YrCa	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166 ALL		435649.5	3766665	4.40E-08	1.167YrCa	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167 ALL		435649.5	3766865	4													

1195	ALL	435249.5	3766065	2.70E-08	1.167YrCa	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	435249.5	3766265	2.82E-08	1.167YrCa	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	435249.5	3766465	2.88E-08	1.167YrCa	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	435249.5	3766665	2.88E-08	1.167YrCa	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	435249.5	3766865	2.82E-08	1.167YrCa	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	435249.5	3767065	2.70E-08	1.167YrCa	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	435249.5	3767265	2.53E-08	1.167YrCa	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	435249.5	3767465	2.33E-08	1.167YrCa	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	435249.5	3767665	1.94E-08	1.167YrCa	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	435249.5	3767865	1.65E-08	1.167YrCa	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	435249.5	3768065	1.43E-08	1.167YrCa	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	435249.5	3768265	1.27E-08	1.167YrCa	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	435249.5	3768465	1.12E-08	1.167YrCa	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	435249.5	3768665	9.88E-09	1.167YrCa	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	435049.5	3765665	2.06E-08	1.167YrCa	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	435049.5	3765865	2.19E-08	1.167YrCa	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	435049.5	3766065	2.30E-08	1.167YrCa	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	435049.5	3766265	2.38E-08	1.167YrCa	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	435049.5	3766465	2.42E-08	1.167YrCa	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	435049.5	3766665	2.4												

HARP2 - HRACalc (dated 22118) 11/5/2025 1:40:21 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1.167

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1.167
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05

Soil mixing depth (m): 0.01

Dermal climate: Warm

HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden

Fraction leafy: 0.137

Fraction exposed: 0.137

Fraction protected: 0.137

Fraction root: 0.137

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating cancer risk

Cancer risk breakdown by pollutant and receptor saved to:

C:\Users\dlarocca\Desktop\HARP2 Files\BensonMit\hra\ConstCancerMitCancerRisk.csv

Cancer risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2

Files\BensonMit\hra\ConstCancerMitCancerRiskSumByRec.csv

HRA ran successfully

[illegible]

49		436889.5	3766885	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-04
50	ALL	436909.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-04
51	ALL	436909.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
52	ALL	436909.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03
53	ALL	436909.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
54	ALL	436909.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
55	ALL	436909.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
56	ALL	436909.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-04
57	ALL	436909.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
58	ALL	436909.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04
59	ALL	436909.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-04
60	ALL	436929.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-04
61	ALL	436929.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-03
62	ALL	436929.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
63	ALL	436929.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03
64	ALL	436929.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
65	ALL	436929.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
66	ALL	436929.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
67	ALL	436929.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-04
68	ALL	436929.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
69	ALL	436929.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04
70	ALL	436949.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-04
71	ALL	436949.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
72	ALL	436949.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03
73	ALL	436949.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03
74	ALL	436949.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
75	ALL	436949.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
76	ALL	436949.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03
77	ALL	436949.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
78	ALL	436949.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-04
79	ALL	436949.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-04
80	ALL	436969.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
81	ALL	436969.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
82	ALL	436969.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
83	ALL	436969.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-03
84	ALL	436969.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03
85	ALL	436969.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
86	ALL	436969.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
87	ALL	436969.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-04
88	ALL	436989.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03
89	ALL	436989.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
90	ALL	436989.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03
91	ALL	436989.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03
92	ALL	436989.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
93	ALL	436989.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
94	ALL	436989.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-04
95	ALL	436989.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-04
96	ALL	437009.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
97	ALL	437009.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-03
98	ALL	437009.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03

[illegible]

149		437189.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03
150	ALL	437189.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03
151	ALL	437189.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03
152	ALL	437189.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-03
153	ALL	437189.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03
154	ALL	437189.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03
155	ALL	437189.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
156	ALL	437189.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
157	ALL	437189.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-03
158	ALL	437189.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
159	ALL	437189.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
160	ALL	437189.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-04
161	ALL	437189.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-04
162	ALL	437209.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
163	ALL	437209.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
164	ALL	437209.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-03
165	ALL	437209.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-03
166	ALL	437209.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
167	ALL	437209.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-03
168	ALL	437209.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
169	ALL	437209.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
170	ALL	437209.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03
171	ALL	437209.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03
172	ALL	437209.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-03
173	ALL	437209.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-03
174	ALL	437209.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-03
175	ALL	437209.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-03
176	ALL	437209.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
177	ALL	437209.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-03
178	ALL	437209.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03
179	ALL	437209.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
180	ALL	437209.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
181	ALL	437209.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-04
182	ALL	437209.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04
183	ALL	437229.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04
184	ALL	437229.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04
185	ALL	437229.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-04
186	ALL	437229.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03
187	ALL	437229.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03
188	ALL	437229.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03
189	ALL	437229.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
190	ALL	437229.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03
191	ALL	437229.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03
192	ALL	437229.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
193	ALL	437229.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-03
194	ALL	437229.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-03
195	ALL	437229.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
196	ALL	437229.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
197	ALL	437229.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-03
198	ALL	437229.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-03

		437229.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03
200	ALL	437229.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03
201	ALL	437229.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
202	ALL	437229.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-04
203	ALL	437229.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04
204	ALL	437249.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04
205	ALL	437249.5	3766485	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-04
206	ALL	437249.5	3766505	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-04
207	ALL	437249.5	3766525	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
208	ALL	437249.5	3766545	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
209	ALL	437249.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03
210	ALL	437249.5	3766585	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03
211	ALL	437249.5	3766605	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-03
212	ALL	437249.5	3766625	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
213	ALL	437249.5	3766645	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-03
214	ALL	437249.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-03
215	ALL	437249.5	3766685	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-03
216	ALL	437249.5	3766705	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03
217	ALL	437249.5	3766725	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-03
218	ALL	437249.5	3766745	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03
219	ALL	437249.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-03
220	ALL	437249.5	3766785	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03
221	ALL	437249.5	3766805	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
222	ALL	437249.5	3766825	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
223	ALL	437249.5	3766845	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04
224	ALL	437249.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
225	ALL	436849.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-04
226	ALL	436849.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
227	ALL	436849.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
228	ALL	436849.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
229	ALL	436849.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
230	ALL	436849.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
231	ALL	436899.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04
232	ALL	436899.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-04
233	ALL	436899.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
234	ALL	436899.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
235	ALL	436899.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
236	ALL	436899.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
237	ALL	436949.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04
238	ALL	436949.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
239	ALL	436949.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
240	ALL	436949.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
241	ALL	436949.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
242	ALL	436949.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
243	ALL	436999.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-04
244	ALL	436999.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
245	ALL	436999.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
246	ALL	436999.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
247	ALL	436999.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
248	ALL	436999.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04

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		437399.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03
350 ALL		437399.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03
351 ALL		437399.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04
352 ALL		437399.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
353 ALL		437399.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
354 ALL		437399.5	3766415	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
355 ALL		437399.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
356 ALL		437399.5	3766315	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
357 ALL		437399.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
358 ALL		437399.5	3766215	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
359 ALL		437399.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
360 ALL		437449.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-04
361 ALL		437449.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04
362 ALL		437449.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
363 ALL		437449.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-04
364 ALL		437449.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-04
365 ALL		437449.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
366 ALL		437449.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+				

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		436799.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-04
500	ALL	436799.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-04
501	ALL	436799.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-04
502	ALL	436799.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
503	ALL	436799.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
504	ALL	436799.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04
505	ALL	436799.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
506	ALL	436799.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
507	ALL	436799.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
508	ALL	436799.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
509	ALL	436799.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
510	ALL	436749.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04
511	ALL	436749.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04
512	ALL	436749.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-04
513	ALL	436749.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
514	ALL	436749.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
515	ALL	436749.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
516	ALL	436749.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04
517	ALL	436749.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
518	ALL	436749.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
519	ALL	436749.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
520	ALL	436749.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
521	ALL	436749.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
522	ALL	436749.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
523	ALL	436749.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
524	ALL	436749.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
525	ALL	436699.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
526	ALL	436699.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
527	ALL	436699.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
528	ALL	436699.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-04
529	ALL	436699.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
530	ALL	436699.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
531	ALL	436699.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
532	ALL	436699.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-04
533	ALL	436699.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
534	ALL	436699.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
535	ALL	436699.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
536	ALL	436699.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
537	ALL	436699.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
538	ALL	436699.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
539	ALL	436699.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
540	ALL	436649.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
541	ALL	436649.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04
542	ALL	436649.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-04
543	ALL	436649.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-04
544	ALL	436649.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04
545	ALL	436649.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
546	ALL	436649.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
547	ALL	436649.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
548	ALL	436649.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04

		436649.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
550 ALL		436649.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
551 ALL		436649.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
552 ALL		436649.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
553 ALL		436649.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
554 ALL		436649.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
555 ALL		436599.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
556 ALL		436599.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
557 ALL		436599.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
558 ALL		436599.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
559 ALL		436599.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
560 ALL		436599.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
561 ALL		436599.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
562 ALL		436599.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
563 ALL		436599.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
564 ALL		436599.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
565 ALL		436599.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
566 ALL		436599.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
567 ALL		436599.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
568 ALL		436599.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
569 ALL		436599.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
570 ALL		436549.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
571 ALL		436549.5	3766515	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
572 ALL		436549.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
573 ALL		436549.5	3766615	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
574 ALL		436549.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
575 ALL		436549.5	3766715	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
576 ALL		436549.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
577 ALL		436549.5	3766815	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
578 ALL		436549.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
579 ALL		436549.5	3766915	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
580 ALL		436549.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
581 ALL		436549.5	3767015	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
582 ALL		436549.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
583 ALL		436549.5	3767115	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
584 ALL		436549.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
585 ALL		436549.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-05
586 ALL		436549.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05
587 ALL		436549.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
588 ALL		436549.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
589 ALL		436549.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
590 ALL		436649.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
591 ALL		436649.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05
592 ALL		436649.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
593 ALL		436649.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
594 ALL		436649.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
595 ALL		436749.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05
596 ALL		436749.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
597 ALL		436749.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
598 ALL		436749.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05

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		437549.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
750 ALL		437449.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
751 ALL		437449.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
752 ALL		437449.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
753 ALL		437449.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
754 ALL		437449.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
755 ALL		437349.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
756 ALL		437349.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
757 ALL		437349.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05
758 ALL		437349.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
759 ALL		437349.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
760 ALL		437249.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
761 ALL		437249.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
762 ALL		437249.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
763 ALL		437249.5	3765765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05
764 ALL		437249.5	3765665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
765 ALL		437149.5	3766065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
766 ALL		437149.5	3765965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
767 ALL		437149.5	3765865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00</			

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849		436349.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
850	ALL	436349.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
851	ALL	436349.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
852	ALL	436349.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
853	ALL	436349.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
854	ALL	436349.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
855	ALL	436349.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
856	ALL	436349.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
857	ALL	436249.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
858	ALL	436249.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
859	ALL	436249.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
860	ALL	436249.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
861	ALL	436249.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
862	ALL	436249.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
863	ALL	436249.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
864	ALL	436249.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
865	ALL	436249.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
866	ALL	436249.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
867	ALL	436249.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-05
868	ALL	436249.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
869	ALL	436249.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
870	ALL	436249.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
871	ALL	436249.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
872	ALL	436249.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
873	ALL	436149.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
874	ALL	436149.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
875	ALL	436149.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-05
876	ALL	436149.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
877	ALL	436149.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
878	ALL	436149.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
879	ALL	436149.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
880	ALL	436149.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
881	ALL	436149.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
882	ALL	436149.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-05
883	ALL	436149.5	3767165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
884	ALL	436149.5	3767265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
885	ALL	436149.5	3767365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
886	ALL	436149.5	3767465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
887	ALL	436149.5	3767565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
888	ALL	436149.5	3767665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
889	ALL	436049.5	3766165	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
890	ALL	436049.5	3766265	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
891	ALL	436049.5	3766365	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
892	ALL	436049.5	3766465	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
893	ALL	436049.5	3766565	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
894	ALL	436049.5	3766665	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
895	ALL	436049.5	3766765	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-05
896	ALL	436049.5	3766865	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
897	ALL	436049.5	3766965	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
898	ALL	436049.5	3767065	NonCancel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05

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[illegible]

[illegible]

[illegible]

5.77E-03

HARP2 - HRACalc (dated 22118) 11/5/2025 1:42:09 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Exposure duration are only adjusted for cancer assessments

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm

HOME GROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to:

C:\Users\dlarocca\Desktop\HARP2

Files\BensonMit\hra\ConstChronicMitNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\dlarocca\Desktop\HARP2

Files\BensonMit\hra\ConstChronicMitNCChronicRiskSumByRec.csv

HRA ran successfully

Appendix C

Biological Resources Species List



Photo 1. Overview of site, taken from southwestern corner.



Photo 2. Overview of site, taken from northeastern corner.



Photo 3. Overview of emergent vegetation within detention basin in southern portion of site.



Photo 4. Detention basin vegetation as seen from west side,



Photo 5. Overview of disturbed habitat in southern portion of study area, in the lot to the south of the project site. Taken from southwestern corner of site.



Photo 6. Overview of disturbed habitat to the south, taken from southeastern corner of site.

INTENTIONALLY LEFT BLANK

Plant Species

Vascular Species

Eudicots

AMARANTHACEAE — AMARANTH FAMILY

- * *Amaranthus albus* – prostrate pigweed

ASTERACEAE—SUNFLOWER FAMILY

- * *Erigeron bonariensis* – asthmaweed
- * *Sonchus oleraceus* – common sowthistle
- * *Verbesina enceloides* – golden crownbeard

BRASSICACEAE—MUSTARD FAMILY

- * *Hirschfeldia incana* – shortpod mustard

CHENOPODIACEAE—GOOSEFOOT FAMILY

- * *Salsola tragus* – prickly Russian thistle

EUPHORBIACEAE—SPURGE FAMILY

- * *Euphorbia prostrata* – prostrate sandmat
- * *Ricinus communis* – castorbean

OLEACEAE—OLIVE FAMILY

- * *Fraxinus uhdei* – evergreen ash

POLYGONACEAE—BUCKWHEAT FAMILY

- Persicaria lapathifolia* – smartweed

PORTULACACEAE—PURSLANE FAMILY

- * *Portulaca oleracea* – little hogweed

PROTEACEAE—PROTEA FAMILY

- * *Grevillea robusta* – silkoak

Monocots

POACEAE – GRASS FAMILY

- * *Cynodon dactylon* – Bermudagrass
- * *Leptochloa fusca* – Malabar sprangletop

TYPHACEAE – CATTAIL FAMILY

Typha spp. – Typha species

Wildlife Species

Birds

Finches

FRINGILLIDAE – FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus – house finch

Flycatchers

TYRANNIDAE – TYRANT FLYCATCHERS

Sayornis nigricans – black phoebe

Tyrannus vociferans – Cassin's kingbird

Old World Sparrows

PASSERIDAE – OLD WORLD SPARROWS

Passer domesticus – house sparrow

Pigeons and doves

COLUMBIDAE – PIGEONS AND DOVES

Zenaida macroura – mourning dove

Wood Warblers and Allies

PARULIDAE – WOOD-WARBLERS

Setophaga coronata – yellow-rumped warbler

Waxbills

ESTRILDIDAE – WAXBILLS

* *Lonchura punctulata* – scaly-breasted munia

New World Sparrows

PASSERELLIDAE – NEW WORLD SPARROWS

Melospiza melodia – song sparrow

Passerculus sandwichensis – savannah sparrow

- * signifies introduced (non-native) species

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Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand- verbena	None/None/1B.1	Chaparral, Coastal scrub, Desert dunes; Sandy/annual herb/(Jan)Mar-Sep/245-5,250	Not expected to occur. No suitable habitat is present.
<i>Aphyllon validum</i> ssp. <i>validum</i>	Rock Creek broomrape	None/None/1B.2	Chaparral, Pinyon and juniper woodland; Granitic/perennial herb (parasitic)/May-Sep/3,380-6,560	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Arctostaphylos</i> <i>glandulosa</i> ssp. <i>gabrielensis</i>	San Gabriel manzanita	None/None/1B.2	Chaparral (rocky)/perennial evergreen shrub/Mar/1950-4920	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Astragalus brauntonii</i>	Braunton's milk- vetch	FE/None/1B.1	Chaparral, Coastal scrub, Valley and foothill grassland; Burned areas (sometimes), Carbonate, Disturbed areas (sometimes), Sandstone (usually)/perennial herb/Jan- Aug/15-2,100	Not expected to occur. No suitable habitat is present.
<i>Atriplex coulteri</i>	Coulter's saltbush	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/perennial herb/Mar-Oct/10-1,510	Not expected to occur. No suitable habitat is present.
<i>Berberis nevinii</i>	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; Gravelly (sometimes), Sandy (sometimes)/perennial evergreen shrub/(Feb)Mar-June/230-2,705	Not expected to occur. No suitable habitat is present.
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	FT/SE/1B.1	Chaparral (openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools; Clay (often)/perennial bulbiferous herb/Mar-June/80- 3,675	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Calochortus clavatus</i> <i>var. gracilis</i>	slender mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/Mar–June(Nov)/1050–3280	Not expected to occur. The site is outside of the species' known elevation range.
<i>Calochortus weedii</i> <i>var. intermedius</i>	intermediate mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Rocky/perennial bulbiferous herb/May–July/345–2,805	Not expected to occur. No suitable habitat is present.
<i>Calystegia felix</i>	lucky morning-glory	None/None/1B.1	Meadows and seeps (sometimes alkaline), Riparian scrub (alluvial); Alkaline (sometimes), Loam (sometimes)/annual rhizomatous herb/Mar–Sep/100–705	Not expected to occur. The site is outside of the species' known elevation range.
<i>Calystegia sepium</i> <i>ssp. binghamiae</i>	Santa Barbara morning-glory	None/None/1A	Marshes and swamps (coastal)/perennial rhizomatous herb/Aug/15–15	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	None/SR/1B.2	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; Granitic/perennial herb (hemiparasitic)/May–June(Sep)/3,805–7,120	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Centromadia pungens</i> <i>ssp. laevis</i>	smooth tarplant	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; Alkaline/annual herb/Apr–Sep/0–2,100	Not expected to occur. No suitable habitat is present.

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<i>Chorizanthe parryi</i> <i>var. parryi</i>	Parry's spineflower	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Openings, Rocky (sometimes), Sandy (sometimes)/annual herb/Apr–June/900–4,005	Not expected to occur. The site is outside of the species' known elevation range.
<i>Cladium californicum</i>	California saw-grass	None/None/2B.2	Marshes and swamps (alkaline, freshwater), Meadows and seeps/perennial rhizomatous herb/June–Sep/195–5250	Not expected to occur. No suitable habitat is present.
<i>Claytonia peirsonii</i> <i>ssp. peirsonii</i>	Peirson's spring beauty	None/None/1B.2	Subalpine coniferous forest, Upper montane coniferous forest; Granitic, Metamorphic, Scree, Talus/perennial herb/(Mar)May–June/4,955–9,005	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Dodecahema leptoceras</i>	slender-horned spineflower	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub (alluvial fans); Sandy/annual herb/Apr–June/655–2,495	Not expected to occur. No suitable habitat is present.
<i>Dudleya densiflora</i>	San Gabriel Mountains dudleya	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland; Granitic/perennial herb/Mar–July/800–2,000	Not expected to occur. No suitable habitat is present.
<i>Dudleya multicaulis</i>	many-stemmed dudleya	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay (often)/perennial herb/Apr–July/50–2,590	Not expected to occur. No suitable habitat is present.
<i>Eriastrum densifolium</i> <i>ssp. sanctorum</i>	Santa Ana River woollystar	FE/SE/1B.1	Chaparral, Coastal scrub (alluvial fans); Gravelly (sometimes), Sandy (sometimes)/perennial herb/Apr–Sep/300–2,000	Not expected to occur. No suitable habitat is present.

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<i>Eriogonum microthecum</i> var. <i>johnstonii</i>	Johnston's buckwheat	None/None/1B.3	Subalpine coniferous forest, Upper montane coniferous forest; Rocky/perennial deciduous shrub/July–Sep/6,000–9,600	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Fimbristylis thermalis</i>	hot springs fimbristylis	None/None/2B.2	Meadows and seeps (alkaline, near hot springs)/perennial rhizomatous herb/July–Sep/360–4395	Not expected to occur. No suitable habitat is present.
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/perennial herb/Feb–July(Sep)/230–2,660	Not expected to occur. No suitable habitat is present.
<i>Imperata brevifolia</i>	California satintail	None/None/2B.1	Chaparral, Coastal scrub, Meadows and seeps (often alkali), Mojavean desert scrub, Riparian scrub; Mesic/perennial rhizomatous herb/Sep–May/0–3,985	Not expected to occur. No suitable habitat is present.
<i>Lilium parryi</i>	lemon lily	None/None/1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest; Mesic/perennial bulbiferous herb/July–Aug/4,005–9,005	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Linanthus concinnus</i>	San Gabriel linanthus	None/None/1B.2	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest; Openings, Rocky/annual herb/Apr–July/4,985–9,185	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Monardella australis</i> ssp. <i>jokerstii</i>	Jokerst's monardella	None/None/1B.1	Chaparral, Lower montane coniferous forest; Alluvial Terraces, Scree, Slopes, Talus, Washes/perennial rhizomatous herb/July–Sep/4,430–5,740	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.

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<i>Monardella breweri</i> <i>ssp. glandulifera</i>	Brown's Flat monardella	None/None/1B.2	Chaparral, Lower montane coniferous forest; Dry, Openings/annual herb/May– Aug/4,265–4,920	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Monardella</i> <i>macrantha ssp. hallii</i>	Hall's monardella	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/June–Oct/2395–7200	Not expected to occur. The site is outside of the species' known elevation range.
<i>Muhlenbergia utilis</i>	aparejo grass	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Marshes and swamps, Meadows and seeps; Alkaline (sometimes), Serpentine (sometimes)/perennial rhizomatous herb/Mar–Oct/80–7,630	Not expected to occur. No suitable vegetation present.
<i>Navarretia prostrata</i>	prostrate vernal pool navarretia	None/None/1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools; Mesic/annual herb/Apr–July/10– 3,970	Not expected to occur. No suitable habitat is present.
<i>Oreonana vestita</i>	woolly mountain- parsley	None/None/1B.3	Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest; Gravelly (sometimes), Talus (sometimes)/perennial herb/Mar– Sep/5,300–11,485	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Pelazoneuron</i> <i>puberulum var.</i> <i>sonorensis</i>	Sonoran maiden fern	None/None/2B.2	Meadows and seeps (seeps, streams)/perennial rhizomatous herb/Jan–Sep/165–2000	Not expected to occur. No suitable habitat is present.
<i>Phacelia stellaris</i>	Brand's star phacelia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar–June/5– 1310	Not expected to occur. No suitable habitat is present.

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<i>Pseudognaphalium leucocephalum</i>	white rabbit-tobacco	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; Gravelly, Sandy/perennial herb/(July)Aug–Nov(Dec)/0–6,890	Not expected to occur. No suitable vegetation present.
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	None/None/1B.2	Marshes and swamps (shallow freshwater)/perennial rhizomatous herb (emergent)/May–Oct(Nov)/0–2135	Not expected to occur. No suitable vegetation present.
<i>Senecio aphanactis</i>	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; Alkaline (sometimes)/annual herb/Jan–Apr(May)/50–2,625	Not expected to occur. No suitable vegetation present.
<i>Sidalcea neomexicana</i>	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; Alkaline, Mesic/perennial herb/Mar–June/50–5,020	Not expected to occur. No suitable vegetation present.
<i>Symphyotrichum defoliatum</i>	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland (vernally mesic); Streambanks/perennial rhizomatous herb/July–Nov/5–6,695	Not expected to occur. No suitable habitat is present.
<i>Symphyotrichum greatae</i>	Greata's aster	None/None/1B.3	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland; Mesic/perennial rhizomatous herb/June–Oct/985–6,595	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.

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<i>Thysanocarpus rigidus</i>	rigid fringepod	None/None/1B.2	Pinyon and juniper woodland; Dry, Rocky, Slopes/annual herb/Feb–May/1,970–7,220	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Viola pinetorum</i> ssp. <i>grisea</i>	grey-leaved violet	None/None/1B.2	Meadows and seeps, Subalpine coniferous forest, Upper montane coniferous forest/perennial herb/Apr–July/4920–11155	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
<i>Yucca brevifolia</i>	western Joshua tree	None/SC/CBR	Great Basin grassland, Great Basin scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub, Valley and foothill grassland/perennial leaf succulent/Apr–May/1312–6562	Not expected to occur. The site is outside of the species' known elevation range.

Notes:**Status Legend:****Federal Designations**

FE: Federally listed endangered

FT: Federally listed as threatened

State Designations

SE: State listed as endangered

SR: State listed as rare

SC: State candidate for listing

California Rare Plant Ranking (CRPR)

1A: Plants presumed extirpated in California and either rare or extinct elsewhere

1B: Plants rare, threatened, or endangered in California and elsewhere

2A: Plants presumed extirpated in California, but common elsewhere

2B: Plants rare, threatened, or endangered in California but more common elsewhere

CBR: Considered but rejected

Threat Rank

.1: Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)

.2: Moderately threatened in California (20% to 80% of occurrences threatened/moderate degree and immediacy of threat)

.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

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Amphibians				
<i>Anaxyrus californicus</i>	arroyo toad	FE/SSC	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	Not expected to occur. No suitable habitat is present.
<i>Ensatina eschscholtzii klauberi</i>	large-blotched salamander	None/WL	Moist and shaded evergreen and deciduous woodlands	Not expected to occur. No suitable habitat is present.
<i>Rana boylei</i> pop. 6	foothill yellow-legged frog - south coast DPS	FE/SE	Rocky streams and rivers with open banks in forest, chaparral, and woodland	Not expected to occur. No suitable habitat is present.
<i>Rana draytonii</i>	California red-legged frog	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	Not expected to occur. No suitable habitat is present.
<i>Rana muscosa</i>	mountain yellow-legged frog	FE/SE, WL	Lakes, ponds, meadow streams, isolated pools, and open riverbanks; rocky canyons in narrow canyons and in chaparral	Not expected to occur. No suitable habitat is present.
<i>Spea hammondi</i>	western spadefoot	FPT/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley-foothill woodlands, pastures, and other agriculture	Not expected to occur. No suitable habitat is present.
<i>Taricha torosa</i> (Monterey Co. south only)	California newt	None/SSC	Wet forests, oak forests, chaparral, and rolling grassland	Not expected to occur. No suitable habitat is present.

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Reptiles				
<i>Anniella stebbinsi</i>	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley-foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. No suitable habitat is present.
<i>Arizona elegans occidentalis</i>	California glossy snake	None/SSC	Arid scrub, rocky washes, grasslands, chaparral, open areas with loose soil	Not expected to occur. No suitable habitat is present.
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	None/WL	Low-elevation coastal scrub, chaparral, and valley-foothill hardwood	Not expected to occur. No suitable habitat is present.
<i>Aspidoscelis tigris stejnegeri</i>	San Diegan tiger whiptail	None/SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Not expected to occur. No suitable habitat is present.
<i>Coleonyx variegatus abbotti</i>	San Diego banded gecko	None/SSC	Rocky areas within coastal scrub and chaparral	Not expected to occur. No suitable habitat is present.
<i>Crotalus ruber</i>	red diamondback rattlesnake	None/SSC	Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats	Not expected to occur. No suitable habitat is present.
<i>Gopherus agassizii</i>	Mojave desert tortoise	FT/ST	Arid and semi-arid habitats in Mojave and Sonoran Deserts, including sandy or gravelly locations along riverbanks, washes, sandy dunes, canyon bottoms, desert oases, rocky hillsides, creosote flats, and hillsides	Not expected to occur. No suitable habitat is present.
<i>Phrynosoma blainvillii</i>	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley-foothill hardwood, conifer, riparian, pine-cypress, juniper, and annual grassland habitats	Not expected to occur. No suitable habitat is present.

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<i>Salvadora hexalepis virgultea</i>	coast patch-nosed snake	None/SSC	Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites	Not expected to occur. No suitable habitat is present.
<i>Thamnophis hammondi</i>	two-striped gartersnake	None/SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Not expected to occur. No suitable habitat is present.
<i>Thamnophis sirtalis</i> ssp. (Southern California coastal plain from Ventura County to San Diego County, and from sea level to about 850 m)	south coast garter snake	None/SSC	Marsh and upland habitats near permanent water and riparian vegetation	Not expected to occur. No suitable habitat is present.
<i>Actinemys pallida</i>	southwestern pond turtle	FPT/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. No suitable habitat is present.
Birds				
<i>Accipiter cooperii</i> (nesting)	Cooper's hawk	None/WL	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	Not expected to occur. No suitable habitat is present.
<i>Accipiter striatus</i> (nesting)	sharp-shinned hawk	None/WL	Nests in coniferous forests, ponderosa pine, black oak, riparian deciduous, mixed conifer, Jeffrey pine; winters in lowland woodlands and other habitats	Not expected to occur. No suitable habitat is present.
<i>Agelaius tricolor</i> (nesting colony)	tricolored blackbird	BCC/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	Not expected to occur. No suitable habitat is present.
<i>Aimophila ruficeps canescens</i>	Southern California rufous-crowned sparrow	None/WL	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	Not expected to occur. No suitable habitat is present.

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<i>Ammodramus savannarum (nesting)</i>	grasshopper sparrow	None/SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	Not expected to occur. No suitable habitat is present.
<i>Antigone canadensis canadensis (wintering)</i>	lesser sandhill crane	None/SSC	Winter foraging in cropland, grazed and mowed grassland, pasture, alfalfa fields, and shallow wetlands; roosting sites are flooded and support several inches of water	Not expected to occur. No suitable habitat is present.
<i>Aquila chrysaetos (nesting & wintering)</i>	golden eagle	None/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Not expected to occur. No suitable habitat is present.
<i>Artemisiospiza belli belli</i>	Bell's sage sparrow	None/WL	Nests and forages in coastal scrub and dry chaparral; typically in large, unfragmented patches dominated by chamise; nests in more dense patches but uses more open habitat in winter	Not expected to occur. No suitable habitat is present.
<i>Asio flammeus (nesting)</i>	short-eared owl	BCC/SSC	Grassland, prairies, dunes, meadows, irrigated lands, and saline and freshwater emergent wetlands	Not expected to occur. No suitable habitat is present.
<i>Asio otus (nesting)</i>	long-eared owl	BCC/SSC	Nests in riparian habitat, live oak thickets, other dense stands of trees, edges of coniferous forest; forages in nearby open habitats	Not expected to occur. No suitable habitat is present.
<i>Athene cunicularia (burrow sites & some wintering sites)</i>	burrowing owl	BCC/SSC, SC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Not expected to occur. No suitable habitat is present.

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<i>Branta bernicla</i> (wintering & staging)	brant	None/SSC	Nesting habitat includes the edges of saltmarshes in the low Arctic region; migratory habitats include shallow marine lakes; winter range includes intertidal mudflats in shallow marine waters with abundant eelgrass and/or green algae	Not expected to occur. No suitable habitat is present.
<i>Buteo regalis</i> (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	Not expected to occur. No suitable habitat is present.
<i>Buteo swainsoni</i> (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Not expected to occur. No suitable habitat is present.
<i>Campylorhynchus brunneicapillus sandiegensis</i> (San Diego & Orange Counties only)	coastal cactus wren	None/SSC	Southern cactus scrub patches	Not expected to occur. No suitable habitat is present.
<i>Chaetura vauxi</i> (nesting)	Vaux's swift	None/SSC	Late-stage conifer forest and mixed-conifer/deciduous forest; nests in redwood (<i>Sequoia sempervirens</i>), Douglas-fir (<i>Pseudotsuga</i> spp.), and other conifers, and occasionally buildings and chimneys	Not expected to occur. No suitable habitat is present.
<i>Charadrius montanus</i> (wintering)	mountain plover	BCC/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	Not expected to occur. No suitable habitat is present.

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<i>Circus hudsonius</i> (nesting)	northern harrier	BCC/SSC	Nests in open wetlands (marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes); also in drier habitats (grassland and grain fields); forages in grassland, scrubs, rangelands, emergent wetlands, and other open habitats	Not expected to occur. No suitable habitat is present.
<i>Cistothorus palustris clarkae</i>	Clark's marsh wren	None/SSC	Nests and forages in freshwater and brackish marsh dominated by bulrushes and cattails	Not expected to occur. No suitable habitat is present.
<i>Coccyzus americanus occidentalis</i> (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. No suitable habitat is present.
<i>Contopus cooperi</i> (nesting)	olive-sided flycatcher	BCC/SSC	Nests in mixed-conifer, montane hardwood-conifer, Douglas-fir, redwood, red fir, and lodgepole pine habitats; usually close to water	Not expected to occur. No suitable habitat is present.
<i>Coturnicops noveboracensis</i>	yellow rail	BCC/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	Not expected to occur. No suitable habitat is present.
<i>Cypseloides niger</i> (nesting)	black swift	BCC/SSC	Nests in moist crevices, caves, and cliffs behind or adjacent to waterfalls in deep canyons; forages over a wide range of habitats	Not expected to occur. No suitable habitat is present.
<i>Elanus leucurus</i> (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Not expected to occur. No suitable habitat is present.
<i>Empidonax traillii</i> (nesting)	willow flycatcher	None/SE	Nests in wet meadow and montane willow riparian	Not expected to occur. No suitable habitat is present.
<i>Empidonax traillii brewsteri</i> (nesting)	little willow flycatcher	None/SE	Nests in riparian willow, montane meadows, and along streams	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Empidonax traillii extimus (nesting)</i>	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. No suitable habitat is present.
<i>Eremophila alpestris actia</i>	California horned lark	None/WL	This subspecies of horned lark occurs on the state's southern and central coastal slope and in the San Joaquin Valley. Nests and forages in grasslands, disturbed lands, agriculture, and beaches.	Not expected to occur. No suitable habitat is present.
<i>Falco columbarius (wintering)</i>	merlin	None/WL	Forages in semi-open areas, including coastline, grassland, agriculture, savanna, woodland, lakes, and wetlands	Not expected to occur. No suitable habitat is present.
<i>Falco mexicanus (nesting)</i>	prairie falcon	None/WL	Forages in grassland, savanna, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs	Not expected to occur. No suitable habitat is present.
<i>Haliaeetus leucocephalus (nesting & wintering)</i>	bald eagle	FPD/FP, SE	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains	Not expected to occur. No suitable habitat is present.
<i>Icteria virens (nesting)</i>	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. No suitable habitat is present.
<i>Ixobrychus exilis (nesting)</i>	least bittern	None/SSC	Nests in freshwater and brackish marshes with dense, tall growth of aquatic and semi-aquatic vegetation	Not expected to occur. No suitable habitat is present.
<i>Lanius ludovicianus (nesting)</i>	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Not expected to occur. No suitable habitat is present.
<i>Laterallus jamaicensis coturniculus</i>	California black rail	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Mycteria americana</i>	wood stork	None/SSC	Nests in freshwater and marine-estuarine forested habitats; forages in natural and artificial wetlands; roosts in trees, usually over water	Not expected to occur. No suitable habitat is present.
<i>Numenius americanus</i> (nesting)	long-billed curlew	None/WL	Nests in grazed, mixed grass, and short-grass prairies; localized nesting along the California coast; winters and forages in coastal estuaries, mudflats, open grassland, and cropland	Not expected to occur. No suitable habitat is present.
<i>Pandion haliaetus</i> (nesting)	osprey	None/WL	Large waters (lakes, reservoirs, rivers) supporting fish; usually near forest habitats, but widely observed along the coast	Not expected to occur. No suitable habitat is present.
<i>Passerculus sandwichensis alaudinus</i>	Bryant's savannah sparrow	None/SSC	Nests and forages in low tidally influenced habitats, adjacent ruderal areas, moist grassland within and just above fog belt, and drier grassland	Not expected to occur. No suitable habitat is present.
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	BCC/SE	Nests and forages in coastal saltmarsh dominated by pickleweed (<i>Salicornia</i> spp.)	Not expected to occur. No suitable habitat is present.
<i>Pelecanus erythrorhynchos</i> (nesting colony)	American white pelican	BCC/SSC	Nests colonially on sandy, earthen, or rocky substrates on isolated islands in freshwater lakes; minimal disturbance from predators; access to foraging areas on inland marshes, lakes, or rivers; winters on shallow coastal bays, inlets, and estuaries	Not expected to occur. No suitable habitat is present.
<i>Piranga rubra</i> (nesting)	summer tanager	None/SSC	Nests and forages in mature desert riparian habitats dominated by cottonwoods and willows	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Plegadis chihi</i> (nesting colony)	white-faced ibis	None/WL	Nests in shallow marshes with areas of emergent vegetation; winter foraging in shallow lacustrine waters, flooded agricultural fields, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries	Not expected to occur. No suitable habitat is present.
<i>Polioptila californica californica</i>	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Not expected to occur. No suitable habitat is present.
<i>Pyrocephalus rubinus</i> (nesting)	vermillion flycatcher	None/SSC	Nests in riparian woodlands, riparian scrub, and freshwater marshes; typical desert riparian with cottonwood, willow, mesquite adjacent to irrigated fields, ditches, or pastures	Not expected to occur. No suitable habitat is present.
<i>Setophaga petechia</i> (nesting)	yellow warbler	None/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Not expected to occur. No suitable habitat is present.
<i>Strix occidentalis occidentalis</i>	California spotted owl	BCC/SSC	Nests and forages in dense, old-growth, multi-layered mixed-conifer, redwood, and Douglas-fir habitats	Not expected to occur. No suitable habitat is present.
<i>Vireo bellii pusillus</i> (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Xanthocephalus xanthocephalus</i> (nesting)	yellow-headed blackbird	None/SSC	Nests in marshes with tall emergent vegetation, often along borders of lakes and ponds; forages in emergent wetlands, open areas, croplands, and muddy shores of lacustrine habitat	Not expected to occur. No suitable habitat is present.
<i>Nannopterum auritum</i> (nesting colony)	double-crested cormorant	None/WL	Nests in riparian trees near ponds, lakes, artificial impoundments, slow-moving rivers, lagoons, estuaries, and open coastlines; winter habitat includes lakes, rivers, and coastal areas	Not expected to occur. No suitable habitat is present.
Fish				
<i>Catostomus santaanae</i>	Santa Ana sucker	FT/SSC	Small, shallow, cool, clear streams less than 7 meters (23 feet) in width and a few centimeters to more than a meter (1.5 inches to more than 3 feet) in depth; substrates are generally coarse gravel, rubble, and boulder	Not expected to occur. No suitable vegetation present.
<i>Gila orcuttii</i>	arroyo chub	None/SSC	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	Not expected to occur. No suitable vegetation present.
<i>Oncorhynchus mykiss irideus</i> pop. 10	southern steelhead - southern California DPS	FE/SCE	Clean, clear, cool, well-oxygenated streams; needs relatively deep pools in migration and gravelly substrate to spawn	Not expected to occur. No suitable vegetation present.
<i>Rhinichthys gabrielino</i>	Santa Ana speckled dace	FPT/SSC	Headwaters of the Santa Ana and San Gabriel Rivers; may be extirpated from the Los Angeles River system	Not expected to occur. No suitable vegetation present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
Mammals				
<i>Antrozous pallidus</i>	pallid bat	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Not expected to occur. No suitable habitat is present.
<i>Bassariscus astutus octavus</i>	southern California ringtail	None/FP	Mixed forests and shrublands near rocky areas or riparian habitats; forages near water and is seldom found more than 1 kilometer (0.62 mile) from a water source	Not expected to occur. No suitable habitat is present.
<i>Dasypterus xanthinus</i>	western yellow bat	None/SSC	Valley-foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	Not expected to occur. No suitable habitat is present.
<i>Dipodomys merriami parvus</i>	San Bernardino kangaroo rat	FE/SSC, SE	Sparse scrub habitat, alluvial scrub/coastal scrub habitats on gravelly and sandy soils near river and stream terraces	Not expected to occur. No suitable habitat is present.
<i>Dipodomys stephensi</i>	Stephens' kangaroo rat	FT/ST	Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover, or in disturbed areas	Not expected to occur. No suitable habitat is present.
<i>Euderma maculatum</i>	spotted bat	None/SSC	Foothills, mountains, desert regions of southern California, including arid deserts, grasslands, and mixed-conifer forests; roosts in rock crevices and cliffs; feeds over water and along washes	Not expected to occur. No suitable habitat is present.
<i>Eumops perotis californicus</i>	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	None/SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Not expected to occur. No suitable habitat is present.
<i>Nyctinomops femorosaccus</i>	pocketed free-tailed bat	None/SSC	Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with drop-offs, caverns, and buildings	Not expected to occur. No suitable habitat is present.
<i>Nyctinomops macrotis</i>	big free-tailed bat	None/SSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Not expected to occur. No suitable habitat is present.
<i>Onychomys torridus ramona</i>	southern grasshopper mouse	None/SSC	Grassland and sparse coastal scrub	Not expected to occur. No suitable habitat is present.
<i>Ovis canadensis nelsoni</i>	Nelson's bighorn sheep	None/FP	Steep slopes and cliffs, rough and rocky topography, sparse vegetation; also canyons, washes, and alluvial fans	Not expected to occur. No suitable habitat is present.
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse	None/SSC	Lower-elevation grassland, alluvial sage scrub, and coastal scrub	Not expected to occur. No suitable habitat is present.
<i>Taxidea taxus</i>	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. No suitable habitat is present.
<i>Lasiurus frantzii</i>	western red bat	None/SSC	Forest, woodland, riparian, mesquite bosque, and orchards, including fig, apricot, peach, pear, almond, walnut, and orange; roosts in tree canopy	Not expected to occur. No suitable habitat is present.
Invertebrates				
<i>Bombus crotchii</i>	Crotch's bumble bee	None/SCE	Open grassland and scrub communities supporting suitable floral resources	Not expected to occur. No suitable habitat is present.
<i>Rhaphiomidas terminatus abdominalis</i>	Delhi Sands flower-loving fly	FE/None	Delhi fine sandy soils and dunes, scrub and ruderal vegetation in the sand verbena series with <50% cover	Not expected to occur. No suitable habitat is present.

Scientific Name	Common Name	Status (Federal/State)	Habitat	Potential to Occur
<i>Danaus plexippus plexippus pop. 1</i>	monarch - California overwintering population	FC/None	Wind-protected tree groves with nectar sources and nearby water sources	Not expected to occur. No suitable habitat is present.

Notes:**Status Designations****Federal**

BCC: USFWS—Birds of Conservation Concern

FE: Federally listed as endangered

FPD: Federally proposed for delisting

FPT: Federally proposed for listing as threatened

FT: Federally listed as threatened

FC: Federal candidate species (former Category 1 candidates)

State

FP: California Fully Protected species

SCE: State candidate for listing as endangered

SC: State candidate for listing as endangered or threatened

SE: State listed as endangered

SSC: California Species of Special Concern

ST: State listed as threatened

WL: CDFW Watch List species

Appendix D

Cultural Resources Inventory Report

November 15, 2024

16305

Natalie Avila
City of Chino
Public Works Department
13220 Central Avenue
Chino, California 91710

Subject: Cultural Resources Inventory Report for the Benson Reservoir Replacement and Improvements Project, City of Chino, California

Dear Natalie Avila:

This letter documents the cultural resources inventory conducted by Dudek for the Benson Reservoir Replacement and Improvements Project (Project), located in the City of Chino, California (Figure 1, Project Location). The Project entails constructing and operating a replacement for the existing Benson Reservoir within the Benson Water Treatment Plant complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. The City of Chino (City) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project area. The Project area consists of an approximately 4.6-acre rectangular parcel owned by the City that houses components of its public water system (Figure 2, Project Area).

Dudek conducted a records search for the proposed Project including a surrounding 1-mile radius at the South Central Coastal Information Center (SCCIC). The records search did not identify any cultural resources within the Project area or 1-mile radius. Dudek requested a Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search, and the results were negative for Native American cultural resources within 1 mile of the Project area. The pedestrian survey did not identify any archaeological resources within the Project area. Based on archival review, the Project area has been disturbed from previous agricultural activities and the construction of the Benson Water Treatment Plant complex. However, one historic-age structure (e.g., water tank) is located in the Project area; the structure is over 50 years old and considered a built environment resource.

Based on the current condition of the Project area, the negative archaeological survey, negative SCCIC results and NAHC SLF, archaeological and Native American monitoring is not recommended for the Project. The Project is unlikely to impact undiscovered cultural resources. In the unlikely event that cultural resources are encountered during exposure of subsurface soils, ground-disturbing work should be immediately halted in the area and a qualified archaeologist should be retained to evaluate the resources. However, there is a historic-age structure (e.g., water tank) located in the Project area; the structure is over 50 years old and considered a built environment resource. Based on best practice standards, it is recommended that a qualified Architectural Historian be retained to inventory and evaluate the historical significance of the resources for CRHR and NRHP listing. However, it should be noted that built environment features and structures of this type are unlikely to meet significance criteria required for CRHR and NRHP listing.

1 Project Description and Location

The Project is located in the northern portion of Chino, in southwestern San Bernardino County, California. The Project is bounded by Benson Avenue on the east, which represents a portion of Chino's municipal boundary with the City of Ontario. The Project falls within Section 35 of Township 1 South, Range 8 West, of the Ontario, California 7.5-minute Quadrangle (Figure 1).

The Project entails constructing and operating a replacement for the existing Benson Reservoir within the Benson Water Treatment Plant complex, connecting the replacement reservoir to the system, and demolishing the existing reservoir. The Project area consists of an approximately 4.6-acre rectangular parcel owned by the City that houses components of its public water system (Figure 2). The Project area is surrounded by a combination of masonry block wall and steel chain link fence, with a gated driveway access off Benson Avenue. The Project area is flat and is developed with existing components of the City's water system, along with several mature, ornamental trees and scattered non-native shrubs. On-site access for maintenance vehicles includes a combination of asphalt-paved roads and unpaved paths. A retention basin that captures stormwater runoff from the Project area and overflow from the existing reservoir is located in the central-southern portion of the Project area.

2 Regulatory Framework

2.1 The California Register of Historic Resources (Public Resources Code Section 5020 et seq.)

Under CEQA, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code Section 5020.1[j]). In 1992, the California legislature established CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code Section 5024.1[a]). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria (California Public Resources Code Section 5024.1[c]):

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

Resources less than 50 years old are not considered for listing in the CRHR but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR Section 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

2.2 Native American Historic Cultural Sites (California Public Resources Code Section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NAHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

2.3 California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

2.4 California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

1. California Public Resources Code Section 21083.2(g): Defines “unique archaeological resource.”
2. California Public Resources Code Section 21084.1 and CEQA Guidelines Section 15064.5(a): Define historical resources. In addition, CEQA Guidelines Section 15064.5(b) defines the phrase “substantial adverse change in the significance of an historical resource;” it also defines the circumstances when a project would materially impair the significance of a historical resource.
3. California Public Resources Code Section 5097.98 and CEQA Guidelines Section 15064.5(e): Set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.

4. California Public Resources Code Sections 21083.2(b)-(c) and CEQA Guidelines Section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause “a substantial adverse change in the significance of an historical resource” (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[b]). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code Section 5024.1[q]), it is a “historical resource” and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[a]). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5[a]).

A “substantial adverse change in the significance of an historical resource” reflecting a significant effect under CEQA means “physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired” (CEQA Guidelines Section 15064.5[b][1]; California Public Resources Code Section 5020.1[q]). In turn, the significance of a historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

See Section 2.7, below, for a discussion of the CEQA Guidelines for determining significance and mitigating impacts to unique archaeological resources.

2.5 California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

2.6 Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to “tribal cultural resources” (TCR). Public Resources Code Section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or
2. determined by a lead agency to be a TCR.

2.7 Guidelines for Determining Significance

According to CEQA (Section 15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

The significance of an historical resource is materially impaired when a project:

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR; or
- Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).
- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, and this section, Section 15126.4 of the Guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.
- If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains, and any items associated with Native American burials with the

appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:

1. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
2. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (California Public Resources Code Section 21083.2.) A “unique archaeological resource” is defined as follows (California Public Resources Code Section 21083.2[g]):

[A]n archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (Public Resources Code Section 21083.2[a]; CEQA Guidelines Section 15064.5[c][4]).

As stated above, CEQA contains rules for mitigation of “unique archaeological resources.” For example, “[i]f it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following (Pub. Resources Code section 21083.2[b][1]–[4]):

1. Planning construction to avoid archaeological sites.
2. Deeding archaeological sites into permanent conservation easements.
3. Capping or covering archaeological sites with a layer of soil before building on the sites.
4. Planning parks, greenspace, or other open space to incorporate archaeological sites.

Public Resources Code Section 21083.2(d) states that “[e]xcavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archaeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report.”

The rules for mitigating impacts to archaeological resources to qualify as “historic resources” are slightly different. According to CEQA Guidelines Section 15126.4(b), “[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archaeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archaeological site:

- A. Preservation in place is the preferred manner of mitigating impacts to archaeological sites. Preservation in place maintains the relationship between artifacts and the archaeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.
- B. Preservation in place may be accomplished by, but is not limited to, the following:
 - 1. Planning construction to avoid archaeological sites;
 - 2. Incorporation of sites within parks, greenspace, or other open space;
 - 3. Covering the archaeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site[; and]
 - 4. Deeding the site into a permanent conservation easement.

Thus, although Section 21083.2 of the Public Resources Code, in addressing “unique archaeological sites,” provides for specific mitigation options “in no order of preference,” CEQA Guidelines Section 15126.4(b), in addressing “historical resources of an archaeological nature,” provides that “[p]reservation in place is the preferred manner of mitigating impacts to archaeological sites.”

Under CEQA, “[w]hen data recovery through excavation is the only feasible mitigation,” the lead agency may cause to be prepared and adopt a “data recovery plan,” prior to any excavation being undertaken. The data recovery plan must make “provision for adequately recovering the scientifically consequential information from and about the historic resource” (CEQA Guidelines Section 15126.4[b][3][C]). The data recovery plan also “must be deposited with the California Historical Resources Regional Information Center.” (*Ibid.*) Further, “[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation.” (*Ibid.*)

However, “[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archaeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center” (CEQA Guidelines Section 15126.4[b][3][D]).

2.8 City of Chino General Plan

The Open Space and Conservation Element of the City’s General Plan describes the cultural and historic resources regulatory framework, and policies and plans to protect such resources (City of Chino 2010). The planning goals and policies are described below.

The City of Chino Goal OSC-7, in the Goals, Objectives, Policies, and Actions section, consists of seven policies and three actions to assist in the preservation of historical, paleontological, and archaeological.

Policies

- P1. The City shall ensure that identified cultural and historic landmarks and buildings are preserved, unless the City finds that such preservation is economically infeasible.
- P2. The City shall require the architectural details and design elements of historic structures to be preserved during renovations and remodels.
- P3. In the event that unknown archaeological or paleontological resources are discovered during construction, the Planning Division shall be notified immediately. All construction shall stop and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards in prehistoric or historical archaeology should be retained to evaluate the discovered resources and recommend appropriate action.
- P4. If Native American artifacts are discovered on a site, the City shall consult representatives of the Native American community to ensure the respectful treatment of Native American sacred places.
- P5. Where applicable, any human remains discovered during implementation of public and private projects within the Planning Area should be treated with respect and dignity and should fully comply with the California Native American Graves Protection and Repatriation Act and other appropriate laws.
- P6. Where applicable, the City shall support access to and ceremonial use by Native American religious practitioners of Native American sacred sites located in Chino.
- P7. The City shall continue to consult with tribes as required by Senate Bill 18. In so doing, the City shall use appropriate procedures to accommodate tribal concerns when a tribe has a religious prohibition against revealing precise information about the location or practice at a particular sacred site.

Actions

- A1. Work with the Chino Valley Historical Society to develop a historical resources survey, including identifying key historic buildings to be prioritized for public use and preservation.
- A2. Study neighborhoods with a significant number of buildings over 50 years old to determine whether historic districts should be established.
- A3. Work with the Chino Valley Historical Society and the Chino Valley Unified School District to find opportunities through community events to educate children about the City's history.

The City's goal is to "preserve Chino's connection to its history" in compliance with CEQA guidelines (City of Chino 2010).

2.9 San Bernardino County Countywide Plan

San Bernardino County's Countywide Plan, adopted in 2011, contains a Cultural Resources Element that establishes the County's purpose, principles, goals, and policies for the management of archaeological sites, sacred landscapes, historic buildings, and paleontological resources located in the unincorporated portions of the County. An outline of the County's Cultural Resources Element is provided below (San Bernardino County 2020).

Purpose

- Establish Direction on notification, coordination, and partnerships to preserve and conserve cultural resources.
- Provide guidance on how new development can avoid or minimize impacts on cultural resources.
- Provide direction on increasing public awareness and education efforts about cultural resources.

Principles

We believe:

- Today's generation are stewards of the county's cultural history and are responsible for conserving it for future generations.
- Preserving and celebrating cultural resources enhances our understanding of the world in which we live.
- Cultural resources are valuable assets that attract visitors and support local businesses.

Goal CR-1. Tribal Cultural Resources. Tribal cultural resources that are preserved and celebrated out of respect for Native American beliefs and traditions.

Policy CR-1.1. Tribal Notification and Coordination. We notify and coordinate with tribal representatives in accordance with state and federal laws to strengthen our working relationship with area tribes, avoid inadvertent discoveries of Native American archaeological sites and burials, assist with the treatment and disposition of inadvertent discoveries, and explore options of avoidance of cultural resources early in the planning process.

Policy CR-1.2. Tribal Planning. We will collaborate with local tribes on countywide planning efforts and, as permitted or required, planning efforts initiated by local tribes.

Policy CR-1.3. Mitigation and Avoidance. We consult with local tribes to establish appropriate project-specific mitigation measures and resource-specific treatment of potential cultural resources. We require project applicants to design projects to avoid known tribal cultural resources, whenever possible. If avoidance is not possible, we require appropriate mitigation to minimize project impacts on tribal cultural resources.

Policy CR-1.4. Resource Monitoring. We encourage active participation by local tribes as monitors in surveys, testing, excavation, and grading phases of development projects with potential impacts on tribal resources.

Goal CR-2. Historic and Paleontological Resources. Historic resources (buildings, structures, or archaeological resources) and paleontological resources that are protected and preserved for their cultural importance to local communities as well as their research and educational potential.

Policy CR-2.1. National and State Historic Resources. We encourage the preservation of archaeological sites and structures of state or national significance in accordance with the Secretary of Interior's standards.

Policy CR-2.2. Local Historic Resources. We encourage property owners to maintain the historic integrity of resources on their property by (listed in order of preference): preservation, adaptive reuse, or memorialization.

Policy CR-2.3. Paleontological and Archaeological Resources. We strive to protect paleontological and archaeological resources from loss or destruction by requiring that new development include appropriate mitigation to preserve the quality and integrity of these resources. We require new development to avoid paleontological and archeological resources whenever possible. If avoidance is not possible, we require the salvage and preservation of paleontological and archeological resources.

Policy CR-2.4. Partnerships. We encourage partnerships to champion and financially support the preservation and restoration of historic sites, structures, and districts.

Policy CR-2.5. Public Awareness and Education. We increase public awareness and conduct education efforts about the unique historic, natural, tribal, and cultural resources in San Bernardino County through the County Museum and in collaboration with other entities.

3 Results

3.1 Records Search

Dudek conducted a California Historical Resources Information Systems (CHRIS) records search of the Project area and a 1-mile radius at the South Central Coastal Information Center (SCCIC) on October 10, 2024. The records search results identified that a total of 12 previous cultural resources studies have been conducted within 1 mile of the Project area (Table 1). The Project area has not been previously studied as none of the 12 previous cultural resources studies intersect the Project area. The SCCIC records search did not identify any cultural resources within the Project area or 1 mile of the Project area. The results of the records search and all DPR forms are attached as part of Confidential Appendix A, SCCIC Records Search Results.

Table 1. Cultural Resources Studies within 1 Mile of Project Area

Report Number	Authors	Date	Title
Outside Project Area			
SB-00456	HEARN, JOSEPH E.	1976	ARCHAEOLOGICAL - HISTORICAL RESOURCES ASSESSMENT OF LAND AREA BOUNDED BY CENTRAL AVENUE ON THE WEST, FRANCIS STREET ON THE SOUTH, VERNON AVENUE ON THE EAST, AND PHILLIPS STREET ON THE NORTH
SB-00550	HEARN, JOSEPH E.	1977	CULTURAL RESOURCE EVALUATION OF THE AREA OF TENTATIVE TRACT #10126, RANCHO SANTA ANA DEL CHINO
SB-00866	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	1979	CULTURAL RESOURCES ASSESSMENT: CENTRAL AVENUE AT PHILLIPS BOULEVARD, HO 7304
SB-03565	DUKE, CURT	1999	CULTURAL RESOURCE ASSESSMENT FOR PBMS FACILITY CM 353-01, COUNTY OF SAN BERNARDINO, CA. 4PP
SB-04095	FULTON, PHIL and CAPRICE D. HARPER	2004	CUTURAL RESOURCE ASSESSMENT: CINGULAR WIRELESS FACILITY NO. SB 281-01, ONTARIO, SAN BERNARDINO COUNTY, CA. 15PP
SB-04499	GORDON, BETH	2005	HISTORIC RESOURCES REPORT: LSAACA 8121/NAROD SUBSTATION, 1465 S. OAKS AVE, ONTARIO, SAN BERNARDINO COUNTY, CA. 14PP
SB-04511	AISLIN-KAY, MARNIE	2005	CULTURAL RESOURCES RECORDS SEARCH & SITE VISIT RESULTS FOR CINGULAR TELECOMMUNICATIONS FACILITY CANDIDATE CM-353-01 (SV005-01), BEST WESTERN HOTEL, 12018 CENTRAL AVE, CHINO, SAN BERNARDINO COUNTY, CA. 12PP
SB-04710	BONNER, WAYNE H. AND MARNIE AISLIN-KAY	2006	CULTURAL RESOURCE RECORDS SEARCH AND SITE VISIT RESULTS FOR CINGULAR TELECOMMUNICATIONS FACILITY CANDIDATE SV-005-03 (PATRICK GRABOWSKI), 12018 CENTRAL AVENUE, CHINO, SAN BERNARDINO COUNTY, CALIFORNIA.
SB-06787	TANG, BAI "TOM", DEIRDRE ENCARNACION, AND DANIEL BALLESTER	2008	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT: CHINO GROUNDWATER BASIN DRY-YEAR YIELD PROGRAM EXPANSION, LOS ANGELES, RIVERSIDE AND SAN BERNARDINO COUNTIES, CALIFORNIA.
SB-07073	WLODARSKI, ROBERT J.	2011	RECORDS SEARCH RESULTS FOR THE PROPOSED AT&T WIRELESS TELECOMMUNICATIONS SITE SV005 (12018 CENTRAL AVENUE), CHINO, SAN BERNARDINO COUNTY, CALIFORNIA.
SB-07778	STROPES, TRACY A. AND BRIAN F. SMITH	2014	PHASE I CULTURAL RESOURCES SURVEY FOR THE CENTRAL AND FRANCIS RESIDENTIAL PROJECT, CITY OF CHINO, CALIFORNIA.

Table 1. Cultural Resources Studies within 1 Mile of Project Area

Report Number	Authors	Date	Title
SB-07900	STRUDWICK, IVAN	2013	RESULTS OF THE PREHISTORIC CULTURAL RESOURCE ASSESSMENT SURVEY FOR THE STRATHAM COMPANY 9.17-ACRE CENTRAL AVENUE PROJECT, ASSESSOR'S PARCEL NUMBER 1014-271-01, CITY OF CHINO, SAN BERNARDINO COUNTY, CALIFORNIA

3.2 Archival Research

In addition to the SCCIC records search, Dudek conducted an online review of historical aerial photographs and historical topographic maps to better understand the development of the Project area and surrounding vicinity over time.

Historical Topographic Maps

Historic topographic maps of the Project area were reviewed (earliest map available is 1897). The historic topographic (topo) map from 1942 reveals one structure located within the eastern section of the Project area. The 1955 topo map reveals two structures located within the eastern section of the Project area. The 1969 topo map shows the two structures are no longer observed within the Project area and in the center is a circular dot with the letters “WT” next to it, suggesting this represents the water tank. The 1982 topo map shows an additional two structures south of the water tank feature within the Project area. A review of the historic topo maps reveals there is a historic-age structure located within the Project area.

Historical Aerial Photographs

Historic aerial photographs of the Project area were available from 1938 to 2022 (NETR 2024). The 1938 historic aerial photograph revealed that the Project area and surrounding vicinity consisted of agricultural lands. A building is observed within the northeastern section of the Project area, and an additional building is located in the southeastern section of the Project area. On the 1959 historic aerial photograph, the two buildings are no longer observed. On the 1965 historic aerial photograph, a water tank is observed within the center of the Project area. The 1972 aerial photograph reveals a retention basin south of the water tank. On the 1980 aerial photograph, a structure is observed within the southwestern section of the Project area, and another structure is observed in the southcentral section of the Project area. On the 1992 aerial photograph, two additional structures are now observed; one is located immediately east of the retention basin, and one is located immediately north of the well feature. On the 1995 aerial photograph, a structure is observed in the northeastern section of the Project area. On the 2005 aerial photograph, a large structure is observed to the west of the water tank. The 2009 to 2022 aerial photography reflect the current conditions of the Project area. A review of the historic aerials reveals the Project area has undergone ground-disturbing activities as it transitioned from an agricultural field into a water treatment plant. Based on a review of historic aerials, one historic-age structure is located within the Project area.

3.3 Native American Heritage Commission and Tribal Correspondence

Dudek requested a NAHC search of the SLF on October 22, 2024, for the Project area. The SLF consists of a database of known Native American resources. These resources may not be included in the SCCIC database. The NAHC replied via email on November 8, 2024, stating that the SLF search was completed with negative results (Appendix B, NAHC Correspondence and Tribal Outreach). Additionally, the NAHC provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in the Project area.

In compliance with Assembly Bill 52, the City, as lead agency, is responsible for conducting government to government consultation with pertinent tribal entities.

3.4 Intensive Pedestrian Survey

Dudek archaeologist Brenda Rogers conducted an intensive level pedestrian survey of the Project area on October 17, 2024. All survey work was conducted employing standard archaeological procedures and techniques consistent with the Secretary of the Interior Standards. Wherever possible, the survey was conducted in parallel transects, spaced no more than 5 meters apart. Within the transects, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials.

The Project area is a developed water treatment plant, with associated buildings, tanks, and infrastructure. One large water tank is located in the center (Figure 3, View of Water Tank Within Project Area, View Facing Northeast), and to the east are rows of smaller tanks, alongside a large main structure and a smaller building to the south. There are four structures in the Project area, as well as surface and buried pipes. A concrete culvert runs along the south border of the Project area, from the southwest corner to just past the midpoint, leading to a retention basin. The drainage area, approximately 25 by 25 meters, associated with the large water tank, is currently filled with standing water and cattails. A paved loop entrance road leads to the southwest corner, the location of one of the structures, and past the main structure and large water tank. The remaining space, approximately 60% of the Project area consists of open dirt and gravel. Ground visibility in these areas was good (80%–90%). Soils observed were a brown sandy silt and silty sand with sub angular and angular rocks.

Approximately half of the open areas to the east and west of the main building and large water tank are used for dumping spoils from vacuum excavations in the local area. There was evidence of dumping fill soils and gravels to the west (Figure 4, Graded Area with Dumped Gravels and Sediment, View Facing North), and tracks from excavation equipment. There were multiple piles of more freshly dumped fill dirt on the east side of the Project area, containing visible foundation fragments and modern trash. No archaeological resources were identified during the survey.

4 Summary and Management Considerations

4.1 Archaeological Recommendations

Dudek's cultural resources inventory of the Project indicates that there is low sensitivity for identifying subsurface archaeological deposits during Project implementation. A records search from the SCCIC did not identify any archaeological resources within the Project area. An intensive pedestrian survey did not identify any archaeological resources within the Project area. Based on archival review, the Project area has been disturbed from previous agricultural activities and the construction of the Benson Water Treatment Plant complex.

Based on the current condition of the Project area, the negative archaeological survey, negative SCCIC results and NAHC SLF request, archaeological and Native American monitoring is not recommended for the Project. The Project is unlikely to impact undiscovered cultural resources. In the unlikely event that cultural resources are encountered during the exposure of subsurface soils, ground-disturbing work should be immediately halted in the area and a qualified archaeologist should be retained to evaluate the resources. Additionally, there is a historic-age structure (e.g., water tank) located in the Project area; the structure is over 50 years old and considered a built environment resource. Based on best practice standards, it is recommended that a qualified Architectural Historian be retained to inventory and evaluate the historical significance of the resource for CRHR and NRHP listing. However, it should be noted that built environment features and structures of this type are unlikely to meet significance criteria required for CRHR and NRHP listing.

Unanticipated Discovery of Archaeological Resources

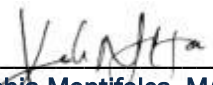
In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas but should be redirected a safe distance from the find. If the new discovery is evaluated and found to be significant under CEQA and avoidance is not feasible, additional work such as data recovery may be warranted. A data recovery plan shall be developed by the qualified archaeologist in consultation with the City and Native American representatives, if applicable. Ground disturbance can continue only after the resources has been properly mitigated and with approval by the City.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify the person or persons it believes to be the MLD from the deceased Native American. The MLD shall complete inspection within 48 hours of being granted access to the site and make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 619.949.3082 or kmontifolca@dudek.com.

Respectfully submitted,


Keshia Montifolca, MA, RPA
Project Archaeologist


Ryan J. Glenn, MA, RPA
Archaeological Principal Investigator

Att.: *Figure 1, Project Location*
Figure 2, Project Area
Figure 3, View of Water Tank Within Project Area, View Facing Northeast
Figure 4, Graded Area with Dumped Gravels and Sediment, View Facing North
National Archaeological Database (NADB) Information
Confidential Appendix A, SCCIC Records Search Results
Appendix B, NAHC Correspondence and Tribal Outreach
cc: *Ryan J. Glenn, Dudek*

5 References

City of Chino. 2010. Envision Chino General Plan 2025 Open Space and Conservation Element. Accessed October 24, 2024. <https://www.cityofchino.org/1673/General-Plan>.

NETR (National Environmental Title Research). 2024. Address search for Benson Road, Chino, California. Accessed October 24, 2024. <http://www.historicaerials.com/>.

San Bernardino County. 2020. San Bernardino County Countywide Plan Cultural Resources Element. Accessed October 24, 2024. <https://countywideplan.com/policy-plan/cultural-resources/>.

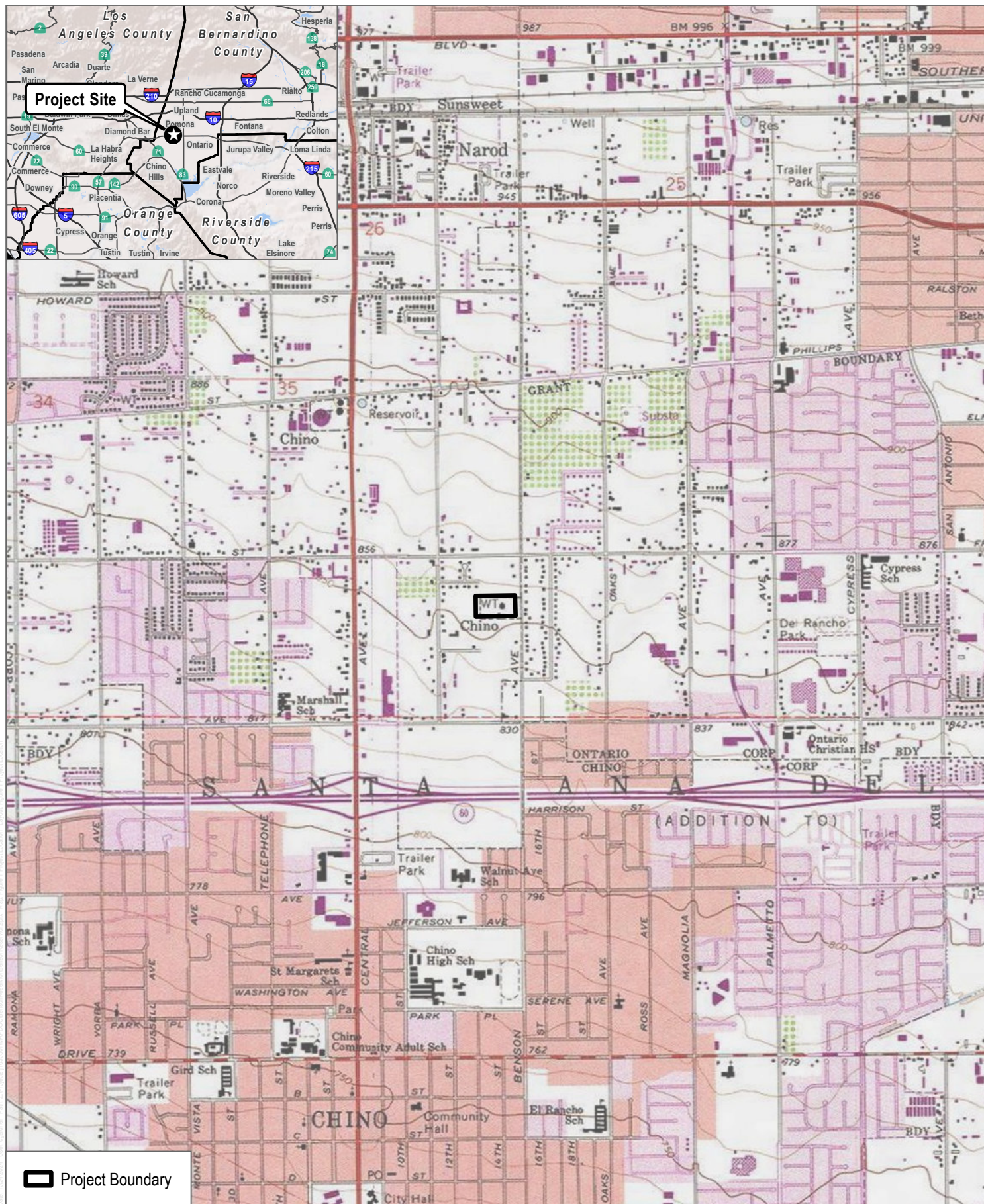


FIGURE 1
Project Location



SOURCE: Esri World Imagery

FIGURE 2
Project Area

Figure 3. View of water tank within Project area, view facing northeast.



Figure 4. Graded area with dumped gravels and sediment, view facing north.



National Archaeological Database (NADB) Information

Authors:	Keshia Montifolca MA, RPA, and Ryan J. Glenn MA, RPA
Firm:	Dudek
Project Proponent:	City of Chino
Report Date:	November 2024
Report Title:	Archaeological Resources Inventory Report for the Benson Reservoir Replacement and Improvements Project
Type of Study:	Cultural Resources Inventory
Resources:	None
USGS Quads:	Ontario, California, Township 1 South, Range 8 West, Section 35
Acreage:	4.6
Permit Numbers:	N/A
Keywords:	Pedestrian Survey, Inventory, City of Chino, Benson Reservoir Replacement and Improvements, Negative for Archaeological Resources

Confidential Appendix A

SCCIC Records Search Results

Appendix B

NAHC Correspondence and Tribal Outreach

From: Ryan Glenn
Sent: Tuesday, October 22, 2024 2:42 AM
To: NAHC@NAHC
Subject: Sacred Lands File & NA Contact List Request - Benson Reservoir Project
Attachments: NAHC_SLF_request_BensonReservoir.pdf;
NAHC_SLF_BensonReservoir_map.pdf

Hello NAHC,

Please see the attached request and map for the Benson Reservoir & Improvements Design & Bid Support Services Project.

Please let me know if you have any questions.

Thanks,

Ryan J. Glenn, MA, RPA
O: 626 204 9840 C: 425 213 2349
Archaeologist
dudek.com

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission

1550 Harbor Blvd, Suite 100

West Sacramento, CA 95691

916-373-3710

916-373-5471 – Fax

nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Benson Reservoir & Improvements Design & Bid Support Services Project

County: San Bernardino

USGS Quadrangle Name: Ontario

Township: 1S **Range:** 8W **Section(s):** 35

Company/Firm/Agency: Dudek

Street Address: 225 South Lake Avenue Suite M210

City: Pasadena **Zip:** 91101

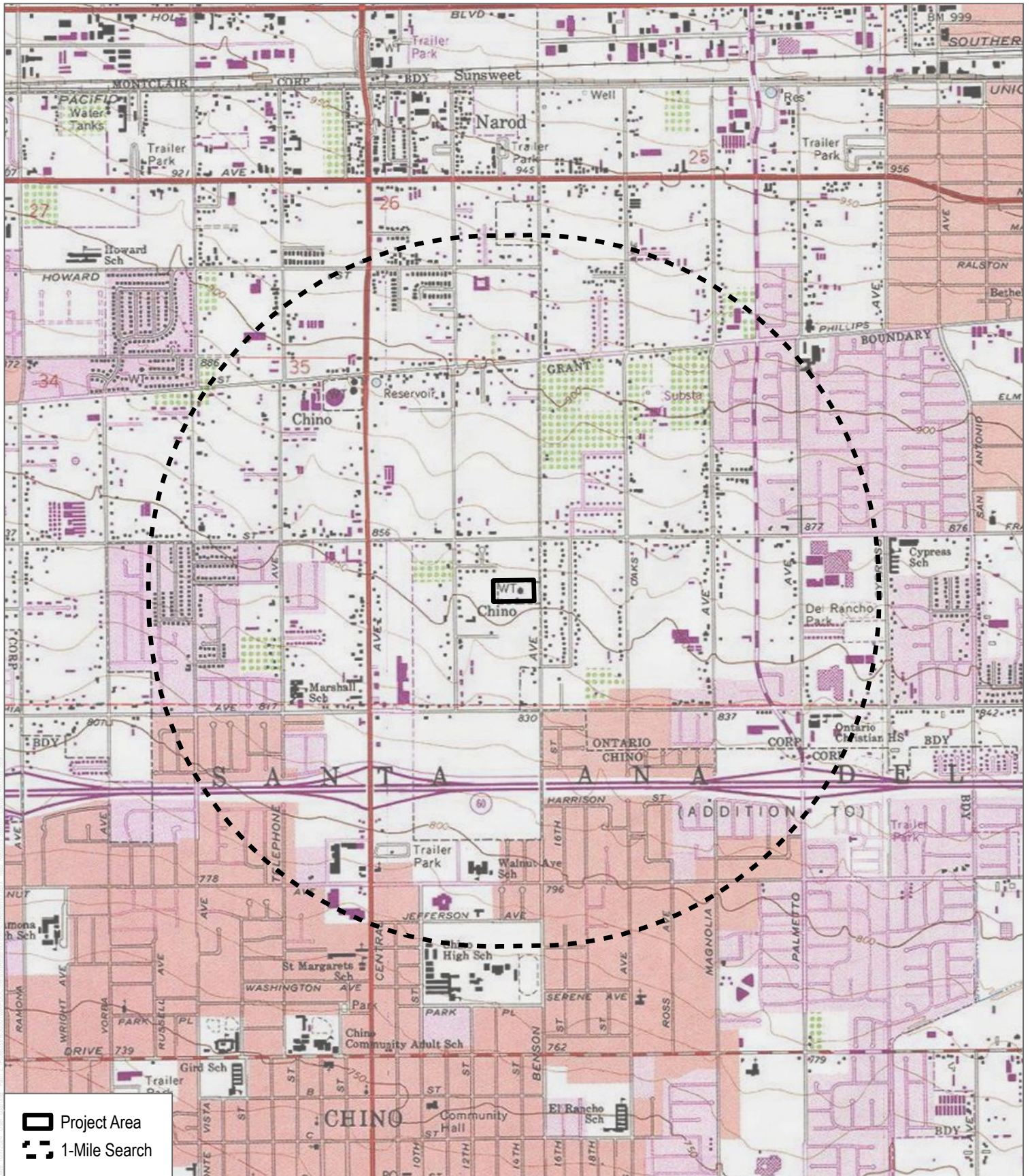
Phone: (425) 213-2349

Fax:

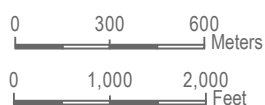
Email: rglenn@dudek.com

Project Description:

The project is replacement of the Benson Reservoir, an existing cylindrical tank, with a new, larger cylindrical tank. This would occur within the existing developed tank site (see attached map).



SOURCE: USGS 7.5-Minute Series Ontario Quadrangle - Township 1S Range 8W Section 35



Records Search

Benson Reservoir & Improvements Design & Bid Support Services Project



NATIVE AMERICAN HERITAGE COMMISSION

November 8, 2024

Ryan Glenn
Dudek

Via Email to: rglenn@dudek.com

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki,
Nomlaki

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COMMISSIONER
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Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of
Luiseño Indians

ACTING EXECUTIVE
SECRETARY
Steven Quinn

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

Re: Benson Reservoir & Improvements Design & Bid Support Services Project, San Bernardino County

To Whom It May Concern:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Bernardino County
11/8/2024

Tribe Name	F/N	Contact Person	Address	Phone	Email Address	Cultural Affiliation	Counties
Cahuilla Band of Indians	F	BobbyRay Esparza, Cultural Director	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549	besparza@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	Anthony Madrigal, Tribal Historic Preservation Officer	52701 CA Highway 371 Anza, CA, 92539	(951) 763-5549	anthonymad2002@gmail.com	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Cahuilla Band of Indians	F	Erica Schenk, Chairperson	52701 CA Highway 371 Anza, CA, 92539	(951) 590-0942	chair@cahuilla-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Gabrieleno Band of Mission Indians - Kizh Nation	N	Christina Swindall Martinez, Secretary	P.O. Box 393 Covina, CA, 91723	(844) 390-0787	admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrieleno Band of Mission Indians - Kizh Nation	N	Andrew Salas, Chairperson	P.O. Box 393 Covina, CA, 91723	(844) 390-0787	admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura

Tribe Name	F/N	Contact Person	Address	Phone	Email Address	Cultural Affiliation	Counties
Gabrieleno/Tongva San Gabriel Band of Mission Indians	N	Anthony Morales, Chairperson	P.O. Box 693 San Gabriel, CA, 91778	(626) 483-3564	GTTribalcouncil@aol.com	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino Tongva Indians of California Tribal Council	N	Robert Dorame, Chairperson	P.O. Box 490 Bellflower, CA, 90707	(562) 761-6417	gtongva@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino Tongva Indians of California Tribal Council	N	Christina Conley, Cultural Resource Administrator	P.O. Box 941078 Simi Valley, CA, 93094	(626) 407-8761	christina.marsden@alumni.usc.edu	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino/Tongva Nation	N	Sandonne Goad, Chairperson	106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012	(951) 807-0479	sgoad@gabrielino-tongva.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino-Tongva Tribe	N	Charles Alvarez, Chairperson	23454 Vanowen Street West Hills, CA, 91307	(310) 403-6048	Chavez1956metro@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura
Gabrielino-Tongva Tribe	N	Sam Dunlap, Cultural Resource Director	P.O. Box 3919 Seal Beach, CA, 90740	(909) 262-9351	tongvatcr@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura

Tribe Name	F/N	Contact Person	Address	Phone	Email Address	Cultural Affiliation	Counties
Morongo Band of Mission Indians	F	Robert Martin, Chairperson	12700 Pumarra Road Banning, CA, 92220	(951) 755-5110	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Morongo Band of Mission Indians	F	Ann Brierty, THPO	12700 Pumarra Road Banning, CA, 92220	(951) 755-5259	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Quechan Tribe of the Fort Yuma Reservation	F	Jordan Joaquin, President, Quechan Tribal Council	P.O.Box 1899 Yuma, AZ, 85366	(760) 919-3600	executivesecretary@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Quechan Tribe of the Fort Yuma Reservation	F	Jill McCormick, Historic Preservation Officer	P.O. Box 1899 Yuma, AZ, 85366	(928) 261-0254	historicpreservation@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
Quechan Tribe of the Fort Yuma Reservation	F	Manfred Scott, Acting Chairman - Kw'ts'an Cultural Committee	P.O. Box 1899 Yuma, AZ, 85366	(928) 210-8739	culturalcommittee@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego
San Manuel Band of Mission Indians	F	Alexandra McCleary, Senior Manager of Cultural Resources Management	26569 Community Center Drive Highland, CA, 92346	(909) 633-0054	alexandra.mccleary@sanmanuel-nsn.gov	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Santa Rosa Band of Cahuilla Indians	F	Vanessa Minott, Tribal Administrator	P.O. Box 391820	(951) 659-2700	vminott@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange,

Tribe Name	F/N	Contact Person	Address	Phone	Email Address	Cultural Affiliation	Counties
			Anza, CA, 92539				Riverside, San Bernardino, San Diego
Santa Rosa Band of Cahuilla Indians	F	Steven Estrada, Tribal Chairman	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	sestrada@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Serrano Nation of Mission Indians	N	Wayne Walker, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(253) 370-0167	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Serrano Nation of Mission Indians	N	Mark Cochrane, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(909) 578-2598	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino
Soboba Band of Luiseno Indians	F	Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279	jontiveros@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego
Soboba Band of Luiseno Indians	F	Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261	jvaldez@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego

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

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Benson Reservoir & Improvements Design & Bid Support Services Project, San Bernardino County.

Appendix E

Noise Modeling Data

Field Noise Measurement Data

Record: 2046

Project Name	Chino resevoir
Observer(s)	
Date	2025-02-21

Meteorological Conditions

Temp (F)	71
Humidity % (R.H.)	23
Wind	Light
Wind Speed (MPH)	5
Wind Direction	West
Sky	Clear

Instrument and Calibrator Information

Instrument Name List	(ENC) Rion NL-52
Instrument Name	(ENC) Rion NL-52
Instrument Name Lookup Key	(ENC) Rion NL-52
Manufacturer	Rion
Model	NL-52
Serial Number	553896
Calibrator Name	(ENC) LD CAL150

Calibrator Name	(ENC) LD CAL150
Calibrator Name Lookup Key	(ENC) LD CAL150
Calibrator Manufacturer	Larson Davis
Calibrator Model	LD CAL150
Calibrator Serial #	5152
Pre-Test (dBA SPL)	93.8
Post-Test (dBA SPL)	94
Windscreen	Yes
Weighting?	A-WTD
Slow/Fast?	Slow

Monitoring	
Record #	1
Site ID	ST2
Site Location Lat/Long	34.039703, -117.683100
Begin (Time)	10:36:00
End (Time)	10:56:00
Leq	50.2
Lmax	69.1
Lmin	37.1
Other Lx?	L90, L50, L10
L90	40.1
L50	46.8

L10	54
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Conversations / Yelling, Distant Dog Barking, Distant Gardener / Landscape Noise, Distant Traffic, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Description / Photos

Site Photos

Photo



Comments / Description

Facing east

Site Photos

Photo



Comments / Description

Facing north

Site Photos

Photo



Comments / Description

Facing south

Monitoring	
Record #	2
Site ID	St1
Site Location Lat/Long	34.037791, -117.680730
Begin (Time)	11:06:00
End (Time)	11:21:00
Leq	68.1
Lmax	83.4
Lmin	45.7
Other Lx?	L90, L50, L10
L90	49.4
L50	60.4
L10	73.1
Other Lx (Specify Metric)	L
Primary Noise Source	Traffic
Other Noise Sources (Background)	Birds, Distant Aircraft, Rustling Leaves
Is the same instrument and calibrator being used as previously noted?	Yes
Are the meteorological conditions the same as previously noted?	Yes

Source Info and Traffic Counts

Number of Lanes	2
Lane Width (feet)	10
Roadway Width (feet)	20
Roadway Width (m)	6.1
Distance to Roadway (feet)	5
Distance to Roadway (m)	1.5
Distance Measured to Centerline or Edge of Pavement?	Edge of Pavement
Estimated Vehicle Speed (MPH)	0

Traffic Counts

Vehicle Count Summary	A 106, MT 0, HT 0, B 0, MC 0
Counting Both Directions?	Yes
Count Duration (minutes)	0
Vehicle Count Tally	
Select Method for Vehicle Counts	Enter Manually
Number of Vehicles - Autos	106
Number of Vehicles - Medium Trucks	0
Number of Vehicles - Heavy Trucks	0
Number of Vehicles - Buses	0
Number of Vehicles - Motorcycles	0

Site Photos	
Photo	
Comments / Description	Facing north



Facing north

Site Photos

Photo

A photograph taken from a sidewalk next to a road. In the foreground, a black surveying instrument is mounted on a black tripod. The road is paved and has a yellow dashed line. In the background, there is a grassy field, a chain-link fence, and a line of trees. The sky is clear blue. Power lines are visible overhead.



FORMS FIELD DATA REPORT	
Comments / Description	Facing west

Site Photos	
Photo	
Comments / Description	South

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance =65

allowable hours over which Leq is to be averaged =8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Temporary Barrier Insertion Loss (dB)	Additional Noise Reduction	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demo Existing Tank	backhoe	1	40	78		165	0.1		64.0	2	120	54	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	1	40	82		165	0.1		68.0	2	120	58	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	concrete saw	1	20	90		165	0.1		76.0	2	120	63	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Demo Existing Tank Phase:													64.6															
Mob and Cleaning	Grader	1	40	85		165	0.1		71.0	2	120	61	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	1	40	78		165	0.1		64.0	2	120	54	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	scraper	1	40	84		165	0.1		70.0	2	120	60	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Mob and Cleaning Phase:													64.0															
Landscape Fence	backhoe	1	40	78		165	0.1		64.0	2	120	54	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	man lift	1	20	75		165	0.1		61.0	2	120	48	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Landscape Fence Phase:													55.0															
Backfill and Compact	backhoe	1	40	78		165	0.1		64.0	2	120	54	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	compactor (ground)	1	20	80		165	0.1		66.0	2	120	53	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Backfill and Compact Phase:													56.5															
Site Drainage Improvements	backhoe	1	40	78		165	0.1		64.0	2	120	54	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	1	40	81		165	0.1		67.0	2	120	57	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front end loader	1	40	79		165	0.1		65.0	2	120	55	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Site Drainage Improvements Phase:													54.0															
Grading	Grader	1	40	85		165	0.1		71.0	2	120	61	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe		40	78		165	0.1		64.0	2	120	0	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer		40	82		165	0.1		68.0	2	120	0	5	5		160	5	165	160.1	7.1	165.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Grading Phase:													61.0															

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance =65

allowable hours over which Leq is to be averaged =8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Temporary Barrier Insertion Loss (dB)	Additional Noise Reduction	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
Demo Existing Tank	backhoe	1	40	78		40	15.2		64.7	2	120	55	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	dozer	1	40	82		40	15.2		68.7	2	120	59	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	concrete saw	1	20	90		40	15.2		76.7	2	120	64	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Demo Existing Tank Phase:													65.3															
Mob and Cleaning	Grader	1	40	85		40	15.2		71.7	2	120	62	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	backhoe	1	40	78		40	15.2		64.7	2	120	55	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	scraper	1	40	84		40	15.2		70.7	2	120	61	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Mob and Cleaning Phase:													64.7															
Landscape Fence	backhoe	1	40	78		40	15.2		64.7	2	120	55	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	man lift	1	20	75		40	15.2		61.7	2	120	49	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Landscape Fence Phase:													55.7															
Backfill and Compact	backhoe	1	40	78		40	15.2		64.7	2	120	55	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	compactor (ground)	1	20	80		40	15.2		66.7	2	120	54	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Backfill and Compact Phase:													57.3															
Site Drainage Improvements	backhoe	1	40	78		40	15.2		64.7	2	120	55	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	excavator	1	40	81		40	15.2		67.7	2	120	58	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	Front end loader	1	40	79		40	15.2		65.7	2	120	56	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Site Drainage Improvements Phase:													54.7															
Grading	Grader	1	40	85		40	15.2		71.7	2	120	62	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	backhoe		40	78		40	15.2		64.7	2	120	0	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
	dozer		40	82		40	15.2		68.7	2	120	0	5	5	10	35	5	40	35.4	7.1	40.0	2.43	15.0	15.0	5.0	0.5	0.7	15.2
Total for Grading Phase:													61.7															

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance =	65
allowable hours over which Leq is to be averaged =	8

= temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Temporary Barrier Insertion Loss (dB)	Additional Noise Reduction	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source	Receiver	Barrier	Source to	Rcvr. to Barr.	Source to	"A" (ft)	"B" (ft)	"C" (ft)	Path Length	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
													Elevation (ft)	Elevation (ft)	Height (ft)	Barr. ("A") Horiz. (ft)	("B") Horiz. (ft)	Rcvr. ("C") Horiz. (ft)	Diff. "P" (ft)									
Demo Existing Tank	backhoe	1	40	78		40	0.1		79.8	2	120	70	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer	1	40	82		40	0.1		83.8	2	120	74	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	concrete saw	1	20	90		40	0.1		91.8	2	120	79	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Demo Existing Tank Phase:													80.4															
Mob and Cleaning	Grader	1	40	85		40	0.1		86.8	2	120	77	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe	1	40	78		40	0.1		79.8	2	120	70	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	scraper	1	40	84		40	0.1		85.8	2	120	76	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Mob and Cleaning Phase:													79.8															
Landscape Fence	backhoe	1	40	78		40	0.1		79.8	2	120	70	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	man lift	1	20	75		40	0.1		76.8	2	120	64	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Landscape Fence Phase:													70.8															
Backfill and Compact	backhoe	1	40	78		40	0.1		79.8	2	120	70	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	compactor (ground)	1	20	80		40	0.1		81.8	2	120	69	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Backfill and Compact Phase:													72.4															
Site Drainage Improvements	backhoe	1	40	78		40	0.1		79.8	2	120	70	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	excavator	1	40	81		40	0.1		82.8	2	120	73	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front end loader	1	40	79		40	0.1		80.8	2	120	71	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Site Drainage Improvements Phase:													69.8															
Grading	Grader	1	40	85		40	0.1		86.8	2	120	77	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	backhoe		40	78		40	0.1		79.8	2	120	0	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	dozer		40	82		40	0.1		83.8	2	120	0	5	5		35	5	40	35.4	7.1	40.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
Total for Grading Phase:													76.8															

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L _{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Bar Bender	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Clam Shovel (dropping)	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Concrete Pump Truck	No	20	81	82	81
Concrete Saw	No	20	90	90	90
Crane	No	16	81	85	81
Dozer	No	40	82	85	82
Drill Rig Truck	No	20	79	84	79
Drum Mixer	No	50	80	80	80
Dump Truck	No	40	76	84	76
Excavator	No	40	81	85	81
Flat Bed Truck	No	40	74	84	74
Front End Loader	No	40	79	80	79
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Gradall	No	40	83	85	83
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarifier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivet Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74