SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Final Subsequent Environmental Impact Report for the Sunshine Canyon Landfill Flare Capacity Expansion Project

February 2026

State Clearinghouse No. 1992041053
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PREFACE

This document constitutes the Final Subsequent Environmental Impact Report (SEIR) for Sunshine Canyon Landfill (SCL) Flare Capacity Expansion Project.

The Draft SEIR was circulated for a 45-day public review and comment period from September 30, 2025 to November 14, 2025. Four comment letters were received during the comment period. The comments and responses relative to the Draft SEIR are included in Appendix F of this Final SEIR.

Minor clarifications to the CEQA analysis have been made due to public comments as well as for consistency. To facilitate identification of the changes between the Draft SEIR and the Final SEIR, modifications to the document are included as underlined text and text removed from the document is indicated by ~~strikethrough text~~. To avoid confusion, minor formatting changes are not shown in underline or strikethrough mode.

South Coast AQMD staff has evaluated the modifications made to the Proposed Project after the release of the Draft SEIR for public review and comment and concluded that none of the revisions constitute significant new information, because: 1) no new significant environmental impacts would result from the Proposed Project; 2) there is no substantial increase in the severity of an environmental impact; 3) no other feasible project alternative or mitigation measure was identified that would clearly lessen the environmental impacts of the Proposed Project and was considerably different from others previously analyzed, and 4) the Draft SEIR did not deprive the public from meaningful review and comment. In addition, revisions to the Proposed Project in response to comment letters would not create new, unavoidable significant effects. As a result, these revisions do not require recirculation of the Draft SEIR pursuant to CEQA Guidelines Section 15088.5. Therefore, the Draft SEIR has been revised to include the aforementioned modifications such that it is now the Final SEIR.

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EXECUTIVE SUMMARY

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1.1 INTRODUCTION

Sunshine Canyon Landfill (SCL) is a Class III landfill (i.e., a municipal landfill that is not authorized to accept hazardous waste) located in Sylmar, California. The SCL facility is located within the jurisdiction of South Coast AQMD and operates as Facility ID # 49111 pursuant to a Title V permit issued by South Coast AQMD in 2018. SCL is owned and operated by Browning-Ferris Industries of California, Inc. (BFIC). BFIC proposes to construct and operate two additional landfill gas (LFG) flares and two additional 300-horsepower (hp) electric LFG blowers at SCL. BFIC also proposes to increase the permitted site-wide LFG combustion limit from 16,100 standard cubic feet per minute (scfm) to 33,334 scfm, corrected to 50 percent methane (50% CH4) and averaged over 24 hours. No component of the Proposed Project would expand landfill capacity or increase the amount of waste that can be accepted on a daily, monthly, or annual basis.

Because the South Coast Air Quality Management District (AQMD) has primary approval authority over the Proposed Project, it is the lead agency under the California Environmental Quality Act (CEQA) and is responsible for preparing this Subsequent Environmental Impact Report (SEIR). This SEIR is a subsequent document to the Final Subsequent Environmental Impact Report for Sunshine Canyon Landfill, which was certified by the City of Los Angeles on December 8, 1999 and is referred to herein as the 1999 Final SEIR (City of Los Angeles 1999; State Clearinghouse No. 92041053).

In 2016, the South Coast AQMD Hearing Board issued BFIC a Stipulated Order for Abatement (SOA) which required BFIC to address alleged violations of Health and Safety Code Section 41700 and South Coast AQMD Rule 402 - Nuisance relating to landfill odors at the SCL facility. The odors were believed to be caused, in part, by fugitive emissions of LFG that were eluding the LFG collection and control system (GCCS) and instead, were being released directly to the atmosphere through the landfill surface. To reduce fugitive LFG emissions and mitigate odors, the SOA required SCL's operators to implement the following measures: 1) apply alternative daily cover (i.e., non-earthen material) in lieu of nine inches of compacted soil at the working face of the landfill; 2) place additional, intermediate cover materials on selected areas of the site; and 3) install additional LFG collection wells, collectors, and piping to deliver more LFG for combustion. Combustion of LFG destroys most of the odorous compounds, toxic air contaminants (TACs), and CH4 (a potent greenhouse gas [GHG]) present in LFG.

SCL implemented the measures required by the 2016 SOA, which resulted in the collection and combustion of LFG in greater quantities than the current permitted site-wide limit of 16,100 scfm (at 50% CH4). For example, from September 2017 through November 2023, the average quantity of collected and combusted LFG ranged from 12,500 scfm to 17,800 scfm (at 50% CH4, averaged monthly). Moreover, BFIC forecasts that the LFG generation rate at SCL will continue to increase until at least 2038, which is the year that SCL is estimated to stop accepting waste. By 2038, the peak LFG generation rate is predicted to reach 32,392 scfm (at 50% CH4) before leveling off and gradually diminishing in subsequent years.

As part of normal landfill operations, SCL has an active landfill GCCS to manage LFG generated by the decomposition of waste. The SCL GCCS is comprised of more than a thousand horizontal and vertical gas extraction wells, which are interconnected to 12 electric blowers that create a vacuum capable of pulling the gas through the network of conveyance piping, and routing it to be combusted by five existing LFG flares at SCL that are currently operated by BFIC (Flares 1, 3, 9, 10, and 11). The SCL GCCS also supplies LFG to a separate LFG-to-energy (LFGTE) facility

owned and operated by Sunshine Gas Producers, LLC (SGP). The SGP facility is located within the northern portion of SCL property but operates as a separate business entity under Facility ID # 139938. The SGP facility operates five LFGTE turbines, a landfill gas treatment system, and one small auxiliary flare. All of the gas rights at SCL are owned by SGP which means that the LFG collected by the SCL GCCS is first supplied to the SGP facility for electricity production. Surplus LFG that is not used by the SGP facility is routed to and combusted by the SCL flares. The current site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) applies to the total LFG combusted by the SCL flares and the SGP facility.

To accommodate the additional LFG collected by the GCCS and to continue to adequately control odors in the future, BFIC is now seeking to increase the number of flares from five to seven and to increase the site-wide LFG combustion limit. The proposed SCL Flare Capacity Expansion Project (Proposed Project) would include the following modifications:

- Install and operate two additional low emission flares (proposed Flares 12 and 13) and two additional 300-hp electric blowers, and connect them to the existing GCCS.
- Increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).

The proposed new site-wide LFG combustion limit of 33,334 scfm (at 50% CH4) represents the combined design capacity of the five existing flares plus two proposed flares, and is slightly higher than the 2038 forecasted LFG generation rate at SCL (32,392 scfm [at 50% CH4]).

The Proposed Project was evaluated in this SEIR assuming that the five existing flares plus the two proposed SCL flares would operate continuously at the proposed new site-wide combustion limit of 33,334 scfm (at 50% CH4). This assumption is conservative because the SCL flares would only operate at their maximum capacities when the SGP facility is temporarily offline (e.g., planned shutdowns twice a year that last up to five days for conducting maintenance and repairs). The SGP facility was not evaluated in this SEIR because the Proposed Project would not include any physical or operational modifications to the SGP facility.

1.2 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The California Environmental Quality Act (CEQA) [Public Resources Code Section 21000 et seq., and California Code of Regulations (CCR), Title 14, Division 6, Chapter 3] requires the evaluation of all potential adverse environmental impacts of proposed projects and the identification and implementation of feasible methods to reduce, avoid, or eliminate significant adverse environmental impacts of these projects. The purpose of the CEQA process is to inform the South Coast AQMD, other public agencies, and interested parties of potential adverse environmental impacts that could result from implementing the Proposed Project and to identify feasible mitigation measures or alternatives when an impact is significant.

The lead agency is the public agency with the principal responsibility for carrying out or approving a project that may have a significant effect upon the environment. [Public Resources Code Section 21067]. The proposed modifications to the SCL site are considered a "project" as defined by CEQA. Because the Proposed Project requires discretionary approval only from the South Coast AQMD, the South Coast AQMD is the most appropriate public agency to act as lead agency and is responsible for preparing the CEQA document for the Proposed Project. [CEQA Guidelines Section 15051(b)].

The Proposed Project would provide additional flaring capacity for the SCL's GCCS through installation and operation of two additional low emission flares (Flares 12 and 13), installation and operation of two additional 300-hp electric blowers connected to the existing GCCS, and increasing the permitted site-wide LFG combustion allowance. The five existing SCL flares were previously analyzed in the 1999 Final SEIR which estimated that the SCL facility needed to have five 4,167 scfm flares with an assumed a combined total LFG flow of 20,835 scfm at 40% CH4 (equivalent to 16,100 scfm at 50% CH4). The total LFG combustion flow and associated emission levels for the five existing flares in the 1999 Final SEIR later became the basis for the permit conditions and limits in the Title V permit for SCL that was issued by the South Coast AQMD on May 15, 2018. The 2018 Title V permit is included in Appendix A.

In analyzing the potential environmental impacts of the Proposed Project per CEQA Guidelines Section 15162, the South Coast AQMD determined that the Proposed Project contains new information of substantial importance which was not known and could not have been known at the time of the certification of the 1999 Final SEIR. [CEQA Guidelines Section 15162(a)(3)]. Thus, the analysis indicates that the type of CEQA document appropriate for the Proposed Project is a Subsequent Environmental Impact Report (SEIR), which tiers off the 1999 Final SEIR as allowed by CEQA Guidelines Sections 15152, 15162, and 15385. This new SEIR is a subsequent document to the 1999 Final SEIR. Because this new SEIR is a subsequent document, the baseline for the evaluation of impacts is the project analyzed in the 1999 Final SEIR. Specifically, this new SEIR evaluates whether the Proposed Project would substantially increase the severity of the significant effects that were previously identified in the 1999 Final SEIR. [CEQA Guidelines Section 15162(a)(3)(B)].

At the time the 1999 Final SEIR was prepared and certified, impacts related to particulate matter less than 2.5 microns in diameter (PM2.5), GHGs, wildfires, agriculture and forestry, and tribal cultural resources were not required to be analyzed under CEQA and therefore, were not addressed in the 1999 Final SEIR. However, the current CEQA Guidelines now require an evaluation of impacts for these pollutants and environmental topic areas. Therefore, this new SEIR addresses the potential for PM2.5 and GHG emissions (which are evaluated as part of the air quality impacts), as well as the potential for agriculture and forestry resources, tribal cultural resources, and wildfire impacts (which are evaluated in Section 4.5) associated with construction and operation of the Proposed Project. The baseline for the evaluation of these additional pollutants and new environmental topic areas relies on the assumptions analyzed in the 1999 Final SEIR. Specifically, this new SEIR evaluates whether the Proposed Project would substantially increase the severity of PM2.5 and GHG emissions, agriculture and forestry resources, tribal cultural resources, and wildfire impacts relative to the project assumptions in the 1999 Final SEIR. (See *California Coastkeeper Alliance v. State Lands Commission*, 64 Cal. App. 5th 36, 49, 284 Cal. Rptr. 3d 886, 894 (2021) citing *Friends of the College of San Mateo Gardens v. San Mateo Community College District* 1 Cal. 5th 937, 967, 378 P.3d 687, 700 (2016).)

The South Coast AQMD, as lead agency for the Proposed Project, has prepared this SEIR with significant impacts. Pursuant to CEQA Guidelines Sections 15126.4 and 15126.6, since significant adverse impacts have been identified, an alternatives analysis and mitigation measures are required and have been included in this SEIR. The Draft SEIR ~~is being~~was released and circulated for a 45-day public review and comment period from September 30, 2025 to November 14, 2025. Four comment letters were received during the comment period. The comments and responses relative to the Draft SEIR are included in Appendix F of this Final SEIR.~~Any comments on the analysis~~

~~presented in this Draft SEIR received during the public comment period will be responded to and included in an appendix of the Final SEIR.~~

The 1999 Final SEIR (State Clearinghouse No. 92041053), upon which this SEIR relies, is incorporated by reference pursuant to CEQA Guidelines Section 15150 and is available from the South Coast AQMD website at:

December 1999 Final SEIR for Sunshine Canyon Landfill:
https://www.aqmd.gov/home/research/documents-reports/lead-agency-permit-projects

In addition, the most recent version of the Mitigation, Monitoring and Reporting Summary (MMRS) from 2006 is incorporated by reference, and is included as Appendix B to this SEIR. The MMRS was first adopted in the *Final Environmental Impact Report for the Sunshine Canyon Landfill Extension* by the County of Los Angeles in 1993; amended in the *Final Subsequent Environmental Impact Report, Sunshine Canyon Landfill* by the City of Los Angeles in 1999 to incorporate changes identified by responsible agencies; amended in the *Final Addendum to the November 1993 Final EIR and December 1999 Final SEIR* by the County of Los Angeles in 2004 to incorporate measures corresponding to modifications to the County Conditional Use Permit (CUP); and finally updated in 2006 to incorporate the most stringent requirements from the City and County CUPs.

South Coast AQMD staff has evaluated the modifications made to the Proposed Project after the release of the Draft SEIR for public review and comment and concluded that none of the revisions constitute significant new information, because: 1) no new significant environmental impacts would result from the Proposed Project; 2) there is no substantial increase in the severity of an environmental impact; 3) no other feasible project alternative or mitigation measure was identified that would clearly lessen the environmental impacts of the project and was considerably different from others previously analyzed, and 4) the Draft SEIR did not deprive the public from meaningful review and comment. In addition, revisions to the Proposed Project in response to comment letters would not create new, unavoidable significant effects. As a result, these revisions do not require recirculation of the Draft SEIR pursuant to CEQA Guidelines Sections 15073.5 and 15088.5. Therefore, the Draft SEIR has been revised to include the aforementioned modifications such that it is now the Final SEIR.

Prior to making a decision on the Proposed Project, the South Coast AQMD must review and certify the Final SEIR, including responses to comments, as providing adequate information on the potential adverse environmental impacts that may occur as a result of approving the Proposed Project.

1.3 PREVIOUS CEQA DOCUMENTATION

The current configuration of the SCL facility is the result of a complex history of land use and zoning actions over the past 30 years by both the City of Los Angeles and the County of Los Angeles, with the overarching objective of merging two pre-existing landfills from the separate jurisdictions into one larger landfill. The following summarizes the past CEQA documents for previous SCL projects.

- *Final Environmental Impact Report (EIR) for the Sunshine Canyon Landfill Extension* (County of Los Angeles, 1991 and 1993; State Clearinghouse No. 89071210) was

initially certified by the County of Los Angeles Board of Supervisors on February 19, 1991, and, after litigation, recertified with two Addenda and a document titled "Additional Information and Analysis" on November 30, 1993. These documents, which are collectively referred to as the 1993 Final EIR, assumed that a total of eight flares, each at 4,167 scfm (corrected to 40% CH4), would be needed at the SCL facility. Therefore, the 1993 Final EIR proposed construction and operation of seven new flares in addition to the one existing, permitted flare at the SCL facility at that time.

- *Final Subsequent Environmental Impact Report, Sunshine Canyon Landfill* (City of Los Angeles 1999; State Clearinghouse No. 92041053) was certified by the City of Los Angeles on December 8, 1999 (referred to herein as the 1999 Final SEIR) in connection with its adoption of a Zone Change and General Plan Amendment that approved landfilling in the City of Los Angeles portion of SCL. The 1999 Final SEIR also incorporated revisions to the MMRS approved in 1993 for the County of Los Angeles portion of the SCL facility.

  The 1999 Final SEIR re-analyzed the previous LFG generation projections in the 1993 Final EIR and concluded that only five 4,167 scfm flares, instead of eight, were needed. In addition, the air quality analysis in the 1999 Final SEIR assumed a maximum site-wide LFG flow of 20,835 scfm at 40% CH4 (equivalent to 16,100 scfm at 50% CH4). The facility-wide emission limits of 520 pounds per day (lbs/day) carbon monoxide (CO), 535 lbs/day sulfur oxides (SOx) and 125 lbs/day volatile organic compounds (VOC) were the LFG combustion emission values disclosed in Table 4.2-158 (Revised) of the 1999 Final SEIR. The total LFG combustion flow and associated emission levels analyzed in the 1999 Final SEIR later became the basis for the permit conditions and site-wide LFG combustion limit in the Title V permit that was issued by the South Coast AQMD in 2018. Therefore, this new SEIR tiers off the 1999 Final SEIR because the 1999 Final SEIR is the most recent certified CEQA document that evaluated the SCL flares in accordance with the combustion limit of 16,100 scfm (at 50% CH4) in the 2018 Title V permit.

- *Final Addendum to the November 1993 Final EIR and December 1999 Final SEIR* (County of Los Angeles, 2004; State Clearinghouse No. 89071210) for the combined City and County portions of the SCL facility finalized modifications to the Conditional Use Permit 00-194-(5) (collectively "the New CUP"; County of Los Angeles, 2007) and updated conditions associated with the permit (City of Los Angeles, 2004). The analyses presented in the 2004 Final Addendum ensured that conditions for the combined County and City portions of the landfill project were consistent with conditions approved by the City of Los Angeles. The MMRS was updated in 2006 to incorporate the most stringent requirements from the City and County CUPs. The 2004 Addendum did not provide any new quantitative analysis of the SCL flares.

SCL Mitigation, Monitoring, and Reporting Summary

The aforementioned CEQA documents have resulted in the development of a detailed MMRS that is designed to reduce potentially significant air quality impacts of various landfill activities to the maximum extent feasible. Mitigation measures to ensure compliance with the current landfill CUP requirements would be applicable to the Proposed Project and would be implemented during construction and operation as part of the Proposed Project. The specific air quality-related

mitigation measures that would apply to the Proposed Project are described in Section 4.4.2. The complete MMRS is included in Appendix B.

1.4 RESPONSIBLE AGENCIES

CEQA Guidelines Section 15381 defines a "responsible agency" as "a public agency which proposes to carry out or approve a project, for which a lead agency is preparing or has prepared an EIR or Negative Declaration. For the purposes of CEQA, the term "responsible agency" includes all public agencies other than the lead agency which have discretionary approval power over the project." No responsible agencies have been identified for the currently Proposed Project because, aside from South Coast AQMD's discretionary oversight of issuing permits, no other new discretionary approvals are expected to be required. However, a Notice of Completion (NOC) of the Proposed Project will be sent to the California Governor's Office of Land Use and Climate Innovation (LCI), formerly known as the Office of Planning and Research, pursuant to Public Resources Code Section 21080.4 for distribution in the event any responsible agencies are identified for the Proposed Project. The NOC will also be filed for posting with the clerk of the County of Los Angeles.

1.5 TRUSTEE AGENCIES

Trustee agencies as defined by CEQA Guidelines Section 15386 are public agencies having jurisdiction by law over natural resources affected by a project which are held in trust for the people of the State of California. There are no trustee agencies associated with the Proposed Project. However, a NOC of the Proposed Project will be sent to the LCI pursuant to Public Resources Code Section 21080.4 for distribution in the event any trustee agencies are identified for the Proposed Project. The NOC will also be filed for posting with the clerk of the County of Los Angeles.

1.6 COMMENTING AGENCIES

The following agencies are identified as commenting agencies because they have jurisdiction over the SCL facility [CEQA Guidelines Section 15366]. However, the Proposed Project does not contain any components that would require a discretionary action by these agencies to determine whether to carry out or approve the Proposed Project:

- State Water Resources Control Board (SWRCB);
- Los Angeles Regional Water Quality Control Board (RWQCB);
- Los Angeles County Department of Public Health;
- Cal Recycle (formerly Integrated Waste Management Board);
- Los Angeles County Department of Public Works;
- Los Angeles County Fire Department;
- City of Los Angeles Bureau of Sanitation;
- Los Angeles County Department of Regional Planning; and
- Sunshine Canyon Landfill Local Enforcement Agency

A brief discussion of these agencies' areas of responsibility as they relate to SCL is included in Section 2.10.

1.7 INTENDED USES OF THIS DOCUMENT

This SEIR is intended to be used as a decision-making tool that provides full disclosure of the environmental consequences associated with implementing the Proposed Project. Additionally, CEQA Guidelines Section 15124(d)(1) requires a public agency to identify the following specific types of intended uses of a CEQA document:

1. A list of the agencies that are expected to use the SEIR in their decision-making;
2. A list of permits and other approvals required to implement the project; and
3. A list of related environmental review and consultation requirements required by federal, state, or local laws, regulations, or policies.

Section 2.10 provides additional information related to the above items. To the extent that local public agencies, such as cities, county planning commissions, etc., are responsible for making land use and planning decisions related to the Proposed Project, they could possibly rely on this SEIR during their decision-making process.

1.8 AREAS OF CONTROVERSY

CEQA Guidelines Section 15123(b)(2) requires a public agency to identify the areas of controversy in the CEQA document, including issues raised by agencies and the public. South Coast AQMD received 17,061 odor complaints about SCL from 2009 through November 2024. After investigating, the South Coast AQMD issued notices of violations (NOVs) regarding nuisance and odor which are detailed on the South Coast AQMD's website (South Coast AQMD, 2024). Improved odor abatement is one of the primary objectives of the Proposed Project.

Pursuant to CEQA Guidelines Section 15131(a), "[e]conomic or social effects of a project shall not be treated as significant effects on the environment." CEQA Guidelines Section 15131(b) states further, "[e]conomic or social effects of a project may be used to determine the significance of physical changes caused by the project." Physical changes that may be caused by the Proposed Project have been evaluated in Chapter 4 of this SEIR. No direct or indirect physical changes resulting from economic or social effects have been identified as a result of implementing the Proposed Project.

If any concerns are raised during the comment period of this Draft SEIR, the predominant concerns expressed by the public regarding the Proposed Project will be addressed in the Final SEIR.

1.9 EXECUTIVE SUMMARY

CEQA Guidelines Section 15123 requires a CEQA document to include a brief summary of the proposed actions and their consequences. In addition, areas of controversy must also be included in the Executive Summary (see preceding discussion). This SEIR consists of the following chapters: Chapter 1 – Executive Summary; Chapter 2 – Project Description; Chapter 3 – Existing Setting, Chapter 4 – Environmental Impacts, Mitigation Measures, and Cumulative Impacts; Chapter 5 – Project Alternatives; Chapter 6 – References; Chapter 7 – Acronyms; and various appendices. The following subsections briefly summarize the contents of each chapter.

1.9.1 Summary of Chapter 1 – Executive Summary

Chapter 1 includes an introduction of the Proposed Project and a discussion of the legislative authority that allows the South Coast AQMD to approve discretionary projects, identifies general CEQA requirements and the intended uses of this CEQA document, and summarizes the remaining six chapters that comprise this SEIR.

This SEIR is a subsequent document to the Final Subsequent Environmental Impact Report for Sunshine Canyon Landfill, which was certified by the City of Los Angeles on December 8, 1999 and is referred to herein as the 1999 Final SEIR (City of Los Angeles 1999; State Clearinghouse No. 92041053). Therefore, this SEIR evaluates whether the Proposed Project would substantially increase the severity of the significant effects that were previously identified in the 1999 Final SEIR. [CEQA Guidelines Section 15162(a)(3)(B)]. Pursuant to CEQA Guidelines Sections 15126.4 and 15126.6, since significant adverse impacts have been identified, an alternatives analysis and mitigation measures are required and have been included in this SEIR.

1.9.2 Summary of Chapter 2 – Project Description

Introduction

SCL is located at 14747 San Fernando Road in Sylmar, California. It has served businesses and municipalities throughout Los Angeles County since 1958. It is designated as a Class III non-hazardous waste facility and accepts only municipal solid waste (MSW). SCL handles approximately one-third of the daily waste from all areas of Los Angeles County and on average, receives roughly 9,000 tons of MSW per day, or more than 2.5 million tons annually. The SCL site occupies a total area of approximately 1,036 acres, with disposal allowed on 363 acres. The southeast portion of SCL is located within the City of Los Angeles and the northwest portion is located within the unincorporated portion of Los Angeles County (Figure 2-2). SCL is owned and operated by BFIC.

As part of normal landfill operations, SCL has an active landfill gas collection and control system (GCCS) to manage landfill gas (LFG) generated by the decomposition of waste. All of the LFG generated at SCL is owned by Sunshine Gas Producers, LLC (SGP), which operates a LFG-to-energy facility within SCL property. SGP is a business entity separate from SCL and operates under a separate Title V permit.

The GCCS at SCL is currently connected to five landfill gas flares (e.g., Flares 1, 3, 9, 10, and 11) operated by SCL and five LFG-to-energy turbines and one small auxiliary flare operated by SGP. Landfill gas is collected through a combination of more than a thousand horizontal and vertical gas wells. Vacuum is applied to the wellfield using 12 electric blowers which pull the LFG through a network of piping to the flare stations. LFG is first supplied to the SGP turbines for conversion to electricity. Any surplus LFG that is not used for the purposes of producing electricity at the SGP facility is flared.

In 2016, the South Coast AQMD Hearing Board issued a SOA that required BFIC to address excessive landfill odors originating from the SCL facility. BFIC implemented the measures required by the 2016 SOA, which included the installation of additional LFG wells, collectors, and piping to capture and control more LFG.

The 2018 Title V permit for SCL specifies a site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours), which includes the sum of LFG combusted by the SCL flares and the SGP facility. However, the improvements made to the GCCS in response to the 2016 SOA have resulted in periodic exceedances of the site-wide LFG combustion limit (Figure 2-3). Moreover, BFIC now forecasts that the LFG generation rate at SCL will continue to increase until at least 2038 when it is predicted to reach 32,392 scfm (at 50% CH4).

Project Objectives

The following project objectives have been developed for the Proposed Project:

1. Increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate.
2. Increase the capacity of the GCCS to accommodate the maximum future projected LFG production rate.
3. Further reduce landfill odors and prevent fugitive releases of CH4, which is a potent GHG, and TACs that are present in LFG.

Proposed Project

To meet the project objectives, the proposed SCL Flare Capacity Expansion Project (Proposed Project) includes the following modifications:

- Install and operate two additional low emission flares (proposed Flares 12 and 13) and two additional 300-hp electric blowers, and connect them to the existing GCCS.
- Revise SCL's 2018 Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).

Proposed new Flares 12 and 13 would both be ZULE enclosed flares of a like-model as existing Flares 9, 10, and 11, with the same maximum LFG flow rate of 5,000 scfm. The new flares would have enclosed, carbon steel stacks measuring approximately 13 feet in diameter and 70 feet in height (20 feet higher than the five existing flares). The flare stacks would be designed to contain the flame internally within the stack.

The proposed new site-wide LFG combustion limit of 33,334 scfm (at 50% CH4) represents the combined design capacity of the five existing plus two proposed new SCL flares. It is slightly higher than the 2038 forecasted peak LFG generation rate of 32,392 scfm (at 50% CH4). The Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis.

On October 5, 2017, BFIC submitted to the South Coast AQMD an application for proposed Flare 12 and an increase to the site-wide LFG combustion limit. BFIC has not yet submitted a permit application for proposed Flare 13.

Construction of the Proposed Project

Construction of the proposed new flares (Flares 12 and 13) and electric blowers would occur adjacent to existing Flares 9, 10, and 11, on a graded 1-acre parcel in the northern portion of SCL property (Figure 2-6). Construction would take approximately four months and is expected to begin by roughly July 2026, pending approval of this SEIR and issuance of the necessary permits

to construct by the South Coast AQMD. Approximately 12 onsite workers would be needed during construction.

Operation of the Proposed Project

Operation of the proposed new flares and blowers would be conducted in accordance with a revised Title V permit for SCL. No additional staff would be required for the operation and maintenance of the new equipment. The flares would operate in compliance with South Coast AQMD rules, including Rule 402, Rule 1118.1, and Rule 1150.1. The new equipment would also operate in accordance with SCL's LFG management operations and maintenance standard operating procedures. The procedures include periodic inspections and servicing of the LFG equipment as well as the basis for maintaining the LFG system in good working order and a roadmap to follow if system breakdowns occur.

Closure and Decommissioning

The anticipated SCL closure date, when SCL reaches its landfill waste limit, is 2038. The SCL facility will continue to produce LFG for many years after closure, as disposed waste continues to decompose. Following closure of the landfill, the quantity of generated LFG will slowly diminish over time. However, there will still be a need for collection and control of the diminishing LFG. Therefore, the GCCS and flares will be needed to control LFG for the foreseeable future. After the final cover system has been in place for at least 30 years, leachate and gas generation may have diminished to a point that LFG, the potential for fire, and odor generation would be adequately mitigated. At that time, the flares would be decommissioned and removed from the site.

1.9.3 Summary of Chapter 3 – Existing Setting

Pursuant to CEQA Guidelines Section 15125, Chapter 3 – Existing Setting includes a description of the environmental topic areas that are potentially adversely affected by the Proposed Project. The analysis of the Proposed Project indicates that additional potentially significant adverse air quality and GHG impacts would occur; thus, the focus of the analysis in this SEIR is limited to the environmental topics of air quality and GHGs.

The following discussion briefly highlights the existing setting for the topics of air quality and GHGs.

Air Quality

Air quality in the area of the South Coast AQMD's jurisdiction has shown substantial improvement over the last two decades. Nevertheless, some federal and state air quality standards are still exceeded due to regional emissions. Of the national ambient air quality standards (NAAQS) established for seven criteria pollutants (ozone, lead, sulfur dioxide [SO2], nitrogen dioxide [NO2], CO, particulate matter less than 10 microns [PM10], and PM2.5), the area within the South Coast AQMD's jurisdiction is in nonattainment for ozone, PM2.5, and lead (the nonattainment designation for lead is only near specific sources in Los Angeles County). The area is in nonattainment of the California ambient air quality standards (CAAQS) for ozone, PM10, and PM2.5. Chapter 3 provides a brief description of the existing air quality setting for each criteria pollutant, as well as the human health effects resulting from exposure to each criteria pollutant.

Levels of toxic air contaminants (TACs) in the South Coast Air Basin (Basin) have also shown substantial improvement over the last two decades. Nevertheless, the AQMD's most recent study, Multiple Air Toxic Exposure Study (MATES) V, estimated that the population weighted cancer

risk in the Basin was 455 in one million. Within the zip code where the Proposed Project is located, the background cancer risk was estimated to be 352 per million, which is less than the Basin average.

Several operations at a landfill can create odors, including waste unloading and movement, decay of waste at the working face, and LFG that evades the GCCS. Since 2005, the communities adjacent to SCL have filed a number of complaints with the South Coast AQMD regarding odors from SCL operations. In response to the increasing odor complaints, the South Coast AQMD Hearing Board issued an Order for Abatement to SCL in 2010 that required several corrective actions designed to reduce odors from the landfill. SCL's compliance with the 2010 Order for Abatement corresponded with a reduction in odor complaints. But after a rising number of complaints in 2014 and 2015, the Hearing Board issued an SOA in 2016 that required SCL to install additional LFG collection wells, collectors, and piping to deliver more LFG for combustion which destroys odiferous compounds. Complaints once again were reduced for several years, but have increased in 2023 and 2024 (Figure 3-8).

Greenhouse Gases

The Intergovernmental Panel on Climate Change (IPCC) has concluded that recent global climate change has largely been the result of human activity, mainly the burning of fossil fuels. In its Sixth Assessment Report, the IPCC predicted that global warming will continue to increase in the near term (2021–2040) mainly due to increased cumulative carbon dioxide (CO2) emissions in nearly all considered scenarios and modelled pathways. In the near term, global warming is more likely than not to reach 1.5°C even under a very low GHG emission scenario, and likely or very likely to exceed 1.5°C under higher emissions scenarios. According to California Air Resources Board (CARB) emission inventory estimates, California emitted approximately 381.3 million metric tons (MT) of carbon dioxide equivalent (CO2e) emissions in 2021. Statewide GHG emissions have dropped substantially since 2008, and most of the emission reductions have occurred in the transportation and electric power sectors.

1.9.4 Summary of Chapter 4 – Environmental Impacts, Mitigation Measures, and Cumulative Impacts

CEQA Guidelines Section 15126(a) requires a CEQA document to identify and focus on the "significant environmental effects of the proposed project." Direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects. In addition, CEQA Guidelines Section 15126(b) requires a CEQA document to identify the significant environmental effects that cannot be avoided if the Proposed Project is implemented. CEQA Guidelines Section 15126(c) also requires a CEQA document to consider and discuss the significant irreversible environmental changes that would be involved if the Proposed Project is implemented. Further, CEQA Guidelines Section 15126(e) requires a CEQA document to consider and discuss mitigation measures proposed to minimize the significant effects. Finally, CEQA Guidelines Section 15130 requires a CEQA document to discuss whether the Proposed Project has cumulative impacts. Chapter 4 considers and discusses each of these requirements.

Environmental Topic Areas Not Evaluated in the 1999 Final SEIR

At the time the 1999 Final SEIR was prepared and certified, impacts related to PM2.5, GHGs, agriculture and forestry resources, tribal cultural resources, and wildfires were not required to be analyzed under CEQA and therefore were not addressed in the 1999 Final SEIR. Current CEQA

Guidelines now require the evaluation of impacts for these pollutants and environmental topic areas. Therefore, this new SEIR addresses the potential for PM2.5 and GHG emissions (which are evaluated as part of the air quality impacts) as well as the potential for agriculture and forestry resources, tribal cultural resources, and wildfire impacts (which are evaluated under the Section 4.5) associated with construction and operation of the Proposed Project.

Potential Environmental Impacts Found To Be Significant

Air quality and GHG emissions are the only two environmental topic areas that have been identified in this SEIR as having potentially significant adverse impacts if the Proposed Project is implemented.

The Proposed Project would involve the continued operation of the five existing flares (Flares 1, 3, 9, 10, and 11) with increased LFG combustion, and two new flares (Flares 12 and 13) at SCL. The Proposed Project was evaluated assuming all flares would operate at their maximum LFG input capacities, which total 33,334 scfm (at 50% CH4). This is a conservative assumption because, in practice, a substantial portion of the collected LFG would be diverted to the SGP LFGTE facility except when the SGP facility is temporarily off-line. When online, the SGP facility is capable of combusting approximately 10,000 scfm of LFG at 50% CH4.

Impacts associated with Proposed Project operations were based on emissions increments relative to the 1999 Final SEIR. The emissions increments represent the maximum potential flare emissions under the Proposed Project minus the emissions associated with the quantity of historical LFG collected and combusted between September 2017 and November 2023 which, due to the greater quantity of LFG captured than originally expected, is approximated as the maximum potential flare emissions under the 1999 Final SEIR (that is, the baseline emissions, see Figure 2-3). The baseline flare emissions represent the maximum allowable emissions under the 2018 Title V permit. Because the site-wide LFG combustion limit in SCL's 2018 Title V permit is based on the assumptions in the air quality analysis of the 1999 Final SEIR, the baseline flare emissions are consistent with the 1999 Final SEIR.

Table 1-1 summarizes all air quality and GHG impacts evaluated in this document. The impacts found to be significant are further described below.

Impact AQ-3. Regional Air Quality Impacts Associated with Proposed Project Operation: Pursuant to Rule 1303(b)(2), a portion of the nitrogen oxide (NOx), VOC, PM10, and SOx emissions from proposed new Flares 12 and 13 would need to be offset as part of the permitting process. Because SCL's flares are considered an essential public service, the emission offsets would be provided from the South Coast AQMD's internal offset accounts in accordance with Rule 1309.1.

The Proposed Project's operational emissions, including deductions to account for offset emissions, would exceed the South Coast AQMD daily significance thresholds for NOx, PM2.5, SOx, and CO. Three of these pollutants – NOx, SOx, and CO – were previously identified as significant impacts in the 1999 Final SEIR. Therefore, operation of the Proposed Project would increase the severity of previously identified significant regional impacts related to emissions of NOx, SOx, and CO. The remaining significant pollutant – PM2.5 – was not evaluated in the 1999 Final SEIR. Therefore, under CEQA, operation of the Proposed Project would create a new significant regional impact related to emissions of PM2.5.

Impact GHG-1. Greenhouse Gas Emissions: The Proposed Project's combined construction and operational emissions of GHGs would exceed the South Coast AQMD annual significance threshold. Construction emissions would be negligible relative to the operational flare emissions. Because GHGs were not addressed in the 1999 Final SEIR, this exceedance would represent a new significant impact related to GHG emissions.

Although this SEIR finds that the increase in potential flare GHG emissions relative to the 1999 Final SEIR would be significant, the Proposed Project flares would serve a beneficial purpose of destroying CH4 in LFG. According to the United State Environmental Protection Agency (U.S. EPA), reducing CH4 emissions from MSW landfills is one of the best ways to achieve a near-term beneficial impact in mitigating global climate change. The South Coast AQMD has determined that combusting LFG in flares reduces CO2e emissions by approximately 80 percent compared to releasing the same LFG to the atmosphere uncombusted.

Mitigation Measures

All flares would be included in the revised Title V permit issued and enforced by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including Best Available Control Technology (BACT), offsets as defined in Rule 1303, and emission limits as specified in Rule 1118.1, in addition to applicable state and federal regulations. Moreover, the flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. Finally, the Proposed Project would be subject to the applicable mitigation measures contained in the MMRS developed for the 1999 Final SEIR (see Appendix B). No mitigation beyond these requirements would be feasible for the flares.

Residual Impacts

Impacts would remain significant for operational emissions of NOx, PM2.5, SOx, CO. Impacts would remain significant for the combined construction and operational emissions of GHGs.

Table 1-1
Summary of Proposed Project Air Quality and GHG Impacts

Impact	Mitigation Measure	Residual Impact
Impact AQ-1. The Proposed Project would be consistent with the 2022 AQMP.	None required.	Less than significant.
Impact AQ-2. Maximum daily construction emissions would be less than significant.	None required.	Less than significant.

Table 1-1 (concluded)
Summary of Proposed Project Air Quality and GHG Impacts

Impact	Mitigation Measure	Residual Impact
Impact AQ-3. Maximum daily operational emissions would be significant for NOx, PM2.5, SOx, and CO. Emissions would be less than significant for VOC and PM10.	All flares would be regulated by SCL's revised Title V permit issued and enforced by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including BACT and offsets. The flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. The Proposed Project would be subject to the MMRS developed for the 1999 Final SEIR (see Appendix B). Mitigation beyond these requirements is not feasible.	Significant for emissions of NOx, PM2.5, SOx, and CO. Less than significant for emissions of VOC and PM10.
Impact AQ-4. Localized construction impacts would be less than significant.	None required.	Less than significant.
Impact AQ-5. Localized operational impacts would be less than significant.	None required.	Less than significant.
Impact AQ-6. Health risks associated with TAC emissions would be less than significant.	None required.	Less than significant.
Impact AQ-7. Odor impacts would be less than significant.	None required.	Less than significant.
Impact GHG-1. Annual GHG emissions would be significant.	All flares would be regulated by SCL's revised Title V permit issued and enforced by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including BACT and offsets. The flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. The Proposed Project would be subject to the MMRS developed for the 1999 Final SEIR (see Appendix B). Mitigation beyond these requirements is not feasible.	Significant for GHG emissions.
Impact GHG-2. The Proposed Project would be consistent with applicable GHG reduction plans.	None required.	Less than significant.

Other Environmental Topic Areas Found Not To Be Significant

CEQA requires the identification of the environmental topic areas that were analyzed and concluded to have no impacts or less than significant impacts, if a proposed project is implemented. For the effects of a proposed project that were determined not to be significant, CEQA Guidelines Section 15128 requires the analysis to contain a statement briefly indicating the reasons that various effects that were determined not to have significant impacts and were therefore not discussed in detail.

As described in the preceding section, significant impacts were identified for portions of the air quality and GHG environmental topic areas from the Proposed Project. However, other portions of the air quality and GHG environmental topic areas were found to be less than significant. The less than significant impacts include:

- The Proposed Project would be consistent with the 2022 Air Quality Management Plan (Impact AQ-1).
- Construction emissions of all criteria pollutants would be less than significant (Impact AQ-2).
- Operational emissions of VOC and PM10 would be less than significant (Impact AQ-3).
- Localized criteria pollutant concentrations associated with construction would be less than significant (Impact AQ-4).
- Localized criteria pollutant concentrations associated with operation would be less than significant (Impact AQ-5).
- Health risks from toxic air contaminant (TAC) emissions would be less than significant (Impact AQ-6).
- Odor impacts would be less than significant because the Proposed Project would improve the ability of SCL to control odors related to fugitive LFG emissions (Impact AQ-7).
- The Proposed Project would be consistent with existing rules and regulations and future compliance requirements (AQ-8).
- The Proposed Project would be consistent with applicable GHG reduction plans (Impact GHG-2).

For all environmental topics, except the topics of air quality and GHG emissions which are discussed and further analyzed in Section 4.4 of this chapter, this subchapter of the SEIR identifies and summarizes the environmental topic areas that were previously analyzed in the 1999 Final SEIR and assesses whether the conclusions reached would need to be revised if the Proposed Project is implemented. Also, since three new environmental topic areas, agriculture and forestry resources, tribal cultural resources and wildfire, were added to the CEQA Guidelines after the 1999 Final SEIR was certified, this section analyzes whether the Proposed Project would contribute to any impacts on agriculture and forestry resources, tribal cultural resources, and wildfires.

Significant Environmental Effects Which Cannot be Avoided

This SEIR identified that the exceedance of the air quality significance thresholds for operational emissions of NOx, PM2.5, SOx, and CO, as well as for GHG emissions would cause significant and unavoidable adverse environmental impacts for the topic of air quality and GHGs.

Significant Irreversible Environmental Changes

Significant adverse impacts to air quality and GHGs from the operation of flares cannot be mitigated to less than significant levels; thus, they may be considered irreversible because facility operators that install new flares to combust landfill gas are likely to operate these systems for the lifetime of the equipment.

Potential Growth-Inducing Impacts

Development of the Proposed Project would not directly result in economic, population, or housing growth in the immediate project area because it would not change the day-to-day operations or waste capacity of the landfill. The Proposed Project would not include the construction of any new public roads, sewers, or water lines that would allow for growth to occur within a relatively close distance to the site. The Proposed Project has the potential to indirectly produce beneficial impacts by creating short-term construction jobs. No additional staff would be required for Proposed Project operation.

Relationship Between Short-Term and Long-Term Environmental Goals

Implementation of the Proposed Project is not expected to achieve short-term goals to the disadvantage of long-term environmental goals.

Cumulative Impacts

The cumulative impacts analysis identified seven related projects within approximately two miles of the SCL property line:

- I-5 HOV/Truck Lanes SR-14 to Parker Road Project (SCH #2007051028)
- 15827 Roxford Street Project (SCH #2022080340)
- Operation NEXT Water Supply Program and Hyperion 2035 Program (SCH #2021030340)
- Van Norman Complex Routine Operation and Maintenance (SCH #2019119023)
- Trails at Lyons Canyon Project (SCH #2022060346)
- Gate-King Industrial Park (SCH #2001021121)
- Wiley Canyon Project (SCH #2022030626)

As Lead Agency, the South Coast AQMD uses the same significance thresholds for project specific and cumulative impacts. Projects that exceed the project-specific significance thresholds are considered by the South Coast AQMD to be cumulatively considerable.

Cumulative Construction Impacts: Cumulative construction emissions from the related projects together with the Proposed Project would exceed the South Coast AQMD mass daily thresholds for NOx, VOC, and PM10 and result in significant cumulative air quality impacts. However, because the Proposed Project's construction emissions would be below the significance thresholds for all criteria pollutants, construction of the Proposed Project would not result in a cumulatively considerable contribution to a significant cumulative regional impact.

Additionally, the Proposed Project's on-site construction emissions would be below the LSTs for each of the applicable criteria pollutants. Therefore, construction of the Proposed Project would not result in a cumulatively considerable contribution to a cumulative localized impact.

Cumulative Operational Impacts: Cumulative operational emissions from the related projects together with the Proposed Project would exceed the South Coast AQMD mass daily thresholds

for NOx, VOC, PM10, PM2.5, SOx, and CO and result in significant cumulative air quality impacts. Individually, the Proposed Project's operational emissions would exceed the mass daily thresholds for NOx, PM2.5, SOx, and CO. Therefore, operation of the Proposed Project would result in a cumulatively considerable contribution to a significant cumulative regional impact for NOx, PM2.5, SOx, and CO. Operation of the Proposed Project would not result in a cumulatively considerable contribution to a significant cumulative regional impact for VOC and PM10.

Additionally, the localized ambient criteria pollutant concentrations associated with Proposed Project operation would not exceed the ambient air quality standards or significant change thresholds. Therefore, operation of the Proposed Project would not result in a cumulatively considerable contribution to a cumulative localized impact.

Cumulative Toxic Air Contaminant Impacts: Because of the relatively large distance between the Proposed Project flares and the related projects, it is unlikely that off-site TAC impacts from the Proposed Project would combine with the TAC impacts from the related projects in sufficient quantities to produce a significant cumulative impact. Moreover, the TAC impacts associated with the Proposed Project would not exceed the significance thresholds. Therefore, the Proposed Project would not produce a cumulatively considerable contribution to a cumulative TAC impact.

Cumulative Odor Impacts: Because of the numerous odor complaints reported by the communities adjacent to SCL since 2009, cumulative odor impacts are considered to be significant. However, the Proposed Project would help to mitigate cumulative odor impacts by adding two new flares and increasing the site-wide LFG combustion limit. Therefore, the Proposed Project would not result in a cumulatively considerable contribution to a significant cumulative odor impact.

Cumulative GHG Impacts: The cumulative GHG emissions from the related projects together with the Proposed Project would exceed the South Coast AQMD threshold and result in a significant cumulative impact. Individually, the Proposed Project's GHG emissions would also be significant. Therefore, the Proposed Project would produce a cumulatively considerable contribution to a significant cumulative GHG impact.

Despite the significance finding, the SCL flares are considered abatement devices for GHGs because they destroy most of the CH4 present in raw LFG. Because CH4 has 25 times the global warming potential of CO2, the CO2 created during LFG combustion is much less potent than the CH4 that otherwise would have been emitted in fugitive, uncombusted, LFG releases. The South Coast AQMD has determined that combusting LFG in flares reduces CO2e emissions by approximately 80 percent compared to releasing the same amount of uncombusted LFG to the atmosphere.

Mitigation of Cumulative Impacts: All flares would be included in the revised Title V permit issued and enforced by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including Best Available Control Technology (BACT) and offsets as defined in Rule 1303, and emission limits as specified in Rule 1118.1, in addition to applicable state and federal regulations. Moreover, the flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. Finally, the Proposed Project would be subject to the applicable mitigation measures contained in the MMRS developed for the 1999 Final SEIR (see Appendix B). No mitigation beyond these requirements would be feasible for the flares.

Level of Significance of Cumulative Impacts after Mitigation: After mitigation, the Proposed Project's operational emissions of NOx, PM2.5, SOx, CO, and GHGs would continue to make cumulatively considerable contributions to significant cumulative impacts.

1.9.5 Summary Chapter 5 – Alternatives

CEQA Guidelines Section 15126(e) requires a CEQA document to consider and discuss alternatives to the Proposed Project. Four alternatives to the Proposed Project were identified and evaluated:

- **Alternative A: No Project.** Under this alternative, no construction would occur and the existing GCCS, flaring system, and site wide combustion limit would remain in effect. Although required to be evaluated by CEQA Guidelines, the No Project alternative is not feasible because it would violate the 2018 Title V permit by combusting LFG in excess of the existing site-wide LFG combustion limit of 16,100 scfm (at 50% CH4).
- **Alternative B: Additional Backup.** Under this alternative, an additional flare and blower would be constructed in order to provide redundancy in case one or more of the flares and blowers are offline for maintenance or other reasons. Specifically, this alternative would: a) install and operate three additional low emission flares and three additional 300-hp electric blowers, and connect them to the existing GCCS; and b) revise SCL's 2018 Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).
- **Alternative C: Alternate Onsite Location.** Under this alternative, the same components as the Proposed Project would be constructed, except that the two proposed flares would be placed in a different location within the SCL site. Specifically, at minimum, this alternative would: a) install and operate two additional low emission flares (proposed Flare 12 and 13) and three additional 300-hp electric blowers, and connect them to the existing GCCS; and b) revise SCL's 2018 Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).
- **Alternative D: Beneficial Re-Use of LFG.** Under this alternative, one proposed flare would be replaced with a LFGTE facility comparable to the existing one operated by SGP (estimated as five LFGTE turbines). Specifically, this alternative would: a) install and operate one additional low emission flare, two additional 300-hp electric blowers, five LFGTE turbines, and connect them to the existing GCCS; and b) revise SCL's 2018 Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 28,334 scfm (at 50% CH4, averaged over 24 hours). 5,000 scfm of LFG would be repurposed to generate electricity. Alternative D is not feasible because all landfill gas rights at SCL are owned by SGP, which is a separate legal entity from BFIC and not under BFIC's control.

Significant Impacts Associated with Alternative A

Operation of Alternative A (No Project) would exceed the site-wide LFG combustion limit in the 2018 Title V permit by combusting more site-wide LFG than is permitted. Furthermore, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would likely lead to additional violations of South Coast AQMD Rule 402 -

Nuisance. Therefore, Alternative A would result in the following significant impacts related to plan consistency:

- Not consistent with the 2022 AQMP; and
- Not consistent with the 2022 Scoping Plan Update.

Alternative A would also produce substantial emissions of VOC, hydrogen sulfide (H2S), TACs, odorous compounds, and CH4 contained in the uncombusted LFG described in the preceding paragraph. Therefore, the Alternative A would potentially result in the following additional significant impacts:

- Maximum daily operational emissions would be significant for VOC;
- Localized operational impacts would be significant for H2S;
- Health risk impacts from TAC emissions would be significant for cancer risk and the acute hazard index;
- Odor impacts would be significant; and
- Annual GHG emissions would be significant.

Significant Impacts Associated with Alternative B

Alternative B (Additional Backup) would have an additional flare, but the same emission limits and potential operational emissions as compared to the Proposed Project (only seven of the eight flares would be operating concurrently). Alternative B would require more construction than for the Proposed Project. The impacts associated with Alternative B would be similar to those of the Proposed Project, except that construction air quality and GHG impacts would be greater (construction air quality would remain less than significant). Therefore, for Alternative B, maximum daily operational emissions would be significant for NOx, PM2.5, SOx, and CO. Annual GHG emissions which is comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would also be significant.

Significant Impacts Associated with Alternative C

Alternative C (Alternate Onsite Location) would install and operate the same number of flares with the same emission limits and potential operational emissions as the Proposed Project but at a different location within the SCL site. To install the proposed two new flares at a different location, Alternative C would involve substantially more construction when compared to the Proposed Project due to extensive work that will be needed to: 1) grade up to two acres; 2) pour multiple foundations; 3) upgrade the existing power supply which could potentially require a new, higher capacity transformer, higher voltage distribution lines, and new or upgraded switchgear; 4) install one additional blower and a new blower skid; 5) install additional piping to connect to the existing GCCS; and 6) implement enhanced wind protection measures which could involve cutting and grading to ensure that the hillsides can provide an adequate barrier if the area is prone to windspeeds exceeding 110 miles per hour. In concept, relocating the two proposed new flares to another location could avoid clustering the emission plumes from the two new flares with the existing plumes from the three existing flares within the SCL site as a means to potentially reduce or avoid worsening the localized operational air quality impacts. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere

within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended benefits would actually occur. Overall, the impacts associated with Alternative C would be similar to those of the Proposed Project, except that construction air quality and GHG impacts would be greater/worsened (construction air quality would remain less than significant). Therefore, for Alternative C, maximum daily operational emissions would be significant for NOx, PM2.5, SOx, and CO. Annual GHG emissions, which is comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would also be significant.

Significant Impacts Associated with Alternative D

Alternative D (Beneficial Re-Use of LFG) would have the one less flare, but five additional LFGTE turbines as compared to the Proposed Project. Alternative D would require more construction than for the Proposed Project, resulting in potentially significant regional air quality impacts from construction. Operation of the LFGTE turbines in lieu of a flare would result in more severe significant regional operational air quality emissions. Annual GHG emissions, which is comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would also be greater in quantity and more severe in impact.

Alternatives Rejected as Infeasible

In accordance with CEQA Guidelines Section 15126.6(c), two potential project alternatives were considered but rejected as infeasible. The No Project alternative was rejected as infeasible because it will not achieve any of the Project Objectives. In addition, SCL would be in violation of its current Title V permit and South Coast AQMD Rules 402 and 1150.1.

An alternative was considered to provide beneficial re-use of collected LFG in lieu of combustion in flares. Examples of beneficial re-use include combusting the LFG to produce electricity (similar to the existing SGP facility at SCL). However, all LFG produced at SCL is owned by SGP, which is a separate legal entity from BFIC and not under BFIC's control. As a result, this alternative was rejected as infeasible because the supply of LFG required for this alternative is not under the control of the project proponent and the alternative cannot be feasibly implemented within a reasonable time.

Lowest Toxic Alternative

For any major equipment or process type under the scope of the Proposed Project that creates a significant environmental impact, at least one alternative, to be compared against the other analyzed alternatives, where feasible, shall be considered from a "least harmful" perspective with regard to hazardous or toxic air contaminants.

Alternative A: No Project and Alternative D: Beneficial Re-Use of LFG, were rejected as infeasible and thus, are not eligible for consideration as a lowest toxic alternative. Both Alternative B: Additional Backup and Alternative C: Alternate Location, would have the same LFG combustion limit and would be capable of achieving Project Objective #1 to: "increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate." Combustion of LFG is necessary to reduce fugitive emission of TACs. Depending on the alternate location of the two new flares, Alternative C could potentially have fewer maximum localized impacts during operation (i.e., ambient pollutant concentrations, odors, and health risks) than the Proposed Project because it would attempt to avoid clustering five flares (two new and three existing) together where their emission plumes could overlap. Therefore, of the four alternatives considered, Alternative C is designed to be, in concept, the lowest toxic alternative with regard to

localized operational air quality impacts from hazardous or toxic air contaminants. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended benefits of Alternative C would actually occur.

Alternative C would involve more extensive construction activities from both on-road and off-road construction equipment over a longer period of time than what would occur under Alternative B to install an extra flare that would serve as a backup to the other flares. Thus, when compared to Alternative B, Alternative C would emit more diesel particulate matter (DPM), a carcinogenic and chronic toxic air contaminant (TAC) during construction. Therefore, among the feasible alternatives analyzed, Alternative B would have fewer toxic emissions than Alternative C, and thus, would be the lowest toxic alternative.

Nonetheless, the Proposed Project would have fewer toxic emissions overall during construction and operation when compared to Alternative B. Thus, none of the feasible alternatives analyzed are the least toxic when compared to the Proposed Project.

Environmentally Superior Alternative

Similar to the least toxic alternative analysis, for any major equipment or process type under the scope of the Proposed Project that creates a significant environmental impact, at least one alternative, to be compared against the other analyzed alternatives, where feasible, shall be considered from an "environmentally superior" perspective by weighing the various potential effects to determine which alternative will satisfy the project objectives and have fewer overall adverse impacts. When none of the alternatives is clearly environmentally superior to the Proposed Project, it should be sufficient for the CEQA document to explain the environmental advantages and disadvantages of each alternative in comparison with the Proposed Project.

Alternative A: No Project and Alternative D: Beneficial Re-Use of LFG, were rejected as infeasible and thus, are not eligible for consideration as an environmentally superior alternative.

When comparing Alternatives B and C from an overall environmental impacts perspective, both alternatives require construction but Alternative C would involve more extensive construction activities from both on-road and off-road construction equipment over a longer period of time than what would occur under Alternative B. Thus, when compared to Alternative B, Alternative C would emit more DPM, a carcinogenic and chronic TAC during construction.

During operation, relocating the two proposed new flares to another location under Alternative C could theoretically avoid clustering the emission plumes from the two new flares with the existing plumes from the three existing flares within the SCL site as a means to potentially reduce or avoid the adverse localized operational air quality impacts. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended operational benefits would actually occur if Alternative C was implemented. When considering both construction and operation activities together, Alternative B would have fewer impacts overall than Alternative C; thus, Alternative B would be environmentally superior to Alternative C.

Nonetheless, neither Alternative B nor Alternative C is environmentally superior to the Proposed Project because both of these alternatives would have more construction impacts than the Proposed Project, even if they have the about the same amount of adverse operational impacts overall. Based on the aforementioned analysis, none of feasible alternatives analyzed are environmentally superior to the Proposed Project.

1.9.6 Summary of Chapters 6 and 7 – References and Acronyms

Information on references cited (including organizations and persons consulted) and the acronyms are presented in Chapters 6 and 7, respectively.

CHAPTER 2

PROJECT DESCRIPTION

2.1 Introduction

2.2 Project Objectives

2.3 Project Location

2.4 Land Use and Zoning

2.5 Project Background

2.6 Proposed Project

2.7 Construction of Proposed Project

2.8 Operation of Proposed Project

2.9 Post-Closure Maintenance, Decommissioning, and Gas Management

2.10 Permits and Compliance Requirements

2.11 Facility Compliance History

2.1 INTRODUCTION

CEQA Guidelines Section 15124 requires this SEIR to include a description of the precise location and boundaries of the Proposed Project, a statement of objectives sought by the Proposed Project, and a general description of the project's technical, economic, and environmental characteristics. This chapter includes an introduction, project objectives, project location, land use and zoning for the SCL and surrounding areas, project background, project description, permits and compliance requirements, and facility compliance history.

2.2 PROJECT OBJECTIVES

CEQA Guidelines Section 15124(b) requires a statement of objectives sought by the Proposed Project, including the underlying purpose of the Proposed Project. Compatibility with project objectives is one criterion for selecting a range of reasonable project alternatives and provides a standard against which to measure project alternatives. The following project objectives have been developed for the Proposed Project:

1. Increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate.
2. Increase the capacity of the GCCS to accommodate the maximum future projected LFG production rate.
3. Further reduce landfill odors and prevent fugitive releases of CH4, which is a potent GHG, and TACs that are present in LFG.

2.3 PROJECT LOCATION

The SCL facility is located at 14747 San Fernando Road in Sylmar, California, in Los Angeles County. The facility lies approximately one mile to the west of the junction of Interstate 5 and State Route 14 at the northern edge of the San Fernando Valley. The City of Santa Clarita is located to the north of SCL and the communities of Granada Hills and Sylmar are located to the south and southeast, respectively (Figure 2-1). The SCL facility is located within the jurisdiction of South Coast AQMD and operates as Facility ID # 49111 pursuant to a Title V permit issued by South Coast AQMD in 2018.

The SCL site includes a property area of approximately 1,036 acres, with disposal allowed on 363 acres. The southeast portion of SCL is located within the City of Los Angeles and the northwest portion is located within the unincorporated Los Angeles County. Under the Proposed Project, the two new flares would be located in the Los Angeles County portion of SCL (Figure 2-2), although the proposed increase to the site-wide LFG combustion limit would affect the GCCS and existing flares throughout the entire SCL site.

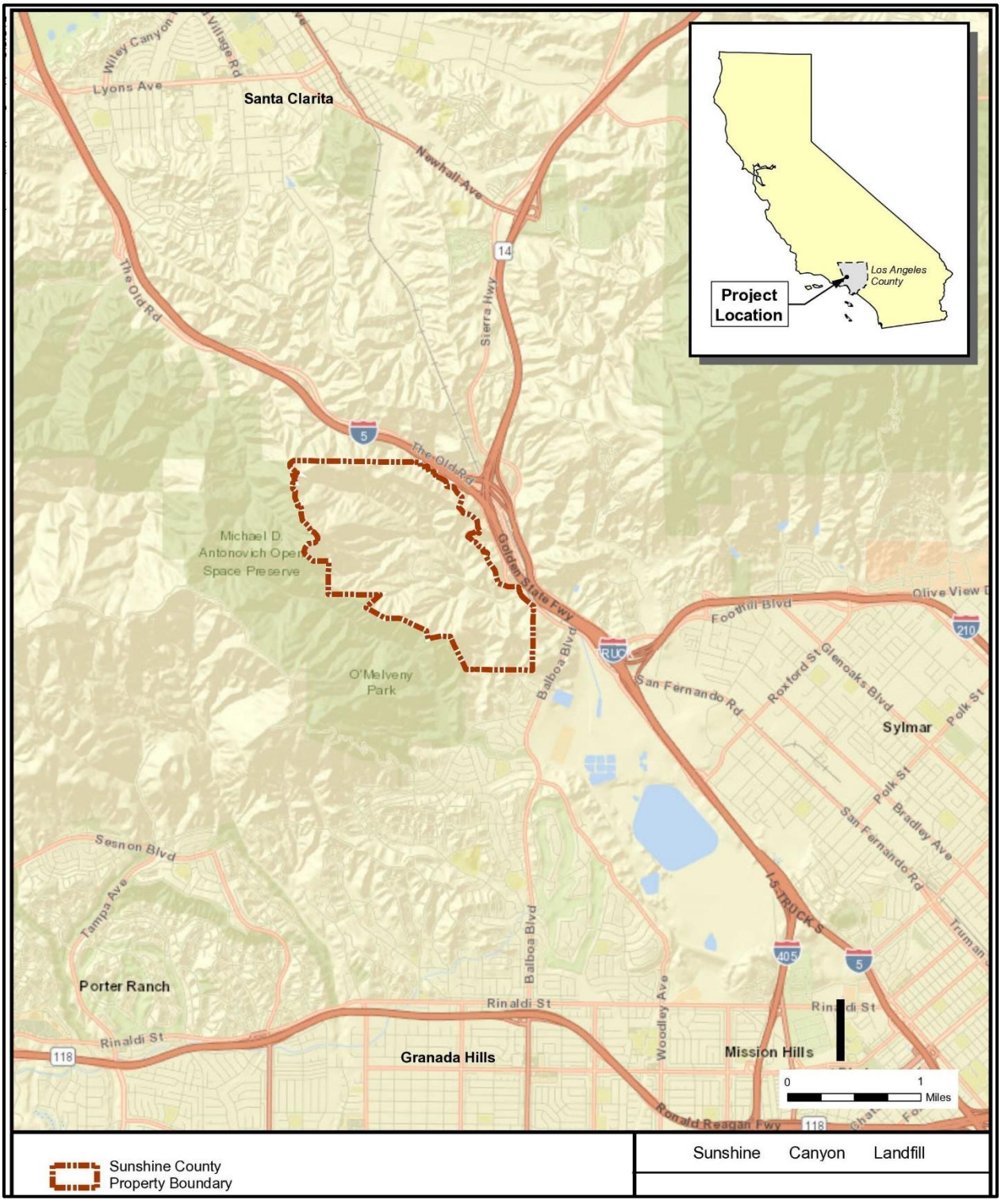


Figure 2-1
Project Location

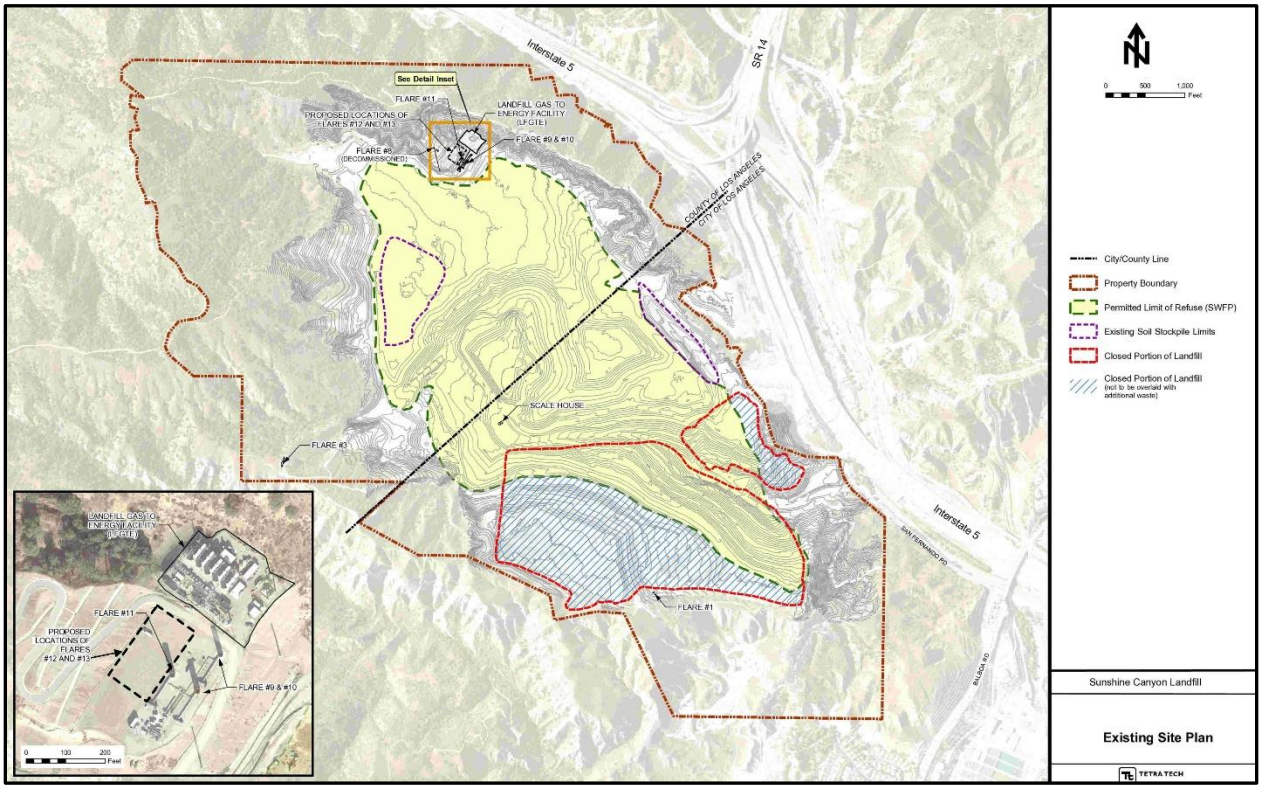


Figure 2-2
Existing Site Plan and Locations of Existing and Proposed Flares

2.4 LAND USE AND ZONING

Within the City of Los Angeles portion of the SCL site, the land use designation is "heavy industrial," with a zoning designation of M3-1-O: Heavy Industry. Within the unincorporated Los Angeles County portion of the SCL site, the land use designation is "Hillside Management, Non-Urban Hillside," and "Residential," and the corresponding zoning is A-2-2: Heavy Agriculture, Two-Acre Minimum Lot Size.

An amended Conditional Use Permit (CUP) is also in effect in the Los Angeles County portion of the SCL site, the details of which are described in Section 2.10 of this SEIR. The area surrounding the SCL site is zoned "Open Space" within the City of Los Angeles jurisdiction (i.e., areas to the south and east of the landfill) and "Hillside Management" and "Residential" within the Los Angeles County jurisdiction (i.e., areas to the north and west of the landfill).

Land uses located within 1,000 feet radius of the SCL site include undeveloped mountainous terrain to the south and southwest, an active oil production area located to the south, freeways to the north and northeast, several commercial properties to the north, and open space and residential areas to the south and east.

2.5 PROJECT BACKGROUND

SCL is owned and operated by BFIC. SCL has served businesses and municipalities throughout Los Angeles County since 1958. It is designated as a Class III non-hazardous waste facility and accepts only MSW. SCL handles approximately one-third of the daily waste from all areas of Los Angeles County and on average receives roughly 9,000 tons of MSW per day, or more than 2.5 million tons annually. The maximum daily tonnage of all materials permitted to be received at the facility, including MSW for disposal and materials received for beneficial reuse and recycling, is 12,100 tons per day.

The closing date for SCL is estimated to be 2038, which is the year that SCL is expected to reach its permitted landfill waste limit and stop accepting waste. However, the permitted capacity of SCL is based on waste volume; therefore, the closing date could change based on daily disposal rates.

Landfills such as SCL receive massive amounts of organic waste which eventually decompose and generate LFG consisting of approximately equal amounts of CH4 and CO2 with lesser amounts of other components. The composition of LFG varies depending on the types of wastes and conditions that occur during decomposition. The typical LFG composition for SCL is shown in Table 2-1.

Table 2-1
Typical LFG Composition at SCL

LFG Components	Quantity within LFG
CH4	40-50%
CO2	30-45%
Nitrogen	10-25%
Oxygen	0-5%
Hydrogen	0-1%
Heavier Hydrocarbons	1,000-1,500 ppm
Miscellaneous	200-300 ppm

ppm = parts per million
Source: Tetra Tech BAS 2019.

To minimize potential odors and fugitive releases of LFG emissions at the landfill's surface, gas collection systems and abatement devices, such as flares, are utilized. Flaring is a high-temperature oxidation process used to burn combustible components (mostly hydrocarbons, such as CH4) of waste gases from industrial operations. During combustion, gaseous hydrocarbons react with atmospheric oxygen to form CO2 and water. Combustion of LFG destroys most of the odorous compounds, TACs, and CH4 present in LFG. State and federal regulations also require the capture and control of LFG to prevent its migration and accumulation into onsite and offsite structures beyond the landfill boundaries.

SCL has an existing, active GCCS to collect and manage LFG generated by the decomposition of waste. It is comprised of more than a thousand horizontal and vertical gas extraction wells interconnected to 12 electric blowers. The wells consist of perforated pipe inserted into the waste mass. The electric blowers create a vacuum that is applied to the LFG wells to extract the LFG from the waste mass. Wells that are not under the right amount of vacuum could result in fugitive

emissions of uncollected LFG and lead to odor issues. The blowers then send the extracted LFG through a network of conveyance piping to abatement devices for combustion.

The GCCS at SCL is connected to five existing flares, numbered Flares 1, 3, 9, 10, and 11 (see Figure 2-2). The flares operate pursuant to South Coast AQMD-issued Permits to Operate (P/Os) G19108, G19109, G45944, G45946, and G44479, respectively. Flares 1 and 3 are McGill flares that each have a maximum permitted flow rate of 4,167 scfm. Flare 1 is located near the southern edge of the landfill on the City side ("City South"). The GCCS on City South is not connected to the rest of the GCCS infrastructure on the County and City North portions of the landfill. Therefore, any gas collected on City South is kept separate from gas collected in other areas of the landfill and is directed to Flare 1 for destruction. Flare 3 is located on a ridge west of the landfill near the border between the City and County portions of the landfill. Flare 3 operates in conjunction with Flares 9, 10, and 11 to abate LFG that is collected from the City North and County portions of the landfill. Flares 9, 10, and 11 are John Zink Ultra Low Emissions (ZULE) flares, located on a ridge north of the landfill and are positioned adjacent to each other. Flares 9, 10, and 11 each have a maximum design flowrate of 5,000 scfm.

The federal Clean Air Act (CAA) requires major sources of air pollutants and certain other sources to obtain and operate in compliance with a "Title V" permit. Table 2-2 shows the current Title V-permitted LFG combustion limits for the five existing SCL flares. Although the sum of the individual limits for the five existing flares is 23,334 scfm, the 2018 Title V permit contains a site-wide LFG combustion limit of 16,100 scfm (at 50% CH4). This site-wide limit was assumed in the air quality analysis performed for the 1999 Final SEIR.

Table 2-2
Current Permitted LFG Combustion Limits

Abatement Device	AQMD Application No.	AQMD Permit No.	Maximum LFG Combustion Limit (scfm)	Maximum Heat Input (MMBtu/hr) [3]
Flare 1	537983	G19108	4,167	105
Flare 3	537984	G19109	4,167	105
Flare 9	526972	G45944	5,000	152
Flare 10	541300	G45946	5,000	152
Flare 11	570952	G44479	5,000	152
Site-Wide Limit [1]			16,100 [2]	n/a

n/a = not applicable (i.e., no permit limit).
Source: Title V Facility Permit to Operate. Facility ID# 049111. Revision #14. May 15, 2018.
[1] The site-wide limit is less than the sum of the individual flare limits.
[2] The site-wide limit is at 50% CH4, calculated over a 24-hour period. It includes the sum of LFG combusted by the SCL flares and the SGP facility.
[3] Flares 1 and 3 are permitted to 105 MMBtu/hr based on the LFG lower heating value (LHV), while Flares 9, 10, and 11 were permitted to 152 MMBtu/hr based on the LFG higher heating value (HHV).

SCL's GCCS is also connected via pipeline to a 20-megawatt (MW) LFGTE facility owned and operated by Sunshine Gas Producers, LLC (SGP). The SGP facility is located on an approximate 1-acre parcel within the northern portion of SCL property, outside the permitted limit of refuse (see Figure 2-2). It operates as a separate business entity under a separate Title V Permit (South Coast AQMD Facility ID# 139938). The SGP facility operates five LFG-to-energy turbines

pursuant to South Coast AQMD-issued P/Os G47197, G47198, G47199, G47200, and G47201, respectively and one small auxiliary flare pursuant to P/O G47157.

The current site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours) in SCL's 2018 Title V permit (Table 2-2) applies to the total LFG combusted by the SCL flares and the SGP facility. The SGP facility typically operates at an LFG flow rate of approximately 7,500 scfm at 50% CH4, although it has a maximum capacity of approximately 10,000 scfm at 50% CH4. The rights to the LFG generated at SCL are solely owned by SGP which means that the LFG collected by the SCL GCCS is first supplied to the SGP facility for electricity production. Surplus LFG that is not used by the SGP facility is routed to and combusted by the SCL flares.

Operation of the SGP facility substantially reduces the quantity of LFG that needs to be combusted by the SCL flares. However, when the SGP facility is offline for maintenance or other reasons, the SCL flares need to combust all LFG collected at SCL. Twice a year, the SGP facility performs planned shutdowns that last up to five days for conducting maintenance and repairs to the system. During these times, multiple SGP turbines could be offline at the same time. In other instances, sudden shutdowns of the SGP facility are experienced due to power interruptions. The SCL flares must combust all collected LFG during these events.

In 2016, the South Coast AQMD Hearing Board issued an SOA which required BFIC to address alleged violations of Health and Safety Code Section 41700 and South Coast AQMD Rule 402 - Nuisance relating to landfill odors originating from the SCL facility. The odors were believed to be caused, in part, by fugitive emissions of LFG that were eluding the GCCS and instead, were being released directly to the atmosphere from the landfill surface. To ensure the sufficient capture and combustion of LFG, which would mitigate odors, the SOA required implementation of the following measures: 1) apply alternative daily cover in lieu of nine inches of compacted soil at the working face of the landfill; 2) place additional intermediate cover materials on selected areas of the site; and 3) install additional LFG wells, collectors, and piping to deliver more LFG to the existing SCL flares as well as to the SGP facility.

BFIC, after implementing the measures required by the 2016 SOA, collected and combusted LFG in quantities that sometimes exceeded the site-wide limit of 16,100 scfm (at 50% CH4) in SCL's 2018 Title V Permit. For example, Figure 2-3 shows the actual quantities of LFG combusted by the SCL flares and SGP facility from September 2017 through November 2023 (blue line) and compares the quantities to the permitted limit of 16,100 scfm (orange line). Figure 2-3 also shows that the average quantity of collected and combusted LFG ranged from approximately 12,500 scfm to 17,800 scfm (at 50% CH4, averaged by month) over that same period.

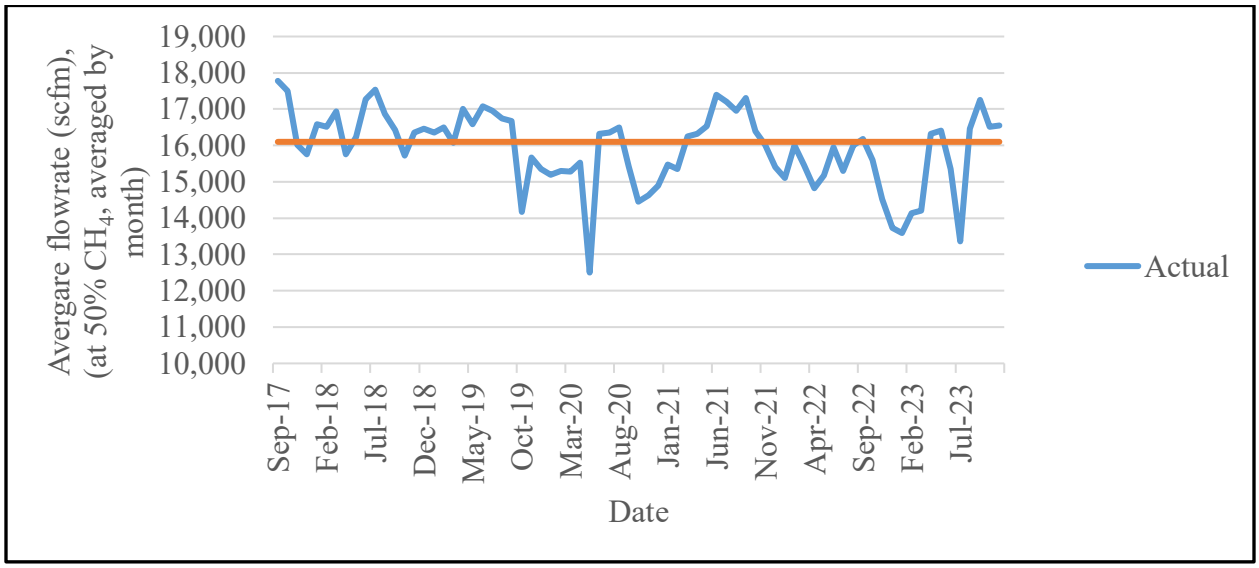


Figure 2-3
Collected and Combusted LFG, September 2017 – November 2023

Additionally, BFIC forecasts that the LFG generation rate at SCL will continue to increase until at least 2038 (see Figure 2-4). By 2038, the peak LFG generation rate is predicted to reach 32,392 scfm (at 50% CH4) before leveling off and gradually diminishing in subsequent years. Therefore, the current capacity of the SCL GCCS is insufficient to be able to accommodate these projected increases in LFG that will be generated and collected.

Therefore, to accommodate the additional LFG to be generated and collected by the GCCS and to continue to adequately control odors in the future, SCL is seeking to increase the number of flares and the site-wide quantity of LFG that can be collected and combusted.

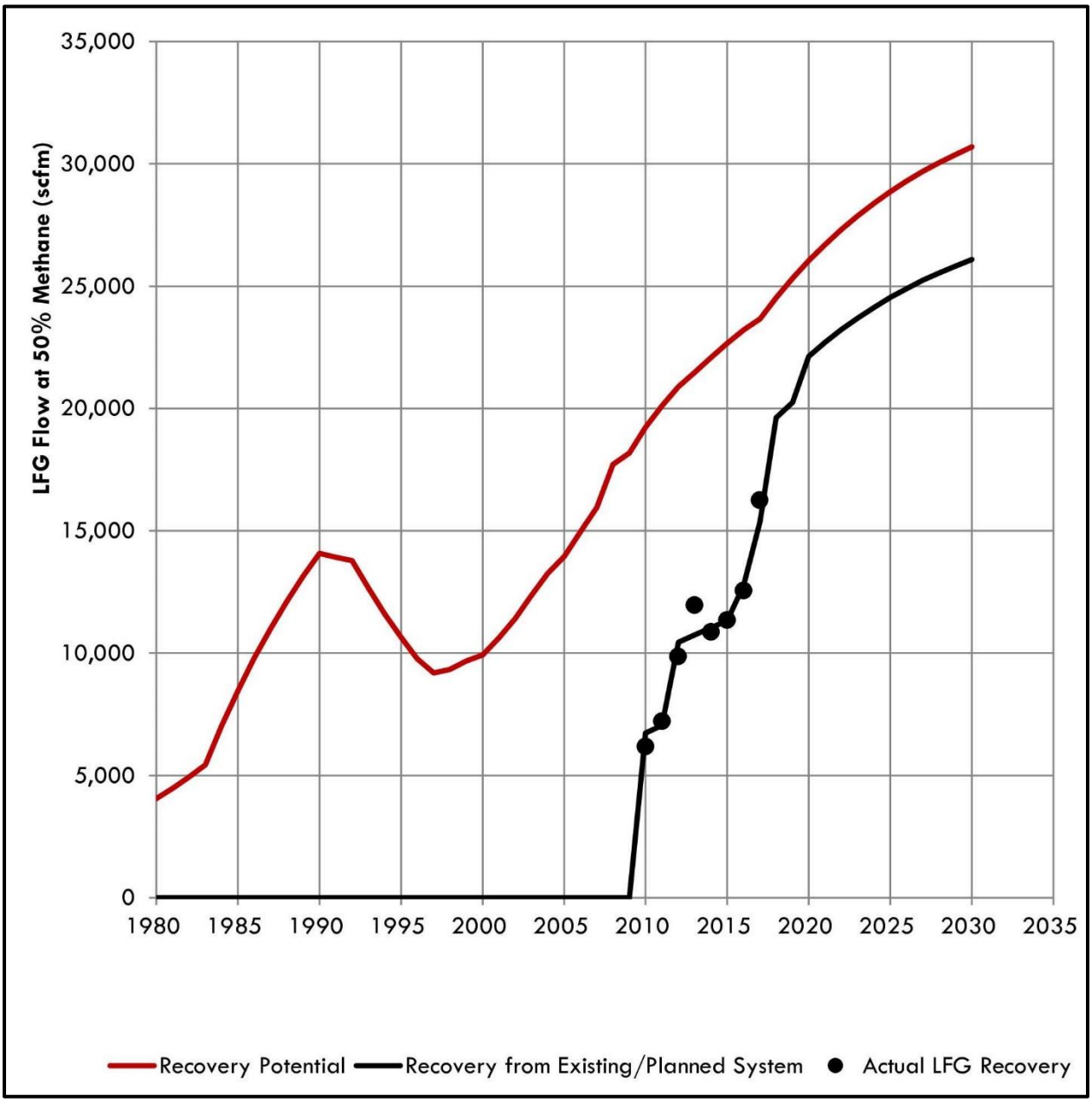


Figure 2-4
LFG Generation and Recovery Projection at Sunshine Canyon Landfill

2.6 PROPOSED PROJECT

The proposed SCL Flare Capacity Expansion Project includes the following modifications:

- Install and operate two new low emission flares (proposed Flares 12 and 13) and two new 300-hp electric blowers, and connect them to the existing GCCS.
- Revise the 2018 Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).

Proposed Flares 12 and 13 would be installed adjacent to existing Flares 9, 10, and 11. The proposed locations of Flares 12 and 13 are shown in Figure 2-5. The two additional electric blowers would be installed alongside six existing blowers on an existing blower skid system that is located adjacent to existing Flares 9, 10, and 11 and proposed Flares 12 and 13. The proposed new blowers would be necessary to ensure that sufficient vacuum would be available for the GCCS to collect LFG as needed in the future.

The proposed site-wide LFG combustion limit of 33,334 scfm (at 50% CH4), which represents the combined design capacity of the five existing flares plus two proposed new flares, is slightly greater than the 2038 forecasted peak LFG generation rate of 32,392 scfm (at 50% CH4) indicating that the Proposed Project will be capable of collecting peak levels of LFG. Table 2-3 shows the proposed LFG combustion limits for the five existing and two proposed new SCL flares.

Table 2-3
Proposed LFG Combustion Limits

Abatement Device [1]	South Coast AQMD Application No.	South Coast AQMD Permit No.	Maximum LFG Combustion Limit (scfm)	Maximum Heat Input (MMBtu/hr) [2]
Flare 1	537983	G19108	4,167	117
Flare 3	537984	G19109	4,167	117
Flare 9	526972	G45944	5,000	152
Flare 10	541300	G45946	5,000	152
Flare 11	570952	G44479	5,000	152
Flare 12 (new) [4]	598016	Pending	5,000	152
Flare 13 (new) [4]	Pending	Pending	5,000	152
Proposed Site-Wide LFG Combustion Limit			33,334 [3]	994

[1] Flares 12 and 13 are proposed new flares. There would be no change in permit limits for existing Flares 1, 3, 9, 10, and 11.
[2] The values displayed for rated heat input are based on the higher heating value (HHV). The values for Flares 1 and 3 were converted from LHV (as reported in Table 2-2) to HHV by multiplying by 1.113.
[3] At 50% CH4, averaged over 24 hours. This value represents the total capacity of the seven flares.
[4] Proposed flare assumed to be the same model as existing Flares 9, 10, and 11.

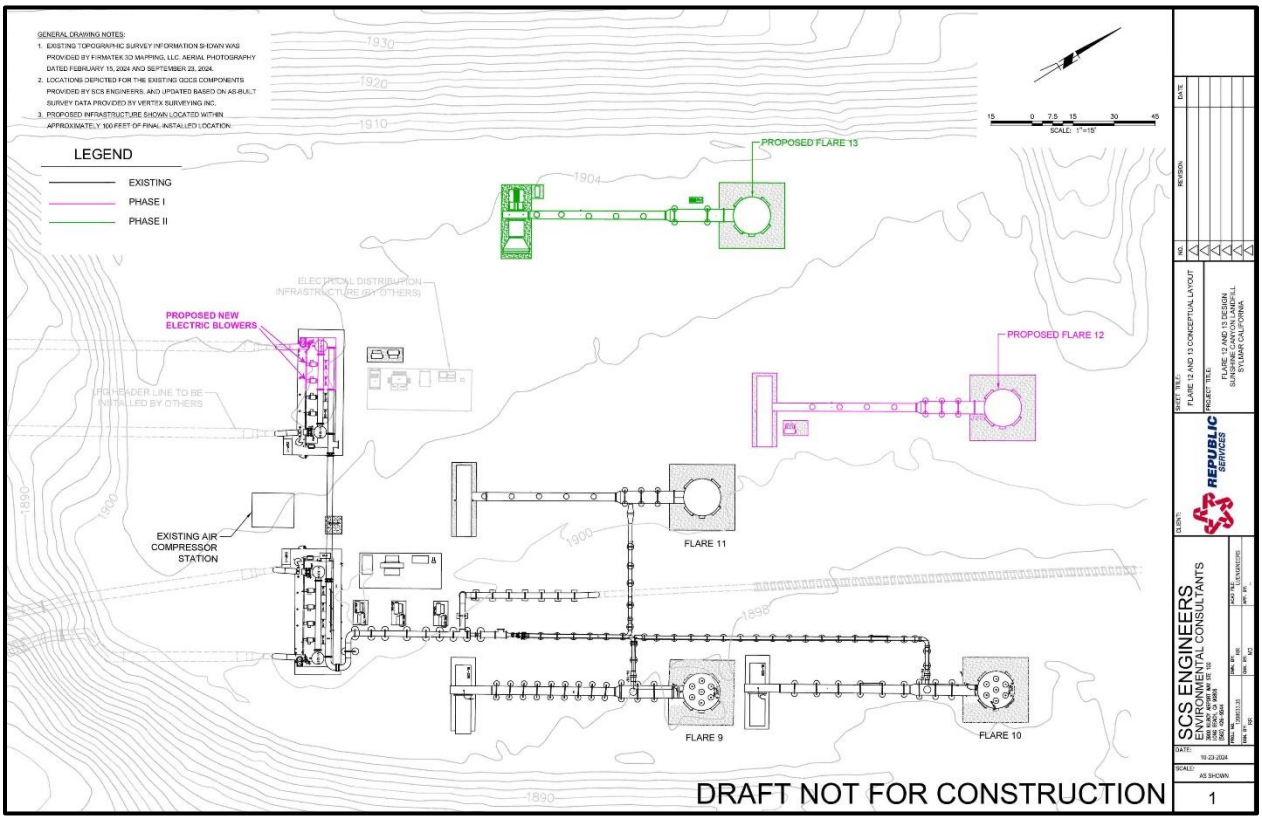


Figure 2-5
Locations of Proposed Flares 12 and 13 and Blowers

BFIC submitted permit applications to the South Coast AQMD as follows:

- Application Number (AN) 598016 on October 5, 2017 for proposed Flare 12 and an increase to the site-wide LFG combustion limit.
- AN 598017 on October 5, 2017 to incorporate the provisions of AN 598016 into a Title V permit revision.
- AN 599372 on December 5, 2017 to request an alternative monitoring plan for Rule 431.1.
- AN 599901 on January 5, 2018 to request higher temperature and oxygen percentage operating values for certain existing and new LFG collection wells, and for certain trench collectors to operate on a less than continuous basis.
- AN 599902 on January 5, 2018 to incorporate the provisions of AN 599901 into a Title V permit revision.
- AN 600144 on January 16, 2018 to install additional condensate/leachate storage tanks and to modify current equipment.
- AN 600148 on January 16, 2018 to incorporate the provisions of AN 600144 into a Title V permit revision.
- AN 632650 on October 27, 2021 to renew the facility's Title V permit.
- AN 652662 on May 16, 2024 for a Rule 1150 landfill excavation plan.
- AN 653659 on June 21, 2024 to incorporate the provisions of AN 652662 into a Title V permit revision.

- AN 655274 and 655275 on September 10, 2024 to install two diesel internal combustion engines that will replace existing propane internal combustion engines used to power two landfill tipper platforms.
- AN 655273 on September 10, 2024 to incorporate the provisions of AN 655274 and 655275 into a Title V permit revision.
- AN 657393, 657394, and 657396 on December 24, 2024 to update the common equipment listed in the equipment descriptions for existing Flares 9, 10, and 11. The common equipment will be new blowers that will be shared between Flares 9, 10, 11, and 12. The new blowers will also be shared with the future proposed Flare 13.
- AN 657397 on December 24, 2024 to incorporate the provisions of AN 657393, 657394 and 657396 into a Title V permit revision.

The permit applications are available upon request from South Coast AQMD. BFIC has not yet submitted permit applications for proposed Flare 13. The two proposed Flares 12 and 13 would both be ZULE enclosed flares of a like-model as existing Flares 9, 10, and 11, with the same maximum flow rate of 5,000 scfm. The flare design operating temperature would be 1,600 degrees Fahrenheit, which is the same design temperature for the five existing flares. The new flares would be designed to withstand wind speeds of up to 110 miles per hour. Each new flare station would include a variable frequency drive multiple-blower system and the following:

- An enclosed, carbon steel stack measuring approximately 13 feet in diameter and 70 feet in height (20 feet higher than the five existing flares);
- Burner management system including seven proprietary biogas burners with anti-flashback tips for high temperature corrosion resistance and maximum flame stability;
- An igniter assembly;
- Combustion air dampers providing air turndown control;
- Couplings with plug for accurate emission testing;
- Flame arrester mounted at the flare inlet;
- Automatic block valve assembly and fail-closed pneumatic actuator; and
- Combustion air blower with one combustion air blower for pre-mixing LFG with inlet silencer and filter.

Upon complete buildout of the Proposed Project, the main flare station near the northern end of the SCL property would have a total of five low emission John Zink ZULE flares (Flares 9, 10, 11, 12, and 13) and eight electric LFG blowers that would push gas to the flares and SGP facility. Additionally, Flare 3 would continue to operate near the western edge of the SCL site, and Flare 1 would continue to operate in the southern portion of the SCL site. With the proposed sitewide permitted flow rate of 33,334 scfm (at 50% CH4), the abatement of LFG generated at SCL could be handled by the operation of the SGP facility and the SCL flares (Flares 1, 3, 9, 10, 11, 12 and 13) concurrently, or by the SCL flares exclusively should the SGP facility shut down for maintenance or repairs.

The Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis. Neither the waste capacity nor the footprint of SCL would be expanded as part of this project. Other operational activities at SCL (such as waste handling, site maintenance, etc.) would continue without change.

Moreover, the Proposed Project would not include physical or operational modification of the existing SGP facility. The SGP facility would continue to use LFG from SCL in accordance with its current Title V permit, with or without the Proposed Project. Therefore, this SEIR does not include the SGP facility in the assessment of Proposed Project impacts. Rather, the Proposed Project was evaluated assuming that the five existing and two proposed new SCL flares would operate continuously at their proposed new site-wide permit limit of 33,334 scfm (at 50% CH4). This assumption is conservative because the SCL flares would only operate simultaneously near their maximum capacities when the SGP facility is offline and the LFG generation rate at SCL is at its forecasted peak.

2.7 CONSTRUCTION OF THE PROPOSED PROJECT

The Proposed Project would include the construction and operation of two new flares (Flares 12 and 13) and two new electric blowers at SCL. Construction of the flares would include installing piping and ancillary equipment as well as constructing the flare infrastructure. The flare infrastructure would consist of structural pads, piping, setting equipment, wiring, and programming. The flare stacks would be assembled from components delivered by truck to the site. No grading would be required for flare installation because the flare pad and access road to serve the flares already exist.

The two new electric blowers would be installed and connected to an existing blower skid system adjacent to existing Flares 9, 10, and 11 and proposed Flares 12 and 13. Construction of the blowers would involve installing a primary electrical service and installing piping and ancillary equipment. Installation of the electrical system would include trenching underground utilities, installing structural pads, setting equipment and wire, and energizing the switchgear. Installation of the piping and ancillary equipment would include constructing structural pads, installing piping, setting equipment, installing wiring, setting the programming, and conducting a flare startup.

Figure 2-6 shows the locations of the construction site and on-site access road that pertain to the Proposed Project.

The following offroad diesel equipment, or similar, would be used for Proposed Project construction:

- 1 excavator (164 hp);
- 1 telescopic boom lift (84 hp);
- 1 skip loader (23.5 hp);
- 1 backhoe (90 hp);
- 1 forklift (125 hp); and
- 1 75-ton crane (225 hp).

Construction would take approximately four months and is expected to begin by roughly July 2026, pending approval of this SEIR and issuance of the necessary permits to construct by the South Coast AQMD. Construction activities would normally occur Monday through Friday between the hours of 7:00 a.m. and 4:00 p.m. Approximately 12 onsite workers would be needed during construction.

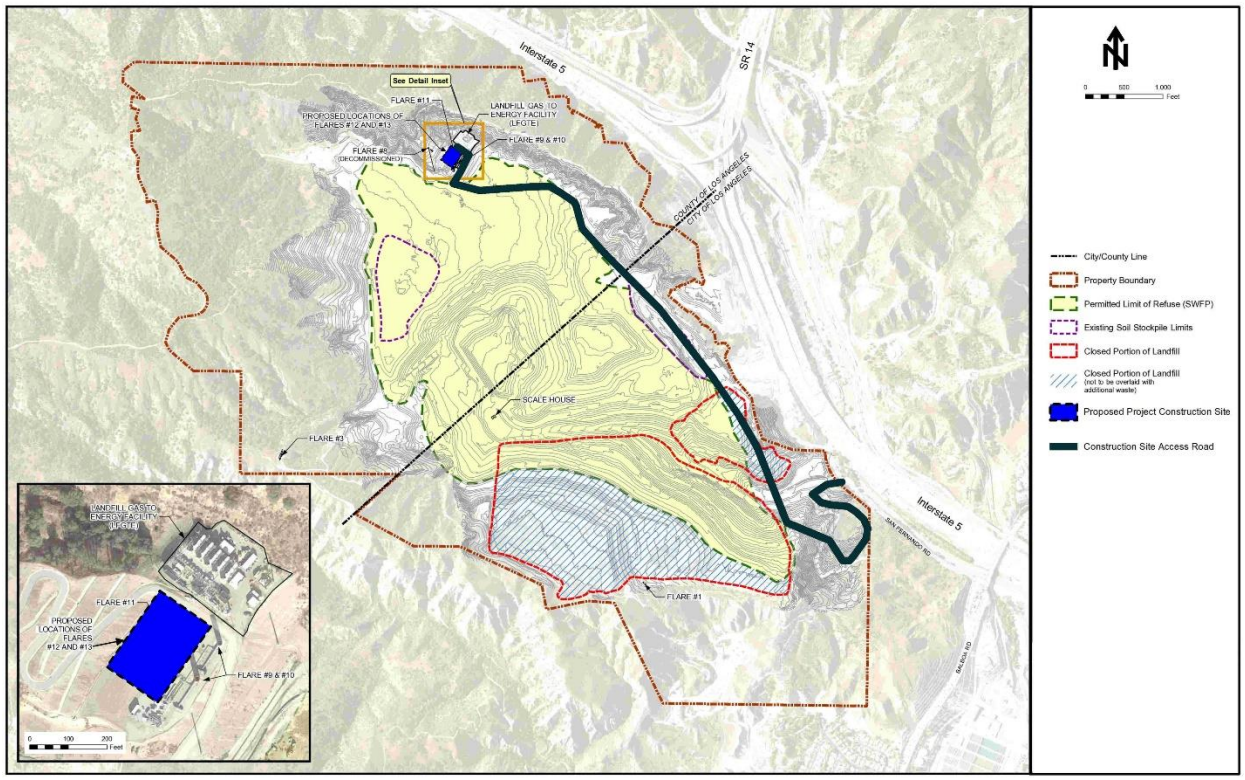


Figure 2-6
Location of Proposed Construction Activity

2.8 OPERATION OF PROPOSED PROJECT

Once construction activities associated with the Proposed Project are completed, operation of the proposed new flares and blowers would be conducted in accordance with a revised Title V permit for SCL. The new equipment would be kept in good operating condition at all times. Performance parameters identified by the manufacturer would be maintained by properly trained personnel. Routine maintenance would include four inspections per year for each new flare which will be conducted by the manufacturer. Weekly inspections and as-needed maintenance would be performed by the onsite LFG Operations and Maintenance Team. No additional staff would be required for the operation and maintenance of the new equipment.

As with the existing system, the proposed new gas flaring system would contain automatic shutdown and alarm systems and automatic combustion, air regulating, and temperature controls. The flare stacks would be designed to contain the flame internally within the stack. Emissions from the combustion process would be released into the atmosphere in accordance with South Coast AQMD rules, including Rule 402, Rule 1118.1, and Rule 1150.1. Each flare would have ports to sample raw gas and combustion emissions, evaluate performance, and fine-tune the flare system to maintain compliance with South Coast AQMD rules. As with the existing flares, each proposed new flare would undergo source testing at least every three years in accordance with South Coast AQMD source test procedures.

In accordance with South Coast AQMD Rule 1150.1, the LFG entering each flare would be analyzed by measuring its CH4 content. The test results would be recorded and provided to the

South Coast AQMD upon request. If a breakdown or malfunction of the LFG flare system results in the emission of raw gas, BFIC would be required to report the occurrence to South Coast AQMD's Compliance and Enforcement division in accordance with Rule 1150.1. Flare station safeguards would include the installation of an automatic alarm and notification system, automatic blower, and a LFG collection system automatic shutoff valve system. The alarms would provide indication of a flare flame-out, low flare stack temperature, high flare stack temperature, excessive vibration, or low blower discharge pressure and generally notify landfill personnel via auto dialer systems.

The new equipment would be operated in accordance with SCL's LFG management operations and maintenance standard operating procedures. The procedures include periodic inspections and servicing of the LFG equipment as well as the basis for maintaining the LFG system in good working order and a roadmap to follow if system breakdowns occur.

2.9 POST-CLOSURE MAINTENANCE, DECOMMISSIONING, AND GAS MANAGEMENT

The anticipated SCL closure date, when SCL reaches its permitted landfill waste limit, is 2038. The SCL closure will be guided by a U.S. EPA-approved Landfill Closure Plan that includes post closure air and ground water monitoring. In compliance with the closure plan for SCL, all structures not deemed essential for closure or post-closure maintenance of the landfill will be removed from the site. Facilities to remain in place after the SCL closure include the existing and proposed flares, the leachate treatment facility, and a small site trailer for post closure operations and maintenance.

The SCL facility will continue to produce LFG for many years after closure, as disposed waste continues to decompose. Geographical location, waste type, and climate all play a part in when the peak gas generation will occur at SCL. Current projections show that the LFG generation rate will reach its peak of 32,392 scfm (at 50% CH4, averaged over 24-hours) in 2038.

Following closure of the landfill, the quantity of generated LFG will slowly diminish over time. However, there will still be a need for collection and control of the diminishing LFG. Therefore, the GCCS and flares will be needed to control LFG for the foreseeable future. After the final cover system has been in place for at least 30 years, leachate and gas generation may have diminished to a point that LFG, the potential for fire, and odor generation would be adequately mitigated. At that time, the flares would be decommissioned and removed from the site.

2.10 PERMITS AND COMPLIANCE REQUIREMENTS

The Proposed Project would require discretionary approval from the South Coast AQMD. In addition, BFIC submits annual reports to the U.S. EPA to certify compliance with all Title V requirements, which are implemented by the South Coast AQMD under Regulation XXX – Title V Permits. The Proposed Project would require a South Coast AQMD Title V permit revision, which is subject to U.S. EPA and South Coast AQMD review. See "Regulation XXX – Title V Permits" in Section 3.2.6 for more explanation of Regulation XXX and Title V.

The existing SCL GCCS was designed and is operated to comply with federal, state, and South Coast AQMD LFG emission control requirements. Applicable federal requirements include

Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (Title 40 Code of Federal Regulations [CFR] Part 60, Subpart Cf); Federal Plan Requirements for Municipal Solid Waste Landfills (40 CFR Part 62, Subpart OOO); State Plans for Designated Facilities and Pollutants (40 CFR Part 62.1100[b][7]); and National Emission Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste Landfills (40 CFR Part 63, Subpart AAAA). The GCCS is also required to comply with the California Landfill Methane Regulation (LMR) (Title 17 California Code of Regulations Sections 95460, et seq.) which was adopted in 2010 as part of California's Climate Change initiatives. The federal requirements and the LMR regulate CH4 and non-methane organic compounds in LFG.

In addition, SCL must comply with the following South Coast AQMD rules:

- Rule 201 – Permit to Construct
- Rule 203 – Permit to Operate
- Rule 204 – Permit Conditions
- Rule 206 – Posting of Permit to Operate
- Rule 212 – Standards for Approving Permits
- Rule 217 – Provision for Sampling and Testing Facilities
- Rule 218 – Continuous Emissions Monitoring
- Rule 219 – Equipment Not Requiring a Written Permit Pursuant to Regulation II
- Rule 301 – Permitting and Associated Fees
- Rule 401 – Visible Emissions
- Rule 402 – Nuisance
- Rule 403 – Fugitive Dust
- Rule 404 – Particulate Matter – Concentration
- Rule 407 – Liquid and Gaseous Air Contaminants
- Rule 409 – Combustion Contaminants
- Rule 430 – Breakdown Provisions
- Rule 431.1 – Sulfur Content of Gaseous Fuels
- Rule 431.2 – Sulfur Content of Liquid Fuels
- Rule 1118.1 - Control of Emissions from Non-Refinery Flares
- Rule 1150 – Excavation of Landfill Sites
- Rule 1150.1 – Control of Gaseous Emissions from Municipal Solid Waste Landfills
- Regulation XIII – New Source Review, including key Rule 1303 – Requirements
- Rule 1401 – New Source Review of Toxic Air Contaminants
- Rule 1402 – Control of Toxic Air Contaminants from Existing Sources
- Regulation XXX – Title V Permits

Section 3.2.6 (Regulatory Setting) provides more detailed descriptions of key federal, state, and South Coast AQMD air quality-related rules, regulations, and policies that may apply to the Proposed Project.

In addition, the following is a summary of other agencies' rules, regulations, and permits under which SCL operates but would not require a discretionary action in response to the Proposed Project. Because the Proposed Project does not contain any components that would require a

discretionary action by these agencies to determine whether to carry out or approve the Proposed Project, these agencies are referred to as commenting agencies.

CalRecycle

As a Class III solid waste facility, SCL is required to have a solid waste facility permit (SWFP) issued by the Sunshine Canyon Landfill Local Enforcement Agency (SCL-LEA; see below) and concurred by CalRecycle. The SCL operates under SWFP No. 19-AR-2000. The Proposed Project would not require updates or modifications to the existing SWFP. The Proposed Project would allow for the continued operation of the GCCS in accordance with the LFG projections based on the CalRecycle waste-in-place tonnage and waste acceptance rates.

Los Angeles County Department of Regional Planning

The County of Los Angeles governs zoning and land development for the Proposed Project area. Surrounding land use areas are non-irrigated open space and commercial, residential, and suburban land. The Proposed Project would not require any changes in land use.

Los Angeles County Fire Department

According to the Los Angeles County Fire Department (LACFD), the northern portion of the SCL is in a "State Responsibility Area" (SRA) and the southern portion of the SCL is in a "Local Responsibility Area" (LRA) for fire protection responsibility. Both the SRA and LRA portions of the SCL are designated as "Very High" Fire Hazard Severity Zones. The Proposed Project would not require a discretionary action by the LACFD.

Los Angeles County Department of Public Health

The Los Angeles County Department of Public Health oversees public health and safety in Los Angeles County. The Proposed Project would not require individual approval by the department.

Los Angeles County Department of Public Works

The Los Angeles County Department of Public Works manages the San Fernando Groundwater Basin. The SCL is approximately two miles north of the Norman Retention Basin Surface. Water contained in the Van Norman Retention is used to recharge the San Fernando Groundwater Basin, as managed by the County Department of Public Works. The project would require notification to the County of Los Angeles Department of Public Works; however no significant grading approval would be required due to the proposed placement of the flares in a previously-graded area.

Regional Water Quality Control Board and Related Agencies

SCL operates in accordance with the Waste Discharge Requirements under General Permit No. CAS0000001 which was issued by the California State Water Resources Control Board pursuant to requirements of the National Pollutant Discharge Elimination System. The monitoring program was approved by the RWQCB. Additionally, the SCL is subject to a Department of Fish and Game 1603 Streambed Alteration Agreement No. R-5-2003-0005 as well as permit No. 2003-00408-AOA issued by the Army Corps of Engineers under section 404 of the Clean Water Act. The Proposed Project would not require updates or modifications to the existing RWQCB-related permits.

County of Los Angeles Department of Regional Planning and the Board of Supervisors
In 1993, City and County operations at the SCL site were combined into a single landfill. The CEQA process, at that time, culminated in the issuance of the 1993 Conditional Use Permit (CUP), Number 00-194-(5), with the allowance of the combined City and County landfills, identified as SCL. The Proposed Project would not require updates or modifications to the existing CUP.

City of Los Angeles Bureau of Sanitation
The SCL operates under a Wastewater Discharge Permit. The permit identifies the City of Los Angeles Bureau of Sanitation and U.S. EPA wastewater discharge limits. The Proposed Project would not require updates or modifications to the existing permit.

Sunshine Canyon Landfill Local Enforcement Agency
The Sunshine Canyon Landfill Local Enforcement Agency (SCL-LEA) is an entity that was created to be the primary local agency that provides the regulatory permitting, enforcement, and operational compliance oversight for the California Environmental Protection Agency's CalRecycle (formerly California Integrated Waste Management Board). The City of Los Angeles and the County of Los Angeles entered into a Joint Exercise of Powers Agreement for the creation of this new local enforcement agency, the SCL-LEA, in the County and City of Los Angeles. The Proposed Project, which includes a later anticipated closure date of 2038 and updates to the landfill gas monitoring and control plan with additional flare and blower information, would be incorporated into the Joint Technical Document through a Report of Facility Information Amendment, as appropriate.

2.11 FACILITY COMPLIANCE HISTORY

The South Coast AQMD tracks public odor and air pollution complaints via telephone (1-800-288-7664) and an online complaint reporting system (https://www.aqmd.gov/home/air-quality/complaints). South Coast AQMD inspectors must confirm odors in the presence of sufficient numbers of public complainants, each at their own residence or workplace. The inspectors then trace the odors to the operation of a unique source – excluding other potential sources via upwind and downwind surveillance – before enforcement action can be taken against the verified source of odors. Based on this evidence, a South Coast AQMD inspector may issue a Notice of Violation (NOV) against the source of nuisance odors for creating a public nuisance in violation of South Coast AQMD Rule 402 and Health and Safety Code Section 41700.

The communities adjacent to SCL have filed numerous complaints with the South Coast AQMD regarding odors from SCL operations. The volume of complaints increased substantially starting in 2009. From January 2009 through July 2025, South Coast AQMD received 18,395 odor complaints about SCL. After investigating, the South Coast AQMD issued 412 NOVs from 2013 through July 2025 regarding nuisance and odor, which are detailed on the South Coast AQMD's website:
https://www.aqmd.gov/home/news-events/community-investigations/sunshine-canyon-landfill.

In response to the increasing odor complaints, the South Coast AQMD held multiple hearings before its Hearing Board in December 2009, February 2010, and March 2010. The Hearing Board issued an Order for Abatement to SCL in March 2010 ("2010 Order for Abatement"), which was subsequently amended in July 2010 and January 2011. The 2010 Order for Abatement identified numerous factors as potential contributors to the odor issues including:

- Increases in delivered tonnage of trash;
- Size and location of the landfill working face;
- Monday morning deliveries containing trash that was picked up the prior Friday or Saturday, allowing decomposition to begin prior to disposal;
- Trash trucks on the mile long haul road emitting odors from both trash and leaking liquids;
- LFG emissions from either the surface of the landfill or LFG control equipment; and
- The type of cover on the working face.

The 2010 Order for Abatement required several corrective actions designed to reduce odors from the landfill including:

- Limit landfilling under certain wind conditions at certain times of day;
- Enhance waste cover at the working face;
- Implement a program designed to test odor reduction activities at the working face;
- Perform enhanced odor patrols;
- Reroute transfer trucks on Monday mornings and during adverse winds; and
- Replant lost vegetation.

SCL was also required to engage in a variety of studies aimed at better understanding the sources of odors from SCL, the transport of odors from SCL to the community, and potential odor reduction measures.

In addition to the 2010 Order for Abatement, the Los Angeles Department of Public Works (LADPW) required SCL to initiate various activities to reduce odors. For example, SCL was required to apply nine inches of compacted soil cover at the end of each day, without peeling back the prior day's cover, to permanently cover the working face. The requirement of permanent cover at the landfill working face negated some studies of mitigation measures and led, in part, to amendments of the 2010 Order for Abatement described earlier.

The Third Amendment to the 2010 Order for Abatement was issued on December 6, 2011. The amended Order for Abatement discussed, in detail, the impact of the performance of the LFG collection system on odors at SCL and imposed odor remediation measures, including:

- Install additional LFG collection wells;
- Install additional surface LFG monitoring;
- Perform an additional physical or computer modeling study;
- Hire corrective action managers at SCL;
- Hire an independent environmental consultant to monitor odors and other environmental parameters;
- Install a temporary new flare while processing permits to install Flare 9; and
- Conduct additional environmental monitoring.

SCL's compliance with the 2010 Order for Abatement corresponded with a reduction in odor complaints. But after a rising number of complaints in 2014 and 2015, South Coast AQMD filed a new petition for an Order for Abatement and held multiple hearings from August to November 2016. On December 15, 2016, the Hearing Board issued an SOA which required BFIC to address

claimed violations of Health and Safety Code, Section 41700 and South Coast AQMD Rule 402 relating to alleged landfill odors originating from the SCL facility. The 2016 SOA alleged that the odors were the result of insufficient gas collection, inadequate treatment of incoming daily waste, and inadequate daily and intermediate cover procedures. The 2016 SOA conditions included (summarized):

- Prohibit unloading and dumping of transfer trailer loads before 9 am;
- Implement a food waste and organics diversion program;
- Apply alternative daily cover (i.e., non-earthen material) in lieu of nine inches of compacted soil at the working face of the landfill;
- Place additional, intermediate cover materials on selected areas of the site; and
- Install additional LFG collection wells, collectors, and piping to deliver more LFG for combustion.

BFIC implemented an action plan that exceeded the requirements of the 2016 SOA. By the end of 2017, BFIC: (a) installed 150 new LFG collection wells; (b) installed 253 pumps in LFG wells to remove liquids in the wells and the landfill; (c) placed 21 acres of "closure turf" and 38.5 acres of spray-on "posi shell" cover on areas of the landfill approved by the SCL-LEA; (d) retrofitted mobile equipment to spray odor neutralizer on the working face during disposal operations; (e) installed systems at all BFIC-operated transfer stations to spray odor neutralizer on transfer van waste loads before the trucks depart for the landfill; and (f) placed eight rock-filled gabians (18 foot x 18 foot x 12 foot high) in new cells to prevent the future build up of liquids in the landfill. The 2016 SOA was modified several times in 2017, and the Hearing Board determined that SCL had met all conditions and increments of progress by June 2019, the end of the Order for Abatement period.

The enhancements made to the GCCS that were mandated by the 2016 SOA resulted in an increased LFG collection efficiency and gas flow to the SCL flares and SGP facility. The South Coast AQMD staff and counsel were advised by BFIC in the spring of 2017 that the enhancements would result in the SCL exceeding its Title V permit limit of 16,100 scfm (at 50 percent CH4). BFIC was advised to continue to collect and combust LFG in excess of the 16,100 scfm limit to control odors as required by the gas control measures described in the SOA. Since the issuance and expiration of the SOA, SCL has maintained an elevated sitewide flow of LFG (see Figure 2-3). Therefore, an increase to the permitted sitewide flow limit is necessary for the SCL to continue to meet the compliance requirements of South Coast AQMD Rule 1150.1, which requires a landfill to collect and control LFG generated to control potential surface emissions, air emissions, and odors.

BFIC submitted an application for proposed Flare 12 and an increase to the site-wide LFG combustion limit on October 5, 2017 (see Section 2.6 for more detail). Following the permit application submission, the South Coast AQMD notified BFIC on March 9, 2018, that a CEQA analysis will need to be completed to increase the LFG flow and to add new flares (proposed Flares 12 and 13).

In January 2023, following record-breaking rainfall, the number of odor complaints about the landfill from the nearby community increased substantially. While SCL took steps that initially resulted in a reduced number of complaints received, heavy rainfall from Tropical Storm Hilary in August 2023 lead to another surge in odor complaints. While SCL took steps that initially resulted

in a reduced number of complaints received, heavy rainfall from Tropical Storm Hilary in August 2023 led to another surge in odor complaints. The landfill has since implemented additional measures to improve landfill gas collection. However, a more comprehensive odor mitigation plan is necessary to address the ongoing impacts of wet conditions and erosion at the site. Overall, since January 2023, the South Coast AQMD has received over 4,000 odor complaints and issued more than 150 NOVs against the landfill for public nuisance violations.

Recently, in March 2025, the South Coast AQMD issued another OA compelling SCL to implement enhanced measures to address persistent odor issues affecting nearby communities. The 2025 OA mandated that the landfill operator take immediate and innovative actions to mitigate odors as below:

- **Microbiological Odor Prevention**: Implement aerobic microbiology solutions during waste operations, including at the working face, cover soil enhancements, and pretreatment at transfer stations, in order to reduce methane and associated "fresh trash" odors.
- **Enhanced Emissions Monitoring**: Utilize advanced technologies, such as drones and robotic vehicles, to identify potential odor sources and collect real-time data, including during evening hours.
- **Gas Movement Optimization**: Implement measures to assess and enhance gas movement and collection interconnectivity, including the use and placement of larger granular materials, such as gravel and crushed rock around landfill gas wells.
- **Daily Odor Patrols**: Conduct and document twice-daily patrols to identify odor sources and leachate seeps, and implement remedial measures upon discovery.
- **Front Entrance Odor Mitigation System:** Construct a front entrance berm with a misting system to create a visual and physical odor barrier.

These measures are designed to address the ongoing odor issues and improve air quality in the surrounding communities. The 2025 OA also requires the landfill operator to prepare a status report documenting implementation of the above measures and a status hearing, ~~currently scheduled for~~ was held on September 3, 2025 and it was reported that the facility was in compliance with all conditions. A subsequent status hearing is scheduled for May 27, 2026.

For context, Figure 3-9, presents the number of complaints reported to the South Coast AQMD from January 2005 through July 2025 alleging SCL as the source of the odors versus OAs and SOAs issued to SCL.

CHAPTER 3

EXISTING SETTING

3.1 Introduction

3.2 Air Quality and Greenhouse Gas Emissions

3.2.1 Regional Climate

3.2.2 Criteria Pollutants

3.2.3 Toxic Air Contaminants

3.2.4 Greenhouse Gases

3.2.5 Odors

3.2.6 Regulatory Setting

3.1 INTRODUCTION

To determine the significance of the impacts associated with a proposed project, it is necessary to evaluate the project's impacts against the backdrop of the environment as it exists at the time the environmental analysis is commenced. The CEQA Guidelines define "environment" as "the physical conditions that exist within the area which will be affected by a proposed project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historical or aesthetic significance." [CEQA Guidelines Section 15360; *see also* Public Resources Code Section 21060.5]. Furthermore, a CEQA document must include a description of the physical environment in the vicinity of the project, as it exists at the time the environmental analysis is commenced, from both a local and regional perspective [CEQA Guidelines Section 15125]. Therefore, the "environment" or "existing setting" against which a project's impacts are compared consists of the immediate, contemporaneous physical conditions at and around the project site. (Remy, et al; 1996).

The following sections summarize the existing setting for air quality and GHGs, which are the only environmental areas that may be adversely affected by the Proposed Project.

3.2 AIR QUALITY AND GREENHOUSE GAS EMISSIONS

3.2.1 Regional Climate

The Proposed Project is located within the South Coast Air Basin (Basin), which is a sub-region of the South Coast AQMD's jurisdiction. The Basin is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto mountains to the north and east. It includes all of Orange County and major portions of Los Angeles, Riverside, and San Bernardino counties.

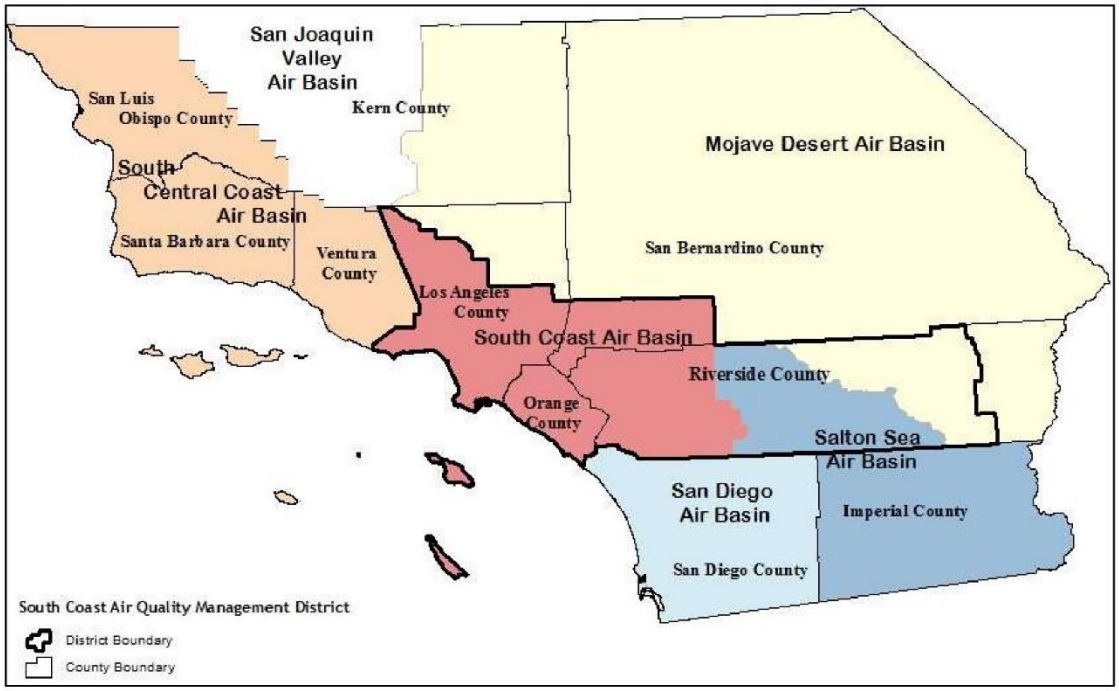


Figure 3-1
South Coast Air Basin

Meteorological Conditions

The climate in the Basin is generally characterized by cool, occasionally wet winters and warm, dry summers tempered by cool ocean breezes. This mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, and Santa Ana winds. A temperature inversion, which is a warm layer of air that traps cooler marine air underneath it and prevents vertical mixing, is often present and causes air pollution to accumulate. Southern California also has abundant sunshine, which drives the photochemical reactions that form ozone and a significant portion of fine particulate matter. The high concentration of mobile and stationary sources of air contaminants in the western portion of the Basin, in addition to the mountains, which surround the perimeter of the Basin, contribute to air quality challenges in the region.

Temperature and Rainfall

Temperature affects the air quality of the region in several ways. Local winds are the result of temperature differences between the relatively stable ocean air and the uneven heating and cooling that take place in the Basin due to a wide variation in topography. Temperature also has a major effect on the vertical mixing height and affects the chemical reaction times for photochemical pollutants such as ozone. Monthly average minimum and maximum temperatures at the project site generally range between 42 and 93 degrees Fahrenheit (°F), and overall minimum and maximum temperatures of 23 °F and 113 °F have been measured. Most of the annual rainfall in the Basin occurs from November through April. Annual average rainfall varies from nine to 14 inches, depending on the location.

Wind Flow Patterns

Wind flow patterns play an important role in the transport of air pollutants in the Basin. During the daytime hours, a sea breeze usually develops, where the surface winds generally flow from the ocean toward the land. In summer, the sea breeze starts in mid-morning, peaks at 10 to 15 miles per hour (mph), and subsides after sundown. There is a calm period until about midnight. At that time, the winds typically reverse, and a gentle land breeze begins (wind flow from the land toward the ocean), typically becoming calm again about sunrise. In winter, the same general wind flow patterns exist except that the daytime sea breeze is typically weaker than in summer and the nighttime land breeze is typically stronger than in summer. This diurnal recirculating wind pattern is a major factor that allows pollutants to accumulate in the Basin. This normal wind pattern is occasionally interrupted by unstable air associated with passing storms during the winter and infrequent strong northeasterly Santa Ana wind flows from the mountains and deserts north of the district during the fall and winter. The overall average wind speed at the Proposed Project site is 9.9 mph with a maximum one-hour measurement of 45 mph.

Figure 3-2 shows wind roses for the three meteorological stations nearest to SCL for which the South Coast AQMD compiles data for dispersion modeling purposes. Each wind rose reflects the five most recent years of meteorological data that met completeness and validity criteria (South Coast AQMD, 2024a). The three depicted wind roses are for Santa Clarita (SCLR), Van Nuys Airport (KVNY), and Hollywood Burbank Airport (KBUR). Each "petal" on a wind rose indicates the frequency of winds blowing *from* the indicated direction, by wind speed category. All three wind roses show that the most frequent wind direction is from the south or southeast (i.e., toward the north or northwest).

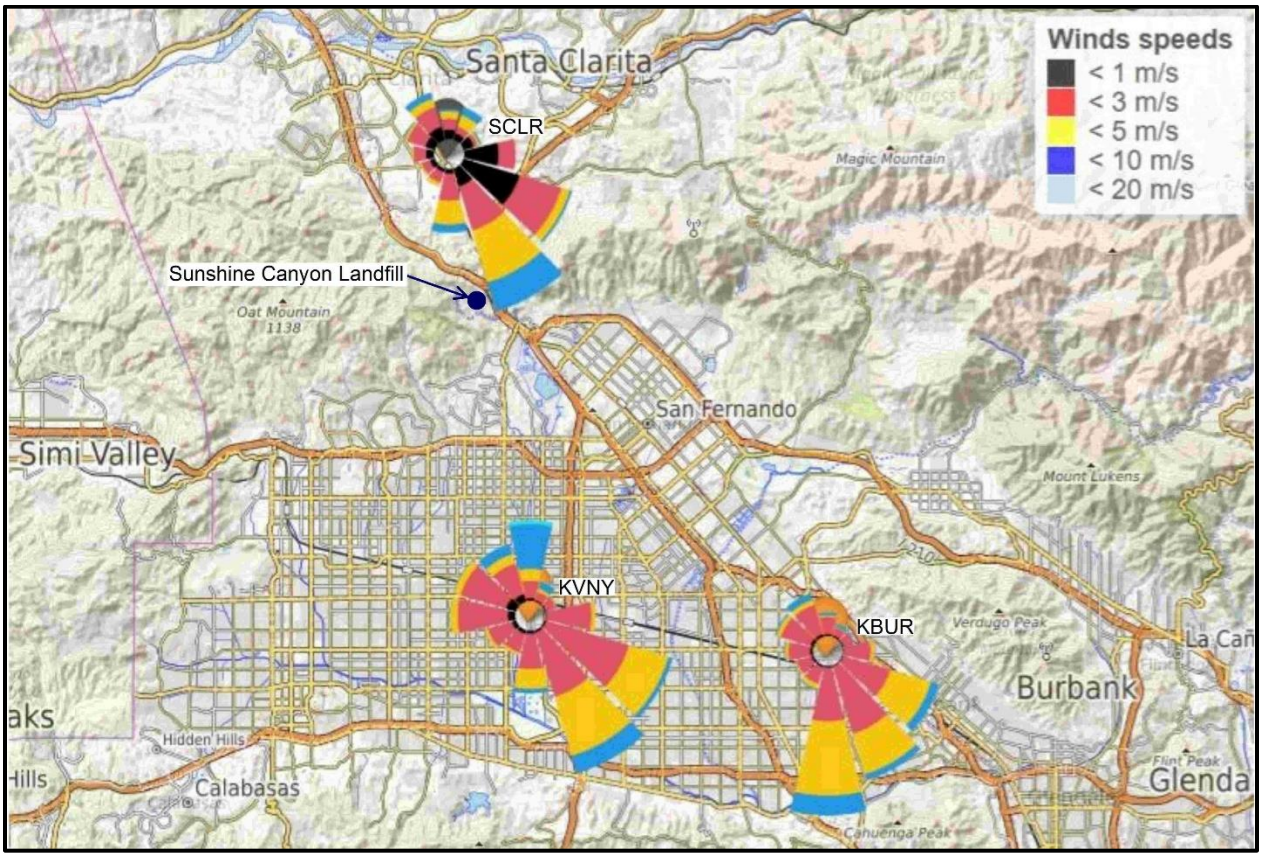


Figure 3-2
Wind Roses for Nearest Meteorological Stations

Legend: SCLR = Santa Clarita; KVNY = Van Nuys Airport; KBUR = Hollywood Burbank Airport; m/s = meters per second.
Source: South Coast AQMD, 2024a.

3.2.2 Criteria Pollutants

The sources of air contaminants in the South Coast AQMD's jurisdiction vary by pollutant, but generally include on-road mobile sources (e.g., automobiles, trucks, and buses), off-road mobile sources (e.g., airplanes, ships, trains, construction equipment, etc.), residential/commercial sources, and industrial/manufacturing sources. Criteria air pollutants are those pollutants for which the federal and state governments have established ambient air quality standards or criteria for outdoor concentrations to protect public health with a margin of safety. National Ambient Air Quality Standards (NAAQS) were first authorized by the federal Clean Air Act (CAA) of 1970 and have been set by the U.S. EPA. California Ambient Air Quality Standards (CAAQS) were authorized by the state legislature in 1967 and have been set by the California Air Resources board (CARB). CAAQS and NAAQS have been established for ozone, CO, NO2, particulate matter with an aerodynamic diameter of less than 10 microns (PM10), particulate matter with an aerodynamic diameter less than 2.5 microns (PM2.5), SO2, and lead. California has also established standards for sulfates, visibility reducing particles, hydrogen sulfide (H2S), and vinyl chloride.

Ambient Air Quality Standards
The current CAAQS and NAAQS are presented in Table 3-1. The table also summarizes known potential effects on human health associated with elevated concentrations of the regulated

pollutants. The South Coast AQMD is responsible for ensuring that the CAAQS and NAAQS are achieved and maintained in its geographical jurisdiction.

Table 3-1
State and National Ambient Air Quality Standards

Pollutant	Averaging Time	California Standard[a]	National Primary Standard[b]	Most Relevant Effects
Ozone (O_3)	1-hour	0.09 ppm (180 µg/m^3)	0.12 ppm	(a) Short-term exposures: 1) Pulmonary function decrements and localized lung edema in humans and animals; and 2) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (b) Long-term exposures: Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (c) Vegetation damage; and (d) Property damage.
	8-hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	
Suspended Particulate Matter (PM10)	24-hour	50 µg/m^3	150 µg/m^3	(a) Excess deaths from short-term exposures and exacerbation of symptoms in sensitive patients with respiratory disease; and (b) Excess seasonal declines in pulmonary function, especially in children.
	Annual Arithmetic Mean	20 µg/m^3	No Federal Standard	
Suspended Particulate Matter (PM2.5)[c]	24-hour	No State Standard	35 µg/m^3	(a) Increased hospital admissions and emergency room visits for heart and lung disease; (b) Increased respiratory symptoms and disease; and (c) Decreased lung functions and premature death.
	Annual Arithmetic Mean	12 µg/m^3	9 µg/m^3	
Carbon Monoxide (CO)	1-Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
	8-Hour	9 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	
Nitrogen Dioxide (NO_2)[d]	1-Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	
Sulfur Dioxide (SO_2)[e]	1-Hour	0.25 ppm (655 µg/m^3)	75 ppb (196 µg/m^3)	Broncho-constriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
	24-Hour	0.04 ppm (105 µg/m^3)	No Federal Standard	

Table 3-1 (concluded)
State and National Ambient Air Quality Standards

Pollutant	Averaging Time	California Standard[a]	National Primary Standard[b]	Most Relevant Effects
Sulfates	24-Hour	25 µg/m^3	No Federal Standard	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; and (f) Property damage.
Hydrogen Sulfide (H_2S)	1-Hour	0.03 ppm (42 µg/m^3)	No Federal Standard	Odor annoyance.
Lead (Pb)	30-Day Average	1.5 µg/m^3	No Federal Standard	(a) Increased body burden (concentration of lead stored in the body); and (b) Impairment of blood formation and nerve conduction.
	Calendar Quarter	No State Standard	1.5 µg/m^3	
	Rolling 3-Month Average	No State Standard	0.15 µg/m^3	
Visibility Reducing Particles	8-Hour	Extinction coefficient of 0.23 per kilometer - visibility of 10 miles or more due to particles when relative humidity is less than 70 percent.	No Federal Standard	The statewide standard is intended to limit the frequency and severity of visibility impairment due to regional haze. This is a visibility-based standard, not a health-based standard. Nephelometry and AISI Tape Sampler; instrumental measurement on days when relative humidity is less than 70 percent.
Vinyl Chloride	24-Hour	0.01 ppm (26 µg/m^3)	No Federal Standard	Highly toxic and a known carcinogen that causes a rare cancer of the liver.

ppb = parts per billion parts of air, by volume
ppm = parts per million parts of air, by volume
µg/m3 = micrograms per cubic meter
mg/m3 = milligrams per cubic meter

[a] The California standards for O3, CO, SO2 (1-hour and 24-hour), NO2, PM10, PM2.5, and visibility reducing particles are values not to be exceeded. All other California standards shown are values not to be equaled or exceeded. Source: CARB, 2024b.

[b] National primary standards are the levels of air quality necessary, with an adequate margin of safety, to protect public health. The standards, other than O3, PM10, PM2.5, and those based on annual averages, are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Source: U.S. EPA, 2024.

[c] The form of the annual national standard for PM2.5 is the annual mean, averaged over 3 years.

[d] To attain the 1-hour national standard for NO2, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb.

[e] To attain the 1-hour national standard for SO2, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb.

Criteria Pollutant Descriptions

Carbon Monoxide

CO is a primary pollutant, meaning that it is directly emitted into the air rather than formed in the atmosphere by chemical reaction of precursors, as is the case with ozone and other secondary

pollutants. Ambient concentrations of CO in the Basin exhibit large spatial and temporal variations due to variations in the rate at which CO is emitted and in the meteorological conditions that govern transport and dilution. Unlike ozone, CO tends to reach high concentrations in the fall and winter months. The highest concentrations frequently occur on weekdays at times consistent with rush hour traffic and late night during the coolest, most stable portion of the day.

Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise and electrocardiograph changes indicative of worsening oxygen supply to the heart.

Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with oxygen transport by competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include patients with diseases involving heart and blood vessels, fetuses, and patients with chronic hypoxemia (oxygen deficiency) as seen in high altitudes.

Reductions in birth weight and impaired neurobehavioral development have been observed in animals chronically exposed to CO resulting in COHb levels similar to those observed in smokers. Recent studies have found increased risks for adverse birth outcomes with exposure to elevated CO levels. These include preterm births and heart abnormalities.

Ozone

Ozone (O3), a colorless gas with a sharp odor, is a highly reactive form of oxygen. High ozone concentrations exist naturally in the stratosphere. Some mixing of stratospheric ozone downward through the troposphere to the earth's surface does occur; however, the extent of ozone transport is limited. At the earth's surface in sites remote from urban areas ozone concentrations are normally very low (e.g., from 0.03 ppm to 0.05 ppm).

The propensity of ozone for reacting with organic materials causes it to be damaging to living cells. Ambient ozone concentrations in the Basin are frequently sufficient to cause health effects. Ozone enters the human body primarily through the respiratory tract and causes respiratory irritation and discomfort, makes breathing more difficult during exercise, and reduces the respiratory system's ability to remove inhaled particles and fight infection.

Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible subgroups for ozone effects. Short-term exposures (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. In recent years, a correlation between elevated ambient ozone levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple sports and live in high ozone communities. Elevated ozone levels are also associated with increased school absences.

Ozone exposure under exercising conditions is known to increase the severity of the above-mentioned observed responses. Animal studies suggest that exposure to a combination of pollutants which include ozone may be more toxic than exposure to ozone alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures,

biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.

Nitrogen Dioxide

NO2 is a reddish-brown gas with a bleach-like odor. Nitric oxide (NO) is a colorless gas, formed from the nitrogen and oxygen in air under conditions of high temperature and pressure which are generally present during combustion of fuels. NO reacts rapidly with the oxygen in air to form NO2. NO2 is responsible for the brownish tinge of polluted air. The two gases, NO and NO2, are referred to collectively as NOx. In the presence of sunlight, NO2 reacts to form nitric oxide and an oxygen atom. The oxygen atom can react further to form ozone, via a complex series of chemical reactions involving hydrocarbons. Nitrogen dioxide may also react to form nitric acid which reacts further to form nitrates, which are components of PM2.5 and PM10.

Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposures to NO2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma and/or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these subgroups. More recent studies have found associations between NO2 exposures and cardiopulmonary mortality, decreased lung function, respiratory symptoms, and emergency room asthma visits.

In animals, exposure to levels of NO2 considerably higher than ambient concentrations results in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO2.

Sulfur Dioxide

SO2 is a colorless gas with a sharp odor. It reacts in the air to form sulfuric acid (H2SO4), which contributes to acid precipitation, and sulfates, which are components of PM10 and PM2.5. Most of the SO2 emitted into the atmosphere is produced by burning sulfur-containing fuels.

Exposure of a few minutes to low levels of SO2 can result in airway constriction in some asthmatics. All asthmatics are sensitive to the effects of SO2. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, is observed after acute higher exposure to SO2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO2.

Animal studies suggest that despite being a respiratory irritant, SO2 does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO2 levels. In these studies, efforts to separate the effects of SO2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.

Particulate Matter (PM10 and PM2.5)

Of great concern to public health are particles small enough to be inhaled into the deepest parts of the lung. Particulate matter less than 10 microns (PM10) and particulate matter less than 2.5 microns (PM2.5) can accumulate in the respiratory system and aggravate health problems such as asthma, bronchitis, and other lung diseases. Children, the elderly, exercising adults, and those suffering from asthma are especially vulnerable to adverse health effects of PM10 and PM2.5.

A consistent correlation between elevated ambient fine particulate matter (PM2.5) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks, and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. Studies have reported an association between long-term exposure to air pollution dominated by PM2.5 and increased mortality, reduction in lifespan, and increased mortality from lung cancer.

Daily fluctuations in fine particulate matter concentration levels have also been related to hospital admissions for acute respiratory conditions, school and kindergarten absences, a decrease in respiratory function in normal children, and increased medication use in children and adults with asthma. Studies have also shown that lung function growth in children is reduced with long-term exposure to particulate matter. In addition to children, the elderly and people with preexisting respiratory and/or cardiovascular disease appear to be more susceptible to the effects of PM10 and PM2.5.

Lead

Lead in the atmosphere is present as a mixture of several lead compounds. Leaded gasoline and lead smelters have been the main sources of lead emitted into the air. Due to the phasing out of leaded gasoline, there was a dramatic reduction in atmospheric lead in the Basin over the past three decades.

Lead has been observed to produce adverse health effects at ambient concentrations. Lead is also deemed a carcinogenic toxic air contaminant (TAC) by the Office of Environmental Health Hazard Assessment (OEHHA). Fetuses, infants, and children are more sensitive than others to the adverse effects of lead exposure. Exposure to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

Lead poisoning can cause anemia, lethargy, seizures, and death. It appears that there are no direct effects of lead on the respiratory system. Lead can be stored in the bone from early-age environmental exposure, and elevated blood lead levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland), and osteoporosis (breakdown of bone tissue). Fetuses and breast-fed babies can be exposed to higher levels of lead because of previous environmental lead exposure of their mothers.

Stringent South Coast AQMD Rules 1420.1 (Emission Standards for Lead and Other Toxic Air Contaminants from Large Lead-Acid Battery Recycling Facilities), 1420.2 (Emission Standards for Lead from Metal Melting Facilities), and 1420 (Emissions Standard for Lead) govern lead-producing sources to ensure that there will be no future violations of the CAAQS or NAAQS. Furthermore, one business that had been responsible for the highest measured lead concentrations in Los Angeles County has closed and is in the process of demolition and site clean-up.

Sulfates

Sulfates are chemical compounds which contain the sulfate ion and are part of the mixture of solid materials which make up PM10. Most of the sulfates in the atmosphere are produced by oxidation of SO2. Oxidation of sulfur dioxide yields sulfur trioxide, which reacts with water to form sulfuric acid, which then contributes to acid deposition. The reaction of sulfuric acid with basic substances such as ammonia yields sulfates, a component of PM10 and PM2.5.

Most of the health effects associated with fine particles and SO2 at ambient levels are also associated with sulfates. Thus, both mortality and morbidity effects have been observed with an increase in ambient sulfate concentrations. However, efforts to separate the effects of sulfates from the effects of other pollutants have generally not been successful.

Clinical studies of asthmatics exposed to sulfuric acid suggest that adolescent asthmatics are possibly a subgroup susceptible to acid aerosol exposure. Animal studies suggest that acidic particles such as sulfuric acid aerosol and ammonium bisulfate are more toxic than nonacidic particles like ammonium sulfate. Whether the effects are attributable to acidity or to particles remains unresolved.

Vinyl Chloride

Vinyl chloride is a colorless, flammable gas at ambient temperature and pressure. It is also highly toxic and is classified by the American Conference of Governmental Industrial Hygienists as A1 (confirmed carcinogen in humans) and by the International Agency for Research on Cancer as 1 (known to be a human carcinogen). (Air Gas, 2010.) At room temperature, vinyl chloride is a gas with a sickly-sweet odor. It is easily condensed and is commonly stored as a liquid. Due to the hazardous nature of vinyl chloride to human health, there are no end products that use vinyl chloride in its monomer form. Vinyl chloride is a chemical intermediate, not a final product. It is an important industrial chemical chiefly used to produce polyvinyl chloride (PVC). Vinyl chloride is also present in uncombusted landfill gas.

Volatile Organic Compounds

Although volatile organic compounds (VOC) are not a criteria pollutant and therefore have no CAAQS or NAAQS, VOC emissions are involved in the photochemical reactions that contribute to the formation of ozone. VOC emissions are also transformed into organic aerosols in the atmosphere, contributing to higher PM10 and lower visibility levels.

Health effects can occur from exposures to high concentrations of VOC because of interference with oxygen uptake. In general, ambient VOC concentrations in the atmosphere are suspected to cause coughing, sneezing, headaches, weakness, laryngitis, and bronchitis, even at low concentrations. Some hydrocarbon components classified as VOC emissions are thought or known to be hazardous. For example, benzene, a hydrocarbon component of VOC, is known to be a human carcinogen.

Regional Air Quality

In the Basin, high ozone levels are typically observed from April through October, when longer days and more intense sunlight drive the photochemical reactions involving VOC and NOx that form ozone. Elevated PM10 and PM2.5 concentrations can occur in the Basin throughout the year. High PM10 levels are typically caused by windblown dust and are associated with high wind events. PM2.5 is both directly emitted (primary PM2.5) and formed in the atmosphere (secondary PM2.5) from the reaction of gas-phase precursors (i.e., NOx, SOx, ammonia, and VOC). Most

PM2.5 in the Basin is formed from secondary processes. High PM2.5 levels tend to occur most frequently in fall and winter when stagnant conditions trap pollutants and enhance formation of PM2.5 in the atmosphere. (South Coast AQMD, 2022).

Area sources, including architectural coatings and consumer products subcategories, account for 46 percent of VOC emissions in the Basin. Mobile sources account for 46 percent of VOC emissions, 85 percent of NOx emissions, and 89 percent of CO emissions. On-road mobile sources, a subcategory of mobile sources, contribute over 20 percent and 44 percent of VOC and NOx emissions, respectively. For directly emitted PM2.5, mobile sources represent 29 percent of total emissions with an additional 18 percent from vehicle-related entrained dust from paved and unpaved roads. Stationary sources are responsible for most of the SOx emissions in the Basin, with the point source subcategory (i.e., larger facilities subject to annual emissions reporting requirements) contributing 49 percent of total SOx emissions. Non-vehicle related area sources such as commercial cooking are the predominant source of directly emitted PM2.5 emissions, contributing 41 percent of total emissions. (South Coast AQMD, 2022).

The South Coast AQMD operates a network of ambient air pollutant monitoring stations throughout the Basin. CARB operates additional monitoring stations. A region is designated as attainment of the air quality standards if the measured concentrations of air pollutants are continuously equal to or less than the standards over the previous three-year period.

Table 3-2 lists the current attainment status of the Basin for each criteria pollutant. For ozone and PM2.5, the Basin is currently designated as nonattainment of both the CAAQS and NAAQS. For PM10, the Basin is designated as nonattainment of the CAAQS but attainment of the NAAQS. For lead, a portion of Los Angeles County is designated as nonattainment of the NAAQS but attainment of the CAAQS. The South Coast AQMD identified a large lead-acid battery recycling facility as the main contributor to the area's federal nonattainment status. For CO, NO2, SO2, and sulfates, the Basin is designated as attainment of both the CAAQS and NAAQS (where applicable). H2S and vinyl chloride currently are not monitored in the Basin; the South Coast AQMD does not consider them to behave as regional air pollutants because they are generally associated with localized emission sources.

If an area is designated as nonattainment of the NAAQS, the State is required to submit a State Implementation Plan (SIP) demonstrating compliance with a series of CAA requirements. The California Lewis Air Quality Act (now known as the Lewis-Presley Air Quality Management Act) requires that the South Coast AQMD prepare an air quality management plan (AQMP) consistent with federal planning requirements. The CAA was amended in 1990 to specify NAAQS attainment dates and SIP requirements for ozone, CO, NO2, and PM10. The California Clean Air Act (CCAA), adopted in 1988, requires the South Coast AQMD to endeavor to achieve and maintain the CAAQS for ozone, CO, SO2, and NO2 by the earliest practicable date (Health and Safety Code Section 40910), and establishing requirements to update the plan periodically. The first AQMP was prepared and adopted by the South Coast AQMD in 1979 and has been updated and revised several times. The CCAA requires a three-year plan review and update to the AQMP. The current AQMP is the 2022 Air Quality Management Plan (South Coast AQMD, 2022).

Table 3-2
Attainment Status of the South Coast Air Basin

Pollutant	Averaging Period	CAAQS Attainment Status	NAAQS Attainment Status
Ozone	1-Hour	Nonattainment	Nonattainment
	8-Hour	Nonattainment	Nonattainment
PM10	24-Hour	Nonattainment	Attainment
	Annual	Nonattainment	-- [1]
PM2.5	24-Hour	-- [1]	Nonattainment
	Annual	Nonattainment	Nonattainment
CO	1-Hour	Attainment	Attainment
	8-Hour	Attainment	Attainment
NO2	1-Hour	Attainment	Attainment
	Annual	Attainment	Attainment
SO2	1-Hour	Attainment	Attainment
	24-Hour	Attainment	-- [1]
Lead	30-Day	Attainment	-- [1]
	3-Month Rolling	-- [1]	Nonattainment [2]
Sulfates	24-Hour	Attainment	-- [1]
H2S	1-Hour	Unclassified [3]	-- [1]

Source: South Coast AQMD. 2022 Air Quality Management Plan. December 2, 2022. Chapter 2, Tables 2-3 (NAAQS) and 2-5 (CAAQS). Available: https://www.aqmd.gov/home/air-quality/air-quality-management-plans/air-quality-mgt-plan.
Notes:
[1] No AAQS exists.
[2] The nonattainment designation is for the Los Angeles County portion of the Basin only for near-source monitors.
[3] The air basin may be nonattainment in a portion of the Coachella Valley due to odor issues related to the Salton Sea.

Local Air Quality

Table 3-3 provides ambient pollutant concentrations for the last three years available (2021-2023) observed at the AQMD or CARB monitoring stations closest to the Proposed Project location. The most representative monitoring station is the Santa Clarita Valley station because it and the proposed new flares are in the same "Source-Receptor Area" mapped by the South Coast AQMD (specifically, SRA 13). The concentrations of ozone, CO, NO2, and PM10 shown in the table were obtained from the Santa Clarita Valley station. Concentrations of PM2.5 were not measured at the Santa Clarita Valley station and therefore were obtained from the West San Fernando Valley station (in SRA 6, which includes the City portion of SCL). Concentrations of SO2, lead, and sulfates were not measured at the Santa Clarita Valley station or the West San Fernando Valley station and therefore were obtained from the Central LA station (SRA 1). The table does not include H2S because there is no background monitor in the project vicinity.

The data in Table 3-3 show that local ambient 1-hour ozone concentrations in the Proposed Project area exceeded the CAAQS on some days in all three years (2021-2023). Local ambient 8-hour ozone concentrations exceeded both the CAAQS and NAAQS on some days in all three years (2021-2023). Local ambient 24-hour PM2.5 concentrations exceeded the NAAQS on 3 percent of days in 2021 and on zero days in 2022 and 2023. The local ambient annual PM2.5 concentration exceeded the NAAQS in 2021 but not in 2022 or 2023. Concentrations of all other pollutants were below their respective standards.

Table 3-3
Maximum Observed Ambient Pollutant Concentrations
in the Proposed Project Area

Pollutant [a]	2021	2022	2023
Ozone: 1-Hour (ppm)	0.125*	0.129*	0.133*
No. of days CAAQS exceeded	(30)	(28)	(26)
8-Hour (ppm)	0.103*	0.114*	0.115*
No. of days NAAQS exceeded	(61)	(66)	(55)
No. of days CAAQS exceeded	(63)	(68)	(57)
CO:			
1-Hour (ppm)	1.0	1.5	1.1
8-Hour (ppm)	0.7	0.6	0.6
NO2:			
1-Hour (ppm)	0.0569	0.0515	0.0404
Annual (ppm)	0.0099	0.0091	0.0084
PM_{10}: 24-Hour ($\mu g/m^3$)	47	36	41
Annual ($\mu g/m^3$)	19.9	18.5	18.1
$PM_{2.5}$: 24-Hour ($\mu g/m^3$)	55.5 *	20.5	21.9
Percent of days NAAQS exceeded	(3%)	(0%)	(0%)
Annual ($\mu g/m^3$)	10.06 *	8.81	8.81
SO2:			
1-Hour (ppm)	0.0022	0.0065	0.0077
24-Hour (ppm) [b]	0.0012	0.0012	0.0023
Lead: 30-Day ($\mu g/m^3$)	0.012	0.008	0.007
3-Month Rolling Average ($\mu g/m^3$)	0.012	0.007	0.007
Sulfates: 24-Hour ($\mu g/m^3$)	4.4	5.8	6.5

Notes: ppm = parts per million by volume; $\mu g/m^3$=micrograms per cubic meter of air.
* = exceedance of CAAQS or NAAQS.
Source: South Coast AQMD, 2024b. Historical Data by Year. 2021, 2022, and 2023 Air Quality Data Tables. Available: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year. Accessed June 16, 2024.
[a] Concentrations of ozone, CO, NO2, and PM10 were obtained from the Santa Clarita Valley station (SRA 13). Concentrations of PM2.5 were not measured at the Santa Clarita Valley station and therefore were obtained from the West San Fernando Valley station (SRA 6). Concentrations of SO2, lead, and sulfate were not measured at the Santa Clarita Valley station and therefore were obtained from the Central LA (SRA 1) station. H2S is not included because there is no background monitor in the project vicinity.
[b] 24-hour SO2 concentrations were obtained from the following source: U.S. EPA, Interactive Map of Air Quality Monitors. Daily Data Download. SO2 - Active: Los Angeles-North Main Street. Available: https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors. Accessed June 18, 2024.

In addition to the network of air pollution monitoring stations operated by the South Coast AQMD and CARB, two site-specific monitoring stations were established by SCL in 2001. One station is on a high-elevation ridge on the southern edge of SCL (Landfill South Site). The other station is south of SCL, at Van Gogh Charter School in the nearby community of Granada Hills (Van Gogh Community Site). These stations were established to monitor PM10, black carbon as a surrogate for diesel particulate matter (DPM), wind direction, and wind speed in fulfillment of stipulations set forth in the City of Los Angeles and Los Angeles County. These stations have collected data continuously (hourly, year-round) since 2007. By comparison, the South Coast AQMD and CARB stations collect 24-hour PM10 samples every six days. The station locations are shown in Figure 3-3.

Over the most recent three-year monitoring period, 2021-2023, the Landfill South Site recorded nine exceedances of the federal 24-hour PM10 standard (one percent of days) and 532 exceedances of the state 24-hour PM10 standard (53 percent of days). The Landfill South Site's federal exceedances and some state exceedances were accompanied by high wind speeds, with wind direction falling within a narrow sector that encompasses the active portion of the landfill. Other

state exceedances at the Landfill South Site were accompanied by low-speed winds from the San Fernando Valley (south and southeast), suggesting that the addition of elevated concentrations within the Valley can push the Landfill South Site's PM10 concentrations over the state threshold. (City of Los Angeles Planning Department et al., 2024).

Over this same three-year period, 2021-2023, the Van Gogh Community Site recorded one exceedance of the federal 24-hour PM10 standard (0.1 percent of days) and 10 exceedances of the state 24-hour PM10 standard (one percent of days). On days when PM10 concentrations exceeded the federal and state standards at the Van Gogh Community Site, wind speeds were relatively low and wind directions were predominantly from the San Fernando Valley (southeast).



Figure 3-3
Site-Specific SCL Monitoring Stations

Baseline Criteria Pollutant Emissions from the SCL Flares

The evaluation of criteria pollutant impacts in Chapter 4 of this SEIR compares the maximum flare emissions under the Proposed Project to the emissions associated with the quantity of historical LFG collected and combusted in between September 2017 and November 2023, which due to the greater quantity of LFG captured than originally expected, is approximated as the maximum flare emissions under the 1999 Final SEIR, see Figure 2-3. This section determines the maximum flare emissions of criteria pollutants under the 1999 Final SEIR, which represent the CEQA baseline emissions for this SEIR.

Table 3-4 presents the current Title V permit limits for the existing SCL flares. The current Title V permit is consistent with the assumptions in the 1999 Final SEIR and therefore, is representative of baseline conditions for the Proposed Project. Table 3-4 shows that the Title V permit places limits on criteria pollutant emissions directly or indirectly in three different ways:

1) Individual flare emission limits for NOx, VOC[1], PM10, SOx, and CO are shown in the first five data rows of the table. These emission limits are based on the flares operating at their maximum LFG combustion limits (second column of the table), which are equivalent to their rated LFG capacities. The limits are also based on requirements in South Coast AQMD Rules 1303 and 1401, and are determined during the Title V permitting process.

2) Site-wide emission limits for VOC, SOx, and CO are shown in the last row of the table. These emission limits apply to the total emissions from all five existing SCL flares and match the values in Table 4.2-158 (Revised) of the 1999 Final SEIR. The 1999 Final SEIR also listed maximum total SCL flare emissions of 870 lb/day NOx and 205 lb/day PM10, which were not included as site-wide emission limits in the Title V permit.

3) Site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, calculated over a 24-hour period) is shown in the last row of the table. It is consistent with the maximum LFG flow rate assumed in the 1999 Final SEIR (originally expressed as 20,835 scfm at 40% CH4). The Title V permit limit applies to the total LFG combustion from the five existing SCL flares and the SGP facility. For the purpose of assessing air quality impacts, the SCL flares were analyzed as combusting all LFG (i.e., no participation from the SGP facility), both for the CEQA baseline and the Proposed Project.

[1] The Title V permit uses the term "reactive organic gases" (ROG) instead of VOC. Because ROG is defined as gaseous VOC, the two terms are interchangeable as they relate to the Proposed Project. This document uses the term VOC.

Table 3-4
Title V Permitted Emission Limits for the Existing Flares

Abatement Device	Maximum LFG Combustion Limit (scfm)	Emission Limits (lb/day) [3]				
		NOx	VOC	PM10	SOx	CO
Flare 1	4,167	174.0	23.0	41.0	107.0	104.0
Flare 3	4,167	144.0	15.1	38.4	91.2	98.4
Flare 9	5,000	91.2	21.8	36.0	182.4	218.9
Flare 10	5,000	91.2	21.8	36.0	182.4	218.9
Flare 11	5,000	91.2	21.8	36.0	182.4	218.9
Site-Wide Limits [1]	16,100 [2]	n/a	125.0	n/a	535.0	520.0

Legend: n/a = not applicable (i.e., no permit limit); lb/day = pounds per day.
Source: Title V Facility Permit to Operate. Facility ID 049111. Revision #14. May 15, 2018.
[1] The site-wide LFG limit includes the sum of LFG sent to the existing SCL flares and the SGP facility. The site-wide emission limits apply only to the existing SCL flares (the SGP facility has its own permit emission limits). The site wide LFG and emission limits are not necessarily equal to the sum of the individual flare limits.
[2] At 50% CH4, calculated over a 24-hour period.
[3] The permit limits for Flares 3, 9, 10, and 11 were converted from lb/hr to lb/day by multiplying by 24 hours/day.

Table 3-5 shows the maximum possible criteria pollutant emissions from the five existing SCL flares that would result from each of the three Title V permit limit scenarios described above. Scenario 1 includes the sum of Title V individual flare emission limits, and the emission limits for each flare were calculated based on flares operating at their maximum LFG combustion limits (i.e., a total LFG combustion limit of 23,334 scfm at 50% CH4). Therefore, to estimate the emission rates from the existing flares in Scenario 3, the total emission rate from the existing SCL flares in Scenario 1 were adjusted for a Title V site-wide LFG combustion limit of 16100 scfm (at 50% CH4). Table 3-5 shows that the most restrictive permit limit for NOx, VOC, PM10, and SOx is the site-wide LFG combustion limit of 16,100 scfm at 50% CH4 (Scenario 3). The most restrictive permit limit for CO is the site-wide emission limit of 520 lb/day (Scenario 2). The last row of the table shows the total baseline emissions from the existing flares, which reflect the most restrictive Title V permit limit for each pollutant.

Table 3-5
Determination of the Most Restrictive Existing Flare Emission Limits

Permit Limit Scenario	Total Emission Rate from Existing SCL Flares (lb/day)				
	NOx	VOC	PM10	SOx	CO
1. Sum of Title V individual flare emission limits [1]	591.6	103.5	187.4	745.4	859.1
2. Title V site-wide emission limits [1]	n/a	125.0	n/a	535.0	**520.0**
3. Title V site-wide LFG combustion limit [2]	**408.2**	**71.3**	**129.2**	**514.4**	592.7
Most Restrictive Limit (Baseline Emissions)	**408.2**	**71.3**	**129.2**	**514.4**	**520.0**

n/a = not applicable (i.e., no permit limit).
Note: the most restrictive emission limits are shown in **bold**.
[1] From Table 3-4.
[2] Emissions assume the five existing SCL flares combust the entire 16,100 scfm site-wide LFG limit (i.e., no LFG is routed to the SGP facility).

Table 3-6 presents the baseline criteria pollutant emissions apportioned to the individual SCL flares. The emissions were apportioned to the flares based on each flare's Title V emission factors, assuming all flares would operate at the same percent of rated capacity, at the same CH4 correction factor. Table 3-6 also includes PM2.5, which was not evaluated in the 1999 Final SEIR but is evaluated in this new SEIR. For flares burning gaseous fuel, emissions of PM2.5 were assumed to be equal to emissions of PM10 (South Coast AQMD, 2006).

The emissions in Table 3-6 represent the CEQA baseline emissions for the air quality analysis in this SEIR. The use of the most restrictive Title V permit limits for baseline emissions is conservative because it results in the lowest baseline, and therefore, the highest Proposed Project impacts relative to the baseline.

Appendix C contains detailed baseline criteria pollutant emission calculation tables.

Table 3-6
Baseline Criteria Pollutant Emissions from the Existing Flares

Abatement Device	Emission Rate (lb/day) [1,2]					
	NOx	VOC	PM10	PM2.5 [3]	SOx	CO
Flare 1	120.1	15.9	28.3	28.3	73.8	62.9
Flare 3	99.4	10.4	26.5	26.5	62.9	59.6
Flare 9	62.9	15.0	24.8	24.8	125.9	132.5
Flare 10	62.9	15.0	24.8	24.8	125.9	132.5
Flare 11	62.9	15.0	24.8	24.8	125.9	132.5
Total Baseline Emissions	**408.2**	**71.3**	**129.2**	**129.2**	**514.4**	**520.0**

Notes:
[1] Baseline emissions reflect the most restrictive Title V permit limit for each criteria pollutant. The most restrictive permit limit for CO is the Title V site-wide CO emission limit of 520 lb/day (See Table 3-5). The most restrictive permit limit for all other pollutants is the Title V site-wide LFG limit of 16,100 scfm (at 50% CH4).
[2] Emissions for the individual flares reflect all five flares operating at the same percent of rated LFG capacity.
[3] The PM2.5/PM10 ratio for flares is assumed to be 1.00. Source: South Coast AQMD, 2006. Table A, Flares, Gaseous Fuel.

3.2.3 Toxic Air Contaminants

Health and Safety Code Section 39655 defines a TAC as an air pollutant which may cause or contribute to an increase in mortality, an increase in serious illness, or which may pose a present or potential hazard to human health. The U.S. EPA defines hazardous air pollutants (HAPs) as those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects. Under California's TAC programs (AB 1807 and AB2588, Health and Safety Code Section 39650 et seq.), CARB, with the participation of the local air pollution control districts, evaluates and develops any needed control measures for air toxics to limit exposure to TACs to the maximum extent feasible.

Regional Background Health Risks
One of the primary health risks of concern due to exposure to TACs is the risk of contracting cancer. The carcinogenic potential of TACs is a particular public health concern because it is currently believed by many scientists that there is no "safe" level of exposure to carcinogens. Any exposure to a carcinogen poses some risk of causing cancer. It is currently estimated that about

one in four deaths in the United States is attributable to cancer. The proportion of cancer deaths attributable to air pollution has not been estimated using epidemiological methods.

Unlike carcinogens, for most non-carcinogens it is believed that there is a threshold level of exposure to the compound below which it will not pose a health risk. CalEPA's OEHHA develops Reference Exposure Levels (RELs) for TACs which are health-conservative estimates of the levels of exposure at or below which health effects are not expected. The non-cancer health risk due to exposure to a TAC is assessed by comparing the estimated level of exposure to the REL. The comparison is expressed as the ratio of the estimated exposure level to the REL, called the hazard index (HI).

In 1986, the South Coast AQMD published its first Multiple Air Toxics Exposure Study (MATES) to determine the Basin-wide human health risks associated with major airborne carcinogens. At the time, the state of technology was such that only 20 known TACs could be analyzed. The combined individual cancer risks from simultaneous exposure to the pollutants under the study were estimated to range from 600 to 5,000 in one million in the Basin.

After its initial MATES report, the South Coast AQMD continued to conduct updated studies. MATES II, published in 2000, included a monitoring program of 40 known air toxic compounds, an updated emissions inventory of TACs, and a modeling effort to characterize health risks from TACs. The estimated average Basin-wide cancer risk from ambient measurements was 1,400 in one million. MATES III (2008) revealed a general downward trend in TAC concentrations with an estimated Basin-wide lifetime cancer risk of 1,200 in one million. MATES IV (2015) incorporated updated 2015 health risk assessment methodology from OEHHA. It continued to find decreasing TAC exposure, with the estimated Basin-wide population-weighted risk down by about 57 percent from MATES III.

MATES V, the most recent study, was published in August 2021. It included a monitoring program, an updated TAC emissions inventory, and a modeling effort to characterize risk across the Basin. Unlike the previous MATES studies, which only considered the inhalation exposure pathway, MATES V estimated cancer risks by taking into account multiple exposure pathways, which include inhalation and non-inhalation pathways. This approach was consistent with how cancer risks are estimated under South Coast AQMD's programs such as permitting, AB 2588, and CEQA. This approach resulted in cancer risks approximately 8 percent higher than the inhalation-only calculation. Additionally, MATES V included an exploratory analysis of chronic non-cancer health impacts (e.g. cardiovascular, respiratory, neurological health outcomes, etc.). MATES V focused on measurements during 2018 and 2019 with a comprehensive modeling analysis and emissions inventory based on 2018 data. The study estimated that the population weighted cancer risk in the Basin was 455 in one million, which was about 54 percent lower than MATES IV. Within the zip code where the Proposed Project is located, the background cancer risk is 352 per million.

Figure 3-4 shows a map of the air toxics cancer risks in the Basin, modeled as part of MATES V. The figure shows that most of the Los Angeles metropolitan area lies within the 400-800 in a million cancer risk range. SCL lies within the 300-400 in a million cancer risk range. Figure 3-5 shows the declining trends in cancer risks from MATES II to MATES V at 10 TAC monitoring stations as well as the Basin average. The station closest to SCL is Burbank, although Burbank is likely to have higher risks due to a higher density of TAC emission sources. Figure 3-5 also subdivides the cancer risks by category of TACs. According to the MATES V report, the following

TACs contributed the most to the Basin-average cancer risk: particulate matter from diesel engines (DPM) 50%, carbonyls 10%, benzene 8%, and 1,3-butadiene 7%. Within the zip code where the Proposed Project is located, 63.1% of the cancer risk is attributed to DPM. The following emission source categories contributed to the Basin-average cancer risk: off-road mobile sources (aircraft, ships, commercial boats, trains, recreational vehicles, construction and industrial equipment) 48.1%, on-road mobile sources (cars, trucks, buses, and motorcycles) 39.8%, area sources (small sources such as dry cleaners, retail gasoline stations, auto body shops, residential heating, etc.) 7.2%, and point sources (commercial and industrial facilities) 4.9%.

Figure 3-6 shows the trends in the chronic (non-cancer) hazard index (HI) from MATES III to MATES V. The figure shows that the chronic HI has declined by roughly one-half since MATES III. According to the MATES V report, the following TACs contributed the most to the Basin-average chronic HI: arsenic 49%, acrolein 23%, formaldehyde 7%, and benzene 5%.

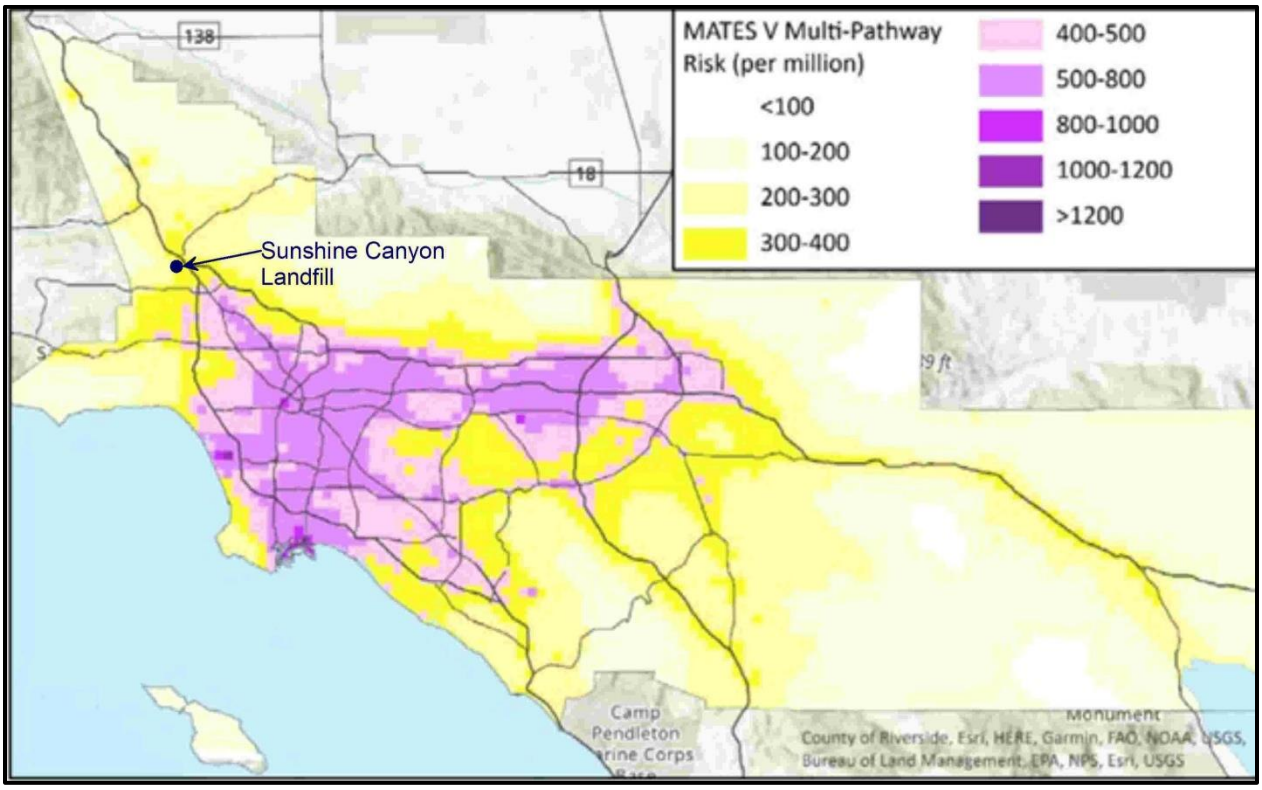


Figure 3-4
Modeled Air Toxics Cancer Risk for MATES V

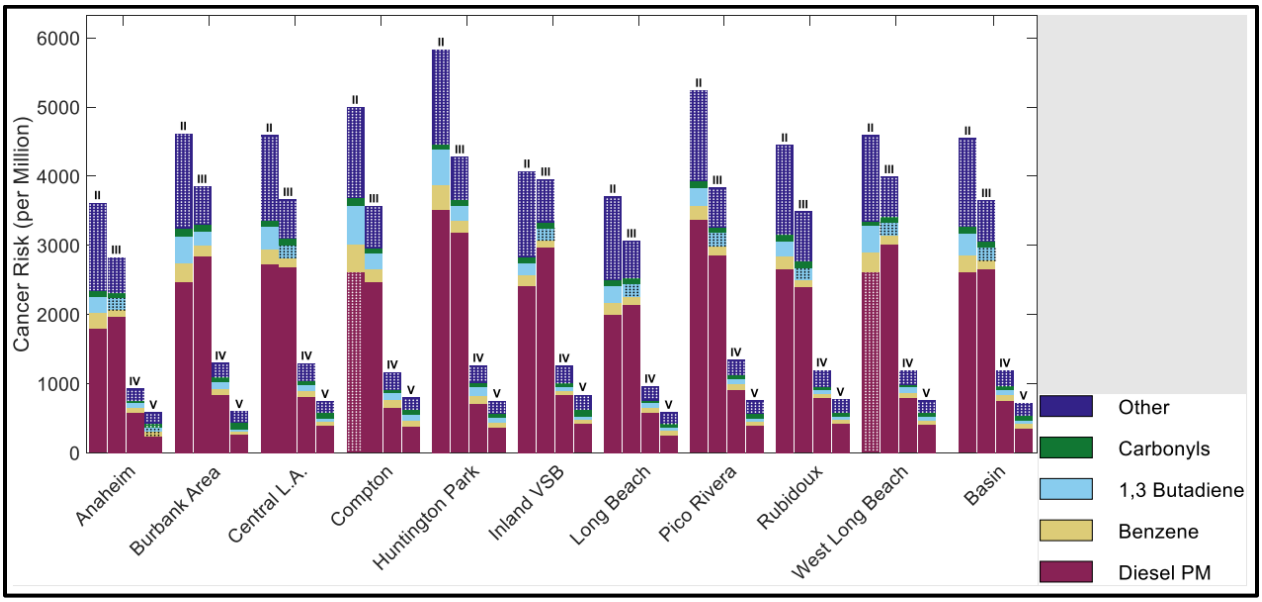


Figure 3-5
Cancer Risk Trends across MATES II through MATES V

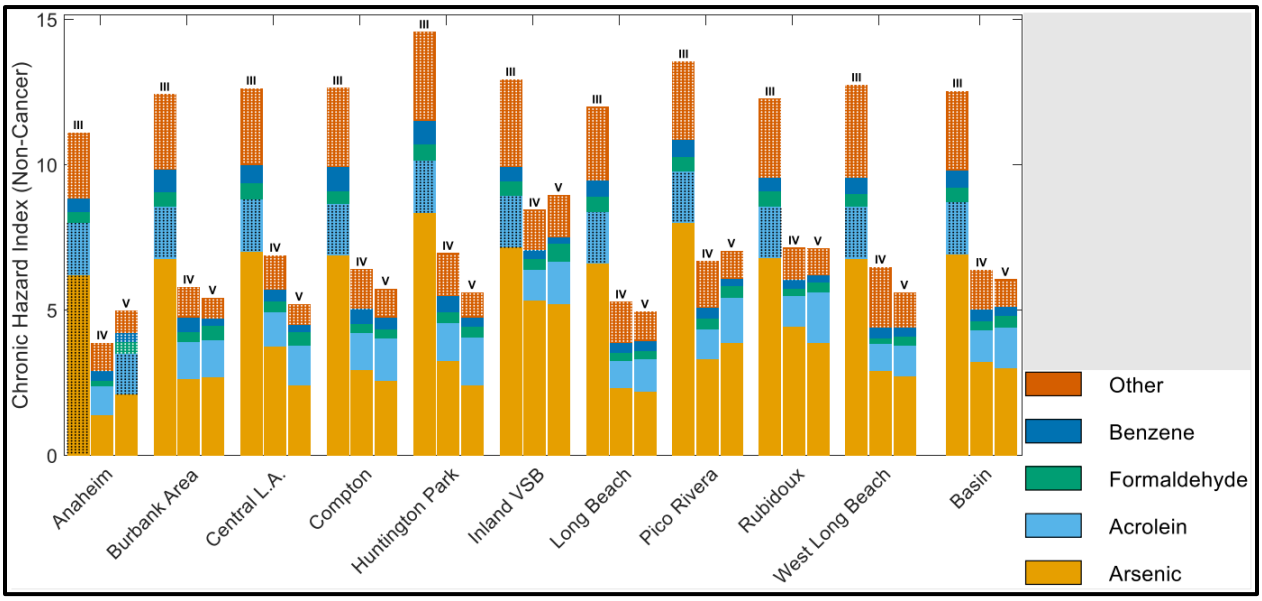


Figure 3-6
Chronic HI Trends across MATES III through MATES V

In a separate effort from MATES, the City of Los Angeles and Los Angeles County completed a study in 2017 of TACs detected at the two SCL-established monitoring sites, the Landfill South Site and Van Gogh Community Site (see Section 3.2.2, "Local Air Quality", for a description of the sites). In 2016, the sites were equipped with the additional capability to measure levels of TACs to assess the possible impacts of TACs from SCL on nearby residents. TAC levels were measured every six days for a full year, from July 2016 through June 2017. The TAC study determined that the annual average Landfill South Site concentrations of TACs were statistically the same as concentrations at the Van Gogh Community Site, suggesting that the landfill is likely not a major

contributor to annual average concentrations of most TACs at the Van Gogh Community Site. Concentrations of TACs at the two sites were lower than the MATES IV 2012-13 Basin-average concentrations and the 2015 Central LA monitoring site average concentrations for every TAC measured except carbon tetrachloride. (City of Los Angeles Planning Department et al., 2017).

Baseline TAC Emissions from the SCL Flares

Table 3-7 and Table 3-8 show the maximum annual TAC emissions and maximum peak hour TAC emissions, respectively, from the existing flares operating in accordance with the 2018 Title V permit. The emissions in these two tables represent the CEQA baseline emissions for the health risk assessment in this SEIR. They include compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025), which is more comprehensive than the TACs required for analysis under South Coast AQMD Rule 1401. Appendix C includes detailed baseline TAC emission calculation tables.

Because the current Title V permit does not directly limit TAC emissions from the flares, the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) is the most restrictive limit for annual TAC emissions. Therefore, the annual emissions assume the existing flares together operate at the site-wide limit of 16,100 scfm (at 50% CH4). Peak hour emissions are not affected by the site-wide LFG combustion limit because the limit is based on a 24-hour average. Therefore, the peak hour emissions assume the existing flares operate at their individual rated capacities shown in Table 3-4.

The TAC emissions associated with the flares include LFG constituents and combustion products. Appendix C identifies the specific TACs that are LFG constituents versus combustion products. The TAC emissions of LFG constituents were calculated using AP-42 Section 2.4 (Municipal Solid Waste Landfills), Equation 4 (U.S. EPA, 2024a). The flares act as abatement devices for TACs that otherwise would be emitted in much greater quantities in fugitive LFG releases. Specifically, the emission calculation methodology assumed that toxic organic compounds present in the inlet LFG would be reduced by 98 percent through flare combustion, as required by South Coast AQMD Rule 1150.1 (see Section 3.2.6 for a description of the rule). Mercury present in the inlet LFG was assumed to pass through the flares unabated; hence, the destruction efficiency for mercury was assumed to be zero. Inlet LFG concentrations were obtained from a combination of onsite LFG test data and default concentrations from Table 2.4.1 of AP-42 Section 2.4. The default concentrations were used only for TACs that were not included in the onsite LFG test data.

The onsite LFG test data were obtained from the monthly LFG sampling program conducted at SCL pursuant to South Coast AQMD Rule 1150.1. Three inlet LFG samples are taken at SCL each month: one upstream of Flare 1, one upstream of Flare 3, and one upstream of Flares 9, 10, and 11. Test results from the 12 most recent months of sampling at the time of analysis, May 2023 through April 2024, were used in the emission calculations. Non-detects were assumed to be present in the LFG at 1/2 the method detection limit (MDL). For each TAC where onsite test data were available, the annual average LFG concentration was determined by selecting the highest annual average (i.e., 12-month average) concentration of the three tested sample streams. The annual average LFG concentrations were used in the calculation of maximum annual emission rates. The maximum LFG concentration was determined by selecting the highest sample result of any LFG stream in any month in the 12-month sampling period. The maximum LFG concentrations were used in the calculation of maximum hourly emission rates.

The TAC emissions of combustion products were calculated using emission factors from AP-42 Section 1.4 (Natural Gas Combustion), Table 1.4-3 (U.S. EPA, 1998). Consistent with South Coast AQMD assumptions in the development of the Flare 12 permit conditions, the calculations assumed an LFG CH4 content of 50 percent by volume (U.S. EPA, 2024b). Emission factors based on the MDL, as reported in AP-42, were used at 1/2 the MDL. In accordance with AP-42, emissions of hydrogen chloride, also a combustion product, were calculated using Equation 4 of AP-42 Section 2.4, a default ionic chlorine LFG concentration of 42 ppmv, and no abatement.

Because NO2, SO2, and CO are included in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, these three criteria pollutants are also included in Tables 3-7 and 3-8 and were included in the health risk assessment. The annual emissions of NO2, SO2, and CO are consistent with the baseline daily emissions in Table 3-6, converted to annual emissions by multiplying by 365 days per year. Peak hour emissions of NO2, SO2, and CO assume the existing flares operate at their individual rated capacities.

Table 3-7
Baseline Annual TAC Emissions from the Existing Flares

Toxic Air Contaminant [1]	Annual Emissions (lb/yr) [2]					
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Total
Acrylonitrile	2.66E+01	2.66E+01	3.20E+01	3.20E+01	3.20E+01	1.49E+02
Benz(a)anthracene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Benzene	1.50E+01	1.50E+01	1.80E+01	1.80E+01	1.80E+01	8.40E+01
Benzo(a)pyrene	4.53E-04	4.53E-04	5.44E-04	5.44E-04	5.44E-04	2.54E-03
Benzo(b)fluoranthene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Benzo(k)fluoranthene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Benzyl chloride	2.02E-01	2.02E-01	2.42E-01	2.42E-01	2.42E-01	1.13E+00
Carbon disulfide	9.86E-01	9.86E-01	1.18E+00	1.18E+00	1.18E+00	5.52E+00
Carbon monoxide	2.30E+04	2.18E+04	4.84E+04	4.84E+04	4.84E+04	1.90E+05
Carbon tetrachloride	3.06E-01	3.06E-01	3.68E-01	3.68E-01	3.68E-01	1.72E+00
Carbonyl sulfide	1.44E+00	1.44E+00	1.72E+00	1.72E+00	1.72E+00	8.04E+00
Chlorobenzene	8.01E-01	8.01E-01	9.61E-01	9.61E-01	9.61E-01	4.48E+00
Chloroform	1.43E-01	1.43E-01	1.71E-01	1.71E-01	1.71E-01	7.99E-01
Chrysene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Dibenzo(a,h)anthracene	4.53E-04	4.53E-04	5.44E-04	5.44E-04	5.44E-04	2.54E-03
1,1-Dichloroethane	1.88E-01	1.88E-01	2.26E-01	2.26E-01	2.26E-01	1.05E+00
7,12-Dimethylbenz(a) anthracene	6.04E-03	6.04E-03	7.25E-03	7.25E-03	7.25E-03	3.38E-02
Ethyl benzene	3.89E+01	3.89E+01	4.67E+01	4.67E+01	4.67E+01	2.18E+02
Ethyl chloride	6.68E+00	6.68E+00	8.02E+00	8.02E+00	8.02E+00	3.74E+01
Ethylene dibromide	2.25E-01	2.25E-01	2.69E-01	2.69E-01	2.69E-01	1.26E+00
Ethylene dichloride	7.35E+00	7.35E+00	8.82E+00	8.82E+00	8.82E+00	4.12E+01
Formaldehyde	5.67E+01	5.67E+01	6.80E+01	6.80E+01	6.80E+01	3.17E+02
Hexane	1.41E+03	1.41E+03	1.69E+03	1.69E+03	1.69E+03	7.87E+03
Hydrogen chloride	6.11E+03	6.11E+03	7.33E+03	7.33E+03	7.33E+03	3.42E+04
Hydrogen sulfide	4.59E+02	4.59E+02	5.50E+02	5.50E+02	5.50E+02	2.57E+03
Indeno(1,2,3-cd)pyrene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Isopropyl alcohol	2.40E+02	2.40E+02	2.87E+02	2.87E+02	2.87E+02	1.34E+03
Mercury	2.32E-01	2.32E-01	2.78E-01	2.78E-01	2.78E-01	1.30E+00
Methyl chloroform	2.23E-01	2.23E-01	2.68E-01	2.68E-01	2.68E-01	1.25E+00

Table 3-7 (concluded)
Baseline Annual TAC Emissions from the Existing Flares

Toxic Air Contaminant [1]	Annual Emissions (lb/yr) [2]					
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Total
Methyl ethyl ketone	4.08E+01	4.08E+01	4.90E+01	4.90E+01	4.90E+01	2.28E+02
3-Methylcholanthrene	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04	3.81E-03
Methylene chloride	4.27E+00	4.27E+00	5.12E+00	5.12E+00	5.12E+00	2.39E+01
Naphthalene	4.61E-01	4.61E-01	5.53E-01	5.53E-01	5.53E-01	2.58E+00
Nitrogen dioxide	4.38E+04	3.63E+04	2.30E+04	2.30E+04	2.30E+04	1.49E+05
p-Dichlorobenzene	3.08E+00	3.08E+00	3.69E+00	3.69E+00	3.69E+00	1.72E+01
Perchloroethylene	4.79E+00	4.79E+00	5.75E+00	5.75E+00	5.75E+00	2.68E+01
Sulfur dioxide	2.69E+04	2.30E+04	4.60E+04	4.60E+04	4.60E+04	1.88E+05
Tetrachloroethane	1.47E+01	1.47E+01	1.77E+01	1.77E+01	1.77E+01	8.24E+01
Toluene	6.56E+01	6.56E+01	7.87E+01	7.87E+01	7.87E+01	3.67E+02
Trichloroethene	1.94E+00	1.94E+00	2.33E+00	2.33E+00	2.33E+00	1.09E+01
Vinyl chloride	4.36E-01	4.36E-01	5.24E-01	5.24E-01	5.24E-01	2.44E+00
Vinylidene chloride	1.54E-01	1.54E-01	1.85E-01	1.85E-01	1.85E-01	8.65E-01
Xylenes	4.97E+01	4.97E+01	5.96E+01	5.96E+01	5.96E+01	2.78E+02

Notes:

[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).

[2] Includes LFG constituents and combustion products. Annual emissions assume the existing flares operate at the site-wide limit of 16,100 scfm (at 50% CH4) specified in the current Title V permit.

Table 3-8
Baseline Peak Hour TAC Emissions from the Existing Flares

Toxic Air Contaminant [1]	Peak Hour Emissions (lb/hr) [2]					
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Total
Acrylonitrile	4.41E-03	4.41E-03	5.29E-03	5.29E-03	5.29E-03	2.47E-02
Benz(a)anthracene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Benzene	5.79E-03	5.79E-03	6.95E-03	6.95E-03	6.95E-03	3.24E-02
Benzo(a)pyrene	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08	4.20E-07
Benzo(b)fluoranthene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Benzo(k)fluoranthene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Benzyl chloride	3.34E-05	3.34E-05	4.01E-05	4.01E-05	4.01E-05	1.87E-04
Carbon disulfide	2.91E-04	2.91E-04	3.49E-04	3.49E-04	3.49E-04	1.63E-03
Carbon monoxide	4.33E+00	4.10E+00	9.12E+00	9.12E+00	9.12E+00	3.58E+01
Carbon tetrachloride	5.07E-05	5.07E-05	6.08E-05	6.08E-05	6.08E-05	2.84E-04
Carbonyl sulfide	3.17E-04	3.17E-04	3.80E-04	3.80E-04	3.80E-04	1.77E-03
Chlorobenzene	2.78E-04	2.78E-04	3.33E-04	3.33E-04	3.33E-04	1.55E-03
Chloroform	2.36E-05	2.36E-05	2.83E-05	2.83E-05	2.83E-05	1.32E-04
Chrysene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Dibenzo(a,h)anthracene	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08	4.20E-07
1,1-Dichloroethane	8.61E-05	8.61E-05	1.03E-04	1.03E-04	1.03E-04	4.82E-04
7,12-Dimethylbenz(a) anthracene	1.00E-06	1.00E-06	1.20E-06	1.20E-06	1.20E-06	5.60E-06
Ethyl benzene	6.44E-03	6.44E-03	7.73E-03	7.73E-03	7.73E-03	3.61E-02
Ethyl chloride	1.11E-03	1.11E-03	1.33E-03	1.33E-03	1.33E-03	6.19E-03
Ethylene dibromide	3.72E-05	3.72E-05	4.46E-05	4.46E-05	4.46E-05	2.08E-04
Ethylene dichloride	2.35E-03	2.35E-03	2.82E-03	2.82E-03	2.82E-03	1.32E-02

Table 3-8 (concluded)
Baseline Peak Hour TAC Emissions from the Existing Flares

Toxic Air Contaminant [1]	Peak Hour Emissions (lb/hr) [2]					
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Total
Formaldehyde	9.38E-03	9.38E-03	1.13E-02	1.13E-02	1.13E-02	5.25E-02
Hexane	2.33E-01	2.33E-01	2.79E-01	2.79E-01	2.79E-01	1.30E+00
Hydrogen chloride	1.01E+00	1.01E+00	1.21E+00	1.21E+00	1.21E+00	5.66E+00
Hydrogen sulfide	8.49E-02	8.49E-02	1.02E-01	1.02E-01	1.02E-01	4.76E-01
Indeno(1,2,3-cd)pyrene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Isopropyl alcohol	3.96E-02	3.96E-02	4.75E-02	4.75E-02	4.75E-02	2.22E-01
Mercury	3.84E-05	3.84E-05	4.60E-05	4.60E-05	4.60E-05	2.15E-04
Methyl chloroform	1.53E-04	1.53E-04	1.83E-04	1.83E-04	1.83E-04	8.54E-04
Methyl ethyl ketone	6.75E-03	6.75E-03	8.10E-03	8.10E-03	8.10E-03	3.78E-02
3-Methylcholanthrene	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	6.30E-07
Methylene chloride	1.46E-03	1.46E-03	1.75E-03	1.75E-03	1.75E-03	8.15E-03
Naphthalene	7.63E-05	7.63E-05	9.15E-05	9.15E-05	9.15E-05	4.27E-04
Nitrogen dioxide	7.25E+00	6.00E+00	3.80E+00	3.80E+00	3.80E+00	2.47E+01
p-Dichlorobenzene	1.09E-03	1.09E-03	1.31E-03	1.31E-03	1.31E-03	6.09E-03
Perchloroethylene	1.80E-03	1.80E-03	2.16E-03	2.16E-03	2.16E-03	1.01E-02
Sulfur dioxide	4.46E+00	3.80E+00	7.60E+00	7.60E+00	7.60E+00	3.11E+01
Tetrachloroethane	2.43E-03	2.43E-03	2.92E-03	2.92E-03	2.92E-03	1.36E-02
Toluene	2.23E-02	2.23E-02	2.67E-02	2.67E-02	2.67E-02	1.25E-01
Trichloroethene	5.79E-04	5.79E-04	6.94E-04	6.94E-04	6.94E-04	3.24E-03
Vinyl chloride	1.71E-04	1.71E-04	2.05E-04	2.05E-04	2.05E-04	9.55E-04
Vinylidene chloride	2.56E-05	2.56E-05	3.07E-05	3.07E-05	3.07E-05	1.43E-04
Xylenes	1.85E-02	1.85E-02	2.23E-02	2.23E-02	2.23E-02	1.04E-01

Notes:
[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).
[2] Includes LFG constituents and combustion products. Peak hour emissions assume the existing flares operate at their rated capacities because the current Title V site-wide limit of 16,100 scfm is based on a 24-hour average and therefore doesn't restrict peak hour flow.

3.2.4 Greenhouse Gases

Global climate change is a change in the average weather of the earth, which can be measured by wind patterns, storms, precipitation, and temperature. Historical records have shown that temperature changes have occurred in the past, such as during previous ice ages. Data indicate that the current temperature record differs from previous climate changes in rate and magnitude.
Gases that trap heat in the atmosphere are often called greenhouse gases (GHGs), comparable to a greenhouse, which captures and traps radiant energy. GHGs are emitted by natural processes and human activities. The accumulation of greenhouse gases in the atmosphere influences the earth's temperature. Global warming is an observed increase in the average temperature of the earth's surface and atmosphere. The primary cause of global warming is an increase of GHGs in the atmosphere.

The six major GHGs are carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), sulfur hexafluoride (SF6), hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs). The GHGs absorb longwave radiant energy emitted by the Earth, which warms the atmosphere. The GHGs also emit longwave radiation both upward to space and back down toward the surface of the Earth. The

downward part of this longwave radiation emitted by the atmosphere is known as the "greenhouse effect." Emissions from human activities such as fossil fuel combustion for electricity production and vehicles have elevated the concentration of these gases in the atmosphere.

GHG Descriptions

CO2 is an odorless, colorless greenhouse gas emitted from natural and anthropogenic (human caused) sources. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO2 include burning coal, oil, gasoline, natural gas, and wood. CO2 is also present in LFG.

CH4 is an organic, colorless, naturally occurring, flammable gas. Its atmospheric concentration is less than CO2 and its lifetime in the atmosphere is brief (10-12 years) compared to other GHGs. CH4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of CH4. Other anthropogenic sources include fossil-fuel and biomass combustion, as well as landfilling and wastewater treatment. CH4 is a major component of LFG.

N2O, also known as laughing gas, is a colorless greenhouse gas. Some industrial processes such as fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions also contribute to the atmospheric load of N2O. HFCs are synthetic man-made chemicals that are used as a substitute for chlorofluorocarbons (whose production was stopped as required by the Montreal Protocol) for automobile air conditioners and refrigerants. PFCs are colorless, non-flammable, dense gasses that have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. The two main sources of PFCs are primary aluminum production and semiconductor manufacture. SF6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

To quantify the impact of specific GHGs, each gas is assigned a global warming potential (GWP). Individual GHG compounds have varying GWPs and atmospheric lifetimes. The GWP of a GHG is a measure of how much a given mass of a GHG is estimated to contribute to global warming, relative to CO2, which is assigned a GWP of 1.0. The GWP is used to determine the carbon dioxide equivalent (CO2e) mass of each GHG. The calculation of CO2e is the accepted methodology for comparing GHG emissions since it normalizes various GHG emissions to a consistent reference gas, CO2. For example, CH4's GWP of 25 indicates that the global warming effect of CH4 is 25 times greater than that of CO2 on a unit mass basis. CO2e is the mass emissions of an individual GHG multiplied by its GWP.

Effects of Global Climate Change

The Intergovernmental Panel on Climate Change (IPCC) has concluded that recent global climate change has largely been the result of human activity, mainly the burning of fossil fuels. In its Sixth Assessment Report, the IPCC predicted that global warming will continue to increase in the near term (2021–2040) mainly due to increased cumulative CO2 emissions in nearly all considered scenarios and modelled pathways. In the near term, global warming is more likely than not to reach

1.5°C even under a very low GHG emission scenario and likely or very likely to exceed 1.5°C under higher emissions scenarios. In the considered scenarios and modelled pathways, the best estimates of the time when the level of global warming of 1.5°C is reached lie in the near term. Global warming declines back to below 1.5°C by the end of the 21st century in some scenarios and modelled pathways. The assessed climate response to GHG emissions scenarios results in a best estimate of warming for 2081–2100 that spans a range from 1.4°C for a very low GHG emissions scenario to 2.7°C for an intermediate GHG emissions scenario and 4.4°C for a very high GHG emissions scenario. The IPCC defines global warming in terms of running 20-year averages relative to 1850–1900. (IPCC, 2023).

The effects of global climate change may arise from temperature increases, climate-sensitive diseases, extreme weather events, and degradation of air quality. There may be direct temperature effects through increases in global average temperatures, leading to more extreme heat waves and less extreme cold spells. Those living in warmer climates are likely to experience more stress and heat-related problems. Heat-related problems include heat rash, heat stroke, drought, etc. In addition, climate-sensitive diseases may increase, such as those spread by mosquitoes and other disease-carrying insects. Such diseases include malaria, dengue fever, yellow fever, and encephalitis. Extreme events such as flooding and hurricanes can displace people and agriculture. Global warming may also contribute to air quality problems due to the increased amount and frequency of smog and particulate air pollution.

According to the 2006 California Climate Action Team Report, several climate change effects can be expected in California over the next century (CalEPA, 2006). These are based on trends established by the IPCC and are summarized below.

- A diminishing Sierra Nevada snowpack, declining by 70 to 90 percent, and thereby threatening the state's water supply.
- A rise in sea levels, resulting in the displacement of coastal businesses and residences. During the past century, sea levels along California's coast have risen about 7 inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Sea level rises of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. (Note: This condition would not affect the Proposed Project area as it is approximately 25 miles from coastal areas.)
- An increase in temperature and extreme weather events. Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- Increased risk of large wildfires if rain increases as temperatures rise. Specifically, wildfires in the grasslands and chaparral ecosystems of southern California are estimated to increase by approximately 30 percent toward the end of the 21st century because more winter rain will stimulate the growth of more plant fuel available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90 percent more northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.
- Increasing temperatures from 8°F to 10.4 °F leading to a 25 to 35 percent increase in the number of days that ozone pollution levels are exceeded in most urban areas.
- Increased vulnerability of forests due to forest fires, pest infestation, and increased temperatures.

- Reductions in the quality and quantity of certain agricultural products. The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- Exacerbation of air quality problems. If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today's conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- A decrease in the health and productivity of California's forests. Climate change can cause an increase in wildfires, an enhanced insect population, and the establishment of non-native species.
- Increased electricity demand, particularly in the hot summer months.
- Increased ground-level ozone formation due to higher reaction rates of ozone precursors.

GHG Emission Inventories

Emission inventories identify and quantify the primary human-generated sources and sinks of GHGs. This section summarizes information on global, national, and state GHG emissions inventories.

- **Global Emissions.** Worldwide emissions of GHGs in 2021 (the most recent year available) totaled 49.6 billion metric tons (MT) of CO2e (Climate Watch, 2024). Global estimates are based on production-based data obtained from the International Energy Agency, U.S. EPA, U.N. Food and Agriculture Organization, and Global Carbon Project. The global emission inventory includes emissions from the following economic sectors: agriculture, bunker fuels, energy, electricity/heat, fugitive emissions, manufacturing/construction, other fuel combustion, transportation, industrial processes, land-use change and forestry, and waste.
- **United States Emissions.** In 2022, U.S. GHG emissions totaled 5.49 billion MT of CO2e. Net emissions were 17 percent below 2005 levels. The decline was mostly due to a shift from coal to less CO2-intensive natural gas and a rapid increase in the use of renewable energy in the electric power sector. Transportation activities accounted for the largest portion (28 percent) of total U.S. GHG emissions in 2022. Emissions from electric power accounted for the second largest portion (25 percent), while emissions from industry accounted for the third largest portion (23 percent). Carbon sequestration from the Land Use, Land-Use Change and Forestry sector offset (i.e., reduced) 15 percent of total emissions in 2022. (U.S. EPA, 2024c).
- **State of California Emissions.** According to CARB emission inventory estimates, California emitted approximately 381.3 million MT of CO2e emissions in 2021 (CARB, 2017b). The transportation sector contributed the largest portion of emissions (39 percent), followed by industry (22 percent), electricity (16 percent), agriculture and forestry (8 percent), residential (8 percent), and commercial (6 percent). Figure 3-7 shows the annual statewide GHG emissions trend since 2000, and compares the emissions to a 2020 emissions limit of 431 million MT of CO2e that was established pursuant to Assembly Bill (AB) 32 (see Section 3.2.6 for a description of AB 32). The figure shows that statewide GHG emissions have dropped substantially since 2008, and the 2020 limit was met by 2014. Per capita GHG emissions in California have also dropped from a 2001 peak of 13.8 metric tons per person to 9.7 metric tons per person in 2021, a 30 percent decrease. (CARB, 2023).

Figure 3-8 shows the annual statewide GHG emissions trend by economic sector. The figure shows that most of the emission reductions since 2008 have occurred in the transportation and electric power sectors. Reductions in the transportation sector have resulted from fuel efficiency improvements and zero-emission vehicle adoption in the passenger vehicle fleet; and growth in the use of biofuels, such as ethanol, biodiesel, renewable diesel, and biomethane. Reductions in the electric power sector have resulted from increased production of zero-GHG resources such solar, wind, and hydropower; and higher energy efficiency standards in buildings and appliances. (CARB, 2023).

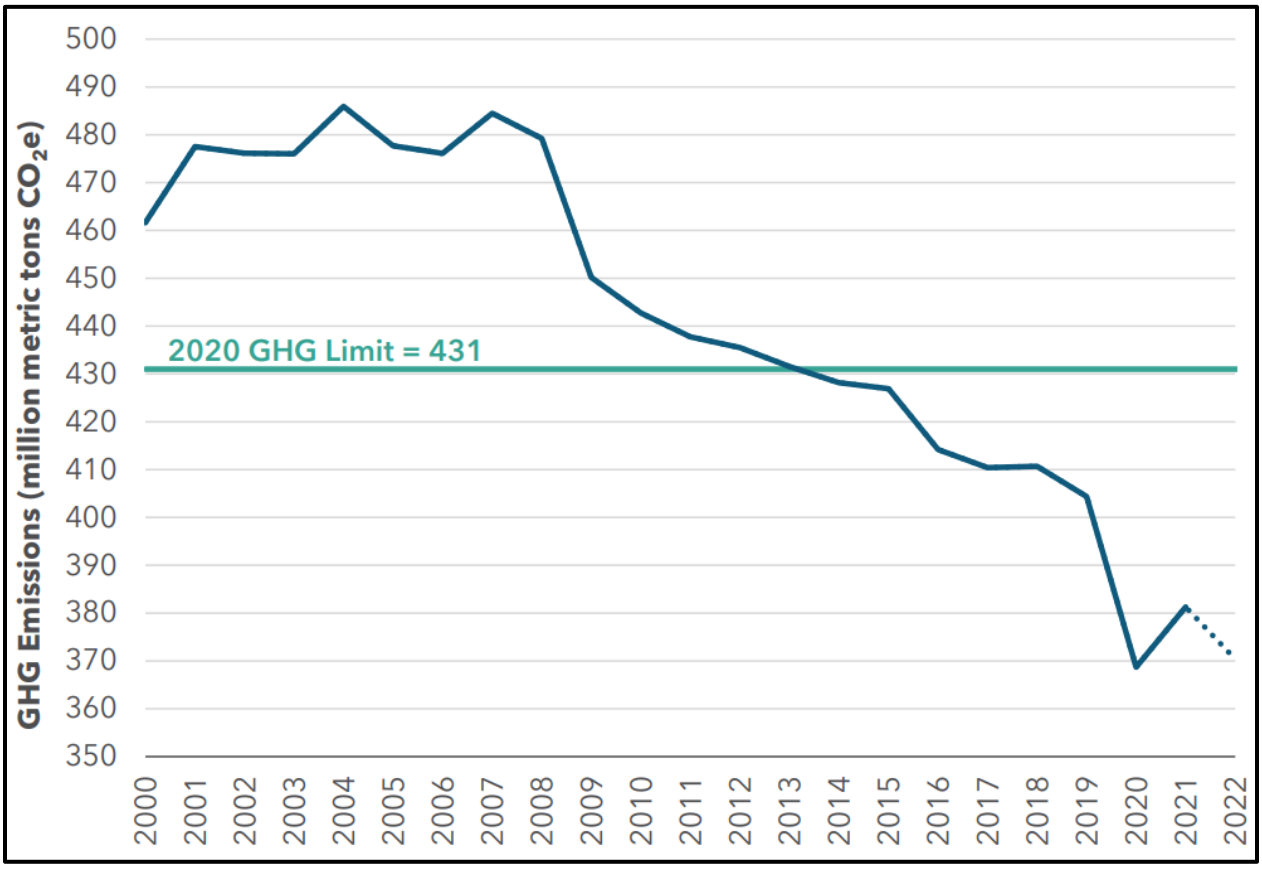


Figure 3-7
Annual California GHG Emissions Trend and the 2020 Limit

Source: CARB, 2023.

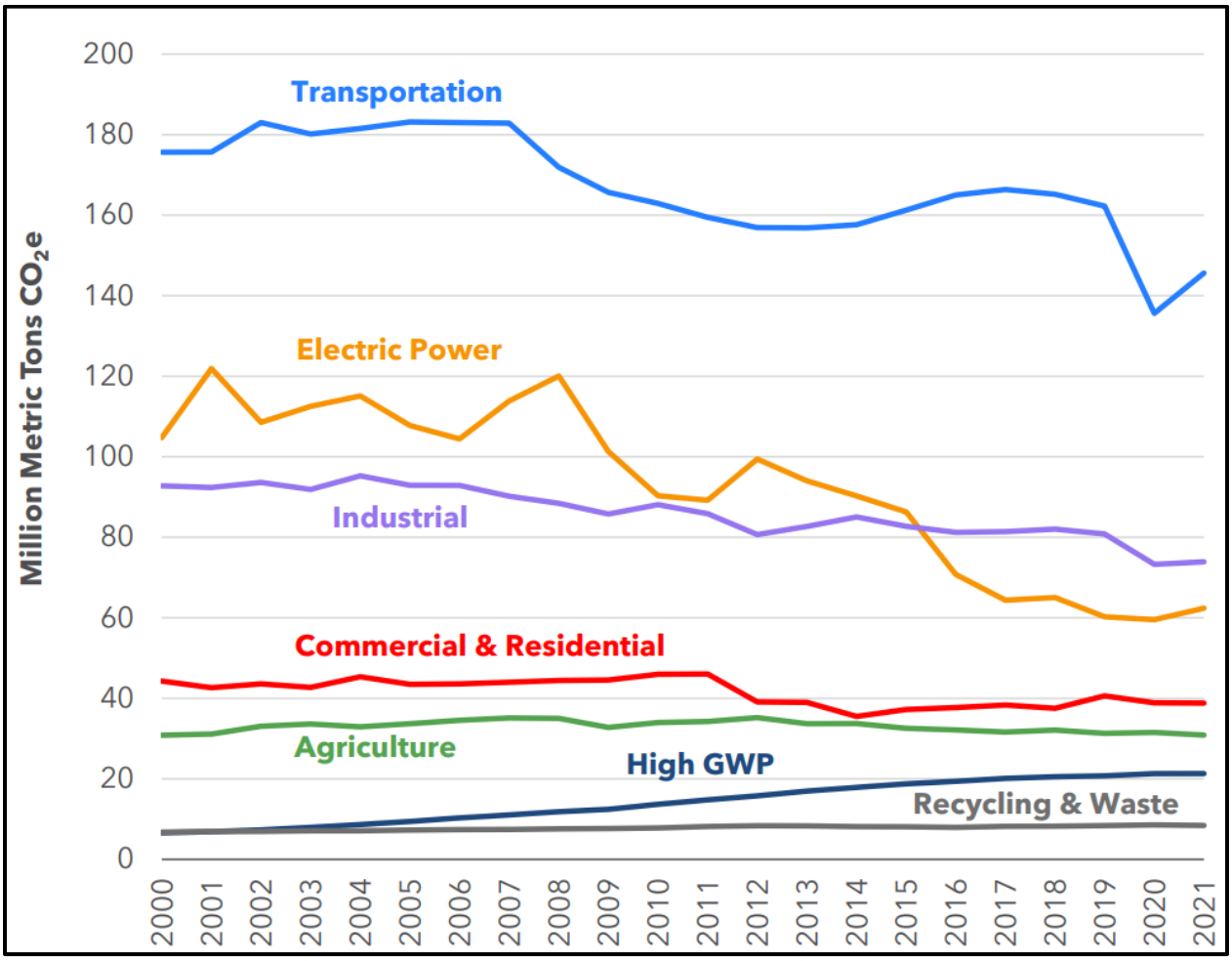


Figure 3-8
Annual California GHG Emissions Trend by Sector

Source: CARB, 2023.

Baseline GHG Emissions from the SCL Flares

Table 3-9 shows the emissions of GHGs from the existing flares that correspond to the Title V site-wide LFG combustion limit of 16,100 scfm (at 50% CH4). Because the current Title V permit does not directly limit GHG emissions from flares, the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) is the most restrictive limit for GHG emissions. Therefore, the emissions in Table 3-9 represent the CEQA baseline emissions for the GHG impact evaluation in this SEIR. Appendix C contains detailed baseline GHG emission calculation tables.

GHG emissions associated with the flares were calculated using emission factors published in 40 CFR Part 98 Subpart C (Mandatory Greenhouse Gas Reporting; General Stationary Fuel Combustion Sources). The SCL flares act as abatement devices for GHGs because they destroy most of the CH4 present in LFG. CH4 has 25 times the global warming potential of CO2; therefore, the CO2 created during LFG combustion is much less potent than the CH4 that otherwise would have been emitted in fugitive LFG releases.

Table 3-9
Baseline GHG Emissions from the Existing Flares

Abatement Device	LFG Input (scfm) [1]	Annual Emissions (MT/yr)			
		CO2	CH4	N2O	CO2e
Flare 1	2,875	39,814	2.4	0.5	40,018
Flare 3	2,875	39,814	2.4	0.5	40,018
Flare 9	3,450	47,776	2.9	0.6	48,022
Flare 10	3,450	47,776	2.9	0.6	48,022
Flare 11	3,450	47,776	2.9	0.6	48,022
Total	**16,100**	**222,956**	**13.7**	**2.7**	**224,103**

Notes:
[1] It is assumed that each flare consumes it share of LFG in proportion to its rated capacity, such that the total LFG consumption rate is the current Title V permitted site-wide limit 16,100 scfm (at 50% CH4).

3.2.5 Odors

Several operations at a landfill can create odors, including waste unloading and movement, decay of waste at the working face, and LFG that evades the GCCS. Most odors at landfills result from uncontrolled fugitive releases of reduced sulfur compounds, such as mercaptans and hydrogen sulfide, or organic compounds, such as ethanol and acetaldehyde.

Since 2005, the communities adjacent to SCL have filed a number of complaints with the South Coast AQMD regarding odors from SCL operations. Figure 3-9 shows a plot of odor complaints South Coast AQMD received by year from January 2005 through July 2025. The volume of complaints increased dramatically starting in 2009.

In response to the increasing odor complaints, the South Coast AQMD Hearing Board issued an Order for Abatement to SCL in March 2010 that required several corrective actions designed to reduce odors from the landfill, which was subsequently amended in July 2010 and January 2011. SCL's compliance with the 2010 Order for Abatement corresponded with a reduction in odor complaints. After a rising number of complaints in 2014 and 2015, the South Coast AQMD Hearing Board issued an SOA in December 2016 that required SCL, among other actions, to install

additional LFG collection wells, collectors, and piping to deliver more LFG for combustion. The regulatory compliance history of SCL, including descriptions of the 2010 Order for Abatement and 2016 SOA, is documented in Section 2.11.

The enhancements made to the SCL GCCS that were mandated by the 2016 SOA resulted in the collection and combustion of LFG in excess of the current Title V site-wide permit limit of 16,100 scfm (at 50% CH4). Therefore, the Proposed Project seeks to increase the permitted site-wide flow limit to continue to meet the compliance requirements of South Coast AQMD Rule 1150.1, which requires a landfill to collect and control LFG generated to control potential surface emissions, air emissions, and odors.

Pursuant to Rule 1150.1, LFG control devices, such as flares, are required to control non-methane organic compounds (NMOC) by at least 98 percent and CH4 by 99 percent. Sulfur compounds in the LFG, including mercaptans and hydrogen sulfide, are oxidized to SO2 during combustion. As a result, few odoriferous emissions are expected from the existing or proposed new SCL flares. In addition, the thermal buoyancy and high vertical flow rates of the flare exhaust increase the dispersion of any odoriferous compounds that remain after LFG destruction, further reducing the potential for odors.

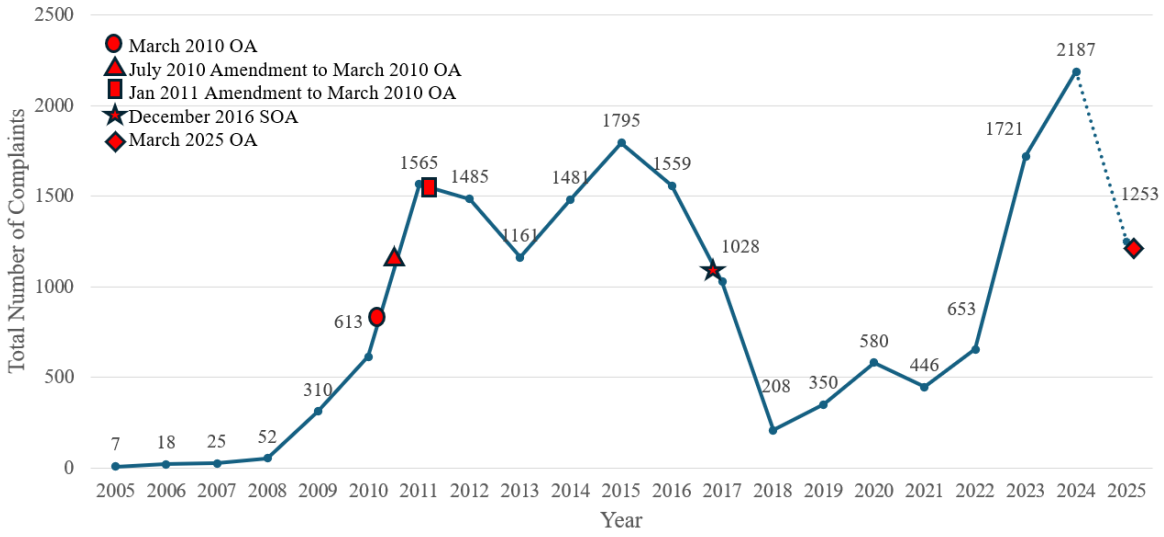


Figure 3-9
Complaints Reported to the South Coast AQMD from January 2005 through July 2025 Alleging SCL as the Source vs. Orders for Abatement (OA) Issued to Sunshine Canyon Landfill

Note: The dashed line for 2025 reflects data reported only through July

Source: South Coast AQMD. Community Investigations. Sunshine Canyon Landfill. Odor Complaints and Public Nuisance Violations. Available: https://www.aqmd.gov/home/news-events/community-investigations/sunshine-canyon-landfill/odor-complaints. Accessed August 2025.

3.2.6 Regulatory Setting

The following subsections summarize the key air quality-related rules, regulations, and policies that may apply to the Proposed Project.

Federal

Clean Air Act

The U.S. EPA is responsible for implementing the CAA, which is the comprehensive federal law that regulates air emissions from stationary and mobile sources. The CAA is designed to attain compliance with the NAAQS. For planning purposes, the U.S. EPA has divided the country into separate air quality control regions. (42 U.S.C. Section 7407; 40 CFR Part 81.) The U.S. EPA must determine whether each air quality region is attainment or nonattainment of the NAAQS for each criteria pollutant (42 U.S.C. Section 7407(d)(4); 42 U.S.C. Section 7501(2)). Once a region is designated nonattainment, the CAA requires states to prepare a SIP (42 U.S.C. Section 7410). Each SIP must provide for: 1) implementation of all reasonably available control measures as expeditiously as practicable, and 2) the attainment of the NAAQS. The U.S. EPA must review and approve each proposed SIP (42 U.S.C. Section 7410(a)(1)).

The South Coast Air Basin is an air quality control region under the CAA. The current attainment status of the Basin is presented in Table 3-2 of Section 3.2.2. The South Coast AQMD is responsible for preparing the Basin's AQMP (Health and Safety Code Section 40408). The AQMP serves as the SIP under the CAA (Health and Safety Code Section 40460). The AQMP sets forth a variety of general control measures designed to attain and maintain the NAAQS within the Basin (Health and Safety Code Section 40913).

The CAA is organized into seven main sections:

- Title I – Air Pollution Prevention and Control
    - Part A – Air Quality and Emission Limitations
    - Part B – Ozone Protection
    - Part C – Prevention of Significant Deterioration of Air Quality
    - Part D – Plan Requirements for Nonattainment Areas
- Title II – Emission Standards for Moving Sources
    - Part A – Motor Vehicle Emission and Fuel Standards
    - Part B – Aircraft Emission Standards
    - Part C – Clean Fuel Vehicles
- Title III – General Provisions
- Title IV – Noise Pollution
- Title IV-A – Acid Deposition Control
- Title V – Permits
- Title VI – Stratospheric Ozone Protection

Title I Part C of the CAA is Prevention of Significant Deterioration (PSD), which applies to new major sources or major modifications at existing sources for pollutants that are attainment or unclassifiable with the NAAQS. It requires installation of Best Available Control Technology (BACT), an air quality analysis, an additional impacts analysis, and public involvement. PSD review would not be required for the Proposed Project because it does not constitute a new major source or major modification to an existing source (physical change to existing equipment). Title

III of the CAA regulates TACs and is applicable to the Proposed Project as analyzed in Chapter 4. Title V of the CAA establishes a federal permit program. The Title V program is implemented by the South Coast AQMD for areas within its jurisdiction via South Coast AQMD Regulation XXX – Title V Permits. Title V permits incorporate all federally enforceable requirements as well as state and local requirements. SCL operates pursuant to its current Title V permit, which imposes all applicable CAA requirements on the facility.

NSPS, NESHAP, and Federal and State Plans

Additional U.S. EPA regulations are codified in the U.S. Code of Federal Regulations (CFR), Title 40: Protection of the Environment, which implements U.S. EPA's mission of protecting human health and the environment. Subchapter C of Title 40 includes all air programs for which the U.S. EPA is responsible. SCL is subject to the following significant programs within Title 40, Subchapter C:

- 40 CFR Part 60, Subpart Cf – New Source Performance Standards (NSPS) - Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills. This NSPS defines the allowable emission limits for CH4 and NMOC based on the landfill's design capacity and LFG generation rate. Landfills that have design capacities equal to or greater than 2.5 million megagrams by mass and 2.5 million cubic meters by volume must install a GCCS. Landfills must combust the collected gas at 98 percent efficiency or provide equivalent control. States are required to submit plans to the EPA outlining how they will implement the emission guidelines for MSW landfills within their jurisdiction. For SCL, this NSPS is implemented through South Coast AQMD Rule 1150.1, the state plan pursuant to 40 CFR Part 62.1100(b)(7), and additional federal plan requirements contained in 40 CFR 62 Subpart OOO.
- 40 CFR Part 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste Landfills. This NESHAP establishes NMOC emission standards for existing and new MSW landfills. Landfills subject to Subpart AAAA must comply with specific operational standards including monitoring emissions, maintaining proper collection systems, and managing landfill gas through collection and treatment systems. Landfills must monitor their emissions and report compliance data to the EPA.
- 40 CFR Part 62, Subpart OOO – Federal Plan Requirements for Municipal Solid Waste Landfills. This regulation applies to MSW landfills which began construction on or before July 17, 2014 and haven't been significantly modified or reconstructed since then. It establishes emission monitoring procedures and emission control standards for NMOC emissions if they reach a certain threshold.
- 40 CFR Part 62.1100(b)(7) – State Plans for Designated Facilities and Pollutants. This regulation requires each state to adopt a plan for how it will meet the NSPS described above under 40 CFR Part 60, Subpart Cf. California's plan is titled *California State Plan for Municipal Solid Waste Landfills* (CARB, 2017c). To develop the plan, California utilized the Landfill Methane Regulation (LMR; see discussion in the following section) to implement the NSPS. The plan was developed by CARB with the assistance of the State's air districts and other stakeholders through a public process, and was approved by the Board in 2017. In early 2020, the U.S. EPA partially approved and partially disapproved California's plan. While the LMR's provisions are equivalent to or more stringent than the NSPS, U.S. EPA's partial disapproval concerns the omission of certain provisions related to wellhead monitoring.

The NSPS and NESHAP for MSW landfills require emission controls for NMOC when uncontrolled NMOC emissions exceed certain thresholds. SCL's GCCS and enclosed flares, the latter which achieve 98 percent NMOC destruction efficiency, comply with the NSPS and NESHAP.

Greenhouse Gas Reporting Program

U.S. EPA's Greenhouse Gas Reporting Program (GHGRP), codified at 40 CFR Part 98, requires GHG data reporting from large GHG emission sources, fuel and industrial gas suppliers, and CO2 injection sites in the United States. In general, the GHGRP applies to facilities that emit 25,000 MT CO2e or more per year in the United States and requires such facilities to submit GHG emission reports on an annual basis. U.S. EPA electronically verifies data submitted and publishes the data. SCL is subject to the GHGRP and has a history of compliance with the program.

GHG Tailoring Rule

On May 13, 2010, U.S. EPA finalized the GHG Tailoring Rule to phase in the applicability of the PSD and Title V operating permit programs for GHGs. The GHG Tailoring Rule includes the largest GHG emitters while excluding smaller sources (restaurants, commercial facilities, and small farms). The first step (from January 2 to June 30, 2011) addressed the largest sources that contributed 65 percent of the stationary GHG emissions. Title V GHG requirements were triggered only when affected facility owners/operators were applying, renewing, or revising their permits for non-GHG pollutants. PSD GHG requirements were applicable only if sources were undergoing permitting actions for other non-GHG pollutants and the permitted action would increase GHG emissions by 75,000 metric tons of CO2e per year or more.

The second step (from July 1, 2011 to June 30, 2013) included sources that emit or have the potential to emit 100,000 metric tons of CO2e per year or more. A newly constructed source that is not a major source for non-GHG pollutants would not be subject to PSD GHG requirements unless it emits 100,000 metric tons of CO2e per year or more. Modifications to a major source would not be subject to PSD GHG requirements unless it generates a net increase of 75,000 metric tons of CO2e per year or more. Sources not subject to Title V would not be subject to Title V GHG requirements unless 100,000 metric tons of CO2e per year or more would be emitted.

The third step of the GHG Tailoring Rule, finalized on July 12, 2012, determined not to lower the current PSD and Title V applicability thresholds for GHG-emitting sources established in the GHG Tailoring Rule for steps 1 and 2. The GHG Tailoring Rule also promulgated regulatory revisions for better implementation of the federal program for establishing plantwide applicability limitations for GHG emissions. Recently, the U.S. Supreme Court held that U.S. EPA was limited to Step 1.

State

California Clean Air Act

The CCAA set forth a state regulatory program parallel to the federal CAA program. The CCAA was designed to attain compliance with the CAAQS within specified air quality basins (Health and Safety Code Section 39606). CARB adopted CAAQS for all pollutants for which the federal government has NAAQS, and also established standards for sulfates, visibility, H2S, and vinyl chloride. California standards are generally more stringent than the NAAQS. The CAAQS and NAAQS are presented in Table 3-1 in Section 3.2.2.

For the most part, CARB's air quality basins have the same boundaries as U.S. EPA's air quality control regions. Like U.S. EPA under the federal CAA, CARB must determine whether each air quality basin is attainment or nonattainment of the CAAQS for each criteria pollutant (Health and Safety Code Section 39608). The current attainment status of the Basin is presented in Table 3-2 of Section 3.2.2. An attainment plan must be prepared for each nonattainment region (Health and Safety Code Section 40911). Like federal SIPs, attainment plans must demonstrate how nonattainment basins will achieve and maintain the CAAQS. (Health and Safety Code Section 40913.) Within each region/basin, the same document generally serves as both the SIP and the attainment plan (Health and Safety Code Section 41650(a)). CARB must review and approve each attainment plan (Health and Safety Code Section 40911).

The South Coast Air Basin is an air quality basin under the CCAA. The South Coast AQMD's AQMP serves as the attainment plan under the CCAA for the Basin (Health and Safety Code Section 40460). The AQMP sets forth a variety of general control measures designed to attain and maintain the CAAQS within the Basin (Health and Safety Code Section 40913). Thus, the AQMP serves the same purpose under the CCAA and the parallel CAA as it provides a blueprint for attaining compliance with both the NAAQS and the CAAQS. CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the CCAA and CAA, and for regulating emissions.

AB 2588

The Air Toxic "Hot Spots" Information and Assessment Act (AB 2588), as amended by Senate Bill (SB) 1731, requires operators of certain stationary sources to inventory air toxic emissions from their operations and, if directed to do so by the local air district, prepare a health risk assessment (HRA) to determine the potential health impacts of such emissions. If the health impacts are determined to be significant (cancer risk greater than 10 per million or a non-cancer hazard index greater than 1.0), each facility operator must, upon approval of the HRA, provide public notification to affected individuals. SCL is subject to the requirements of AB 2588.

Proposition 65

Proposition 65 is officially named the Safe Drinking Water and Toxic Enforcement Act of 1986. The Proposition was intended to protect California citizens and the State’s drinking water sources from chemicals known to cause cancer, birth defects, or other reproductive harm, and to inform citizens about exposure to such chemicals. Under the statute, the state must maintain and update a list of such chemicals. Additionally, a person doing business cannot expose an individual to such a chemical without first giving a clear and reasonable warning. The warning can be provided in various ways, such as by labeling a consumer product, posting signs at the workplace, or distributing or publishing notices. SCL is subject to the requirements of Proposition 65.

Control of TACs under the TAC Identification and Control Program

Airborne Toxic Control Measures (ATCMs) are developed by CARB and implemented by the South Coast AQMD and other air districts through the adoption of regulations of equal or greater stringency. Generally, ATCMs reduce emissions to achieve exposure levels below a determined health threshold. Where no such threshold is determined, emissions are reduced to the lowest level achievable through BACT unless it is determined that an alternative level of emission reduction is adequate to protect public health.

Under California law, a federal NESHAP automatically becomes a state ATCM unless CARB has already adopted an ATCM for the source category. Once a NESHAP becomes an ATCM, CARB and each air pollution control or air quality management district have certain responsibilities related to adoption or implementation and enforcement of the NESHAP/ATCM.

OEHHA Health Risk Assessment Guidelines:

In 2003, OEHHA developed and approved its Health Risk Assessment Guidance document (2003 OEHHA Guidelines) and prepared a series of Technical Support Documents, reviewed and approved by the Scientific Review Panel, that provided new scientific information showing that early-life exposures to air toxics contribute to an increased estimated lifetime risk of developing cancer and other adverse health effects, compared to exposures that occur in adulthood. As a result, OEHHA developed the Revised OEHHA Guidelines in March 2015, which incorporated this new scientific information. The new method utilizes higher estimates of cancer potency during early life exposures. There are also differences in the assumptions on breathing rates and length of residential exposures. South Coast AQMD's Risk Assessment Procedures, which were used to estimate the health risks from the project, have been updated to reflect the 2015 OEHHA guidelines.

Executive Order S-3-05

In June 2005, Governor Schwarzenegger signed Executive Order S-3-05, which established statewide GHG emission reduction targets. The goals are to reduce GHG emissions to 2000 levels by 2010, then to 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

AB 32 - Global Warming Solutions Act

AB 32, the California Global Warming Solutions Act of 2006, represented the first enforceable state-wide program in the U.S. to cap all GHG emissions from major industries and include penalties for non-compliance. While acknowledging that national and international actions will be necessary to fully address the issue of global warming, AB 32 laid out a program to inventory and reduce GHG emissions in California and from power generation facilities located outside the state that serve California residents and businesses. AB 32 required CARB to:

- Establish a statewide GHG emissions cap for 2020, based on 1990 emissions;
- Adopt mandatory reporting rules for significant sources of GHGs;
- Adopt a GHG emission reduction plan indicating how the GHG emission reductions will be achieved via regulations, market mechanisms, and other actions; and
- Adopt regulations to achieve the maximum technologically feasible and cost-effective reductions of GHGs.

The combination of Executive Order S-3-05 and AB 32 required significant development and implementation of energy efficient technologies and shifting of energy production to renewable sources.

2008 Scoping Plan and 2014 Scoping Plan Update

Consistent with the AB 32 requirement to develop an emission reduction plan, CARB prepared a Scoping Plan indicating how GHG emission reductions will be achieved through regulations, market mechanisms, and other actions. The 2008 Scoping Plan called for reducing GHG emissions to 1990 levels by 2020. The Scoping Plan included the following key elements:

- Expansion and strengthening of existing energy efficiency programs and building and appliance standards;
- Expansion of the California Renewables Portfolio Standard to 33 percent;
- Development of a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related GHGs and pursuing policies and incentives to achieve those targets;
- Adoption and implementation of existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Targeted fees, including a public good charge on water use, fees on high global warming potential (GWP) gases, and a fee to fund the state's long-term commitment to AB 32 administration.

In 2014, CARB adopted an update to the 2008 Scoping Plan that built upon the initial scoping plan with new strategies to achieve the AB 32 state target of 1990 GHG emission levels by 2020. The 2008 Scoping Plan and 2014 Scoping Plan Update envisioned that reductions in GHG emissions would come from virtually all sectors of the economy and be accomplished from a combination of policies, planning, direct regulations, market approaches, incentives, and voluntary efforts.

Landfill Methane Regulation (LMR)

In response to AB 32, CARB approved the Landfill Methane Regulation (LMR), which became effective June 17, 2010. This regulation is a discrete early action GHG emissions reduction measure, meaning that it was one of the first regulations enacted in response to AB 32. The purpose of LMR is to reduce emissions of CH4 from MSW landfills. LMR requires owners and operators of certain landfills to install and optimally operate gas collection and control systems, monitor surface CH4 concentrations and other performance parameters, repair emission exceedances and other performance issues, source test, keep records of these actions and data, and report certain information to CARB or the air districts. LMR allows air districts to voluntarily enter into memoranda of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs. As a result, the South Coast AQMD implements LMR through Rule 1150.1 (see the discussion under the South Coast AQMD section).

Health and Safety Code Section 41700

This regulation states that, with exceptions for some composting and agricultural operations, a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any of those persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property.

SB 605 (Padilla, 2014)

SB 605 (Chapter 523, Statutes of 2014) calls for CARB to develop a Short-lived Climate Pollutant (SLCP) Strategy. SLCPs include black carbon (soot), (CH4), and fluorinated gases (F-gases, including HFCs). The strategy, approved by CARB on March 24, 2017, describes goals, regulations, incentives, and other efforts that:

- Encourage national and international deployment of California's well-established and proven measures to reduce black carbon emissions;

- Further reduce black carbon emissions from off-road and non-mobile sources, including forests;
- Significantly reduce CH4 emissions from dairy operations and effectively eliminate disposal of organics in landfills;
- Create and expand industries to capture value from organic waste resources in California;
- Significantly reduce fugitive CH4 emissions from oil and gas systems and other sources; and
- Accelerate the transition to low-GWP refrigerants and more energy-efficient refrigeration systems.

SB 1383 (Lara, 2016)

SB 1383 (Chapter 395, Statutes of 2016) set forth more specific legislative direction for control of SLCPs. It required CARB to approve and begin implementing its SLCP strategy to achieve the following reductions in emissions by 2030 compared with 2013 levels: CH4 by 40 percent, hydrofluorocarbons by 40 percent, and black carbon (non-forest) by 50 percent. The law also specified targets for reducing organic waste in landfills; namely, 50 percent reduction of organic waste disposal from 2014 levels by 2020, and 75 percent by 2025, including recovery of at least 20 percent of edible food for human consumption. SB 1383 also required CARB to consider regulations specific to the dairy and livestock industry, requiring up to a 40 percent reduction in CH4 emissions below 2013 levels by 2030, if feasible and certain conditions are met. Lastly, the bill required CalRecycle to adopt regulations to achieve specified targets for reducing organic waste in landfills.

SB 32 – Global Warming Solutions Act of 2016

In April 2015, Executive Order B-30-15 established an interim, statewide GHG emissions-reduction target of 40 percent below 1990 levels by 2030 and directed the state legislature to develop legislation to address this state target. This interim target was established to ensure the state meets the Executive Order (EO) S-3-05 target of reducing GHG emissions to 80 percent below 1990 levels by 2050. In 2016, SB 32 codified the EO B-30-15 target and directed state regulatory agencies to develop rules and regulations to meet the target.

2017 Scoping Plan Update

CARB adopted the 2017 Scoping Plan Update to provide the State's strategy to achieve the SB 32 2030 target of a 40 percent reduction in emissions compared with 1990 levels. The plan included existing and new measures to achieve the SB 32 2030 target. The 2017 Scoping Plan was designed to achieve substantial reductions beyond 2020 through continued implementation of existing regulations. The major elements of the framework proposed to achieve the 2030 target are as follows:

- SB 350
  - Achieve 60 percent Renewables Portfolio Standard by 2030.
  - Double the energy efficiency savings by 2030.
- Low Carbon Fuel Standard (LCFS)
  - Increase stringency (reduce carbon intensity by at least 20 percent by 2030).
- Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
  - Maintain existing GHG standards for light- and heavy-duty vehicles.
  - Put 4.2 million zero-emission vehicles (ZEVs) on the roads.
  - Increase ZEV buses, delivery and other trucks.

- Sustainable Freight Action Plan
  - Improve freight system efficiency.
  - Maximize use of near-zero emission vehicles and equipment powered by renewable energy.
  - Deploy over 100,000 zero-emission trucks and equipment by 2030.
- SLCP Reduction Strategy
  - Reduce emissions of CH4 and hydrofluorocarbons 40 percent below 2013 levels by 2030.
  - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
- Sustainable Communities Strategies
  - SB 375 requires each Metropolitan Planning Organization to include a Sustainable Communities Strategy in the regional transportation plan that demonstrates how the region will meet the greenhouse gas emission targets.
- Cap-and-Trade Program
  - A system in which power plants, refineries, and other large facilities buy and sell greenhouse gas emissions allowances to meet overall emissions limitations set by CARB.

The strategy of the 2017 Scoping Plan was to achieve the bulk of the needed reductions from the electric power, industrial fuel combustion, and transportation sectors. Cap-and-Trade would provide between 10 and 20 percent of the required reductions depending on the amounts achieved by the other reduction measures.

SB 100 (De Leon, 2018), California Renewables Portfolio Standard

SB 100 mandates that the California Public Utilities Commission, California Energy Commission (CEC), and CARB plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. This bill also updates the state's Renewables Portfolio Standard to include the following interim targets: 44 percent of retail sales procured from eligible renewable sources by December 31, 2024; 52 percent of retail sales procured from eligible renewable sources by December 31, 2027; and 60 percent of retail sales procured from eligible renewable sources by December 31, 2030. Under SB 100, the California Public Utilities Commission (CPUC), CEC, and CARB shall use programs under existing laws to achieve 100 percent clean electricity. The statute requires these agencies to issue a joint policy report on SB 100 every four years.

Executive Order B-55-18 (2018)

This Executive Order set a new statewide goal to achieve carbon neutrality as soon as possible, no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the statewide targets of reducing GHG emissions.

2022 Scoping Plan Update

In December 2022, CARB released the *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan). The 2022 Scoping Plan is the most comprehensive and far-reaching AB/SB 32 Scoping Plan developed to date. It identifies a technologically feasible and cost-effective path to achieve carbon neutrality by 2045 while also assessing the progress California is making toward reducing its GHG emissions by at least 40 percent below 1990 levels by 2030, as called for in SB 32 and laid out in the 2017 Scoping Plan. Given the focus on carbon neutrality, this Scoping Plan also includes discussion for the first time of the Natural and Working Lands sectors as both sources of emissions and carbon sinks. In line with the governor's Executive Order N-16-22 to take

additional actions to embed equity analysis and considerations, this plan works to center equity by addressing disparities for historically underserved and marginalized communities.

The two primary elements of the 2022 Scoping Plan are carbon reduction and carbon sequestration. The carbon reduction element includes:

- Rapidly move to zero-emission transportation by electrifying cars, buses, trains, and trucks;
- Phase out the use of fossil gas used for heating homes and buildings;
- Further regulate chemicals and refrigerants that are thousands of times more powerful at trapping heat than CO2;
- Provide communities with sustainable options for walking, biking, and public transit;
- Continue to build out the solar arrays, wind turbine capacity, and other resources that provide clean, renewable energy to displace fossil-fuel fired electrical generation; and
- Scale up new options such as renewable hydrogen for hard-to-electrify end uses and biomethane where needed.

Carbon sequestration will involve a re-envisioning of California's forests, shrublands/chaparral, croplands, wetlands, and other lands—that is, Natural and Working Lands—to ensure that they play as robust a role as possible in incorporating and storing more carbon in the trees, plants, soil, and wetlands that cover 90 percent of the state's 105 million acres.

The 2022 Scoping Plan specifically addresses CH4, noting that human sources of CH4 emissions are estimated to be responsible for up to 25 percent of current warming. The three largest sources of California's CH4 emissions are, in descending order, the dairy and livestock industry, landfills, and oil and gas systems. Regarding landfills, the 2022 Scoping Plan acknowledges that GCCS remain the most effective method for reducing CH4 emissions from waste once it is placed in a landfill. Therefore, one of the strategies in the 2022 Scoping Plan is to increase landfill CH4 capture (Table 2-1 of the Scoping Plan). According to the 2022 Scoping Plan, a direct emission reduction of 10 percent is achievable across the state's landfills by 2030 through a combination of improvements in operational practices, use of lower permeability covers, advanced landfill gas collection systems, and increased monitoring to detect and repair leaks. (CARB, 2022).

AB 1279 (Muratsuchi, 2022)

AB 1279 establishes the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045 statewide anthropogenic GHG emissions are reduced at least 85 percent below 1990 levels. The bill requires CARB to ensure that Scoping Plan updates identify and recommend measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable CO2 removal solutions and carbon capture, utilization, and storage technologies.

SB 1020 (Laird, 2022)

SB 1020 adds interim renewable energy and zero carbon energy retail sales of electricity targets to California end-use customers set at 90 percent in 2035 and 95 percent in 2040. It accelerates the timeline required to have 100 percent renewable energy and zero carbon energy procured to serve state agencies from the original target year of 2045 to 2035. This bill requires each state agency to individually achieve the 100 percent goal by 2035 with specified requirements. This bill requires the CPUC, CEC, and CARB to issue an annual joint reliability progress report that reviews system and local reliability. The bill also modifies the requirement for CARB to hold a portion of its

Scoping Plan workshops in regions of the state with the most significant exposure to air pollutants by further specifying that this includes communities with minority populations or low-income communities in areas designated as being in extreme federal non-attainment.

South Coast AQMD

South Coast AQMD's primary mandate is attaining the CAAQS and NAAQS for criteria pollutants within the Basin. South Coast AQMD also has a general responsibility pursuant to Health and Safety Code Section 41700 to control emissions of air contaminants and prevent endangerment to public health. Additionally, state law requires South Coast AQMD to implement airborne toxic control measures (ATCM) adopted by CARB and to implement the Air Toxics "Hot Spots" Act. As a result, South Coast AQMD has regulated pollutants other than criteria pollutants such as TACs, GHGs, and stratospheric ozone depleting compounds. South Coast AQMD has developed rules to control criteria and non-criteria pollutants from both new and existing sources. These rules originated through state directives, CAA requirements, and the South Coast AQMD rulemaking process.

Rule 212 – Standards for Approving Permits

Rule 212 requires notification of South Coast AQMD's intent to grant a permit to construct a significant project, defined as a new or modified permit unit located within 1,000 feet of a school (a state law requirement under AB 3205), a new or modified permit unit posing a maximum individual cancer risk of one in one million (1×10^{-6}) or greater, or a new or modified facility with criteria pollutant emissions exceeding specified daily maximums. Distribution of notice is required to all addresses within a quarter mile radius, or other area deemed appropriate by South Coast AQMD.

Rule 402 – Nuisance

Rule 402 prohibits the discharge of air contaminants which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

Rule 1118.1 – Control of Emissions from Non-Refinery Flares

The purpose of Rule 1118.1 is to reduce NOx and VOC emissions from the flaring of produced gas, digester gas, landfill gas, and other combustible gases or vapors. The rule sets emissions limits, source testing requirements, and monitoring, recordkeeping, and reporting requirements for flares.

Regulation XIII – New Source Review

Regulation XIII applies to the installation of a new source or the modification of an existing source which may cause the emission of any nonattainment air pollutant. The purpose of the regulation is to ensure that the operation of such facilities does not interfere with progress in attainment of the NAAQS, and that future economic growth within the South Coast AQMD is not unnecessarily restricted. Under this regulation, Rule 1303 includes requirements for BACT, ambient air quality analysis through dispersion modeling, and emission offsets.

Regulation XXX – Title V Permits

The U.S. EPA oversees permitting under Title V of the CAA. Title V is a federal program designed to standardize air quality permits and the permitting process for major sources of emissions across the country. The U.S. EPA defines a "major source" as a facility that emits, or has the potential to

emit, any criteria pollutant or HAP at levels equal to or greater than the Major Source Thresholds (MST). The MST for criteria pollutants may vary depending on the attainment status of the geographic area in which the facility is located and the criteria pollutant or HAP of interest.

Most Title V operating permits are issued by state or local agencies. South Coast AQMD adopted Regulation XXX – Title V Permits in 1993 to interface the federal permitting requirements with the submitted Title V permit program. Regulation XXX defines permit application and issuance procedures as well as compliance requirements associated with the federal Operating Permit Program as required by Title V. It also implements requirements for GHGs pursuant to 40 CFR Part 70.

SCL operates pursuant to a Title V operating permit issued by the South Coast AQMD on May 15, 2018 (Facility ID 049111; Revision 14). Although this Title V permit expired on April 25, 2022, SCL applied for a Title V permit renewal on October 27, 2021, which was 180 days prior to the expiration. Per Rule 3003(a)(6), the renewal application qualified as a timely application submittal. The South Coast AQMD has not issued an updated Title V permit to SCL.

The Proposed Project would require modifications to the Title V permit. As such, applications for Title V permit revisions have been submitted to South Coast AQMD (see Section 2.6). The applications are available upon request from South Coast AQMD.

Control of TACs under the Air Toxics "Hot Spots" Act

On October 2, 1992, the South Coast AQMD Governing Board adopted public notification procedures for Phase I and II facilities. These procedures specify that AB 2588 facilities must provide public notice when exceeding the following risk levels:

- Maximum individual cancer risk greater than 10 in one million (10×10^{-6}); or
- Total hazard index greater than 1.0 for TACs except lead, or greater than 0.5 for lead.

Public notice is to be provided by letters mailed to all addresses and all parents of children attending school in the impacted area. In addition, facilities must hold a public meeting and provide copies of the facility risk assessment in all school libraries and a public library in the impacted area. The AB 2588 Toxics “Hot Spots” Program is implemented through Rule 1402 – Control of Toxic Air Contaminants from Existing Sources.

Environmental Justice (EJ)

Environmental justice has long been a focus of the South Coast AQMD. In 1990, the South Coast AQMD formed an Ethnic Community Advisory Group that was restructured as the Environmental Justice Advisory Group (EJAG) in 2008. EJAG’s mission is to advise and assist South Coast AQMD in protecting and improving public health in the most impacted communities through the reduction and prevention of air pollution.

In 1997, the South Coast AQMD Governing Board adopted four guiding principles and ten initiatives (http://www.aqmd.gov/nav/about/initiatives/environmental-justice/history) to ensure environmental equity. Also in 1997, the South Coast AQMD Governing Board expanded the initiatives to include the “Children’s Air Quality Agenda” focusing on the disproportionate impacts of poor air quality on children. Some key initiatives that have been implemented were the Multiple Air Toxics Exposure Studies (MATES, MATES II, MATES III, MATES IV, and MATES V); the Clean Fleet Rules; Cumulative Impact Reduction Strategies; funding for lower

emitting technologies under the Carl Moyer Program; the Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning; a guidance document on Air Quality Issues in School Site Selection; and the 2000 Air Toxics Control Plan and its 2004 Addendum. Key initiatives focusing on communities and residents include the Clean Air Congress; the Clean School Bus Program; Asthma and Air Quality Consortium; Brain and Lung Tumor and Air Pollution Foundation; air quality presentations to schools and community and civic groups; and Town Hall meetings. Technological and scientific projects and programs have been a large part of South Coast AQMD's EJ program since its inception. Over time, the EJ program's focus on public education, outreach, and opportunities for public participation have greatly increased. Public education materials and other resources for the public are available on South Coast AQMD's website (www.aqmd.gov).

Rule 1150.1 – Control of Gaseous Emissions from Municipal Solid Waste Landfills

The purpose of Rule 1150.1 is to reduce NMOC, VOC, and TAC emissions from MSW landfills to prevent public nuisance and possible detriment to public health caused by exposure to such emissions. This rule also reduces CH4 emissions (a GHG). The rule requires a gas collection and gas control system that is designed to handle the maximum expected gas flow rate from the entire area of the MSW landfill that requires control, to minimize migration of subsurface gas. The system must reduce CH4 by at least 99 percent by weight and reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 ppmv. The rule also includes requirements for LFG sampling and monitoring, and recordkeeping and reporting.

Rule 1401 – New Source Review of Toxic Air Contaminants

Rule 1401 applies to facilities, including SCL, with new, relocated, or modified equipment that emit TACs. This rule establishes allowable health risks for permit units that require new or modified permits. The rule lists nearly 300 TACs that are evaluated during South Coast AQMD's permitting process. Rule 1401 applies to SCL's permit units based on the maximum potential to emit. Rule 1401.1 – Requirements for New and Relocated Facilities Near Schools sets risk thresholds for new and relocated facilities near schools. To provide additional protection to school children, the requirements are more stringent than those for other air toxics rules.

Rule 1402 – Control of Toxic Air Contaminants from Existing Sources

Rule 1402 applies to facilities, including SCL, that are subject to the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588), and facilities with emissions that exceed significant or action risk levels. This rule reduces the health risk associated with emissions of TACs from existing sources by specifying limits for the maximum individual cancer risk, cancer burden, and non-cancer acute and chronic HI, and requiring facilities to implement risk reduction plans to achieve these risk limits, as required by the Hot Spots Act and this rule. Rule 1402 requires preparation of an HRA to demonstrate compliance with specified limits.

Basin GHG Policy and Inventory

The South Coast AQMD has established a policy, adopted by the South Coast AQMD Governing Board at its September 5, 2008 meeting, to actively seek opportunities to reduce emissions of criteria, toxic, and climate change pollutants. The policy includes the intent to assist businesses and local governments implementing climate change measures, decrease the agency's carbon footprint, and provide climate change information to the public. The South Coast AQMD will take the following actions:

1. Work cooperatively with other agencies/entities to develop quantification protocols, rules, and programs related to GHGs;
2. Share experiences and lessons learned relative to South Coast AQMD Regulation XX – Regional Clean Air Incentives Market (RECLAIM), to help inform state, multi-state, and federal development of effective, enforceable cap-and-trade programs. To the extent practicable, staff will actively engage in current and future regulatory development to ensure that early actions taken by local businesses to reduce GHGs will be treated fairly and equitably. South Coast AQMD staff will seek to streamline administrative procedures to the extent feasible to facilitate the implementation of AB 32 measures;
3. Review and comment on proposed legislation related to climate change and GHGs, pursuant to the Guiding Principles for South Coast AQMD Staff Comments on Legislation Relating to Climate Change approved at the South Coast AQMD Governing Board's Special Meeting in April 2008;
4. Provide higher priority to funding Technology Advancement Office projects or contracts that also reduce GHG emissions;
5. Develop recommendations through a public process for an interim GHG CEQA significance threshold, until such time that an applicable and appropriate statewide significance level is established. Provide guidance on analyzing GHG emissions and identify mitigation measures. Continue to consider GHG impacts and mitigation in South Coast AQMD lead agency documents and in comments when South Coast AQMD is a responsible agency;
6. Revise the South Coast AQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning to include information on GHG strategies as a resource for local governments. The Guidance Document will be consistent with state guidance, including CARB's Scoping Plan;
7. Update the Basin's GHG inventory in conjunction with each Air Quality Management Plan. Information and data used will be determined in consultation with CARB to ensure consistency with state programs. Staff will also assist local governments in developing GHG inventories;
8. Bring recommendations to the South Coast AQMD Governing Board on how the agency can reduce its own carbon footprint, including drafting a Green Building Policy with recommendations regarding South Coast AQMD purchases, building maintenance, and other areas of products and services. Assess employee travel as well as other activities that are not part of a GHG inventory and determine what GHG emissions these activities represent, how they could be reduced, and what it would cost to offset the emissions;
9. Provide educational materials concerning climate change and available actions to reduce GHG emissions on the South Coast AQMD website, in brochures, and other venues to help cities and counties, businesses, households, schools, and others learn about ways to reduce their electricity and water use through conservation or other efforts, improve energy efficiency, reduce vehicle miles traveled, access alternative mobility resources, utilize low emission vehicles and implement other climate friendly strategies; and
10. Conduct conferences, or include topics in other conferences, as appropriate, related to various aspects of climate change, including understanding impacts, technology advancement, public education, and other emerging aspects of climate change science.

On December 5, 2008, the South Coast AQMD Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the South Coast AQMD is lead agency. South Coast AQMD's recommended interim GHG significance threshold proposal uses a tiered approach to determining significance. Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA. Tier 2 consists of determining whether or not the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. Tier 3 establishes a screening significance threshold level to determine significance using a 90 percent emission capture rate approach, which corresponds to 10,000 metric tons of CO2 equivalent emissions per year (MTCO2e/year). Tier 4, to be based on performance standards, is yet to be developed. Under Tier 5 the project proponent would allow offsets to reduce GHG emission impacts to less than the proposed screening level. If CARB adopts statewide significance thresholds, South Coast AQMD staff plans to report back to the South Coast AQMD Governing Board regarding any recommended changes or additions to the South Coast AQMD's interim threshold.

Los Angeles County

Los Angeles County General Plan 2035

The Los Angeles County General Plan provides the policy framework for how and where the County's unincorporated areas will grow through the year 2035. The General Plan guides growth countywide through goals, policies, and programs that discourage sprawling development patterns; by protecting areas with hazard, environment, and resource constraints; by encouraging infill development in areas near transit, services, and existing infrastructure; and by making a strong commitment to ensuring sufficient services and infrastructure (Los Angeles County, 2024). The General Plan's Air Quality Element summarizes air quality issues and outlines the goals and policies in the General Plan that will improve air quality and reduce GHG emissions. The following key Air Quality Element policies are applicable to the Proposed Project:

- Policy AQ 1.1: Minimize health risks to people from industrial toxic or hazardous air pollutant emissions, with an emphasis on local hot spots, such as existing point sources affecting immediate sensitive receptors.

- Policy AQ 1.3: Reduce particulate inorganic and biological emissions from construction, grading, excavation, and demolition to the maximum extent feasible.

- Policy AQ 3.4: Participate in local, regional and state programs to reduce greenhouse gas emissions.

In addition, the following key Solid Waste Element policy is applicable to the Proposed Project:

- Policy PS/F 5.1: Maintain an efficient, safe and responsive waste management system that reduces waste while protecting the health and safety of the public.

Los Angeles County 2045 Climate Action Plan

The Los Angeles County 2045 Climate Action Plan (2045 CAP) is the County's plan for reducing GHG emissions in the unincorporated areas of the county (Los Angeles County, 2024a). The 2045 CAP identifies the following three GHG emission reduction targets to ensure that the County contributes its fair share to statewide GHG emissions reductions pursuant to SB 32, AB 1279, and the 2022 Scoping Plan:

- 40 percent below 2015 levels by 2030
- 50 percent below 2015 levels by 2035
- 83 percent below 2015 levels by 2045
- Carbon neutrality by 2045 (aspirational goal)

The 2045 CAP identified 25 GHG emission reduction measures that are grouped into the following source categories: energy supply; transportation; building energy and water; waste; and agriculture, forestry, and other land uses. The reduction measures pertaining to the waste category address reduction and reuse of waste at the source; waste diversion from landfills through participation in recycling programs; and waste conversion technologies such as anaerobic digestion and biomass conversion, which produce biogas that can be used to produce heat and electricity, pipeline gas, and other beneficial products such as compost and fertilizer.

City of Los Angeles

Sustainable City pLAn / L.A.'s Green New Deal

In 2015, the City of Los Angeles developed the Sustainable City pLAn (pLAn), which outlined the City's long-term sustainability goals and targets across various sectors, including energy, transportation, water, waste, and environmental justice through 2035. The pLAn was revised in 2019 as L.A.'s Green New Deal; it extends the roadmap through 2050. The 2019 plan sets targets, milestones, and initiatives for various sectors. Some key features include 100 percent renewable energy by 2045, 100 percent net zero carbon new buildings by 2050, and 100 percent ZEVs by 2050 (City of Los Angeles, 2019).

City of Los Angeles General Plan

The City of Los Angeles General Plan prescribes policy goals and objectives that inform land use decisions and ultimately shape and guide the physical development of the City. The General Plan includes 11 citywide elements in addition to a Land Use Element, composed of 35 Community Plans. The current air quality element was adopted by the City Council in 1992 (City of Los Angeles, 1992). The following policies in the air quality element are applicable to the Proposed Project:

- 1.3.1 Minimize particulate emissions from construction sites.
- 4.3.2 Revise the City's General Plan/Community Plans to ensure that new or relocated major air pollution sources are located to minimize significant health risks to sensitive receptors.

CHAPTER 4

ENVIRONMENTAL IMPACTS, MITIGATION MEASURES, AND CUMULATIVE IMPACTS

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4.12 Cumulative Air Quality and Greenhouse Gas Emissions Impacts

4.1 INTRODUCTION

The CEQA Guidelines require environmental documents to identify significant environmental effects that may result from a proposed project. [CEQA Guidelines Section 15126.2(a)]. Direct and indirect significant effects of a project on the environment should be identified and described, with consideration given to both short- and long-term impacts. The discussion of environmental impacts may include, but is not limited to, the following: resources involved; physical changes; alterations of ecological systems; health and safety problems caused by physical changes; and other aspects of the resource base, including water, scenic quality, and public services. If significant adverse environmental impacts are identified, the CEQA Guidelines require a discussion of measures that could either avoid or substantially reduce any adverse environmental impacts to the greatest extent feasible. [CEQA Guidelines Section 15126.4].

The categories of environmental impacts to be studied in a CEQA document are established by CEQA (Public Resources Code Section 21000 et seq.), and the CEQA Guidelines, as codified in Title 14 California Code of Regulations Section 15000 et seq. Under the CEQA Guidelines, there are currently 20 environmental topic areas for which potential adverse impacts from a project are evaluated. As allowed by CEQA, the South Coast AQMD, as lead agency, has a customized Environmental Checklist with content that is largely based on the Environmental Checklist Form in Appendix G of the current CEQA Guidelines (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000–15387) but is organized differently. For example, South Coast AQMD's customized Environmental Checklist: 1) combines the "air quality" and "greenhouse gas emissions" environmental topic areas into one section and includes an additional air quality-related question; 2) combines the "cultural resources" and "tribal cultural resources" areas into one section; 3) separates the "hazards and hazardous materials" environmental topic area into two sections: "hazards and hazardous materials" and "solid and hazardous waste;" and 4) extracts questions in the "utilities/service systems" environmental topic area and moves them into other applicable environmental topic areas such as "energy," "hydrology and water quality" and "solid and hazardous waste." For each environmental topic area, per CEQA Guidelines Section 15064.7(a), "a threshold of significance is an identifiable quantitative, qualitative or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant." The South Coast AQMD has developed unique thresholds of significance for the determination of significance in accordance with CEQA Guidelines Section 15064.7(b).

The CEQA Guidelines also indicate that the degree of specificity required in a CEQA document depends on the type of project being proposed. [CEQA Guidelines Section 15146]. The detail of the environmental analysis for certain types of projects may not be as great as for others. As explained in Chapter 1, the analysis of the Proposed Project indicated that a Subsequent Environmental Impact Report (SEIR) is the appropriate type of CEQA document to be prepared.

4.2 ENVIRONMENTAL TOPIC AREAS NOT EVALUATED IN THE 1999 FINAL SEIR

The LCI and the California Natural Resources Agency (CNRA) have updated the CEQA Guidelines several times since the 1999 Final SEIR was prepared. The environmental topic areas

that must be evaluated under the current CEQA Guidelines do not exactly correspond to the environmental topic areas that were in the CEQA Guidelines at the time of the evaluation in the 1999 Final SEIR. Table 4-1 lists the environmental topic areas identified by South Coast AQMD based on the current CEQA Guidelines, and compares them to the environmental topic areas evaluated in the 1999 Final SEIR. The table shows that most of the environmental topic areas required by the current CEQA Guidelines were evaluated in the 1999 Final SEIR despite some differences in organization and terminology. However, four environmental topic areas – agriculture and forestry resources, greenhouse gas emissions, tribal cultural resources, and wildfire – were not evaluated in the 1999 Final SEIR but are now required to be evaluated under the current CEQA Guidelines.

Table 4-1
Comparison of Environmental Topic Areas in South Coast AQMD Current CEQA Checklist to 1999 Final SEIR

South Coast AQMD Current CEQA Checklist	1999 Final SEIR[1]
Aesthetics	4.18 Aesthetics/Views 4.6 Light and Glare
Agriculture and Forestry Resources	**Not evaluated** [2]
Air Quality and Greenhouse Gas Emissions	4.2 Air Quality
	Greenhouse Gas Emissions not evaluated [2]
Biological Resources	4.4 Biological Resources
Cultural and Tribal Cultural Resources	4.19 Cultural Resources
Energy	4.15 Energy Conservation 4.16 Utilities
Geology and Soils	4.1 Earth Resources
Hazards and Hazardous Materials	4.9 Risk of Upset 4.17 Safety
Hydrology and Water Quality	4.3 Surface and Groundwater 4.16 Utilities
Land Use and Planning	4.7 Land Use
Mineral Resources	4.8 Natural Resources
Noise	4.5 Noise
Population and Housing	4.10 Population 4.11 Housing
Public Services	4.14 Public Services
Recreation	4.14 Public Services
Solid and Hazardous Waste	4.16 Utilities
Transportation	4.12 Right-of-way and Access 4.13 Transportation and Circulation
Wildfire	**Not evaluated** [2]
Mandatory Findings of Significance	**Not evaluated** [2]

Notes:
[1] Section numbers are from the 1997 Draft SEIR.
[2] CEQA did not require an evaluation of this environmental topic area at the time the 1997 Draft SEIR and 1999 Final SEIR were prepared.

4.2.1 Agriculture and Forestry Resources

The CEQA Guidelines did not require agriculture and forestry resources impacts to be evaluated at the time the 1997 Draft SEIR and 1999 Final SEIR were prepared. The "Agriculture and Forestry Resources" environmental topic area was added to the CEQA checklist as part of the revisions to the CEQA Guidelines Appendix G (Environmental Checklist Form) in 2002 as part of the adoption of CEQA Guidelines Amendments in CCR Title 14, Section 15000 et seq. The 2002 CEQA Guidelines Amendments included updates to the environmental checklist to require analysis of agricultural and forestry resource impacts when considering the potential environmental effects of projects. Accordingly, Section 4.5 of this SEIR includes an analysis of agriculture and forestry resources impacts associated with the Proposed Project.

4.2.2 Greenhouse Gas Emissions

The CEQA Guidelines did not require GHGs to be evaluated at the time the 1997 Draft SEIR and 1999 Final SEIR were prepared. The CEQA Guidelines incorporated GHG requirements starting in 2010. Accordingly, Section 4.4 of this SEIR includes an analysis of GHG emissions associated with the Proposed Project.

4.2.3 Tribal Cultural Resources

Tribal cultural resources impacts were required to be evaluated as a separate environmental topic area as part of the 2019 update to the CEQA Guidelines. This environmental topic area was addressed in Section 4.19 Cultural Resources of the 1997 Draft SEIR (p. 4-477) and the 1999 Final SEIR (pp. 2-106 to 2-108). Accordingly, Section 4.5 of this SEIR includes a summary of the tribal cultural resources impacts analysis associated with the Proposed Project.

4.2.4 Wildfire

Wildfire impacts were required to be evaluated as a separate environmental topic area as part of the 2019 update to the CEQA Guidelines. This environmental topic area was addressed in Section 4.14.1 Fire and Emergency Medical Services of the 1997 Draft SEIR (p. 4-389) and in the 1999 Final SEIR (pp. 2-98 to 2-101). Section 4.5 of this SEIR includes a summary of the wildfire impacts analysis associated with the Proposed Project.

4.3 POTENTIAL SIGNIFICANT ENVIRONMENTAL IMPACTS

This section identifies the environmental topic areas for which the proposed SCL Flare Capacity Expansion Project would have the potential to cause significant environmental impacts. The CEQA Guidelines Section 15162 provide the following guidance for Subsequent EIRs:

> *(a) When an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:*
>
> > *(1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new*

significant environmental effects or a substantial increase in the severity of previously identified significant effects;

(2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

(3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The proposed SCL Flare Capacity Expansion Project is best described by paragraph (a)(1). Therefore, the Proposed Project will require major revisions of the previous 1999 Final SEIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

4.3.1 Previously Identified Significant Impacts in the 1999 Final SEIR

This document is a SEIR to the 1999 Final SEIR for Sunshine Canyon Landfill. The 1999 Final SEIR evaluated the impacts from construction and operation of the "City/County Landfill Project". The 1999 Final SEIR described the City/County Landfill Project as the development, operation, maintenance, and monitoring of a Class III, nonhazardous solid waste landfill in Sunshine Canyon in the City of Los Angeles and Los Angeles County. The City and County landfilling operations would be combined into a single landfill operation. The resulting landfill footprint would encompass approximately 451 acres with a net waste disposal capacity of 90 million tons. The landfill would accept an average daily waste intake of 11,000 tons per day and a maximum daily waste intake of 12,100 tons per day. The 1999 Final SEIR estimated that the SCL facility needed five 4,167 scfm flares. Therefore, the air quality analysis in the 1999 Final SEIR was based on an

assumed total LFG flow of 20,835 scfm at 40% CH4 (which is equivalent to 16,100 scfm at 50% CH4).

The 1999 Final SEIR concluded that significant and unavoidable adverse impacts from the City/County Landfill Project would occur for the environmental topic area of air quality. After mitigation, construction emissions would be significant for NOx and PM10, and operational emissions would be significant for NOx, VOC[2], PM10, SOx, and CO. The 1999 Final SEIR also determined that cumulative operational emissions would be significant for VOC, SOx, and CO. Table 4-2 summarizes the significant project-level construction and operational air quality impacts previously identified in the 1999 Final SEIR.

Mitigation measures were made a condition of project approval, and a Mitigation Monitoring and Reporting Program was adopted (see Table 7.4-1 [Revised] of the 1999 Final SEIR). A Statement of Overriding Considerations was prepared and adopted for the City/County Landfill Project.

Table 4-2
Summary of Significant and Unavoidable Project-Level Impacts from the 1999 Final SEIR

Project Phase	Description of Significant Impact	Primary Sources Contributing to the Impact
Construction	Daily emissions of NOx and PM10	• Diesel exhaust from construction equipment. • Diesel exhaust from material delivery trucks. • Fugitive dust (PM10) from earth disturbance.
Operation	Daily emissions of NOx, VOC, PM10, SOx, and CO	• Diesel exhaust from refuse trucks. • Diesel exhaust from onsite heavy equipment. • LFG combustion emissions from flares. • Fugitive dust (PM10) from landfilling operations.

Source: 1999 Final SEIR. Table 1.10-1 (Revised), Table 4.2-147 (Revised), and Table 4.2-158 (Revised).

4.3.2 Potentially Significant Impacts from the Proposed Project

The proposed SCL Flare Capacity Expansion Project (i.e., Proposed Project) would install two new LFG flares (Flares 12, and 13) and two new electric blowers, and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). This pad is in the main operational equipment area in the northern portion of SCL.

Once construction activities associated with the Proposed Project are completed, SCL would have the capacity to collect and combust more LFG during operation. Though the operation of flares is necessary to comply with South Coast AQMD Rule 1150.1, the increased LFG flaring capacity would result in an increase in the maximum potential emissions of criteria pollutants, TACs, and GHGs from the SCL flares. Therefore, the following environmental topic areas need to be assessed in Section 4.4 to determine whether the Proposed Project would produce new significant environmental effects or cause a substantial increase in the severity of previously identified significant effects:

[2] The 1999 Final SEIR used the term reactive organic gases (ROG). This document uses an equivalent term, volatile organic compounds (VOC).

- Air Quality
- Greenhouse Gas (GHG) Emissions

The environmental impact analyses for air quality and GHGs in this section incorporates a "worst-case" approach. This approach entails the premise that whenever the analysis required that assumptions be made, those assumptions that resulted in the greatest adverse impacts were typically chosen. For example, the analyses assumed that the five existing flares and two proposed flares would operate continuously at their maximum rated LFG combustion rates even though this scenario would typically occur only when the SGP LFGTE facility is temporarily offline. This approach ensures that all potential effects of the Proposed Project were documented for the decision-makers and the public.

For the other environmental topic areas in the 1999 Final SEIR which were previously concluded to have either no impacts or less than significant impacts, Section 4.5 of this SEIR summarizes the conclusions reached in the 1999 Final SEIR and explains why the Proposed Project will not introduce new significant environmental effects or a substantially increase the severity of significant effects previously identified the 1999 Final SEIR. Thus, air quality and GHGs are the only environmental topic areas which have been identified in this SEIR as having potentially significant adverse impacts that may result from the Proposed Project. Section 4.4 contains a detailed analysis of these impact areas.

4.4 AIR QUALITY AND GREENHOUSE GAS EMISSIONS IMPACTS

4.4.1 Introduction

As explained in Section 4.3, the Proposed Project may result in potentially significant adverse air quality and GHG impacts. Project-specific and cumulative adverse air quality and GHG impacts associated with increased emissions of air pollutants during the construction and operation phases of the Proposed Project are evaluated in this section.

4.4.2 Previously Identified Mitigation Measures

The 1993 Final EIR and 1999 Final SEIR resulted in the development of mitigation measures to reduce potentially significant environmental impacts of SCL activities. The Proposed Project would be required to implement the mitigation measures, where applicable, to reduce potentially significant impacts and ensure compliance with the current landfill CUP requirements. Specific to air quality, the following SCL MMRS (Appendix B) mitigation measures would apply directly to the Proposed Project and therefore, were incorporated into the analysis of air quality and GHG impacts:

> **MMRS 6.01:** The permittee shall utilize the most effective available technology and methodology to avert fugitive dust emissions. In addition to the revegetation measures required in Condition 41 and in the Mitigation Monitoring and Reporting Summary, the program shall include:
> - The permittee shall not engage in any excavation or other operation during high wind conditions (15 minute average wind speed exceeds 15 mph or instantaneous wind speed exceeds 25 mph), or when such conditions may be reasonably expected, that would

result in significant emissions of fugitive dust which cannot be confined to the area under the permittee's control.

- Except during rainy conditions, any active area or active cover soil stockpile shall be moistened with water on a daily basis unless wind conditions dictate otherwise, in which case soil sealant shall be used in addition to water.
- All access roads to permanent facilities, except those infrequently used, shall be paved. The paved access road to the fill areas shall be extended as new areas are opened to minimize the length of the dirt road. Winter deck access roads shall be paved or surfaced with recycled asphalt, aggregate materials or soil stabilization products to minimize the length of untreated dirt. All paved roads in regular use are regularly cleaned to remove dirt left by trucks or other vehicles, and at least once daily on operating days.
- The permittee shall install and maintain devices to monitor wind speed and direction, as specified by the South Coast AQMD, and shall retain qualified personnel to read and interpret the data, to obtain or utilize information on predicted wind conditions and to assist in the planning of operations at the Facility.
- The permittee shall submit quarterly reports to the Director of Public Works listing all fugitive dust and odor complaints received from residents and all Notices of Violation issued by the South Coast AQMD or the LEA as well as the measures undertaken to address the complaints and to correct the violations. The Director of Public Works and the Department of Health Services Solid Waste Management Plan (DHS SWMP) shall each have the authority to require the permittee to implement additional corrective measures when such measures are deemed appropriate to protect public health and safety.

MMRS 6.05: The landfill will be operated in accordance with South Coast AQMD Rule 1150.1 and other South Coast AQMD regulations and with applicable Department of Public Works requirements.

MMRS 6.07: Flaring systems shall be sited as required by the South Coast AQMD and constructed using BACT. The flames shall be totally contained within the stack. Flame arrestors shall be provided to the satisfaction of the South Coast AQMD and the County Forester and Fire Warden. The permittee will convert gas, as it is recovered, to a renewable energy resource and to the extent technically and economically feasible.

MMRS 6.09: The following mitigation measures will reduce emissions to the maximum extent reasonably feasible:

- The permittee will maintain equipment in tune per manufacturer’s specifications.
- The permittee will use catalytic converters on gasoline-powered equipment.
- The permittee will tune all diesel engines to manufacturer’s specifications.
- High-pressure fuel injectors will be installed.
- Heavy equipment will use reformulated, low-emission diesel fuel.
- The permittee will substitute electric and gasoline-powered equipment for diesel-powered equipment where feasible.
- Where applicable, equipment will not be left idling for prolonged periods.
- The permittee will curtail (cease or reduce) construction during periods of high ambient pollutant concentrations (i.e., Stage II smog alerts).

> **MMRS 7.04:** Risks associated with the gas collection and flaring system shall be mitigated through use of flexible piping, flame arrestors, sensors, and automatic shutoff controls. Numerous safety shutdown devices have been designed and installed into the flare station, including a telephone auto-dialer, to provide emergency notification. All gas extraction equipment, including gas condensate and propane tanks, shall be adequately secured to prevent damage during a seismic event. Inspections of the gas collection and flaring system shall be performed after ground-shaking from an earthquake, and necessary action shall be taken to correct any potential problems.

In addition, another mitigation measure, MMRS 7.03 is required to be implemented by SCL to reduce potential impacts from landfill odors. MMRS 7.03 specifically requires an odor/LFG monitoring program for landfill operations. However, since the Proposed Project would not expand landfill capacity or increase the amount of waste that can be accepted, MMRS 7.03 does not directly apply to the Proposed Project.

4.4.3 Significance Criteria

To determine whether air quality and GHG impacts from implementing the Proposed Project would be significant, the potential impacts were evaluated relative to the analysis conducted in the 1999 Final SEIR and compared to the significance criteria summarized in Table 4-3. The significance thresholds for criteria pollutant emissions which are presented as mass daily thresholds, were developed in 1993, and a full discussion of their origins can be found in the South Coast AQMD CEQA Handbook. Significance determinations for construction impacts are based on the maximum or peak daily emissions during the construction period, which provides a "worst-case" analysis of the construction emissions. Similarly, significance determinations for operational emissions are based on the maximum or peak daily emissions during the operational phase. The mass daily thresholds for criteria pollutant emissions determine whether the Proposed Project's peak daily criteria pollutant emissions during construction and operation would produce a significant regional air quality impact in the Basin.

Significance thresholds for toxic air contaminants and odor are based on requirements set forth in South Coast AQMD Rules 1401 and 212, and 402 respectively. In December 2008, the Governing Board approved an interim GHG significance threshold for projects where the South Coast AQMD is lead agency. The GHG significance threshold in Table 4-3 determines whether the Proposed Project's GHG emissions would be cumulatively significant with respect to global climate change. Overall, the significance criteria in Table 4-3 were used to test for both new significant environmental effects caused by the Proposed Project and for substantial increases in the severity of previously identified significant effects in the 1999 Final SEIR. The Proposed Project will have significant adverse air quality impacts if any of the thresholds in Table 4-3 are equaled or exceeded. For any impact found to be significant, all feasible mitigation measures, including those previously identified in the 1999 Final SEIR (see Section 4.4.2), would be identified and implemented to eliminate or reduce the impact to the maximum extent feasible.

Table 4-3
South Coast AQMD Air Quality Significance Thresholds

Mass Daily Thresholds [a]		
Pollutant	**Construction**	**Operation**
NO_x	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_x	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Toxic Air Contaminants (TACs), Odor, and GHG Thresholds		
TACs (including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to South Coast AQMD Rule 402	
GHG	10,000 MT/yr CO_2eq for industrial facilities	
Ambient Air Quality Standards for Criteria Pollutants [b]		
NO_2 1-hour average annual arithmetic mean	South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)	
PM_{10} 24-hour average annual average	10.4 µg/m^3 (construction)[c] & 2.5 µg/m^3 (operation) 1.0 µg/m^3	
$PM_{2.5}$ 24-hour average	10.4 µg/m^3 (construction)[c] & 2.5 µg/m^3 (operation)	
SO_2 1-hour average 24-hour average	0.25 ppm (state) & 0.075 ppm (federal – 99th percentile) 0.04 ppm (state)	
Sulfate 24-hour average	25 µg/m^3 (state)	
CO 1-hour average 8-hour average	South Coast AQMD 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)	
Lead 30-day Average Rolling 3-month average	1.5 µg/m^3 (state) 0.15 µg/m^3 (federal)	

[a] Source: South Coast AQMD CEQA Handbook (South Coast AQMD, 1993)
[b] Ambient air quality thresholds for criteria pollutants based on South Coast AQMD Rule 1303, Table A-2 unless otherwise stated.
[c] Ambient air quality threshold based on South Coast AQMD Rule 403.

KEY: lbs/day = pounds per day; ppm = parts per million; µg/m^3 = microgram per cubic meter; ≥ = greater than or equal to; MT/yr CO_2eq = metric tons per year of CO_2 equivalents; > = greater than

Revision: March 2023

To determine whether construction and operational activities associated with the Proposed Project would result in exceedances of applicable ambient air quality standards, Tables 4-4 and 4-5 identify the relevant pollutant concentration thresholds used to assess the significance of localized air quality impacts.

Table 4-4 presents the portion of Table 4-3 that pertains to the CAAQS and NAAQS for attainment pollutants, expressed in units of micrograms per cubic meter ($\mu g/m^3$), which serve as benchmark values for evaluating potential exceedances. The pollutants currently designated as being in attainment with these standards are NO2, PM10 (for the NAAQS but not the CAAQS), SO2, CO, and H2S (unclassified but treated as an attainment pollutant for the significance criteria). Because the CAAQS and NAAQS are absolute thresholds, background pollutant concentrations must be added to the Proposed Project concentration increments before comparing to the thresholds in order to determine whether an impact is potentially significant. The background concentration represents the contribution to the total ambient pollutant concentration from all emissions sources in the region except the Proposed Project sources.

Table 4-4
California and National Ambient Air Quality Standards for Attainment Pollutants

Pollutant	Averaging Period	CAAQS ($\mu g/m^3$) [1]	NAAQS ($\mu g/m^3$) [2]
NO2	1-Hour	339	188 [3]
	Annual	57	100
PM10	24-Hour	n/a [4]	150 [5]
SO2	1-Hour	655	196 [6]
	24-Hour	105	None
CO	1-Hour	23,000	40,000 [7]
	8-Hour	10,000	10,000 [7]
H2S	1-Hour	42	None

Notes: $\mu g/m^3$= micrograms per cubic meter.
[1] Source CARB, 2024.
[2] Source: U.S. EPA, 2024.
[3] 98th percentile of 1-hour daily maximum concentrations, averaged over 3 years.
[4] PM10 is attainment only for the NAAQS; therefore, the CAAQS is not shown.
[5] Not to be exceeded more than once per year on average over 3 years.
[6] 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years.
[7] Not to be exceeded more than once per year.

Table 4-5 presents the portion of Table 4-3 that pertains to the CAAQS and NAAQS for nonattainment pollutants which are PM10 (for the CAAQS but not the NAAQS) and PM2.5. These significant change thresholds define the increases in ambient concentrations that would be considered significant under CEQA, given that the region already exceeds the AAQS for those pollutants. Because the significant change thresholds are relative rather than absolute, the Proposed Project concentration increments are compared directly to the significant change thresholds without adding background concentrations.

Table 4-5
South Coast AQMD Significant Change Thresholds for Nonattainment Pollutants

Pollutant	Averaging Period	Significant Change Threshold for Construction ($\mu g/m^3$)	Significant Change Threshold for Operation ($\mu g/m^3$)
PM10	24-Hour	10.4	2.5
	Annual	1	1
PM2.5	24-Hour	10.4	2.5
	Annual	1	1

Source: South Coast AQMD, 2023.

4.4.4 Environmental Impacts

This section describes the potential air quality and GHG impacts of the Proposed Project. The evaluation determines whether the construction-related and operation-related activities associated with the Proposed Project would create a new significant impact or substantially increase the severity of a significant impact previously identified in the 1999 Final SEIR.

Proposed Project construction emissions would be new emissions. Therefore, impacts associated with Proposed Project construction were based on the proposed construction emissions without subtracting any baseline emissions.

Impacts associated with Proposed Project operations were based on quantifying the incremental emissions relative to the 1999 Final SEIR. The incremental emissions represent the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR. The maximum potential flare emissions under the 1999 Final SEIR are the baseline emissions presented in Table 3-6 (for criteria pollutants), Tables 3-7 and 3-8 (for TACs), and Table 3-9 (for GHGs). The baseline flare emissions represent the maximum allowable emissions under the current SCL Title V permitted LFG combustion rate of 16,100 scfm (at 50% CH4). Because the Title V permit is based on the assumptions in the air quality analysis of the 1999 Final SEIR, the selected baseline flare emissions are consistent with the 1999 Final SEIR.

The environmental topic areas evaluated in this SEIR are consistent with South Coast AQMD's customized Environmental Checklist with content which is largely based on the Environmental Checklist Form in Appendix G of the current CEQA Guidelines (California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000–15387) but is organized differently. For example, South Coast AQMD's customized Environmental Checklist combines the "air quality" and "greenhouse gas emissions" environmental topic areas into one section and includes an additional air quality-related question.

The CEQA Checklist states that, "Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon" to make impact determinations. The following bullets quote the South Coast AQMD's Environmental Checklist questions posed specific to the environmental topics of air quality and GHGs, followed by the approach taken in this SEIR to assess the specific impact:

Air Quality Impact Questions

- ***Would the project conflict with or obstruct implementation of the applicable air quality plan?***
  Impact AQ-1 discusses the Proposed Project's consistency with the 2022 Air Quality Management plan (AQMP).

- ***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?***
  Impacts AQ-2 and AQ-3 address regional criteria pollutant impacts by comparing Proposed Project emissions to the mass daily thresholds for construction and operation in Table 4-3. The significance thresholds include attainment pollutants in addition to nonattainment pollutants.

- ***Would the project expose sensitive receptors to substantial pollutant concentrations?***
  Impacts AQ-4 and AQ-5 address localized criteria pollutant impacts to receptors by comparing predicted ambient pollutant concentrations associated with the Proposed Project to the ambient air quality thresholds for attainment and nonattainment criteria pollutants in Tables 4-4 and 4-5, respectively. For Proposed Project construction, a screening approach was used where on-site construction emissions were compared to South Coast AQMD localized significance thresholds (LSTs). Emissions at levels less than the LSTs indicate that the ambient air quality thresholds in Tables 4-4 and 4-5 would not be exceeded. For Proposed Project operation, a dispersion model was used to predict ambient pollutant concentrations for comparison to the thresholds in Tables 4-4 and 4-5.

  Impact AQ-6 evaluated TAC impacts to sensitive receptors by conducting a health risk assessment (HRA) of the Proposed Project's TAC emissions. The predicted health risks were compared to the TAC thresholds in Table 4-3.

- ***Would the project create objectionable odors affecting a substantial number of people?***
  Impact AQ-7 discusses the potential for the Proposed Project to generate odor impacts.

- ***Would the project diminish an existing air quality rule or future compliance requirement resulting in a significant increase in air pollutants?***
  Impact AQ-8 discusses the Proposed Project's consistency with the existing rules and regulations and future compliance requirements.

Greenhouse Gas Impact Questions

- ***Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?***
  Impact GHG-1 addresses GHG emissions impacts by comparing GHG emissions from the Proposed Project to the GHG emissions significance threshold in Table 4-3.

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

Impact GHG-2 discusses the Proposed Project's consistency with applicable state and regional GHG emission reduction plans.

For any impact found to be significant, CEQA Guidelines Section 15126.4 requires the consideration and discussion of mitigation measures proposed to minimize the impact.

Impact AQ-1. Consistency with the Air Quality Management Plan

The main objective of 2022 AQMP adopted by South Coast AQMD was to lay out a plan to meet the 2015 federal ozone standard by reducing NOx emissions, the key pollutant that creates ozone, by 67 percent more than is required by adopted rules and regulations in 2037 (South Coast AQMD, 2022). The 2022 AQMP contains a suite of control measures to achieve the required NOx reductions through relying on the extensive use of zero emission technologies across all stationary and mobile sources. The control measures outlined in the 2022 AQMP also substantially rely on the future deployment of advanced technologies to meet the standard.

Of the control measures identified in the 2022 AQMP, only one is directly applicable to landfills, like the SCL facility: L-CMB-08 - NOx Emission Reductions From Combustion Equipment at Landfills and Publicly Owned Treatment Works. The emission reduction objectives in Control Measure L-CMB were adopted as part of South Coast AQMD Rule 1150.3 - Emissions of Oxides of Nitrogen from Combustion Equipment at Landfills. Rule 1150.3 was crafted to reduce NOx and CO emissions from boilers, process heaters, and turbines located at Municipal Solid Waste (MSW) landfills and landfill gas to energy facilities. Since the focus of Proposed Project involves the five existing flares, the two new flares and the GCCS, without involving any boilers, process heaters or turbines, Rule 1150.3 as well as Control Measure L-CMB-08 is not applicable to the Proposed Project.

The overall objectives of the Proposed Project are to modify the 2018 Title V permit and achieve compliance with all applicable requirements by:

1. Increasing the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate.
2. Increasing the capacity of the GCCS to accommodate the maximum future projected LFG production rate.
3. Further reduce landfill odors and prevent fugitive releases of CH4, which is a potent GHG, and TACs that are present in LFG.

The physical modifications that would be implemented as part of the Proposed Project would reduce uncombusted LFG, which is predominantly comprised of CH4 which contributes to the formation of ground level ozone. Since implementing the Proposed Project would be in support of the 2022 AQMP goals to reduce ozone, the Proposed Project would not be expected to conflict with or obstruct implementation of the 2022 AQMP or any its individual control measures.

The Proposed Project will result in increases in NOx emissions (and other pollutants) during construction and operation, with the latter being subject to emission offset requirements in Rule 1303 (b)(2), as explained in more detail under Impact AQ-2. Thus, by applying offsets to the potential increases in emissions, the Proposed Project would not be expected to conflict with or

obstruct implementation of the overall NOx emission reduction goals set forth in the 2022 AQMP or any its individual control measures.

Therefore, the Proposed Project would not produce a new significant impact or substantially increase the severity of a previously identified significant impact related to consistency with the 2022 AQMP. Based upon these considerations, no mitigation measures are necessary or required.

Impact AQ-2. Regional Air Quality Impacts Associated with Proposed Project During Construction

The Proposed Project would construct two new LFG flares (Flares 12, and 13) and two new electric blowers over a period of four months (see Section 2.7 for more details regarding the construction-related activities). The two new proposed flares would be installed on an existing approximate 1-acre flare pad such that no grading would be required. The blowers would be installed on an existing blower skid system near the new flares. Approximately 409 feet of trenching would be needed to install underground utilities for the blowers. Portions of the existing SCL access road to the construction site are paved, and other portions consist of crushed miscellaneous base which undergo periodic applications of water for dust control purposes. The unpaved road segments total 0.85 mile (4,500 feet) in length (one-way).

Construction emissions were quantified using the California Emissions Estimator Model (CalEEMod), version 2022.1.1.29 (CAPCOA, 2024). The CalEEMod output is included in Appendix D. The following assumptions were input into CalEEMod to estimate criteria pollutant emissions during construction:

- All six offroad diesel equipment units (excavator, boom, skip loader, backhoe, forklift, and crane) needed for construction were conservatively assumed to be used 8 hours per day, every weekday, for the entire four-month construction period. Emission factors reflect statewide fleet averages by equipment type.
- There would be 24 daily one-way construction worker vehicle trips made by 12 on-site construction workers during the entire construction period. The average one-way trip length would be 18.5 miles (CalEEMod default) plus 3.1 miles to account for the SCL site access road (21.6 miles total).
- Peak day fugitive dust emissions from trenching conservatively assumed that 136 cubic yards of soil would be excavated in a single day. This quantity represents the entire trenching length of 409 feet dug to a depth of 3 feet and a width of 3 feet. No soil import or export outside SCL property would be needed. Twice-daily watering for dust control was assumed, in accordance with South Coast AQMD Rule 403.
- Peak day emissions associated with concrete pouring assumed that all 12 concrete trucks would arrive on the same day, resulting in 24 one-way trips. The average one-way trip length would be 10.2 miles (CalEEMod default) plus 3.1 miles to account for the SCL site access road (13.3 miles total). The concrete trucks were modeled as heavy heavy-duty diesel trucks (HHDT).
- During construction of the proposed new flares and blowers, there would be a maximum of 20 daily one-way material delivery truck trips. Most of the truck trips would originate from out of state; therefore, the average one-way trip length within the South Coast AQMD's jurisdiction was assumed to be 250 miles. The material delivery trucks were modeled as HHDT.

- CalEEMod quantified paved road dust emissions from worker vehicles, concrete trucks, and material delivery trucks driving the entire length of their routes. CalEEMod also quantified unpaved dust emissions from the concrete and material delivery trucks driving 0.03 mile (160 feet) each way on the 1-acre construction site. Twice-daily watering for dust control was assumed for the unpaved dust emissions.

Unpaved road dust emissions from worker vehicles, concrete trucks, and material delivery trucks driving on the 0.85-mile portions of the SCL site access road were calculated outside of CalEEMod. The calculations were performed using Equation 1a from AP-42 Section 13.2.2 (U.S. EPA, 2006). Twice-daily watering for dust control was assumed for the unpaved dust emissions. The construction emission calculation tables are included in Appendix D.

Table 4-6 presents the maximum daily criteria pollutant emissions associated with Proposed Project construction and shows that emissions of all criteria pollutants would be less than the air quality significance thresholds. Therefore, construction of the Proposed Project would not produce a new significant impact, or substantially increase the severity of a previously identified significant impact related to regional air quality. Based upon these considerations, no mitigation measures are necessary or required.

Table 4-6
Maximum Daily Criteria Pollutant Emissions
Associated with Proposed Project Construction

Source	NOx (lb/day)	VOC [1] (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
Construction Equipment	8.0	0.9	0.3	0.3	0.0	10.6
Trucks	19.0	0.1	0.2	0.2	0.1	6.0
Worker Vehicles	0.1	0.1	0.0	0.0	0.0	1.9
Fugitive Dust [2]	0.0	0.0	34.3	4.3	0.0	0.0
Total Emissions	**27.2**	**1.1**	**34.8**	**4.8**	**0.1**	**18.6**
Significance Thresholds	100	75	150	55	150	550
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: Emissions were calculated using CalEEMod. CalEEMod does not quantify lead emissions, which would be negligible. The sum of the displayed values by source may not precisely equal the totals due to rounding.
[1] Assumes VOC and ROG are equivalent.
[2] Dust emissions would be from trenching and worker vehicles and trucks traveling over paved and unpaved surfaces.

Impact AQ-3. Regional Air Quality Impacts Associated with Proposed Project Operation
The Proposed Project would involve: 1) the continued operation of the five existing flares (Flares 1, 3, 9, 10, and 11) but with increased LFG combustion rate; and 2) the operation of two proposed new flares (Flares 12 and 13) at SCL. Table 4-7 presents the proposed criteria pollutant emission limits for all seven flares. The emission limits reflect all flares operating at their maximum LFG input capacities, which total 33,334 scfm (at 50% CH4). As discussed in Section 2.6, this analysis conservatively assumed that the flares would operate continuously at their proposed maximum emission limits even though in practice a substantial portion of the collected LFG would be diverted to the SGP facility except when the SGP facility is temporarily off-line. When online, the SGP facility is capable of combusting approximately 10,000 scfm of LFG at 50% CH4.

The proposed emission limits for Flares 1, 3, 9, 10, and 11 in Table 4-7 are the same as the current Title V emission limits for the individual flares in Table 3-4. The proposed emission limits for new

Flares 12 and 13 were developed by South Coast AQMD engineers and reflect a combination of flare design specifications and compliance with Rule 1118.1 and Rule 1303.

Table 4-7
Maximum Potential Criteria Pollutant Emissions
Associated with Proposed Project Operation

Abatement Device	Rated LFG Input (scfm)	Rated Heat Input (MMBtu/hr) [2]	Proposed Permit Emission Limit (lb/day) [1]					
			NOx	VOC	PM10	PM2.5 [4]	SOx	CO
Flare 1	4,167	117	174.0	23.0	41.0	41.0	107.0	104.0
Flare 3	4,167	117	144.0	15.1	38.4	38.4	91.2	98.4
Flare 9	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 10	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 11	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 12 [5]	5,000	152	91.2	21.8	36.0	36.0	103.4	218.9
Flare 13 [5]	5,000	152	91.2	21.8	36.0	36.0	103.4	218.9
Total	**33,334 [3]**	**994**	**774.0**	**147.1**	**259.4**	**259.4**	**952.2**	**1,296.9**

Notes:
[1] There would be no change in the Title V individual flare permit limits for existing Flares 1, 3, 9, 10, and 11. The proposed emission limits for Flares 12 and 13 are draft permit conditions developed by the South Coast AQMD for Flare 12.
[2] The values displayed for rated heat input are based on the higher heating value (HHV). The values for Flares 1 and 3 were converted from LHV to HHV by dividing by 0.90.
[3] At 50% CH4. This value represents the total capacity of the seven flares.
[4] The PM2.5/PM10 ratio for flares is assumed to be 1.00 (SCAQMD, 2006).
[5] Proposed new flare.

Pursuant to Rule 1303(b)(2), a portion of the NOx, VOC, PM10, and SOx emissions from proposed new Flares 12 and 13 would need to be offset as part of the permitting process. Because SCL's flares are considered an essential public service, the emission offsets would be provided from the South Coast AQMD's internal offset accounts in accordance with Rule 1309.1. Emission offsets would not be applicable for CO since South Coast AQMD is in attainment for CO. Additionally, the proposed permits for Flares 12 and 13 are not expected to have emission increases of PM2.5 greater than the applicability threshold under Rule 1325; therefore, PM2.5 offsets would not be required.

Table 4-8 presents the daily criteria pollutant emissions increments associated with flare operation under the Proposed Project. The increments equal the proposed maximum flare emissions from Table 4-7 minus the baseline flare emissions from Table 3-6 minus the offset emissions. As detailed in Section 3.2.2, the baseline flare emissions represent the maximum potential flare emissions under the 1999 Final SEIR, which reflect the five existing flares operating at their most restrictive current Title V permit limits.

Table 4-8 shows that the Proposed Project incremental emissions increases of NOx, PM2.5, SOx, and CO would exceed the daily significance thresholds during operation. Three of these pollutants – NOx, SOx, and CO – were previously identified as significant operational impacts in the 1999 Final SEIR. Therefore, operation of the Proposed Project would increase the severity of previously identified significant regional impacts related to the emissions of NOx, SOx, and CO. The remaining significant pollutant – PM2.5 – was not evaluated in the 1999 Final SEIR. Therefore,

under CEQA, operation of the Proposed Project would create a new significant regional impact related to the emissions of PM2.5.

Table 4-8 also shows that the incremental increased emissions of VOC and PM10 associated with the Proposed Project would be less than the daily significance thresholds during operation. Therefore, the Proposed Project would not produce a new significant regional impact or substantially increase the severity of a previously identified significant regional impact related to the operational emissions of VOC and PM10.

The operational emission calculation tables for baseline and the Proposed Project are included in Appendix C.

Table 4-8
Criteria Pollutant Emissions Increments Associated with Proposed Project Operation

Emissions Scenario	NOx (lb/day)	VOC (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
Proposed Project [1]	774.0	147.1	259.4	259.4	952.2	1,296.9
Baseline [2]	408.2	71.3	129.2	129.2	514.4	520.0
Offset Emissions [3]	188.0	46.0	59.0	N/A	150.0	N/A
Emissions Increment [4]	**177.8**	**29.8**	**71.2**	**130.2**	**287.8**	**776.9**
Significance Threshold	55	55	150	55	150	550
Exceeds Threshold?	**Yes**	**No**	**No**	**Yes**	**Yes**	**Yes**

Notes:
[1] Source: Table 4-7. Total from Flares 1, 3, 9, 10, 11, 12, and 13 at capacity.
[2] Source: Table 3-6. Baseline emissions reflect the maximum potential flare emissions under the1999 Final SEIR.
[3] Pursuant to Rule 1303(b)(2), the permit units are required to offset a portion of their emissions. The emissions to be offset shown here are for Flares 12 and 13 and are based on the permit evaluation for Flare 12. The same amount is used for Flare 13, as that is assumed to be identical to Flare 12 (although no permit applications have been filed for Flare 13).
[4] Emissions Increment = Proposed Project minus Baseline minus Offset Emissions.

Mitigation Measures

Under the Proposed Project, the potential increases in operational emissions from the existing flares (Flares 1, 3, 9, 10, and 11) and proposed flares (Flares 12 and 13) would exceed the South Coast AQMD's daily significance threshold for NOx, PM2.5, SOx, and CO. Thus, operational NOx, PM2.5, SOx, and CO impacts are significant for the Proposed Project. If significant adverse environmental impacts are identified, the CEQA document shall describe feasible measures that could minimize the significant adverse impacts of the proposed project. [CEQA Guidelines Section 15126.4]. Therefore, mitigation measures for reducing or eliminating operational NOx, PM2.5, SOx, and CO impacts, beyond what would occur from the implementation of all applicable regulatory requirements, need to be identified, if feasible. All existing and new flares would be included in SCL's Title V permit issued and enforced by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including Best Available Control Technology (BACT) and offsets as defined in Rule 1303, and emission limits as specified in Rule 1118.1, in addition to applicable state and federal regulations. Moreover, the flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. No mitigation measures have been identified that would be feasible to reduce the operational emissions from the flares above and beyond the existing regulatory requirements applicable to this equipment.

Remaining Impacts

Since no feasible mitigation measures have been identified that would be capable of reducing the operational air quality impacts to less than significant levels, the operational impacts would remain significant for NOx, PM2.5, SOx, and CO.

Impact AQ-4. Localized Air Quality Impacts Associated with Proposed Project During Construction

Impact AQ-2 quantified the maximum daily construction emissions associated with the Proposed Project and determined that the construction emissions would be less than the regional mass daily emission thresholds. To assess the localized air quality impacts, the Proposed Project's on-site construction emissions were compared to the South Coast AQMD's LST look-up tables (South Coast AQMD, 2009).

South Coast AQMD's LST look-up tables are based on the maximum daily on-site project emissions, the surface area of the active project site, the source receptor area (SRA) in which the project is located, and the distance from the project site to the nearest off-site exposed individual. The LST look-up tables are available for emissions of NOx, PM10, PM2.5, and CO. If proposed emissions are less than the LST look-up table emission thresholds, then the proposed activity is considered not to violate or substantially contribute to an existing violation of an ambient air quality standard.

Table 4-9 presents the maximum daily on-site construction emissions associated with the Proposed Project. The total on-site emissions are compared to the LST thresholds. The selected LSTs are representative of SRA 13 (Santa Clarita Valley), a 1-acre construction site, and a 200-m receptor distance. The selection of a 1-acre construction site is the smallest size category available in the LST look-up tables, is comparable in size to the pad on which Flares 12 and 13 and the electric blowers would be installed, and yields the most stringent LSTs of any available site size category. The selection of a 200-m receptor distance is less than the approximate 300-m distance from the flare pad to the nearest SCL property line and is conservative.

Table 4-9 shows that the maximum daily on-site construction emissions would be substantially less than the LSTs for all pollutants. These screening results indicate that localized ambient criteria pollutant concentrations associated with Proposed Project construction would not exceed the ambient air quality thresholds in Tables 4-4 and 4-5. Therefore, the Proposed Project would not produce a new significant localized impact or substantially increase the severity of a previously identified significant localized impact related to construction emissions. Thus, no mitigation measures are necessary or required for the Proposed Project during construction.

Table 4-9
On-Site Criteria Pollutant Emissions Associated with Proposed Project Construction

Source	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO (lb/day)
Construction Equipment	8.0	0.3	0.3	10.6
Trucks	0.3	0.0	0.0	0.3
Worker Vehicles	0.0	0.0	0.0	0.0
Fugitive Dust	0.0	0.5	0.0	0.0
Total Emissions	**8.4**	**0.8**	**0.3**	**10.9**
LSTs [1]	173	51	18	2,500
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes: Emissions were calculated using CalEEMod.
[1] LSTs are representative of SRA 13 (Santa Clarita Valley), a 1-acre construction site, and a 200-m receptor distance (South Coast AQMD, 2009).

Impact AQ-5. Localized Air Quality Impacts Associated with Proposed Project Operation
An air quality impact analysis (AQIA) was conducted to estimate the localized air quality impacts to off-site receptors (i.e., where the public has access) associated with Proposed Project operation. The AQIA used the American Meteorological Society (AMS)/ U.S. EPA Regulatory Model (AERMOD) dispersion model to predict maximum ambient pollutant concentrations at and beyond the SCL property line (U.S. EPA, 2024d). The modeling methodologies followed the federal Guideline on Air Quality Models (40 CFR Part 51, Appendix W; November 29, 2024) and the South Coast AQMD Modeling Guidance for AERMOD (South Coast AQMD, 2024c).

The AQIA compared the maximum predicted pollutant concentrations of attainment pollutants (CO, NOx, PM10, SOx, and H2S) to the ambient air quality standards in Table 4-4. The maximum predicted pollutant concentration increments for the nonattainment pollutants (PM10 and PM2.5) were compared to the significant change thresholds in Table 4-5. PM10 was modeled both as an attainment pollutant and a nonattainment pollutant because it is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS.

Meteorological data from the Van Nuys Airport (KVNY), located about 13 kilometers (km) to the south-southeast of SCL, was used in AERMOD to simulate the dispersion of the Proposed Project flare emissions. The data set has five consecutive years of historic hourly meteorological data for the period January 1, 2016 through December 31, 2020. In selecting the most representative meteorological station, South Coast AQMD staff looked at the meteorological stations within the Proposed Project's vicinity. SCL is located in an elevated area with complex terrain and experiences winds with higher speeds. The Burbank Airport is heavily influenced by the mountain range to the northeast that channels the winds in a northwesterly direction that is not representative of SCL. Both Santa Clarita and KVNY are located in valley areas. However, Santa Clarita has a larger proportion of low wind speeds, which is not representative of the wind conditions at SCL. Therefore, KVNY was selected as the most representative meteorological station.

AERMOD predicted ambient pollutant concentrations at 4,884 receptor grid points. The receptor grid started at the SCL property line and extended outward to 5 kilometers (km) from the property line. Receptor spacing was 50 meters along the entire SCL property line and out to 500 meters

from the property line, then 100 meters out to 1 km from the SCL property line, and then 250 meters out to 5 km from the property line. A map of the AQIA receptor grid is included in Appendix E.

To determine maximum 24-hour and annual localized pollutant concentrations, the AQIA modeled the peak daily emissions increments from the five existing and two proposed new flares. The peak daily emissions increments for pollutants with 24-hour or annual localized thresholds are presented in Table 4-10. The peak daily emissions increments in this table represent the maximum potential flare emissions under the Proposed Project (shown in Table 4-7) minus the maximum potential flare emissions under the 1999 Final SEIR (baseline emissions; shown in Table 3-6).

The daily increase in emissions increments for the existing flares (Flares 1, 3, 9, 10, and 11) in Table 4-10 result from the baseline emissions being restricted by the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) in the 2018 Title V permit. Consequently, the baseline emissions are less than the Proposed Project's emissions for the existing flares plus the two new flares, resulting in an incremental increase in emissions.

Table 4-10
Criteria Pollutant Peak Daily Emissions Increments
Associated with Proposed Project Operation

Abatement Device [1]	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)
Flare 1	53.9	12.7	12.7	33.2
Flare 3	44.6	11.9	11.9	28.3
Flare 9	28.3	11.2	11.2	56.5
Flare 10	28.3	11.2	11.2	56.5
Flare 11	28.3	11.2	11.2	56.5
Flare 12 [2]	91.2	36.0	36.0	103.4
Flare 13 [2]	91.2	36.0	36.0	103.4
Total	**365.8**	**130.2**	**130.2**	**437.8**

Notes:
[1] The emissions increments equal the maximum potential flare emissions under the Proposed Project (Table 4-7) minus the maximum potential flare emissions under the 1999 Final SEIR (Table 3-6). Emissions were converted to grams per second (g/s) and modeled in AERMOD to predict maximum 24-hour and annual concentrations. Only those pollutants with 24-hour or annual localized concentration thresholds are shown in the table.
[2] Proposed new flare.

To determine maximum 1-hour and 8-hour localized pollutant concentrations, the AQIA modeled the peak hourly emissions increments from the two proposed new flares. The peak hourly emissions increments for pollutants with 1-hour or 8-hour localized thresholds are presented in Table 4-11. The emissions increments represent the maximum potential flare emissions from proposed new Flares 12 and 13. Unlike the daily baseline emissions discussed in the preceding paragraph, the 1-hour baseline emissions from the existing flares are not restricted by the site-wide limits in the 2018 Title V permit because the site-wide limits are based on 24-hour averages. Therefore, for peak hourly emissions, both the baseline and proposed emissions from the existing flares (Flares 1, 3, 9, 10, and 11) are based on maximum flare capacity which would not change. As a result, there would be no change in peak hourly emissions from existing Flares 1, 3, 9, 10, and 11 due to the Proposed Project, and their emissions increments would be zero.

Table 4-11
Criteria Pollutant Peak Hourly Emissions Increments
Associated with Proposed Project Operation

Abatement Device [1]	NOx (lb/hr)	SOx (lb/hr)	CO (lb/hr)	H2S (lb/hr)
Flare 12 [2]	3.80	4.31	9.12	0.10
Flare 13 [2]	3.80	4.31	9.12	0.10
Total	**7.60**	**8.62**	**18.24**	**0.20**

Notes:
[1] The emissions increments equal the maximum potential emissions from proposed Flares 12 and 13 under the Proposed Project. There would be no change in peak hourly emissions from existing Flares 1, 3, 9, 10, and 11; therefore, their emissions increments would be zero. Emissions from Flares 12 and 13 were converted to grams per second (g/s) and modeled in AERMOD to predict maximum 1-hour and 8-hour concentrations. Only those pollutants with 1-hour or 8-hour localized concentration thresholds are shown in the table.
[2] Proposed new flare.

Table 4-12 presents the maximum modeled off-site ambient concentrations of attainment pollutants associated with operation of the SCL flares under the Proposed Project. For each pollutant and averaging period, the table compares the predicted total concentration to the most stringent AAQS. Figure 4-1 shows the locations of the maximum pollutant concentrations over a map of the project area.

The total concentration values (fifth column in Table 4-12), which are compared to the AAQS, equal the sum of the Proposed Project concentration increments (third column) and the background concentrations (fourth column). The Proposed Project concentration increments represent the maximum ambient pollutant concentrations predicted by AERMOD when modeling the emissions increments in Tables 4-10 and 4-11. Therefore, the Proposed Project concentration increments represent the increases in pollutant concentrations associated with SCL flares operating under the Proposed Project relative to the operation of existing flares under the 1999 Final SEIR.

The background concentration represents the contribution to the total ambient pollutant concentration from all emissions sources in the region except the sources being modeled. In accordance with South Coast AQMD modeling guidance, the background concentrations were obtained from the last three available years of monitoring data from nearby representative monitoring stations. The derivation of the background concentrations is included in Appendix E. Note that for H2S, there is no ambient monitoring station in the vicinity of the Proposed Project; therefore, no background concentration was added to the modeled result. The modeled H2S concentration increment of 0.1 ug/m3 is less than one percent of the AAQS; therefore, H2S impacts are considered less than significant.

The results in Table 4-12 show that the Proposed Project would not cause an exceedance of an AAQS for any attainment pollutant.

Table 4-12
Localized Ambient Concentration Impacts of Attainment Pollutants Associated with Proposed Project Operation

Pollutant	Averaging Period	Proposed Project Concentration Increment (ug/m3) [1]	Background Concentration (ug/m3)	Total Concentration (ug/m3)	AAQS (ug/m3) [2]	Exceedance?
NO2	1-Hour CAAQS	3.5	107	110.5	339	No
	1-Hour NAAQS	3.5	62	65.5	188	No
	Annual	0.3	19	19.3	57	No
PM10	24-Hour NAAQS [3]	0.9	47	47.9	150	No
SO2	1-Hour CAAQS	4.5	20	24.5	655	No
	1-Hour NAAQS	4.5	5.5	10.0	196	No
	24-Hour	2.3	6.0	8.3	105	No
CO	1-Hour	9.5	1,722	1,731.5	23,000	No
	8-Hour	5.9	804	809.9	10,000	No
H2S	1-Hour	0.1	Not Available [4]	0.1	42	No

Notes: µg/m^3= micrograms per cubic meter; AAQS = ambient air quality standard; NAAQS = national ambient air quality standard; CAAQS = California ambient air quality standard.

[1] Each displayed concentration increment is the highest modeled concentration over five years of meteorological data at any receptor on or outside the SCL property line. The concentration increment represents the increase in pollutant concentration associated with the SCL flares operating at their proposed limits relative to the existing flares operating under the 1999 Final SEIR.

[2] The displayed AAQS is the most stringent of the CAAQS and NAAQS unless specifically indicated under Averaging Period.

[3] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment pollutant (Table 4-12) and a nonattainment pollutant (Table 4-13).

[4] H2S is not monitored in the project area; therefore, no background concentration was added to the modeled result.

Table 4-13 presents the maximum modeled off-site ambient concentration increments of nonattainment pollutants associated with operation of the SCL flares under the Proposed Project. The table compares the Proposed Project concentration increments to the South Coast AQMD significant change thresholds for nonattainment pollutants. The Proposed Project concentration increments represent the maximum ambient pollutant concentrations predicted by AERMOD when modeling the emissions increments in Tables 4-10 and 4-11. Therefore, the Proposed Project concentration increments represent the increase in pollutant concentrations associated with the SCL flares operating under the Proposed Project relative to the existing flares operating under the 1999 Final SEIR. Figure 4-1 shows the locations of the maximum pollutant concentration increments over a map of the project area.

The results in Table 4-13 show that the Proposed Project would not cause an exceedance of a significant change threshold for any nonattainment pollutant.

Table 4-13
Localized Ambient Concentration Impacts of Nonattainment Pollutants Associated with Proposed Project Operation

Pollutant	Averaging Period	Proposed Project Concentration Increment ($\mu g/m^3$) [1]	Significant Change Threshold ($\mu g/m^3$)	Exceedance?
PM10	24-Hour [2]	0.9	2.5	No
	Annual	0.1	1	No
PM2.5	24-Hour	0.9	2.5	No
	Annual	0.1	1	No

Notes: $\mu g/m^3$= micrograms per cubic meter

[1] Each displayed concentration increment is the highest modeled concentration over five years of meteorological data at any receptor on or outside the SCL property line. The concentration increment represents the increase in pollutant concentration associated with the SCL flares operating at their proposed limits relative to the existing flares operating under the 1999 Final SEIR.

[2] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment pollutant (Table 4-12) and a nonattainment pollutant (Table 4-13).

In summary, Tables 4-12 and 4-13 show that the localized ambient criteria pollutant concentrations associated with Proposed Project operation would not exceed the ambient air quality thresholds. Therefore, the Proposed Project would not produce a new significant localized impact or substantially increase the severity of a previously identified significant localized impact related to operational emissions. Thus, no mitigation measures are necessary or required.

The AQIA and HRA technical report is included in Appendix E.

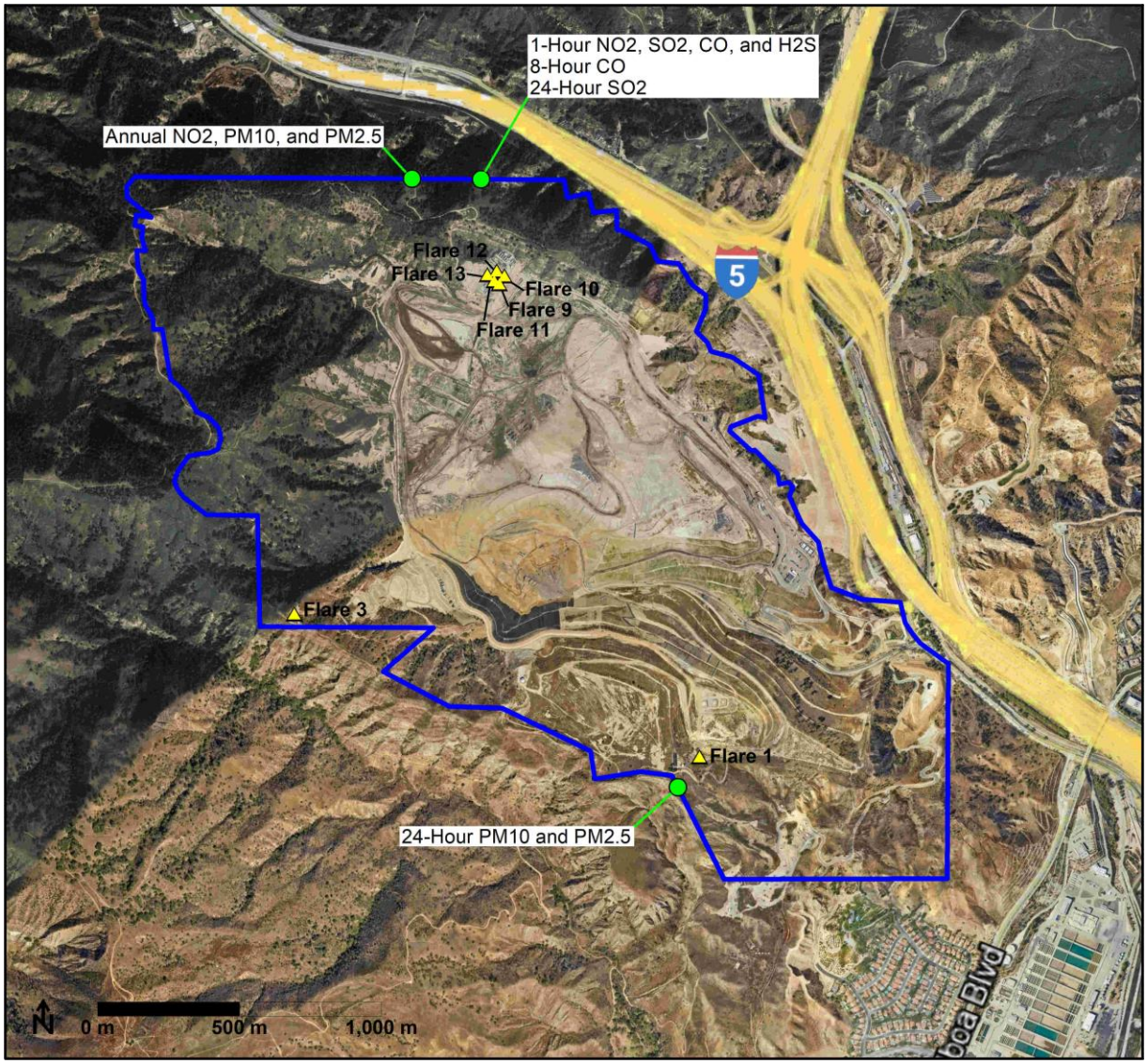


Figure 4-1
Locations of Maximum Pollutant Concentration Increments

Impact AQ-6. Health Risk Assessment of Proposed Project TAC Emissions

An HRA was conducted to estimate the health impacts to sensitive receptors associated with Proposed Project TAC emissions. The HRA quantified three types of health risks:

- Individual cancer risk is the additional chance for a person to contract cancer from long-term exposure to Proposed Project emissions via inhalation and non-inhalation exposure pathways.
- The chronic hazard index (HI) evaluates the potential for non-cancer adverse health impacts from long-term exposure to Proposed Project emissions via inhalation and non-inhalation exposure pathways. A chronic HI less than 1.0 indicates that no significant adverse noncancer health effects from long-term exposure are expected.
- The acute HI evaluates the potential for non-cancer adverse health impacts from short-term exposure to the Proposed Project emissions via the inhalation exposure pathway. An acute

HI less than 1.0 indicates that no significant adverse non-cancer health effects from short-term exposure are expected.

The quantification of population cancer burden was also considered. The population cancer burden is the expected number of additional cancer cases in the exposed population, in areas where the individual cancer risk from the Proposed Project is greater than or equal to 1 in a million based on a 70-year lifetime residential exposure. However, the HRA analysis showed that no offsite receptor would have a 70-year cancer risk increment greater than or equal to 1 in a million. Therefore, the population cancer burden associated with the Proposed Project was not calculated.

The HRA was performed in accordance with the California Office of Environmental Health Hazard Assessment (OEHHA) Risk Assessment Guidelines (OEHHA, 2015) and South Coast AQMD supplemental guidelines for preparing risk assessments (South Coast AQMD, 2024d). The detailed HRA technical report is included in Appendix E.

All health risks were calculated using the Hot Spots Analysis & Reporting Program (HARP2) (CARB, 2022a) together with the most recent version of the OEHHA/ARB approved risk assessment health values (CARB, 2025). As input, HARP2 used ambient TAC concentrations predicted by AERMOD. AERMOD used the same meteorological data and receptor grid described earlier under Impact AQ-5, except the HRA modeled additional worker receptors placed within the SGP LFG-to-energy facility located on SCL property. (These additional receptors were not modeled for Impact AQ-5 because they are not publicly accessible and therefore, are not considered ambient air with respect to criteria pollutant concentrations).

Cancer risk values for sensitive (residential) receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, dermal contact, and mother's milk ingestion. Residential receptors were assumed to be exposed 24 hours per day, 350 days per year, for 30 years, starting in the 3rd trimester before birth and continuing to age 30. Cancer risk values for off-site workers were calculated for the mandatory exposure pathways of inhalation, soil ingestion, and dermal contact. Off-site workers were assumed to be exposed 8 hours per day, 250 days per year, for 25 years.

Chronic HI values for sensitive receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, dermal contact, and mother's milk ingestion. Chronic HI values for off-site workers were calculated for the mandatory exposure pathways of inhalation, soil ingestion, and dermal contact. Acute HI values for all receptors were calculated for the inhalation pathway. HARP2 calculated health risks at each of the receptor grid points modeled in AERMOD. The locations of the maximally exposed individuals (MEIs) were selected from the HARP2 output. The residential MEIs for all health risks represented the highest values from all grid receptors near existing residences. The off-site worker MEIs for cancer risk and chronic HI represented the highest values from all grid receptors near existing businesses or residences beyond the SCL property line or within the SGP facility. Because of their short 1-hour exposure durations, the off-site worker MEIs for acute HI represented the highest values from all grid receptors at or beyond the SCL property line or within the SGP facility.

The TAC emissions associated with the Proposed Project flares were calculated using the same methodology described in Section 3.2.3 for baseline TAC emissions. The emissions reflect all flares operating at their maximum LFG input capacities, which total 33,334 scfm (at 50% CH4).

As discussed in Section 2.6, this analysis conservatively assumed that the flares would operate continuously at capacity even though in practice a substantial portion of the collected LFG would be diverted to the SGP facility except when the SGP facility is temporarily off-line.

The quantified TAC emissions include LFG constituents and combustion products. For the LFG constituents, the methodology assumed that toxic organic compounds present in the inlet LFG would be reduced by 98 percent through flare combustion. Inlet LFG concentrations were obtained from a combination of onsite LFG test data and default concentrations from AP-42. The HRA included compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025), which is more comprehensive than the TACs required for analysis under South Coast AQMD Rule 1401. Appendix C includes detailed TAC emission calculation tables.

To determine individual cancer risks and chronic HI, the HRA modeled annual TAC emissions increments from the five existing and two proposed new flares. The annual TAC emissions increments are presented in Table 4-14. The emissions increments represent the maximum potential flare emissions for the Proposed Project minus the maximum potential flare emissions analyzed in the 1999 Final SEIR for the existing flares. The non-zero annual TAC emissions increments for the existing flares (Flares 1, 3, 9, 10, and 11) in Table 4-14 result from the baseline emissions being restricted by the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) in the 2018 Title V permit. Consequently, the baseline emissions for each TAC are less than the Proposed Project emissions for the existing flares plus the new proposed flares, resulting in a net increase in emissions for each TAC.

Table 4-14
TAC Annual Emissions Increments Associated with Proposed Project Operation

Toxic Air Contaminant [1]	Change in Annual Emissions (lb/yr) [2]							
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13	Total
Acrylonitrile	1.20E+01	1.20E+01	1.44E+01	1.44E+01	1.44E+01	4.63E+01	4.63E+01	1.60E+02
Benz(a)anthracene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzene	6.74E+00	6.74E+00	8.09E+00	8.09E+00	8.09E+00	2.61E+01	2.61E+01	8.99E+01
Benzo(a)pyrene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03
Benzo(b)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzo(k)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzyl chloride	9.07E-02	9.07E-02	1.09E-01	1.09E-01	1.09E-01	3.51E-01	3.51E-01	1.21E+00
Carbon disulfide	4.43E-01	4.43E-01	5.31E-01	5.31E-01	5.31E-01	1.71E+00	1.71E+00	5.91E+00
Carbon monoxide	1.50E+04	1.42E+04	3.15E+04	3.15E+04	3.15E+04	7.99E+04	7.99E+04	2.84E+05
Carbon tetrachloride	1.38E-01	1.38E-01	1.65E-01	1.65E-01	1.65E-01	5.33E-01	5.33E-01	1.84E+00
Carbonyl sulfide	6.45E-01	6.45E-01	7.74E-01	7.74E-01	7.74E-01	2.50E+00	2.50E+00	8.61E+00
Chlorobenzene	3.60E-01	3.60E-01	4.32E-01	4.32E-01	4.32E-01	1.39E+00	1.39E+00	4.80E+00
Chloroform	6.41E-02	6.41E-02	7.69E-02	7.69E-02	7.69E-02	2.48E-01	2.48E-01	8.55E-01
Chrysene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Dibenzo(a,h)anthracene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03
1,1-Dichloroethane	8.45E-02	8.45E-02	1.01E-01	1.01E-01	1.01E-01	3.27E-01	3.27E-01	1.13E+00

Table 4-14 (concluded)
TAC Annual Emissions Increments Associated with Proposed Project Operation

Toxic Air Contaminant [1]	Change in Annual Emissions (lb/yr) [2]							
	Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13	Total
7,12-Dimethylbenz(a) anthracene	2.72E-03	2.72E-03	3.26E-03	3.26E-03	3.26E-03	1.05E-02	1.05E-02	3.62E-02
Ethyl benzene	1.75E+01	1.75E+01	2.10E+01	2.10E+01	2.10E+01	6.77E+01	6.77E+01	2.33E+02
Ethyl chloride	3.00E+00	3.00E+00	3.60E+00	3.60E+00	3.60E+00	1.16E+01	1.16E+01	4.01E+01
Ethylene dibromide	1.01E-01	1.01E-01	1.21E-01	1.21E-01	1.21E-01	3.91E-01	3.91E-01	1.35E+00
Ethylene dichloride	3.30E+00	3.30E+00	3.96E+00	3.96E+00	3.96E+00	1.28E+01	1.28E+01	4.41E+01
Formaldehyde	2.55E+01	2.55E+01	3.06E+01	3.06E+01	3.06E+01	9.86E+01	9.86E+01	3.40E+02
Hexane	6.32E+02	6.32E+02	7.58E+02	7.58E+02	7.58E+02	2.44E+03	2.44E+03	8.42E+03
Hydrogen chloride	2.74E+03	2.74E+03	3.29E+03	3.29E+03	3.29E+03	1.06E+04	1.06E+04	3.66E+04
Hydrogen sulfide	2.06E+02	2.06E+02	2.47E+02	2.47E+02	2.47E+02	7.98E+02	7.98E+02	2.75E+03
Indeno(1,2,3-cd)pyrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Isopropyl alcohol	1.08E+02	1.08E+02	1.29E+02	1.29E+02	1.29E+02	4.17E+02	4.17E+02	1.44E+03
Mercury	1.04E-01	1.04E-01	1.25E-01	1.25E-01	1.25E-01	4.03E-01	4.03E-01	1.39E+00
Methyl chloroform	1.00E-01	1.00E-01	1.20E-01	1.20E-01	1.20E-01	3.88E-01	3.88E-01	1.34E+00
Methyl ethyl ketone	1.83E+01	1.83E+01	2.20E+01	2.20E+01	2.20E+01	7.10E+01	7.10E+01	2.45E+02
3-Methylcholanthrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Methylene chloride	1.92E+00	1.92E+00	2.30E+00	2.30E+00	2.30E+00	7.42E+00	7.42E+00	2.56E+01
Naphthalene	2.07E-01	2.07E-01	2.48E-01	2.48E-01	2.48E-01	8.02E-01	8.02E-01	2.76E+00
Nitrogen dioxide	1.97E+04	1.63E+04	1.03E+04	1.03E+04	1.03E+04	3.33E+04	3.33E+04	1.34E+05
p-Dichlorobenzene	1.38E+00	1.38E+00	1.66E+00	1.66E+00	1.66E+00	5.35E+00	5.35E+00	1.84E+01
Perchloroethylene	2.15E+00	2.15E+00	2.58E+00	2.58E+00	2.58E+00	8.33E+00	8.33E+00	2.87E+01
Sulfur dioxide	1.21E+04	1.03E+04	2.06E+04	2.06E+04	2.06E+04	3.77E+04	3.77E+04	1.60E+05
Tetrachloroethane	6.61E+00	6.61E+00	7.93E+00	7.93E+00	7.93E+00	2.56E+01	2.56E+01	8.82E+01
Toluene	2.95E+01	2.95E+01	3.54E+01	3.54E+01	3.54E+01	1.14E+02	1.14E+02	3.93E+02
Trichloroethene	8.73E-01	8.73E-01	1.05E+00	1.05E+00	1.05E+00	3.38E+00	3.38E+00	1.16E+01
Vinyl chloride	1.96E-01	1.96E-01	2.35E-01	2.35E-01	2.35E-01	7.59E-01	7.59E-01	2.62E+00
Vinylidene chloride	6.94E-02	6.94E-02	8.33E-02	8.33E-02	8.33E-02	2.69E-01	2.69E-01	9.26E-01
Xylenes	2.23E+01	2.23E+01	2.68E+01	2.68E+01	2.68E+01	8.64E+01	8.64E+01	2.98E+02

Notes:

[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).

[2] The emissions increments equal the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR.

To determine acute HI, the HRA modeled peak hourly TAC emissions increments from the two proposed new flares. The peak hourly TAC emissions increments are presented in Table 4-15. The emissions increments represent the maximum potential flare emissions from proposed new Flares 12 and 13. Unlike the annual emissions, the peak hourly baseline emissions from the existing flares are not restricted by the site-wide limits in the current Title V permit because the site-wide limits are based on 24-hour averages. Therefore, for peak hourly emissions, both the baseline and proposed emissions from the existing flares (Flares 1, 3, 9, 10, and 11) are based on maximum flare capacity which would not change. As a result, there would be no change in peak hourly TAC emissions from existing Flares 1, 3, 9, 10, and 11 due to the Proposed Project, and their emissions increments would be zero.

Construction-related TAC emissions were not included in the HRA because of their short duration, minimal emissions, and relatively large distance to sensitive receptors. The contribution to health risks from Proposed Project construction would be minimal.

Table 4-15
TAC Peak Hourly Emissions Increments Associated with Proposed Project Operation

Toxic Air Contaminant [1]	Change in Peak Hourly Emissions (lb/hr) [2]		
	Flare 12	Flare 13	Total
Acrylonitrile	5.29E-03	5.29E-03	1.06E-02
Benz(a)anthracene	1.35E-07	1.35E-07	2.70E-07
Benzene	6.95E-03	6.95E-03	1.39E-02
Benzo(a)pyrene	9.00E-08	9.00E-08	1.80E-07
Benzo(b)fluoranthene	1.35E-07	1.35E-07	2.70E-07
Benzo(k)fluoranthene	1.35E-07	1.35E-07	2.70E-07
Benzyl chloride	4.01E-05	4.01E-05	8.01E-05
Carbon disulfide	3.49E-04	3.49E-04	6.99E-04
Carbon monoxide	9.12E+00	9.12E+00	1.82E+01
Carbon tetrachloride	6.08E-05	6.08E-05	1.22E-04
Carbonyl sulfide	3.80E-04	3.80E-04	7.60E-04
Chlorobenzene	3.33E-04	3.33E-04	6.66E-04
Chloroform	2.83E-05	2.83E-05	5.67E-05
Chrysene	1.35E-07	1.35E-07	2.70E-07
Dibenzo(a,h)anthracene	9.00E-08	9.00E-08	1.80E-07
1,1-Dichloroethane	1.03E-04	1.03E-04	2.07E-04
7,12-Dimethylbenz(a) anthracene	1.20E-06	1.20E-06	2.40E-06
Ethyl benzene	7.73E-03	7.73E-03	1.55E-02
Ethyl chloride	1.33E-03	1.33E-03	2.65E-03
Ethylene dibromide	4.46E-05	4.46E-05	8.92E-05
Ethylene dichloride	2.82E-03	2.82E-03	5.64E-03
Formaldehyde	1.13E-02	1.13E-02	2.25E-02
Hexane	2.79E-01	2.79E-01	5.58E-01
Hydrogen chloride	1.21E+00	1.21E+00	2.43E+00
Hydrogen sulfide	1.02E-01	1.02E-01	2.04E-01
Indeno(1,2,3-cd)pyrene	1.35E-07	1.35E-07	2.70E-07
Isopropyl alcohol	4.75E-02	4.75E-02	9.51E-02
Mercury	4.60E-05	4.60E-05	9.20E-05
Methyl chloroform	1.83E-04	1.83E-04	3.66E-04

Table 4-15 (concluded)
TAC Peak Hourly Emissions Increments Associated with Proposed Project Operation

Toxic Air Contaminant [1]	Change in Peak Hourly Emissions (lb/hr) [2]		
	Flare 12	Flare 13	Total
Methyl ethyl ketone	8.10E-03	8.10E-03	1.62E-02
3-Methylcholanthrene	1.35E-07	1.35E-07	2.70E-07
Methylene chloride	1.75E-03	1.75E-03	3.49E-03
Naphthalene	9.15E-05	9.15E-05	1.83E-04
Nitrogen dioxide	3.80E+00	3.80E+00	7.60E+00
p-Dichlorobenzene	1.31E-03	1.31E-03	2.61E-03
Perchloroethylene	2.16E-03	2.16E-03	4.32E-03
Sulfur dioxide	4.31E+00	4.31E+00	8.62E+00
Tetrachloroethane	2.92E-03	2.92E-03	5.84E-03
Toluene	2.67E-02	2.67E-02	5.35E-02
Trichloroethene	6.94E-04	6.94E-04	1.39E-03
Vinyl chloride	2.05E-04	2.05E-04	4.09E-04
Vinylidene chloride	3.07E-05	3.07E-05	6.13E-05
Xylenes	2.23E-02	2.23E-02	4.45E-02

Notes:
[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).
[2] The emissions increments equal the maximum potential emissions from proposed Flares 12 and 13 under the Proposed Project. There would be no change in peak hour emissions from existing Flares 1, 3, 9, 10, and 11; therefore, their emissions increments would be zero.

Table 4-16 presents the maximum HRA results associated with operation of the SCL flares under the Proposed Project. For each health risk category and receptor type, the table compares the maximum Proposed Project increment to the South Coast AQMD significance threshold. The results represent an overall increase in health risks associated with the SCL flares operating under the Proposed Project relative to the existing flares operating under the 1999 Final SEIR. Figure 4-2 shows the locations of the maximum health risk increments over a map of the project area.

The results in Table 4-16 show that all health risks associated with the Proposed Project would be less than the South Coast AQMD significance thresholds. Specifically, the maximum individual cancer risk of 1.1×10^{-7} or 0.11 in a million, at a residential receptor, is less than the significance threshold of 1×10^{-5} or 10 in a million. The maximum chronic hazard index of 0.005 occurs at a worker receptor and is less than the significance threshold of 1.0. The maximum acute hazard index of 0.02 occurs at a worker receptor and is less than the significance threshold of 1.0. Therefore, the Proposed Project would not produce a new significant impact or substantially increase the severity of a previously identified significant impact at a receptor related to TAC emissions. Thus, no mitigation measures are necessary or required.

Table 4-16
Health Risk Increments Associated with Proposed Project Operation

Health Risk Category	Receptor Type	Maximum Proposed Project Increment	Significance Threshold	Exceedance?
Individual Cancer Risk (per million)	Resident	0.11	10	No
	Worker	0.014	10	No
Chronic Hazard Index	Resident	0.002	1.0	No
	Worker	0.005	1.0	No
Acute Hazard Index	Resident	0.003	1.0	No
	Worker	0.02	1.0	No

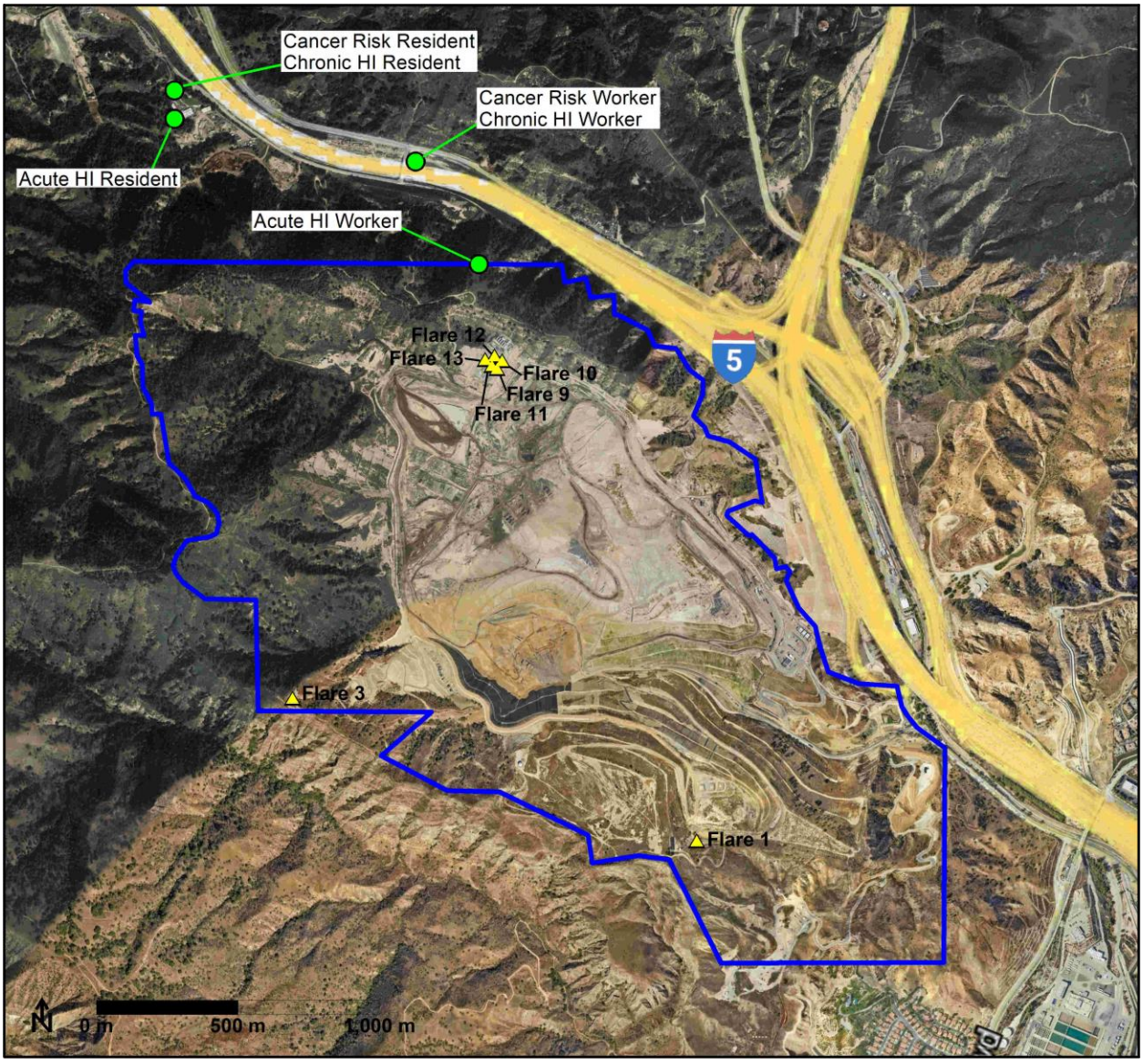


Figure 4-2
Locations of Maximum Health Risk Increments due to the Proposed Project During Operation

Impact AQ-7. Odors

The air quality significance threshold for odor is whether the project creates an odor nuisance pursuant to South Coast AQMD Rule 402. Odor problems depend on individual circumstances. For example, individuals can differ quite markedly from the populated average in their sensitivity to odor due to any variety of innate, chronic or acute physiological conditions. This includes olfactory adaptation or smell fatigue (i.e., continuing exposure to an odor usually results in a gradual diminution or even disappearance of the smell sensation).

During Proposed Project construction, there would be odors associated with exhaust from diesel-fueled off-road construction equipment used to install the new flares and blowers (see Impact AQ-2 for a discussion of the specific construction equipment and activities). In addition, diesel trucks would be used to transport construction materials to the project site. The diesel fuel is required to have a low sulfur content (e.g., 15 ppm by weight or less) in accordance with South Coast AQMD Rule 431.2 – Sulfur Content of Liquid Fuels and such fuel is expected to minimize odor. CARB's Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling (Title 13, CCR, Section 2485) prohibits diesel trucks with gross vehicle weight ratings greater than 10,000 pounds from idling longer than five minutes at any location. Because of the relatively small number of diesel-fueled on- and off-road equipment, the short-term nature of construction, and the relatively large distance from the construction site to sensitive receptors, odor impacts associated with Proposed Project construction would be considered less than significant.

The Proposed Project is a key response to the 2016 Stipulated Order for Abatement, which required BFIC to address alleged violations of Health and Safety Code Section 41700 and South Coast AQMD Rule 402 - Nuisance relating to landfill odors at the SCL facility. By design, operation of the Proposed Project would improve the ability of SCL to control odors related to fugitive LFG emissions, which is one of the Project objectives. The proposed addition of two 300-hp electric blowers would increase the LFG collection capability of the GCCS. Moreover, the proposed addition of two new flares and the proposed increase in the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4) would give the seven SCL flares the capability to combust and thereby, reduce odors from the maximum forecasted LFG generation of 32,392 scfm (at 50% CH4), which is predicted to be reached by 2038.

LFG flares are considered odor abatement devices. Combustion of LFG destroys most of the odorous compounds present in LFG. Pursuant to South Coast AQMD Rule 1150.1, LFG control devices, including flares, are required to control non-methane organic compounds by at least 98 percent. Odorous sulfur compounds in the LFG, including mercaptans and hydrogen sulfide, are oxidized to sulfur dioxide during combustion in flares. As a result, few odorous emissions are expected from flares. In addition, the thermal buoyancy and high vertical flow rates of flare exhaust increase the dispersion of any odorous compounds that remain after LFG destruction, further reducing the potential for odors.

In summary, construction and operation of the Proposed Project would be expected to reduce odor impacts and not produce a new significant impact or substantially increase the severity of a previously identified significant impact related to odors. Thus, no mitigation measures are necessary or required.

Impact AQ-8. Consistency with Existing Rules and Regulations and Future Compliance Requirements

The five existing flares, two proposed new flares, and GCCS would be required to comply with all applicable South Coast AQMD rules and regulations, as well as state and federal requirements. Further, before a revised Title V permit can be issued, the Proposed Project must demonstrate that it would be capable of complying with all applicable regulatory requirements, including but not limited to South Coast AQMD Rule 402 – Nuisance, Rule 1118.1 – Control of Emissions from Non-Refinery Flares, Rule 1150.1 – Control of Gaseous Emissions from Municipal Solid Waste Landfills, Regulation XIII – New Source Review, and Regulation XXX – Title V Permits. For this reason, the Proposed Project would not diminish an existing air quality rule or future compliance requirement, as the. In addition, after the revised Title V permit is issued, Regulation XXX requires the facility to annually certify compliance with all applicable local, state and federal requirements.

Therefore, the Proposed Project would not produce a new significant impact or substantially increase the severity of a previously identified significant impact related to consistency with existing rules/regulations and future compliance requirements. Based upon these considerations, no mitigation measures are necessary or required.

Impact GHG-1. Greenhouse Gas Emissions

The analysis of GHGs differs from the analysis of criteria pollutants. For criteria pollutants, the significance thresholds are based on daily emissions because attainment or non-attainment is primarily based on daily exceedances of applicable ambient air quality standards. Further, several ambient air quality standards are based on relatively short-term exposure effects on human health (e.g., one-hour and eight-hour standards). By contrast, GHGs affect the global climate over a relatively long-time frame. For example, the half-life of CO2 in the atmosphere is approximately 100 years. As a result, the South Coast AQMD's current approach is to evaluate GHGs in terms of annual emissions. GHG emissions are typically considered to be cumulative impacts because they contribute to global climate effects.

In 2008, the South Coast AQMD convened a "Greenhouse Gas CEQA Significance Threshold Working Group" to consider a variety of benchmarks and potential significance thresholds to evaluate GHG impacts. An interim CEQA GHG significance threshold was adopted for projects where South Coast AQMD is the lead agency (South Coast AQMD, 2008). This interim threshold is set at 10,000 metric tons (MT) of CO2 equivalent emissions (CO2e) per year. For comparison to the threshold, the Proposed Project's emissions consist of annual operational emissions plus total construction emissions amortized over 30 years (i.e., total construction emissions divided by 30 years).

Table 4-17 presents the total GHG emissions associated with Proposed Project construction. The construction-related GHG emissions would occur over an approximate four-month construction period. These GHG emissions were estimated using CalEEMod. The main assumptions used in CalEEMod are described in Impact AQ-2. The CalEEMod output for construction-related GHG emissions is included in Appendix D. Table 4-17 shows that Proposed Project construction would produce an estimated 795 MT of CO2e. Amortizing construction-related GHG emissions over 30 years results in an amortized annual emission rate of 27 MT of CO2e per year, which is less than the South Coast AQMD's air quality significance threshold of 10,000 MT/yr of CO2e for GHGs.

Table 4-17
Total GHG Emissions Associated with Proposed Project Construction

Source	CO2 (MT)	CH4 (MT)	N2O (MT)	R (MT) [1]	CO2e (MT) [2]
Construction Equipment	85	0.00	0.00	0.00	85
Trucks	662	0.03	0.10	0.68	695
Worker Vehicles	15	0.00	0.00	0.02	15
Total Emissions	**762**	**0.04**	**0.10**	**0.70**	**795**
Total Emissions Amortized over 30 Years (per year)					**27**

Notes: CO2 = carbon dioxide; CH4 = methane; N2O = nitrous oxide; R = refrigerants; CO2e = carbon dioxide equivalent; MT = metric tons. Emissions were calculated using CalEEMod.
The sum of the displayed values by source may not precisely equal the totals due to rounding.
[1] Refrigerants (some containing HFCs) are fugitive losses from on-board air conditioning and refrigeration systems.
[2] CalEEMod uses 100-year GWPs from IPCC's Fourth Assessment Report (IPCC, 2007). These GWPs are consistent with the California statewide GHG emissions inventory (CARB, 2023).

Table 4-18 presents the maximum potential GHG emissions associated with Proposed Project operation. These GHG emissions reflect the operation of five existing and two proposed new flares at their maximum LFG input capacities, which total 33,334 scfm (at 50% CH4). As discussed in Section 2.6, the analysis conservatively assumed that the flares would operate continuously at capacity even though in practice, a substantial portion of the collected LFG would be diverted to the SGP facility except when the SGP facility is temporarily off-line. The operational GHG emissions were calculated using emission factors published in 40 CFR Part 98 Subpart C (Mandatory Greenhouse Gas Reporting; General Stationary Fuel Combustion Sources).

Table 4-18
Maximum Potential GHG Emissions Associated with Proposed Project Operation

Abatement Device	LFG Input (scfm) [1]	Annual Emissions (MT/yr)			
		CO2	CH4	N2O	CO2e
Flare 1	4,167	53,368	3.3	0.6	53,642
Flare 3	4,167	53,368	3.3	0.6	53,642
Flare 9	5,000	69,332	4.3	0.8	69,689
Flare 10	5,000	69,332	4.3	0.8	69,689
Flare 11	5,000	69,332	4.3	0.8	69,689
Flare 12 [2]	5,000	69,332	4.3	0.8	69,689
Flare 13 [2]	5,000	69,332	4.3	0.8	69,689
Total	**33,334**	**453,396**	**27.9**	**5.5**	**455,728**

Notes:
[1] At 50% CH4.
[2] Proposed new flare.

Table 4-19 presents the GHG emissions increment associated with Proposed Project during construction and operation. The increment equals the sum of the amortized construction emissions (Table 4-17) and maximum potential operational emissions (Table 4-18) minus the baseline flare emissions (Table 3-9). As detailed in Section 3.2.4, the baseline emissions represent the maximum potential flare emissions under the 1999 Final SEIR, which reflect the five existing flares

combusting 16,100 scfm (at 50% CH4). The operational GHG emission calculations for baseline and the Proposed Project are included in Appendix C.

Table 4-19 shows that the Proposed Project would result in an incremental increase of CO2e emissions of 231,652 MT/yr, which would exceed the significance threshold of 10,000 MT/yr of CO2e for GHGs. In addition, construction-related GHG emissions would be negligible relative to the operational flare emissions. Because GHGs were not addressed in the 1999 Final SEIR, a significant GHG impact would be considered a new impact. Therefore, construction and operation of the Proposed Project would create a new significant impact related to GHG emissions.

Table 4-19
GHG Emissions Increment Associated with Proposed Project Construction and Operation

Emissions Scenario	CO2e (MT/yr)
Proposed Project Construction [1]	27
Proposed Project Operation [2]	455,728
Proposed Project Total	**455,755**
Baseline [3]	224,103
Emissions Increment [4]	**231,652**
Significance Threshold	10,000
Exceeds Threshold?	**Yes**

Notes: CO2e = carbon dioxide equivalent; MT/yr = metric tons per year.
[1] From Table 4-17. Construction emissions are amortized over 30 years.
[2] From Table 4-18.
[3] From Table 3-9.
[4] Emissions Increment = Proposed Project Total minus Baseline. The emissions increment equals the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR.

The following discussion provides context for the significant GHG impact identified in the preceding paragraph. This SEIR quantified the potential increases in flare GHG combustion emissions due to increasing the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4). The proposed addition of two new flares and the proposed increase in the site-wide LFG combustion limit would give the seven SCL flares the capability to combust the maximum forecasted LFG generation of 32,392 scfm (at 50% CH4), which is predicted to be reached by 2038. As shown in Table 4-19, the resulting potential increases in flare GHG emissions would exceed the South Coast AQMD' air quality significance threshold of 10,000 MT/yr of CO2e for GHGs; hence, the significance finding in this SEIR.

However, a broader consideration of the flares reveals their GHG emissions benefit. The SCL flares act as abatement devices for GHGs because they convert nearly all of the CH4 present in uncombusted LFG into CO2. According to the U.S. EPA, reducing CH4 emissions from MSW landfills is one of the best ways to achieve a near-term beneficial impact in mitigating global climate change. The U.S. EPA further states that CO2 emissions from MSW landfills are not considered to contribute to global climate change because the carbon was contained in recently living biomass, and the same CO2 would be emitted as a result of the natural decomposition of the organic waste materials outside the landfill environment (U.S. EPA, 2024e). This SEIR, however,

conservatively treats landfill CO2 emissions as contributing to global climate change, since CO2 is the primary GHG contributing to the Proposed Project CO2e emissions in Table 4-19.

Because CH4 has 25 times the global warming potential (GWP) of CO2, the CO2 created during LFG combustion is much less potent than the CH4 that otherwise would have been emitted in fugitive LFG releases. As demonstrated in Table 4-20, the South Coast AQMD has determined that combusting LFG in flares reduces CO2e emissions by approximately 80 percent compared to releasing the same LFG to the atmosphere uncombusted.

Table 4-20
GHG Emissions Benefit from Combusting LFG by Flares in the Proposed Project

Emission Scenario	Annual Emissions (MT/MMscf) [1,2]			
	CO2	CH4	N2O	CO2e
Uncombusted LFG	25.9	9.4	0	262.1
Flared LFG	52.0	0.002	0.0003	52.1
CO2e Reduction from Flaring LFG				80%

Notes: MT/MMscf = metric tons per million standard cubic feet of LFG.
[1] Assumes LFG is composed of 50% CH4.
[2] Combustion emissions were calculated using emissions factors from 40 CFR Part 98 Subpart C, Tables C-1 and C-2.

Therefore, although this SEIR finds that the increases in potential flare GHG emissions relative to the 1999 Final SEIR would be significant, the Proposed Project flares would serve a beneficial purpose of destroying CH4 in LFG.

Mitigation Measures

Under the Proposed Project, the potential increases in operational GHG emissions from the existing flares (Flares 1, 3, 9, 10, and 11) and proposed flares (Flares 12 and 13) would exceed the South Coast AQMD's daily significance threshold for GHGs. Thus, significant adverse GHG impacts are expected from the Proposed Project. If significant adverse environmental impacts are identified, the CEQA document shall describe feasible measures that could minimize the significant adverse impacts of the proposed project. [CEQA Guidelines Section 15126.4]. Therefore, mitigation measures for reducing or eliminating the adverse GHG impacts, beyond what would occur from the implementation of all applicable regulatory requirements, need to be identified, if feasible. All existing and new flares would be included and regulated by a revised Title V permit administered by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including Best Available Control Technology (BACT) and offsets as defined in Rule 1303, and emission limits as specified in Rule 1118.1, in addition to applicable state and federal regulations. Moreover, the flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. No mitigation measures have been identified that would be feasible to reduce the GHG emissions from the flares above and beyond the existing regulatory requirements applicable to this equipment.

Remaining Impacts

Since no feasible mitigation measures have been identified that would be capable of reducing the GHG impacts to less than significant levels, the GHG impacts would remain significant.

Impact GHG-2. Consistency with GHG Reduction Plans

CH4 is a potent greenhouse gas that is a key contributor to global climate change. Reducing CH4 emissions from MSW landfills is one of the best ways to achieve a near-term beneficial impact in mitigating global climate change. In addition, CH4 contributes to background ozone levels as an ozone precursor. Many of the technologies and practices that reduce CH4 emissions also reduce associated emissions of VOCs, odors and other local air pollutants. The captured CH4 is destroyed (converted to water and the much less potent CO2) when the gas is burned. (U.S. EPA, 2024e).

The 2022 Scoping Plan Update lists state-wide actions needed to achieve the SB 32 GHG reduction target for 2030 and to become carbon neutral no later than 2045. One such action is to increase landfill CH4 capture. According to the Scoping Plan Update, a direct emission reduction of 10 percent is achievable across the state's landfills by 2030 through a combination of improvements in operational practices, use of lower permeability covers, advanced landfill gas collection systems, and increased monitoring to detect and repair leaks. The Proposed Project would support these actions by improving SCL's GCCS through the installation of two new 300-hp electric blowers and two new flares.

The South Coast AQMD's GHG Policy does not specifically address LFG collection and combustion. However, the Proposed Project would be consistent with the policy's objective of seeking ways to reduce emissions of climate change pollutants.

The City of Los Angeles Sustainable City pLAn / L.A.'s Green New Deal does not specifically address LFG collection and combustion except indirectly in terms of organic waste diversion from landfills (which would reduce the quantity of LFG generated). Even as organic waste is diverted from the SCL facility and other landfills for process as other locations, the SCL facility will continue to process the waste it will continue to receive and collect and flare the LFG generated from this waste. As such, waste diversion is not directly relevant to the Proposed Project.

In summary, the Proposed Project would improve SCL's ability to capture and control CH4 by installing two new electric blowers and two new LFG flares. Increasing the capture of landfill CH4 is one of the necessary actions identified in CARB's 2022 Scoping Plan Update. Therefore, the Proposed Project is consistent with the 2022 Scoping Plan Update. The Proposed Project would not produce a new significant impact or substantially increase the severity of a previously identified significant impact related to GHG plan consistency. Thus, no mitigation measures are necessary or required.

4.5 OTHER ENVIRONMENTAL TOPIC AREAS FOUND NOT TO BE SIGNIFICANT

CEQA requires the identification of the environmental topic areas that were analyzed and concluded to have no impacts or less than significant impacts, if a proposed project is implemented. For the effects of a proposed project that were determined not to be significant, CEQA Guidelines Section 15128 requires the analysis to contain a statement briefly indicating the reasons that various effects that were determined not to have significant impacts and were therefore not discussed in detail.

The 1999 Final SEIR analyzed whether the City/County Landfill Project would create potentially significant adverse impacts for 19 environmental topic areas (see Table 4-1). The 1999 Final SEIR

concluded that significant and unavoidable adverse environmental impacts from the City/County Landfill Project would occur after implementing mitigation measures for the topic of air quality (see Table 4-2) while the remaining environmental topic areas would be less than significant with or without mitigation. For all environmental topics, except the topics of air quality and GHG emissions which are discussed and further analyzed in Section 4.4 of this chapter, this subchapter of the SEIR identifies and summarizes the environmental topic areas that were previously analyzed in the 1999 Final SEIR and assesses whether the conclusions reached would need to be revised if the Proposed Project is implemented. Also, since three new environmental topic areas, agriculture and forestry resources, tribal cultural resources and wildfire, were added to the CEQA Guidelines after the 1999 Final SEIR was certified, this section analyzes whether the Proposed Project would contribute to any impacts on agriculture and forestry resources, tribal cultural resources and wildfires.

Aesthetics

The 1999 Final SEIR previously analyzed aesthetics impacts associated with the City/County Landfill Project (see Section 4.18 Aesthetics/View and Section 4.6 Light/Glare in the 1997 Draft SEIR (pp. 4-457 and 4-223, respectively) and the 1999 Final SEIR (pp. 2-105 and 2-182, respectively) for more details) and concluded that less than significant impacts would occur for several reasons.

While the developments under the City/County Landfill Project altered the topography and natural features of the project site, the project's footprint was situated deep within Sunshine Canyon, far from exterior ridgelines, which prevented significant visual disruption. The highest landfill elevation (2,000 feet MSL) was higher than the northern ridgeline (1,825 feet MSL), but because the project site was located deep within Sunshine Canyon, far from the exterior ridgelines, the surrounding ridgelines largely remained unchanged, preventing significant visual disruption. Additionally, the City/County Landfill project occurred within the ±100-acre buffer area, away from sensitive southern ridgelines and adjacent mitigation sites, preserving the natural appearance of the perimeter. Grading and construction were also localized to the landfill footprint and ancillary facilities, limiting impacts on broader visual landscapes. Moreover, the short duration of views from nearby transportation corridors, such as the I-5 and SR-14 Freeways, further diminished the potential for significant aesthetic disruption. Motorists only observed the site for brief periods, with visibility lasting less than 30 seconds. Moreover, the presence of existing industrial uses along these corridors and intervening ridgelines further reduced the potential for any negative aesthetic impacts. While the City/County Landfill project resulted in the conversion of some open space to industrial use, the perimeter ridgelines and steep hillsides retained their natural mountainous character, and revegetation efforts during the long-term closure phase have further blended the site into the surrounding landscape. Thus, the City/County Landfill project's visual changes did not substantially impact the aesthetic quality of the area.

Although the 1999 Final SEIR concluded less than significant visual impacts for the City/County Landfill Project, several mitigation measures were adopted to minimize aesthetic impacts including ensuring that landfill elevations would not exceed the maximum permitted height, confining excavation areas to those that would later be landfilled, and supplementing the ridgelines with native vegetation as part of revegetation efforts. Additionally, the final cover of landfilled areas was landscaped with compatible ground cover and plant species, while the ±100-acre open space buffer zone was maintained and enhanced with both native and nonnative vegetation.

The Proposed Project would install two additional LFG flares (Flares 12, and 13) and two additional electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). This pad is in the main operational equipment area in the northern portion of SCL.

Therefore, physical modifications that may occur at the landfill in response to the Proposed Project are expected to occur within the existing boundary of the landfill, and in a similar fashion as to what was analyzed for the City/County Landfill Project. Thus, the same reasoning for why the 1999 Final SEIR concluded that less than significant aesthetic impacts would occur, also applies to the Proposed Project. Therefore, the previous conclusion of less than significant impact to aesthetics in the 1999 Final SEIR will continue to apply to the Proposed Project. Mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact, neither additional mitigation measures nor modifications to the existing mitigation measures are required as a result of the Proposed Project.

Agriculture and Forestry Resources

At the time the 1999 Final SEIR for the City/County Landfill Project was certified, the environmental checklist did not include the "Agriculture and Forestry Resources" as environmental topic area to be evaluated. However, the "Agriculture and Forestry Resources" impact category was added to the CEQA checklist as part of the revisions to the CEQA Guidelines Appendix G (Environmental Checklist Form) in 2002. This change came with the adoption of CEQA Guidelines Amendments, specifically under the CCR Title 14, Section 15000 et seq. The 2002 CEQA Guidelines Amendments included updates to the environmental checklist to require analysis of agricultural and forestry resource impacts when considering the potential environmental effects of projects. This required change was in response to the increasing concern over the loss of agricultural land and forest resources due to urban development and other factors, aiming to ensure that projects subject to CEQA consider these impacts and mitigate potential harm to these valuable resources.

As such, the following paragraphs of this SEIR provides an analysis of whether the Proposed Project would be expected to contribute to impacts on agriculture and forestry resources.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5).

Pursuant to the California Land Conservation Act of 1965, a Williamson Act Contract enables private landowners to voluntarily enter into contracts with local governments for the purpose of restricting specific parcels of land to agricultural or related open space use. In return, landowners receive lower property tax assessments based upon farming and open space uses as opposed to full market value. However, physical modifications that may occur in response to the Proposed Project are expected to occur within the footprint of the SCL facility which has been fully developed and

paved; thus, the Proposed Project is not expected to result in converting farmland to non-agricultural use; conflict with existing zoning for agricultural use, or a Williamson Act Control. The Proposed Project is not also expected to 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)) or result in the loss of forest land or conversion of forest land to non-forest use. Consequently, the Proposed Project would have no adverse agriculture and forestry impact. Since no significant agriculture and forestry impacts were identified, no mitigation measures are required.

Biological Resources

The 1999 Final SEIR previously analyzed biological resources impacts associated with the City/County Landfill Project (see Section 4.4 Biological Resources in the 1997 Draft SEIR (p. 4-139) and the 1999 Final SEIR (pp. 2-76 to 2-80) for more details) and concluded that less than significant impacts would occur after mitigation measures were applied.

Specifically, the 1999 Final SEIR concluded less than significant impacts with regard to loss of wildlife and wildlife habitat due to the City/County Landfill Project after evaluating the impacts on both slow-moving and more mobile species. According to the 1999 Final SEIR, the removal or alteration of habitats would affect species such as small mammals, reptiles, and amphibians, which rely on these areas and are less able to relocate. However, more mobile species, such as larger mammals and birds, could move to nearby open spaces, though this might increase competition for resources. Despite these effects, the regional impact on non-sensitive wildlife populations was not expected to be significant. Sensitive habitats, such as coastal sage scrub and willow scrub, were impacted, but through mitigation measures like habitat restoration and revegetation, these impacts were reduced to a less than significant level. Furthermore, no threatened or endangered species were found to breed on-site, and potential impacts to species such as the California gnatcatcher and least Bell's vireo were addressed through preconstruction surveys and habitat restoration. With the implementation of these mitigation measures, the City/County Landfill Project project's impacts on wildlife habitat and species were deemed less than significant.

The 1999 Final SEIR also concluded that the development of the City/County Landfill Project would result in unavoidable impacts on streamzones, wetlands, and riparian habitats, including the loss of approximately 2.95 acres of jurisdictional waters and riparian habitat due to grading and excavation activities. However, mitigation measures, including the development of a compensatory mitigation plan and obtaining necessary permits from regulatory agencies such as the Corps, California Department of Fish and Wildlife (CDFG), and California State Water Resources Control Board (SWRCB), were required to offset the loss. These measures included onsite restoration of degraded wetlands or the establishment of manmade wetlands, or offsite mitigation if onsite options were impractical. The mitigation plan ensured no net loss of wetland habitat, with an emphasis on restoration, as it had a higher likelihood of success. Through these actions, the City/County Landfill project reduced the impacts on wetland and riparian habitats to a less than significant level, addressing both direct and cumulative regional effects.

Lastly, the 1999 Final SEIR concluded that the City/County Landfill project would involve the removal of 675 trees, including significant native species such as 545 Coast live oak trees and 19 canyon live oak trees, along with 14 Southern California black walnut trees. While the loss of oak woodland habitat and these species would have notable local impacts, the City/County Landfill

project would comply with the City's Oak Tree Ordinance and Tree Conservation Plan to mitigate these effects. A tree replacement program would be implemented, where native trees would be replaced at a 2:1 ratio and nonnative trees at a 2:1 ratio. The mitigation strategy would include tree planting in designated open spaces, pre-planting site preparation, and a three-year monitoring and maintenance program to ensure the survival and growth of the replanted trees. With these measures in place, the City/County Landfill project would successfully reduce the direct and cumulative impacts on tree resources to less than significant levels.

The Proposed Project would involve the installation of two additional LFG flares (Flares 12 and 13) and two additional electric blowers, as well as the revision of the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The new flares and blowers would be installed on the same approximately 1-acre cleared and graded pad as the existing Flares 9, 10, and 11 (refer to Figures 2-2 and 2-5). This pad is located in the main operational equipment area in the northern portion of SCL.

The physical modifications that may occur at the SCL facility in response to the Proposed Project are expected to occur on an already disturbed, cleared pad within the existing operational area. Additionally, the Proposed Project does not involve major excavation or grading, nor does it require the removal of trees or sensitive habitats. As a result, the Proposed Project will not contribute to any significant impacts on plant species or other biological resources (riparian habitats, wetlands, wildlife or migratory corridors), or conflict with ordinances or conservation plans. Thus, the previous conclusion of less than significant impact to biological resources in the 1999 Final SEIR will continue to apply to the Proposed Project. Further, the biological resources mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for biological resources, neither additional mitigation measures nor modifications to the existing biological resources mitigation measures are required as a result of the Proposed Project.

Cultural and Tribal Cultural Resources

As discussed in the 1991 NOP/IS and the 1999 Final SEIR for the City/County Landfill Project (see Section 4.19 Cultural Resources in the 1997 Draft SEIR (p. 4-477) and the 1999 Final SEIR (p. 2-106 to 2-108)for more details), the City/County Landfill Project had less than significant impact on cultural resources due to following reasons:

1) The City/County Landfill Project had minimal impact on archaeological resources. One archaeological site, CA-LAN-816, was recorded within the project area, but it was deemed of "minor importance." Archaeological surveys indicated that much of the site had already been disturbed by previous activities, including quarrying and landfilling. While no significant archaeological or historic resources were found, potential for undiscovered artifacts remained. To mitigate any impact, the project included measures such as resurveying areas before excavation, having an archaeologist on-site during significant disturbances, and halting operations if any significant resources were discovered, ensuring any findings were properly recovered and curated.

2) The City/County Landfill Project had a moderate likelihood of impacting paleontological resources, particularly within areas underlain by marine sedimentary rocks from the Miocene-early Pliocene Towsley Formation. While previous surveys identified fossil

localities in the area, none were deemed significant. Thus, less than significant impacts on paleontological resources were anticipated from the City/County Landfill Project. However, the potential for undiscovered, scientifically valuable fossils remained. To mitigate this risk, the project development required measures such as resurveying areas before excavation, having a paleontologist present during major earthworks, and halting operations if significant fossils were discovered. Any significant fossils found would be recovered and curated, ensuring minimal disturbance to paleontological resources during construction.

The Proposed Project would install two new LFG flares (Flares 12, and 13) and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). As noted earlier, the Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). Therefore, physical modifications that may occur at the landfill in response to the Proposed Project are expected to occur within the existing boundary of the landfill which has been fully developed, previously cleared of vegetation and has already been paved for safety and fire prevention reasons, such that there will be no physical changes to the environment which may cause disturbance to archaeological or historical resources or human remains. Furthermore, it is envisioned that these areas are already either devoid of significant cultural resources or whose cultural resources have been previously disturbed. Thus, the Proposed Project has no potential to cause a substantial adverse change to a historical or archaeological resource, and no potential to directly or indirectly disturb any human remains, including those interred outside formal cemeteries. Therefore, the previous conclusion of less than significant impacts to cultural resources in the 1991 NOP/IS and 1999 Final SEIR will continue to apply to the Proposed Project.

The cultural resources mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for cultural resources, neither additional mitigation measures nor modifications to the existing cultural resources mitigation measures are required as a result of the Proposed Project.

At the time the 1999 Final SEIR for the City/County Landfill Project was certified, the environmental checklist in the CEQA Guidelines did not include tribal cultural resources as environmental topic area to be evaluated. However, in 2019, tribal cultural resources was added to the environmental checklist in the CEQA Guidelines. As such, the following paragraph of this SEIR provides an analysis of whether the Proposed Project would be expected to contribute to impacts on tribal cultural resources.

As noted earlier, activities undertaken in response to the Proposed Project will continue to occur within the footprint of the SCL facility which has been fully developed and paved. The Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). Therefore, the Proposed Project is not expected to require physical changes to a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American Tribe. As part of releasing this CEQA document for public review and comment, the South Coast AQMD also provided a formal notice of the Proposed Project to all California Native American Tribes (Tribes) that requested to be on the

Native American Heritage Commission's (NAHC) notification list per Public Resources Code Section 21080.3.1(b)(1). The NAHC notification list provides a 30-day period during which a Tribe may respond to the formal notice, in writing, requesting consultation on the Proposed Project.

In the event that a Tribe submits a written request for consultation during this 30-day period, the South Coast AQMD will initiate a consultation with the Tribe within 30 days of receiving the request in accordance with Public Resources Code Section 21080.3.1(b). Consultation ends when either: 1) both parties agree to measures to avoid or mitigate a significant effect on a Tribal Cultural Resource and agreed upon mitigation measures shall be recommended for inclusion in the environmental document [see Public Resources Code Section 21082.3(a)]; or 2) either party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached [see Public Resources Code Section 21080.3.2(b)(1)-(2) and Section 21080.3.1(b)(1)].

Furthermore, the Proposed Project is not expected to result in a physical change to a resource determined to be eligible for inclusion or listed in the California Register of Historical Resources or included in a local register of historical resources. Similarly, the Proposed Project is not expected to result in a physical change to a resource determined by the South Coast AQMD to be significant to any tribe. For these reasons, the Proposed Project is not expected to cause any substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code Section 21074.

Energy

The 1999 Final SEIR analyzed energy impacts associated with the City/County Landfill Project (see Section 4.15 Energy Conservation and Section 4.16 Utilities) in the 1997 Draft SEIR (p. 4-433 and p. 4-439, respectively) and the 1999 Final SEIR (pp. 2-102 to 2-105) for more details) and concluded less than significant adverse energy impacts after mitigation measures were applied.

During construction, the City/County Landfill Project was estimated to consume approximately 2,914 gallons of fossil fuels on a daily basis, including diesel for heavy equipment and gasoline for worker vehicles. During operation, energy consumption from the City/County Landfill Project would primarily involve diesel fuel for hauling solid waste and operating heavy machinery, with an estimated 6,710 gallons of diesel consumed daily by trucks and onsite equipment, and approximately 325 gallons of gasoline consumed on a daily basis for local delivery trucks and employee commutes. Based on preceding discussion and the minimal consumption of gasoline and diesel during construction and operation, the 1999 Final SEIR concluded that the City/County Landfill Project would not cause significant adverse impact on gasoline and diesel fuel supplies during construction and operation. Additionally, the daily electricity consumption for administrative and ancillary buildings was determined to be minimal and necessary for the project's implementation. Thus, the 1999 Final SEIR concluded that the City/County Landfill project would consume energy resources on an as-warranted or as-necessary basis and it would not result in an inefficient, wasteful, and/or unnecessary consumption of energy.

Moreover, while the 1999 Final SEIR assumed that the City/County Landfill project would continue to use diesel and gasoline for onsite equipment and trucks, no alternate fuels were expected to be used by the landfill operator to operate heavy-duty equipment. Lastly, the 1999 Final SEIR concluded that that the City/County Landfill project would incorporate extensive onsite recycling, similar to the County Landfill program at that time. In details, the 1999 Final SEIR

declared that a green waste/wood waste recycling area would be developed, allowing for the processing of green waste to supplement landfill cover materials and other beneficial uses like soil amendment and erosion control. This recycling effort was determined to reduce the need for additional energy-consuming processes and further minimize the City/County Landfill project 's overall energy consumption.

The Proposed Project would involve the installation of two additional LFG flares and two additional electric blowers, as well as the revision of the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and blowers would be installed on the same approximately 1-acre cleared and graded pad as the existing Flares 9, 10, and 11 (refer to Figures 2-2 and 2-5). This pad is located in the main operational equipment area in the northern portion of SCL.

For the City/County Landfill project in the 1999 Final SEIR, the construction-related diesel and gasoline consumption was determined to be substantially less than one percent of the total annual demand in the basin in 2016 (i.e.,749 million gallons of diesel and 6,997 million gallons of gasoline). Similarly for the Proposed Project as analyzed earlier for Impact AQ-2, construction will involve fewer construction activities overall, fewer construction equipment, fewer personnel, fewer vehicles (trucks and passenger vehicles), and will occur over a four-month period. Due to the relatively small number of equipment and vehicles that will be needed during construction, the amount of construction-related fuel consumption for the Proposed Project is not expected to exceed the amounts in the 1999 Final SEIR. Moreover, no additional permanent employees were anticipated to be needed during the operation of two proposed new flares and two new blowers. Thus, no additional demand for gasoline and diesel fuel are expected from the Proposed Project during operation. Therefore, the previous conclusion of less than significant impact to energy in the 1999 Final SEIR will continue to apply to the Proposed Project.

The energy mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for energy, neither additional mitigation measures nor modifications to the existing energy mitigation measures are required as a result of the Proposed Project.

Geology and Soils

The 1999 Final SEIR analyzed geology and soils impacts associated with the City/County Landfill Project (see Section 4.1 Earth Resources in the 1997 Draft SEIR (p. 4-3) and the 1999 Final SEIR (pp. 2-57 to 2-61) for more details) and concluded less than significant adverse geology and soils impacts after mitigation measures were applied, due to the following:

1) Temporary displacement of soil materials during grading could have led to fugitive dust emissions and potential surface runoff, which were mitigated as outlined in related environmental studies. The City/County Landfill Project also involved alterations to the site's topography, including changes to the physical form of the land area. The final landfill design incorporated engineered topographic relief, blending with the surrounding mountainous terrain. Thus, it was anticipated that the implementation of the City/County Landfill Project would not increase, decrease, or otherwise affect or expose people or structures to geologic hazards due to grading activities at the project site. No significant

environmental effects resulting from grading activities, or the sequencing of the City/County Landfill Project were concluded.

2) Exploration borings conducted in the County portion of Sunshine Canyon identified block-type landslides, with movement primarily along bedding planes perpendicular to the bedrock layers. These landslides, some as thick as 100 feet, did not lie within the proposed landfill footprint and would not affect the project development. Several relatively young landslides, likely triggered by the San Fernando and Northridge earthquakes, were also observed, but older landslides, aged up to 20,000 years, were deemed static and unlikely to reactivate. A significant landslide deposit near the City/County boundary, previously studied, was found to be shallow and would be excavated using heavy equipment without compromising slope stability. Additionally, while surface water drainage could cause localized mudflows, the thin soil veneer and erosion control methods, including slope benching and revegetation, would reduce the risks from the City/County Landfill Project. Other mitigation measures, including careful excavation, stockpiling, and stabilization of areas to prevent erosion, would also reduce any potential geologic hazards to a less-than-significant level.

3) Seismic hazards at the Sunshine Canyon site included primary fault rupture, secondary ground rupture, and strong ground shaking. The potential for primary fault rupture within the site was determined to be minimal, as onsite faults did not show evidence of recent movement, and no major active faults were exposed during excavation. While secondary ground rupture could occur in the event of a major earthquake, its potential magnitude was estimated to be between 4 to 8 inches based on past seismic activity within the project location. The City/County Landfill Project site was also determined to face the risk of strong ground shaking, which could damage the landfill's containment and drainage systems or induce landsliding. Thus, the landfill was required to be designed in a way to accommodate ground deformation from thrust faults and strong shaking. In addition, the City/County Landfill Project was required to adhere to seismic standards (including those for fault areas), seismic design measures (including stabilizing slopes, reinforcing containment systems, and preparing emergency response plans for potential damage), and post-earthquake inspections. With these mitigation strategies, significant seismic-related impacts were not expected from the City/County Landfill Project.

4) Although no liquefaction occurred at the project site during the San Fernando or Northridge earthquakes, saturated alluvium in the canyon bottoms, if left in place, could pose a risk of liquefaction-induced ground displacements during a seismic event, potentially compromising the landfill's containment systems. To mitigate this risk, alluvium within the canyon bottoms beneath the landfill footprint and ancillary structures was required to be excavated and replaced with compacted structural fill during construction. A qualified geologist was also expected to oversee the removal and replacement process to ensure all alluvium is removed before constructing the containment systems. Additionally, the landfill facility was required to be designed in accordance with regulatory standards to prevent liquefaction-related impacts, ensuring the integrity of the waste containment systems. With these mitigation measures, any potential risks related to liquefaction was reduced to a level of less than significant.

5) The slopes at the City/County Landfill Project site were determined to be generally stable, with little evidence of recent instability in older landslide deposits. Thus, the 1999 Final SEIR required the landfill to be designed with advanced engineering practices to minimize slope failure risks. Additionally, key mitigation measures were included to limit refuse slope gradients to no steeper than 2H:1V, ensure cut and fill slopes are no steeper than 1.5H:1V, and maintain a static factor of safety of at least 1.5 for final slopes. After implementing these measures, no significant slope stability impacts were anticipated from the City/County Landfill Project.

The Proposed Project would install two new flares and two additional electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). As noted earlier, the Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). Thus, the same reasoning as listed in items 1) through 5) for why less than significant geological and soils impacts would occur for the City/County Landfill Project in the 1999 Final SEIR, would also apply to the Proposed Project. Therefore, the previous conclusion of less than significant impact to geology and soils in the 1999 Final SEIR will continue to apply to the Proposed Project.

The geology and soils mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for geology and soils, neither additional mitigation measures nor modifications to the existing geology and soils mitigation measures are required as a result of the Proposed Project.

Hazards and Hazardous Materials

The 1999 Final SEIR analyzed hazards and hazardous materials associated with the City/County Landfill Project (see Section 4.9 Risk of Upset and Section 4.17 Safety in the 1997 Draft SEIR (pp. 4-289 and 4-455, respectively) and the 1999 Final SEIR (pp. 2-83 to 2-93) for more details) and concluded less than significant hazards and hazardous materials impacts after mitigation measures were applied, due to the following:

1) The City/County Landfill Project would not accept hazardous waste, including hazardous, acutely hazardous, radioactive, infectious, or liquid waste. A comprehensive hazardous waste load-checking program, including visual inspections, radiation-detecting devices, and sensors, would be implemented to prevent unauthorized waste disposal. Workers would be trained to handle hazardous materials, with emergency response protocols in place to manage any identified hazardous waste. Furthermore, environmental control systems, such as leachate collection and treatment, would mitigate potential risks associated with hazardous waste. Through these mitigation measures, along with public education programs, the potential impacts from hazardous waste was determined to be reduced to a less-than-significant level.

2) The City/County Landfill Project included several measures to control and mitigate potential litter impacts associated with vector activity. Effective operational practices, such as daily compaction and coverage of waste materials, were implemented to prevent the attraction of scavenging birds and rodents. Additionally, landfill structures and areas were regularly inspected and maintained to prevent potential vector breeding sites. The project

operator also enforced regular monitoring and corrective actions for any detected vector activity, while utilizing methods like bird deterrents and fly control programs. With these mitigation strategies in place, potential litter impacts were determined to be less than significant.

3) The City/County Landfill Project posed workplace safety risks due to heavy equipment movement, exposure to hazardous substances, fire hazards, and maintenance accidents. To mitigate these risks, the project ensured emergency medical services and first-aid supplies were available and regularly inspected. Lockout/tagout procedures were implemented during machinery maintenance to prevent injuries, and employees were provided with personal protective equipment. For site security, perimeter fencing was maintained, and gates were locked when the landfill wasn't operating. Fire prevention and emergency response plans were established, and flaggers were used where traffic could not be controlled. Vehicles were equipped with safety features like backup alarms. Through these measures, the City/County Landfill project effectively minimized employee safety and site security impacts.

4) The City/County Landfill Project presented a risk of explosion primarily from CH4 gas in the landfill. As gases accumulated, pressure could force CH4 along cracks or geological exposures, with the potential to vent into the atmosphere and cause explosions. Regulations mandated continuous monitoring of CH4 levels in onsite structures, with no unsafe concentrations found. A seismic event could malfunction the landfill's gas collection system, but past experience showed that the system shut down successfully during the 1994 Northridge earthquake, reducing explosion risks. The City/County Landfill Project incorporated measures such as gas detectors, safety protocols, and trained personnel to minimize these hazards. In conclusion, no significant impacts were anticipated from the project's development, with comprehensive safety measures in place to further mitigate the risk of explosions.

5) The Van Nuys Airport, located about 7 miles from the project site, was found not to pose a bird hazard for commercial or general aviation aircraft due to the distance exceeding the specified requirements in CCR, Title 14 § 17258.10. A smaller airport, Whiteman Air Park, lies about 5 miles southeast and handles primarily piston-type aircraft, with no recorded bird strikes linked to past landfill operations. Since Whiteman Air Park is near the 5-mile radius, the City/County Landfill Project proponent was required to notify the airport and FAA about the proposed landfill project. Following regulations, the proponent notified both parties but no further mitigation was needed. In conclusion, the City/County Landfill Project was not expected to have any significant adverse impact on airport safety.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). However, as noted earlier in Section 2.6, the Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis. Neither the waste capacity nor the footprint of SCL would be expanded as part of this Proposed Project. Under the Proposed Project, the SCL facility will continue to not accept hazardous waste, including hazardous, acutely hazardous, radioactive, infectious, or liquid waste. Moreover, other operational activities at SCL (such as waste handling, site maintenance, etc.) will not change under the Proposed Project. Thus, the previous conclusion

of less than significant impact to hazards and hazardous materials in the 1999 Final SEIR will continue to apply to the Proposed Project. The hazards and hazardous materials mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for hazards and hazardous materials, neither additional mitigation measures nor modifications to the existing hazards and hazardous materials mitigation measures are required as a result of the Proposed Project.

Hydrology and Water Quality

The 1999 Final SEIR analyzed hydrology and water quality impacts associated with the City/County Landfill Project (see Section 4.3 Surface and Groundwater and Section 4.16 Utilities in the 1997 Draft SEIR (pp. 4-97 and 4-439, respectively) the 1999 Final SEIR (pp. 2-70 to 2-76 and 2-102 to 2-105, respectively) for more details) and concluded less than significant adverse hydrology and water Quality impacts after mitigation measures were applied, due to the following:

1) The implementation of the City/County Landfill Project resulted in changes to the existing drainage patterns, hydrologic conditions, and surface water runoff at the site due to grading and the removal of vegetation. These alterations had the potential to increase surface water runoff, peak discharge, erosion, sediment transport, and decrease water quality from higher sediment loads. However, the project included the development of drainage channels, interceptor ditches, pipelines, and sedimentation basins designed to safely direct runoff and minimize issues like erosion, flooding, and washout. Continuous surface water sampling was conducted, with collected water analyzed by certified laboratories. Efforts were made to ensure representative sampling, including adjustments for low or seasonal flow. The City/County Landfill Project proponent was required to submit an annual report to the LAWRQCB, outlining sampling methodology and any corrective actions. With the implementation of the design, operational, and monitoring measures, no significant adverse impacts on surface water flow or quality were anticipated.

2) The City/County Landfill Project was designed to accommodate a 100-year, 24-hour storm event, with sedimentation basins intended to manage stormwater runoff and sediment loads. These basins would control sedimentation, prevent silting of downstream channels, and protect natural watercourses. Initial grading and construction would phase the development of these basins, with Basin A constructed first to manage runoff from the existing inactive landfill. As landfill operations expanded, Basins B and C would be constructed to handle stormwater and sediment from both the project site and the surrounding Sunshine Canyon watershed. Stormwater would be conveyed through a series of basins and channels, ultimately entering the Bull Creek Flood Control Channel and the Sepulveda Dam, which have the capacity to handle regional stormwater flows. No significant flooding impacts were anticipated, as the sedimentation basins and flood control systems were designed to manage peak discharges without exceeding pre-project flow levels.

3) The development of the City/County Landfill Project had the potential to affect surface water quality due to grading, construction activities, and the introduction of impervious surfaces like roads and maintenance corridors. These changes could increase runoff, alter water discharge patterns, and introduce pollutants such as oils, fuels, and sediments into

the stormwater system. To mitigate these impacts, the project proponent obtained an National Pollutant Discharge Elimination System (NPDES) permit, which regulated construction activities and stormwater management. The City/County Landfill project included measures such as diverting runoff around the landfill, installing interceptor ditches, constructing sedimentation basins, and implementing erosion control and preventive maintenance programs. These actions were designed to minimize contamination of stormwater and ensure compliance with water quality standards, with monitoring and cleanup of sedimentation basins after each significant storm. Through these measures, water quality impacts were anticipated to be reduced to a less-than-significant level.

4) The City/County Landfill Project was located within the San Fernando Hydrologic Subarea, an area where groundwater is used for municipal, industrial, and agricultural purposes. Hydrogeologic studies conducted at the site indicated that the bedrock underlying Sunshine Canyon is predominantly composed of low permeability, fine-grained sedimentary rock, which severely limits groundwater movement. Additional natural barriers, such as fault lines and inactive fractures, further restrict fluid flow. The groundwater beneath the site is largely isolated, and no connection between Sunshine Canyon and the San Fernando Basin was found, according to the Watermaster for the Upper Los Angeles Basin. Existing infrastructure, including a groundwater extraction trench installed at the site, was designed to intercept and manage any groundwater movement, effectively preventing potential contamination from landfill operations. Despite the presence of springs and seeps in the area, all groundwater resources were protected through comprehensive drainage, subdrain systems, and monitoring programs. The project was designed to avoid contact between waste and groundwater by excavating all alluvial materials and implementing protective environmental controls. Given these measures, the landfill's development was expected to have no significant impact on the surrounding groundwater resources.

5) The City/County Landfill Project resulted in an increase in water consumption compared to previous operations, though the demand did not significantly exceed the historical water usage associated with the County Landfill. Water was primarily used for dust control, landscape irrigation, and fire flow capacity, with a small portion allocated for drinking and sanitation purposes. It was estimated that approximately 221.4 acre-feet of water would be consumed annually, equating to about 200,920 gallons per day. The project utilized an existing 265,000-gallon water storage tank, which was relocated from the operational landfill, and an additional tank of the same size was available if needed. No significant impacts on the local water system occurred, as the project's water needs were within the parameters outlined in the Urban Water Management Plan (UWMP). To minimize water usage, the project incorporated water-efficient systems, including a drip irrigation system and the application of mulch for revegetation. Additionally, reclaimed water, when available, was considered for irrigation and dust suppression.

The Proposed Project would install two additional LFG flares and two additional electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The Proposed Project does not involve major excavation or grading activities, and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). In addition, installation and operation of two proposed new flares and two new blowers is not expected to

require water (and generate wastewater) and therefore, the previous conclusion of less than significant impact to hydrology and water quality in the 1999 Final SEIR for the City/County Landfill Project will continue to apply to the Proposed Project. The hydrology and water quality mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for hydrology and water quality, neither additional mitigation measures nor modifications to the existing hydrology and water quality mitigation measures are required as a result of the Proposed Project.

Land Use and Planning

The 1999 Final SEIR analyzed land use and planning impacts associated with the City/County Landfill Project (see Section 4.7 Land Use in the 1997 Draft SEIR (p. 4-227) and the 1999 Final SEIR (p. 2-83) for more details) and concluded less than significant adverse land use and planning impacts due to the following:

1) The City/County Landfill Project site was designated as Open Space in the Granada Hills-Knollwood Community Plan, but the project proponent had requested an amendment to rezone the area to Heavy Industrial to allow for the proposed landfill uses. This amendment was necessary to address inconsistencies between the existing open space designation and the surrounding industrial uses, such as the inactive landfill, the Aliso Canyon Oil Fields, and the Gas Company site, which were all located within nearby open space areas. The City/County Landfill project was consistent with several objectives outlined in the community plan, including the provision of long-term waste disposal capacity to meet the region's needs, promoting economic well-being through increased property values, and ensuring that public services and utilities were adequate. Additionally, the project maintained the natural topography of the site by preserving the perimeter ridgelines and provided a 100-acre open space buffer along the southern perimeter, which was enhanced through revegetation programs. These actions aligned with the community plan's objective to encourage open space for recreational uses and preserve the natural character of the mountainous areas.

2) The City/County Landfill Project sought to develop an additional ±42 acres within the County, extending the landfill's footprint in alignment with the County General Plan and the Santa Clarita Valley Area Plan. The site, previously used as an inactive landfill, was evaluated for zoning and land use compatibility. A General Plan Amendment and Zone Change were requested for the City portion, shifting the zoning from A1-1-0 to M3-1-0, which allowed for landfilling activities. The landfill's proximity to residential zones created some land use conflicts, but with a comprehensive buffer area and extensive revegetation, the project maintained compatibility with nearby properties. The access road and infrastructure plans were designed to avoid traffic disruptions, and strict safety measures, including perimeter fencing and restricted pedestrian access, minimized any environmental or functional compatibility concerns. The County portion was consistent with existing A-2-2 zoning, and the project's adherence to relevant regulations, such as hillside management and airport hazard areas, ensured that development proceeded without significant environmental impacts. Detailed construction plans, including excavation and grading, were submitted for review, with no major mitigation measures required.

The Proposed Project would install two new LFG flares (Flares 12, and 13) and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and new blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). This pad is in the main operational equipment area in the northern portion of SCL.

Therefore, physical modifications that may occur at the landfill in response to the Proposed Project are expected to occur within the existing boundary of the landfill. Under the Proposed Project:

1) Physical division of an established community would not be expected; and

2) There would be no conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect.

Thus, the previous conclusion of less than significant impact to land use and planning in the 1999 Final SEIR for the City/County Landfill Project will continue to apply to the Proposed Project. Since no significant land use and planning impacts were identified, no mitigation measures are required.

Mineral Resources

As discussed in the 1999 Final SEIR (see Section 4.8 Natural Resources in the 1997 Draft SEIR (p. 4-283) and the 1999 Final SEIR (p. 2-83) for more details), the City/County Landfill Project was concluded to have minimal impact on natural resources. The project site contained 11 abandoned oil and gas wells, three of which were located in areas where grading would occur. These wells, abandoned in 1945 and 1966, were at depths of 300 feet and would be addressed in accordance with Department of Conservation guidelines if affected by the development. However, no new oil or gas wells were proposed, nor was there any reuse of existing wells. The City/County Landfill Project did not involve the extraction of gravel or soil, aside from excavation necessary for the placement of refuse and obtaining cover material. Consequently, no significant depletion of natural resources was anticipated, and there were no expected impacts from excavation or landfill operations on these resources.

As noted earlier, the Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). Overall, the Proposed Project would not require the use of a known mineral resource; Thus, implementation of the Proposed Project would also not result in the loss of availability of a known mineral resource of value to the region and the residents of the state such as aggregate, coal, clay, shale, et cetera, or of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan. Therefore, the previous conclusion of less than significant impact to mineral resources in the 1999 Final SEIR for the City/County Landfill Project will continue to apply to the Proposed Project. Since no significant mineral resources impacts were identified, no mitigation measures are required.

Noise

The 1999 Final SEIR analyzed noise impacts associated with the City/County Landfill Project (see Section 4.5 Noise in the 1997 Draft SEIR (p. 4-203) and the 1999 Final SEIR (pp. 2-80 to 2-82) for more details) and concluded less than significant adverse noise impacts because:

1) Construction noise from the City/County Landfill Project resulted in short-term increases in ambient noise levels, primarily due to the use of heavy equipment during excavation activities. The predicted average noise level at 50 feet from the construction site was 89 dBA, with noise levels at the nearest residential units, located 1,700 feet away, reaching approximately 54 dBA. This increase was not considered significant, as it only slightly exceeded the existing ambient noise of 52.4 dBA. Additionally, natural topographic features, such as ridgelines, helped reduce noise propagation by up to 23 dBA. The construction process involved minimal truck traffic, with only about eight trucks per day for moving portable trailers and construction materials, and 70 workers commuting to the site. The overall increase in noise from traffic and construction activity had a negligible impact on the surrounding sensitive receptors, with no significant effect on the existing noise environment. However, mitigation measures, including limiting operational hours, encouraging alternate routes for users, and equipping landfill equipment with noise-reducing features, were implemented to minimize any potential noise impacts on sensitive receptors.

2) Operational noise from the City/County Landfill Project was expected to be similar to the construction noise, as both activities would use the same types of equipment. Noise from routine maintenance at the existing inactive landfill was generally inaudible to nearby residential areas, except when equipment operated near the top deck. The proposed landfill operations would be confined within Sunshine Canyon, shielded by existing ridgelines and the landfill itself, which would block noise from reaching sensitive receptors. Truck traffic, particularly from landfill-bound vehicles, was anticipated to generate some noise, but this was not expected to significantly impact surrounding areas. Although a slight increase in traffic-generated noise was projected along San Fernando Road and Sepulveda Boulevard, the overall impact was not considered significant, as the increase would be masked by existing traffic noise from the I-5 Freeway, railroad, and other local operations. Thus, no significant noise impacts from the project operation were expected.

The Proposed Project would install two new LFG flares (Flares 12, and 13) and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and new blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). This pad is in the main operational equipment area in the northern portion of SCL. Under the Proposed Project, all of the construction activities are expected to occur within the confines of the SCL facility where the existing noise environment at SCL is typically dominated by noise from existing equipment onsite, vehicular traffic on and around the SCL and adjacent SGP facility, and trucks entering and exiting SCL's premises. Operation of the construction equipment would also be expected to comply with all existing noise control laws and ordinances. As noted earlier in Section 2.6, the Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis. Moreover, other operational activities at SCL (such as waste handling, site maintenance, etc.) would also continue without change under the Proposed Project. Therefore, the

only sources of noise from operational activities would be the two proposed flares and the two new blowers. However, noise generated during operation (as well during construction) will likely be indistinguishable from the background noise levels at the property line. Therefore, the previous conclusion of less than significant impact to noise in the 1999 Final SEIR will continue to apply to the Proposed Project. The noise mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for noise, neither additional mitigation measures nor modifications to the existing noise mitigation measures are required as a result of the Proposed Project.

Population and Housing

As discussed in the 1991 NOP/IS and the 1999 Final SEIR for the City/County Landfill Project (see Section 4.10 Population and Section 4.11 Housing in the 1997 Draft SEIR (pp. 4-327 and 4-329, respectively) and the 1999 Final SEIR (p. 2-94) for more details), the project neither required the relocation of any individuals from the project site, nor resulted in the development of any permanent residential units. The 1991 NOP/IS and the 1999 Final SEIR determined that the City/County Landfill Project was not expected to create significant demand for residential housing or impact the availability of rental housing in the Granada Hills-Knollwood Community Planning Area (CPA) or the Santa Clarita Valley area. While the City/County Landfill Project would create both direct and indirect employment opportunities, these could be accommodated by the region's existing labor force. Therefore, the City/County Landfill Project was anticipated to have minimal effects on the housing market in the Los Angeles region. Additionally, the City/County Landfill Project was not expected to affect property values of nearby residential units. Consequently, the City/County Landfill Project was not anticipated to affect the resale value of homes in the vicinity of the SCL. Based upon preceding discussion, less than significant impacts to population and Housing were expected from the City/County Landfill Project.

The Proposed Project would install two new LFG flares (Flares 12, and 13) and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The proposed new flares and new blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). This pad is in the main operational equipment area in the northern portion of SCL.

The previous conclusion of less than significant impact to population and housing in the 1999 Final SEIR for the City/County Landfill Project will continue to apply to the Proposed Project because:

1) The construction activities required by the Proposed Project are not expected to require the relocation of individuals, require new housing or commercial facilities, or change the distribution of the population.

2) No additional employees are required to operate the proposed new flares and blowers, because SCL already has existing flares and blowers in place with personnel trained to operate and maintain the equipment.

3) The Proposed Project would not create any industry that would affect population growth, directly or indirectly induce the construction of housing units, or require the displacement of persons or housing elsewhere in the South Coast AQMD. Construction crew could be accommodated by the region's existing labor force.

Since no significant population and housing impacts were identified, no mitigation measures are required.

Public Services

The 1999 Final SEIR analyzed public services impacts associated with the City/County Landfill Project (see Section 4.14 Public Services in the 1997 Draft SEIR (p. 4-389) and the 1999 Final SEIR (pp. 2-98 to 2-102) for more details) and concluded less than significant adverse public services impacts because:

1) While additional workers onsite could potentially increase the demand for Los Angeles Fire Department (LAFD) services, existing fire protection resources were deemed adequate, though budget constraints raised uncertainties about maintaining service levels. The City/County Landfill Project complied with safety codes and regulations, with specific fire mitigation measures, including water trucks, firebreaks, and fire-extinguishing equipment. Potential fire risks, such as hot loads and brush fires, were addressed, with measures in place to minimize subsurface fires. The City/County Landfill project did not significantly impact medical services, and with the implementation of fire control procedures, no major adverse impacts on fire or emergency services were anticipated.

2) Development of the City/County Landfill Project would require a minimal increase in Police service calls due to the presence of onsite security, existing perimeter fencing, and the remote location of the project site within a canyon area. In addition, the City Police Department was contacted as part of the Notice of Early Consultation (NOEC) and NOP process to assess any potential impact resulting from project implementation. The Police Department responded that it does not foresee an impact on its services and recommended that security measures be incorporated into the project (See Volume II, Appendix A14 of the 1999 Final SEIR for more details). Thus, no significant impacts on Police services were expected due to the City/County Landfill Project.

3) The City/County Landfill Project was not expected to directly impact the Los Angeles Unified School District (LAUSD) by generating new students, as it did not involve the construction of new residential units. However, potential indirect impacts could arise from nonresidential development that may stimulate residential growth and, consequently, generate a small number of students. An estimated eight new students were projected, which was considered less than significant based on available school capacity. The project proponent had already paid the required school impact fees for the County Landfill, addressing any concerns raised by LAUSD. Therefore, no significant impacts on schools were anticipated, and no further mitigation was deemed necessary.

4) The City/County Landfill Project was not expected to significantly impact parks and recreational services. While the surrounding areas, including the Granada Hills-Knollwood Community and unincorporated County, had parkland deficiencies, the project would not contribute to these deficiencies. Landfill workers were not anticipated to use nearby parks during working hours, and any use during days off would not create significant demand. The project included provisions for funding community service projects, such as park development or restoration. Additionally, potential impacts from dust and litter were mitigated through measures to protect nearby parks like O'Melveny Park, ensuring no

significant adverse effects. The project also involved dedicating over 500 acres of land for open space and recreational use, helping to address the County's parkland deficiency.

5) Implementation of the City/County Landfill project was not expected to create additional demand on library services and/or resources contained therein due to the type of use (industrial versus residential) and the distance of the project site to the nearest libraries.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). Under the Proposed Project, less than significant public services impacts related to fire protection would occur because:

1) New safety hazards are not expected to occur the during construction phase of the Proposed Project. The Proposed Project does not involve major excavation or grading activities, and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5).

2) The SCL facility will continue to not accept hazardous waste, including hazardous, acutely hazardous, radioactive, infectious, or liquid waste. Moreover, other operational activities at SCL (such as waste handling, site maintenance, etc.) would also continue without change under the Proposed project.

Moreover, less than significant impacts to public services from schools, Police department and other facilities are expected from the Proposed Project because the Proposed Project is not expected to cause an increase in the local population such that:

1) additional personnel at local schools would not be needed; and

2) no new or physically altered government facilities would be needed in order to maintain acceptable service ratios, response times, or other performance objectives.

Thus, the previous conclusion of less than significant impact to public services in the 1999 Final SEIR will continue to apply to the Proposed Project. The public services mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for public services, neither additional mitigation measures nor modifications to the existing public services mitigation measures are required as a result of the Proposed Project.

Recreation

The 1999 Final SEIR analyzed recreation impacts associated with the City/County Landfill Project (see Section 4.14 Public Services in the 1997 Draft SEIR (p. 4-389) and the 1999 Final SEIR (pp. 2-98 to 2-102) for more details) and concluded less than significant adverse recreation impacts due to the following:

1) The City/County Landfill Project was not expected to significantly impact parks and recreational services. While the surrounding areas, including the Granada Hills-Knollwood Community and unincorporated County, had parkland deficiencies, the project would not

contribute to these deficiencies. Landfill workers were not anticipated to use nearby parks during working hours, and any use during days off would not create significant demand. The project included provisions for funding community service projects, such as park development or restoration. Additionally, potential impacts from dust and litter were mitigated through measures to protect nearby parks like O'Melveny Park, ensuring no significant adverse effects. The project also involved dedicating over 500 acres of land for open space and recreational use, helping to address the County's parkland deficiency.

2) The City/County Landfill Project was not expected to significantly impact hiking and equestrian trails. The development of the City/County Landfill Project would prevent the creation of two potential trails in Sunshine Canyon identified in the Rim of the Valley Trail Corridor Master Plan, as these trails conflicted with existing landfill operations. However, the project would address regional trail needs by dedicating land in East Canyon and Upper Bee Canyon for hiking and equestrian uses, which would link City, County, and State-proposed trails, thereby eliminating the need for trails in Sunshine Canyon. While some visual impact on hikers and equestrians using O'Melveny Park's upper trail was anticipated during the final stages of landfill development, these impacts would be brief and mitigated through measures like revegetation.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). Construction workers needed to perform any construction activities associated with the Proposed Project, could be drawn from the existing labor pool in the local Southern California area. Further, no additional employees are required to operate and maintain the proposed new flares and proposed new blowers, because the SCL facility already has existing flares and blowers in place with existing on-site personnel trained to operate and maintain the equipment. The Proposed Project would not affect or increase the demand for or use of existing neighborhood and regional parks or other recreational facilities. In addition, the Proposed Project would not require the construction of new or the expansion of existing recreational facilities that might, in turn, cause adverse physical effects on the environment because the Proposed Project will not directly or indirectly substantively increase or redistribute population. Therefore, the previous conclusion of less than significant impact to recreation in the 1999 Final SEIR for City/County Landfill Project will continue to apply to the Proposed Project. The recreation mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for recreation, neither additional mitigation measures nor modifications to the existing recreation mitigation measures are required as a result of the Proposed Project.

Solid and Hazardous Waste

As discussed in the 1991 NOP/IS and the 1999 Final SEIR for the City/County Landfill Project (see Section 4.16 Utilities in the 1997 Draft SEIR (p. 4-439) and the 1999 Final SEIR (pp. 2-102 to 2-105) for more details), implementation of the City/County Landfill Project was not expected to generate significant amounts of solid and hazardous waste. During construction, debris such as vegetation, soil, and construction materials would be generated, but most of it would be recycled or disposed of at the SCL facility. Construction and demolition wastes, including concrete, asphalt, and wood, would be reused or recycled whenever possible. Employees working at the SCL facility would produce approximately 618 pounds of solid waste per day, with recycling bins provided for

administrative buildings. Thus, less than significant impacts on solid waste disposal were anticipated from the City/County Landfill Project.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). Thus, no significant volumes of construction waste are expected to be generated by the Proposed Project.

As noted earlier in Section 2.6, the Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis. Under the Proposed Project, the SCL facility will continue to not accept hazardous waste, including hazardous, acutely hazardous, radioactive, infectious, or liquid waste. Moreover, other operational activities at SCL (such as waste handling, site maintenance, etc.) would also continue without change under the Proposed Project.

Based upon preceding discussion, the waste disposal needs during the construction and operation of the Proposed Project are less than significant and are expected to be served by the existing SCL landfill which has sufficient permitted capacity. In addition, implementation of the Proposed Project is not expected to interfere with the SCL's ability to comply with applicable local, state, or federal waste disposal regulations in a manner that would cause a significant adverse solid and hazardous waste impact. Therefore, the previous conclusion of less than significant impact to solid and hazardous waste in the 1991 NOP/IS and the 1999 Final SEIR will continue to apply to the Proposed Project.

Since no significant solid and hazardous waste impacts were identified, no mitigation measures are required.

Transportation

The 1999 Final SEIR analyzed transportation impacts associated with the City/County Landfill Project (see Section 4.12 Right-of-way and Access and Section 4.13 Transportation and Recirculation in the 1997 Draft SEIR (pp. 4-331 and 4-333) and the 1999 Final SEIR (pp. 2-94 to 2-98) for more details) and concluded less than significant adverse transportation impacts after mitigation due to the following:

1) The City/County Landfill Project was forecast to generate significant traffic, particularly from truck trips, including transfer trucks, curbside collection vehicles, and self-haul trucks, based on a maximum intake rate of 5,500 tons per day. The project was expected to generate 1,180 vehicle trip ends (TEs) daily, with a peak of 129 truck trips during the a.m. and 150 during the p.m. hours. Employee traffic was projected to be minimal, with about 70 trips per day. To assess the traffic impacts, the analysis used Passenger Car Equivalents (PCEs), indicating a higher impact from heavy trucks compared to passenger vehicles. Mitigation measures were proposed to address traffic congestion at key intersections, including roadway widening, restriping, and additional lanes to improve capacity. After implementation of these measures, no significant traffic impacts were anticipated, and the project was expected to maintain acceptable traffic flow during both peak hours.

2) The City/County Landfill Project was not required to undergo a freeway segment analysis as its a.m. and p.m. peak-hour project-generated trips were below the threshold of 150 trips, which was necessary for such an analysis under the Los Angeles County Congestion Management Program at that time.

3) During construction, it was anticipated that the onsite personnel would not exceed 70 individuals, including management support, operating engineers, and subcontractors. This workforce would generate approximately 140 daily vehicle trips (70 inbound and 70 outbound). Construction-related vehicles, including heavy equipment, would be used as needed and stored onsite when not in use. Additionally, up to three daily construction material deliveries, with a maximum of five vehicles per day, would result in up to 16 trips. Given the project's proximity to major freeways, most construction-related traffic was expected to use the I-5, I-210, and SR-14 Freeways for access, resulting in minimal, short-term traffic impacts on adjacent roads. Thus, no significant impacts were expected as a result of construction-related traffic from implementation of the proposed City/County Landfill Project.

4) Field observations conducted by the traffic consultant for the Traffic Impact Analysis (TIA) of the City/County Landfill Project indicated that the pavement conditions at key intersections were in good shape, with no signs of deterioration, such as cracking, potholes, or roadway sagging. These findings suggested that no significant vehicle safety hazards were present. Although less than significant impacts were anticipated, the project proponent proposed a mitigation measure to address potential safety concerns from truck traffic at the landfill entrance. Until a traffic signal was installed at the entrance, warning signs would be placed along San Fernando Road (with LADOT approval) to slow traffic and reduce potential safety risks.

5) As part of the City/County Landfill Project, the existing access roadway was initially used until it was realigned to accommodate the development of landfill areas within the project site. During the project's progression, the access road was gradually shortened and realigned toward the mouth of Sunshine Canyon. The realignment also involved relocating the landfill entrance approximately 50 feet south of its original location. The final realignment of the access roadway, which was designed to parallel the I-5 Freeway, was expected to occur around the projected 26-year operational site life. Despite these changes, no significant impacts were anticipated from the realignment, and therefore, no mitigation measures were deemed necessary.

6) The proposed City/County Landfill Project was not anticipated to impact or affect any localized bus routes during either the construction or operation phases of the landfill facility. At the time, no bus service routes were located on the roadways adjacent to the project site.

7) The proposed City/County Landfill Project was not anticipated to impact or affect rail or light rail services due to the distance between the project site and the nearby rail lines and stations. The development and operation of the project were not expected to disrupt service or impact the existing or proposed rail lines in the immediate area. No significant impacts were expected, and therefore, no mitigation measures were deemed necessary.

8) The development and operation of the proposed City/County Landfill Project were expected to result in increased truck traffic on San Fernando Road, which could potentially raise accident risks between trucks and cyclists, particularly during construction and long-term operational activities. However, no significant accidents had occurred between landfill vehicles and cyclists during the operations of the City and County Landfills. Although the risk of conflict between trucks and bicycles was considered a potential localized impact, the project proponent would collaborate with the City to assess the need for a Class II bicycle lane and appropriate signage in the future. A mitigation measure was proposed, which involved posting signs near the landfill entrance to caution the public about heavy truck traffic in the area. With this mitigation in place, the potential impacts were expected to be less than significant.

The Proposed Project would install two new LFG flares and two new electric blowers and revise the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). The Proposed Project does not involve major excavation or grading activities and the proposed new flares and blowers would be installed on the same approximate 1-acre cleared and graded pad as existing Flares 9, 10, and 11 (see Figures 2-2 and 2-5). As noted earlier in Section 2.6, the Proposed Project would not include expanding the landfill capacity nor increasing the amount of waste that can be accepted at SCL on a daily, monthly, or annual basis. Under the Proposed Project, the SCL facility will continue to not accept hazardous waste, including hazardous, acutely hazardous, radioactive, infectious, or liquid waste. Moreover, other operational activities at SCL (such as waste handling, site maintenance, etc.) will not change under the Proposed Project.

On a peak day, construction activities associated with the Proposed Project are estimated to result in 24 heavy duty delivery truck one-way trips and 24 passenger auto one-way trips, which do not exceed the significance criteria of 350 round trips per day for transportation and traffic. The California Department of Transportation (Caltrans) recommends implementation of a traffic control plan to minimize disruptions to traffic and ensure adequate emergency access in the event of traffic lane closure during construction (i.e., incorporating channelizing devices preceded by approved warning signs). Moreover, a Caltrans transportation permit is required in the event that oversized transport vehicles traveling on state highways are needed to deliver construction equipment and materials. Regardless of whether a Caltrans transportation permit is required, Caltrans recommends that large size truck trips be limited to off-peak commute periods and that all construction truck loads be securely covered with a tarpaulin. Further, no additional employees are required to operate the proposed new flares and blowers, because SCL already has existing flares and blowers in place with personnel trained to operate and maintain the equipment. Thus, implementing the Proposed Project is not expected to result in incremental increases in the number of trips that may occur during operation.

Under the Proposed Project, no existing roadways would need to be modified and no new roadways would need to be constructed. Thus, there would be no change to current public roadway designs including a geometric design feature that could increase traffic hazards. Further, the Proposed Project is not expected to substantially increase traffic hazards or create incompatible uses at or adjacent to the facilities. Construction-related activities are expected to be temporary and occur over a relatively short-term (i.e., four months). Since construction activities and associated passenger vehicle trips and delivery truck trips would cease after construction is completed, the Proposed Project is not expected to alter the existing long-term circulation patterns within the areas

of SCL facility during construction. Thus, no long-term impacts on the traffic circulation system are expected to occur. Further, existing emergency access at SCL would also not be affected because the Proposed Project does not contain any requirements specific to emergency access points and the landfill would be expected to continue to maintain its existing emergency access. As a result, the Proposed Project is not expected to result in inadequate emergency access. Lastly, because implementation of the Proposed Project would not alter any transportation plans, the Proposed project would not conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. Therefore, the previous conclusion of less than significant impact to transportation in the 1999 Final SEIR for the City/County Landfill Project will continue to apply to the Proposed Project. The transportation mitigation measures adopted and currently being implemented at SCL in accordance with the 1999 Final SEIR will continue to apply to SCL. Further, because the Proposed Project does not worsen the previously identified significant impacts or contribute new significant impact for transportation, neither additional mitigation measures nor modifications to the existing transportation mitigation measures are required as a result of the Proposed Project.

Wildfire

The 1999 Final SEIR analyzed fire impacts associated with the City/County Landfill Project and described that the SCL site is located within a high fire hazard severity zone (see Section 4.14.1 Fire and Emergency Medical Services in the 1997 Draft SEIR (p. 4-389) and the 1999 Final SEIR (pp. 2-98 to 2-101) for more details). For this reason, SCL has a fire response plan that has been prepared for all landfill personnel and this plan details procedures to follow in the event of a fire or explosion.

According to the 1999 Final SEIR, the fire response plan for the City/County Landfill Project outlined comprehensive emergency protocols to ensure the safety of personnel and an effective response to fires and medical emergencies. The plan was supported by the City of Los Angeles Fire Department (LAFD) and the Los Angeles County Fire Department (LACFD), each responsible for providing fire protection and emergency services within their respective jurisdictions. The LAFD operated 103 fire stations throughout the City, offering a range of services including fire suppression and emergency medical response, utilizing engine companies, task forces, and specialized apparatus such as aerial trucks and hazardous materials squads. The fire response plan specified procedures for landfill personnel, including training on the use of fire extinguishers, emergency contact protocols, and the designation of safe havens. In the event of a first-alarm fire, the response involved multiple engine companies, a ladder truck, a paramedic rescue squad, and other necessary equipment, with specialized responses planned for vehicle fires or injuries. The nearest hospital, Holy Cross Medical Center, was located about 5.5 miles from the site, and air ambulance services stationed at Van Nuys Airport could provide rapid transport to the hospital in critical situations. Additionally, all City and County firefighters were trained in CPR and first aid, ensuring a well-coordinated response across both jurisdictions. The plan was designed to ensure a swift and efficient emergency response, with provisions for fire suppression, medical care, and personnel safety.

Also, as discussed in the 1999 Final SEIR for the City/County Landfill Project (see Section 4.14.1 Fire and Emergency Medical Services in the 1997 draft SEIR (p. 4-389) and the 1999 Final SEIR (pp. 2-98 to 2-101) for more details), additional workers onsite could potentially increase the demand for LAFD services, but existing fire protection resources were deemed adequate, though budget constraints raised uncertainties about maintaining service levels. The City/County Landfill

Project complied with safety codes and regulations, with specific fire mitigation measures, including water trucks, firebreaks, and fire-extinguishing equipment. Potential fire risks, such as hot loads and brush fires, were addressed, with measures in place to minimize subsurface fires. The City/County Landfill project did not significantly impact medical services, and with the implementation of fire control procedures, no major adverse impacts on fire or emergency services were anticipated.

Currently, SCL has multiple strategies and resources to address both minor and large-scale fires, regardless of whether they originate on-site or off-site. These fire response measures include trained landfill personnel, formal emergency response plans and procedures, as well as specialized infrastructure and equipment available on-site. Landfill personnel are trained in fire response protocols and serve as first responders for any incidents occurring within the facility. This includes fires that may originate nearby and pose a threat to the site. The following fire-fighting equipment is available on-site for use by landfill personnel:

- Water trucks with hose reels
- Earth moving equipment
- Fire extinguishers
- Fire hydrants

Fire mitigation is also addressed through elements outlined in the Preliminary Closure and Post-Closure Maintenance Plan (PCPCMP)[3]. The plan requires a weed control program, which includes semiannual monitoring and vegetation removal to reduce fire risk. In the event of a large-scale fire, the LACFD, located approximately five and a half miles away from the site, would provide secondary support. Additionally, the SCL is equipped with three on-site helicopter pads which have access to firefighting water and can be utilized for aerial firefighting, if the LACFD determines that air support is necessary to assist with fire suppression from the air.

While the Proposed Project would install and operate additional flares within the 451-acre SCL boundaries, this new equipment is essentially identical to the existing flare system and will be subject to the same fire response plan and fire mitigation plan (outlined above) and once constructed, no additional workers will be needed.
Because the Proposed Project would not cause SCL to expand beyond its current boundaries into the wildfire areas surrounding SCL and would not require any changes to the fire response plan and fire mitigation plan, the Proposed Project is not expected to exacerbate wildfire risks or expose people or structures to significant risks. Thus, the wildfire impacts from the Proposed Project are expected to remain at less than significant levels. Since no significant wildfire impacts were identified, no mitigation measures are required.

[3] Joint Technical Document, Volume I: Sunshine Canyon Landfill, Los Angeles, California, prepared by Tetra Tech for Browning Ferris Industries of California, Inc., revised September 2023, originally published November 2007, p. 100. Available at: https://documents.geotracker.waterboards.ca.gov/esi/uploads/geo_report/4639189541/L10006014618.PDF

4.6 SIGNIFICANT ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED

CEQA Guidelines Section 15126(b) requires an environmental analysis to consider "any significant environmental effects which cannot be avoided if the proposed project is implemented." This SEIR identified that the exceedance of the air quality significance thresholds for operational emissions of NOx, PM2.5, SOx, and CO, as well as for GHG emissions would cause significant and unavoidable adverse environmental impacts for the topic of air quality and GHGs.

Table 4-21 summarizes the significant and unavoidable adverse air quality impacts identified in the 1999 Final SEIR and identifies which would apply to the Proposed Project.

Table 4-21
Applicability of Significant Adverse Environmental Impacts
Found in the 1999 Final SEIR to the Proposed Project

CONCLUSION OF SIGNIFICANT IMPACTS IN THE 1999 FINAL SEIR	APPLICABLE TO THE PROPOSED PROJECT?	EXPLANATION
Air Quality: Daily emissions of NOx and PM10 from project construction.	Yes, but less than significant.	This environmental topic area is applicable to the Proposed Project. The impacts for this environmental topic area were analyzed in this SEIR (see Impact AQ-2), and the analysis concluded that Proposed Project construction emissions would be less than significant for all criteria pollutants.
Air Quality: Daily emissions of NOx, VOC, PM10, SOx, and CO from project operation.	Yes, but less than significant for VOC and PM10.	This environmental topic area is applicable to the Proposed Project. The impacts for this environmental topic area were analyzed in this SEIR (see Impact AQ-3), and the analysis concluded that Proposed Project operational emissions would be significant for NOx, SOx, and CO but less than significant for VOC and PM10. The analysis also concluded that the operational emissions would be significant for PM2.5, which was not analyzed in the 1999 Final SEIR.

The Proposed Project is expected to have:

1) Significant environmental effects that were not discussed in the 1999 Final SEIR [CEQA Guidelines Section 15162(a)(3)(A)]. These effects include PM2.5 emissions associated with Proposed Project operation (Impact AQ-3) and GHG emissions associated with Proposed Project construction and operation (Impact GHG-1).

2) Significant effects that were previously examined that would be substantially more severe than what was previously discussed in the 1999 Final SEIR [CEQA Guidelines Section

15162(a)(3)(B)]. These effects include operational emissions of NOx, SOx, and CO associated with Proposed Project (Impact AQ-3).

This SEIR has determined that air quality and GHGs are the only environmental topic areas that would be adversely affected by the Proposed Project.

4.7 SIGNIFICANT IRREVERSIBLE ENVIRONMENTAL CHANGES

CEQA Guidelines Section 15126(c) requires an environmental analysis to consider "any significant irreversible environmental changes which would be involved if the proposed action should be implemented." This SEIR identified the topic areas of air quality and GHGs as the only environmental areas with potentially significant adverse impacts if the Proposed Project is implemented. Significant adverse impacts to air quality and GHGs from the operation of flares cannot be mitigated to less than significant levels; thus, they may be considered irreversible because facility operators that install new flares to combust landfill gas are likely to operate these systems for the lifetime of the equipment. The incremental GHG emissions associated with the Proposed Project were quantified in Table 4-19 in Impact GHG-1, and although this SEIR does not take credit for it, a broader consideration of the flares reveals their overall GHG emissions benefit as demonstrated in Table 4-20. Because CH4 has 25 times the global warming potential (GWP) of CO2, the CO2 created during LFG combustion is much less potent than the CH4 that otherwise would have been emitted in fugitive LFG releases.

4.8 POTENTIAL GROWTH-INDUCING IMPACTS

CEQA Guidelines Section 15126(d) requires an environmental analysis to consider the "growth-inducing impact of the proposed action." Development of the Proposed Project would not directly result in economic, population, or housing growth in the immediate project area because it would not change the day-to-day operations or waste capacity of the landfill. The Proposed Project would not include the construction of any new public roads, sewers, or water lines that would allow for growth to occur within a relatively close distance to the site. The Proposed Project has the potential to indirectly produce beneficial impacts by creating short-term construction jobs. No additional staff would be required for Proposed Project operation.

4.9 RELATIONSHIP BETWEEN SHORT-TERM AND LONG-TERM ENVIRONMENTAL GOALS

CEQA documents are required to explain and make findings about the relationship between short-term uses and long-term productivity [CEQA Guidelines Section 15065(a)(2)]. An important consideration when analyzing the effects of a project is whether it would result in short-term environmental benefits to the detriment of achieving long-term goals or maximizing productivity of these resources.

Implementing the Proposed Project is not expected to achieve short-term goals at the expense of long-term environmental productivity or goal achievement. The short-term environmental goals of the Proposed Project include improved odor control and gaining the capability to combust all collected LFG for situations when the SGP landfill gas-to-energy facility is temporarily offline. Long-term environmental goals relating to landfills include: (1) employing organic waste diversion strategies which would reduce the amount of LFG generation; (2) increasing LFG collection,

which would reduce fugitive emissions of odorous substances, GHGs, and TACs; and (3) using collected LFG as a renewable fuel, which would displace the use of fossil fuels. Regarding the first long-term environmental goal, the Proposed Project would have no effect on incoming waste and therefore would not interfere with this goal. The Proposed Project would support the second long-term goal by improving the GCCS at SCL. Finally, the Proposed Project would not interfere with the third long-term goal because the SGP facility would continue to have first rights to the LFG collected at SCL.

4.10 CUMULATIVE IMPACTS

The CEQA Guidelines require a discussion of the cumulative impacts of a project when the project's incremental effect could be "cumulatively considerable," meaning that the project's incremental effect could be significant when viewed in connection with the effects of past, current, and probable future projects. CEQA Guidelines Section 15130 paragraphs (a) and (b) state:

"(a) An EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable, as defined in section 15065(c). Where a lead agency is examining a project with an incremental effect that is not "cumulatively considerable," a lead agency need not consider that effect significant, but shall briefly describe its basis for concluding that the incremental effect is not cumulatively considerable.

1. As defined in Section 15355, a cumulative impact is an impact that is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. An EIR should not discuss impacts which do not result in part from the project evaluated in the EIR.
2. When the combined cumulative impact associated with the project's incremental effect and the effects of other projects is not significant, the EIR shall briefly indicate why the cumulative impact is not significant and is not discussed in further detail in the EIR. A lead agency shall identify facts and analysis supporting the lead agency's conclusion that the cumulative impact is less than significant.
3. An EIR may determine that a project's contribution to a significant cumulative impact will be rendered less than cumulatively considerable and thus is not significant. A project's contribution is less than cumulatively considerable if the project is required to implement or fund its fair share of a mitigation measure or measures designed to alleviate the cumulative impact. The lead agency shall identify facts and analysis supporting its conclusion that the contribution will be rendered less than cumulatively considerable.

(b) The discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not be as detailed as it is for the effects attributable to the project alone. The discussion should be guided by standards of practicality and reasonableness, and should focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects which do not contribute to the cumulative impact. The following elements are necessary for an adequate discussion of significant cumulative impacts:

1. Either:
    A. A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency, or
    B. A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program. Any such document shall be referenced and made available to the public at a location specified by the lead agency."

The analysis of cumulative impacts in this chapter lists the potential, cumulatively-related projects as described in approach (b)(1)(A) above, and includes an analysis of impacts from implementing the SCL Flare Capacity Expansion Project concurrent with past, present, and probable future projects producing related impacts. The analysis focuses on whether impacts from the Proposed Project would be cumulatively considerable and, therefore, contribute to significant cumulative impacts.

4.11 POTENTIALLY RELATED PROJECTS

Table 4-22 lists the related projects that may contribute to cumulative impacts together with the Proposed Project. The general locations of the related projects are shown in Figure 4-3. This analysis considered related projects within a two-mile distance from the SCL property line. Depending on the type of project being evaluated, the South Coast AQMD typically uses a one-mile distance, but due to the isolated nature of the Proposed Project, the distance was extended to two miles. Two related projects – the Trails at Lyons Canyon Project (#5) and the Wiley Canyon Project (#7) – are slightly outside of the two-mile distance but were included because they would be relatively large developments in the vicinity of the Proposed Project.

Related projects were identified through the following sources: State Clearinghouse (SCH) CEQAnet database (California Office of Land Use and Climate Innovation, 2024), Los Angeles County Planning (Los Angeles County, 2024b), Los Angeles City Planning (City of Los Angeles, 2024), the City of Santa Clarita Planning Division (City of Santa Clarita, 2024), California Department of Transportation District 7 (Caltrans, 2024), Los Angeles Department of Water and Power (LADWP, 2024), Metropolitan Water District of Southern California (MWD, 2024), and the California Public Utilities Commission (CPUC, 2024).

Table 4-22
List of Related Projects

No. in Figure 4-3	Project Title	Project Description and Location	Project Status (Time Frame)
1	I-5 HOV/Truck Lanes SR-14 to Parker Road Project (SCH # 2007051028)	The project will make operational and safety enhancements along the Interstate 5 (I-5) freeway from the State Route 14 (SR-14) interchange in Santa Clarita to just south of Parker Rd in Castaic. The project includes the addition of one High Occupancy Vehicle (HOV)/carpool lane in each direction along I-5; extension of the northbound truck lane from SR-14 to Calgrove Bl; addition of southbound truck lane from Calgrove Bl to SR-14; addition of soundwalls at four locations; replacement of Weldon Canyon Bridge; Intelligent Transportation System improvements between the I-405 and I-210 interchanges; and addition of auxiliary lanes (additional outside lanes extending between an on-ramp and a subsequent off-ramp).	The project was approved in 2010. Project construction started in 2021 and is anticipated to be completed in 2026.
2	15827 Roxford Street Project (SCH # 2022080340)	The project involves the demolition of an existing 182,230 square foot warehouse building and construction, use, and maintenance of two new warehouse buildings with a total of approximately 612,227 square feet including 15,742 square feet of ancillary office space and 17,080 square feet of mezzanine. The project will provide surface parking including 341 vehicle parking spaces, 95 dock doors, and 26 trailer stalls. The project site is in Sylmar, north of Roxford Street, west of Telfair Avenue, and east of the I-5 freeway.	The project was approved in 2022. The construction schedule has not been determined.

Table 4-22 (continued)
List of Related Projects

No. in Figure 4-3	Project Title	Project Description and Location	Project Status (Time Frame)
3	Operation NEXT Water Supply Program and Hyperion 2035 Program (SCH # 2021030340)	The Proposed Program would implement a new advance treated recycled water infrastructure system that would maximize recycled water production at the Hyperion Water Reclamation Plant and construct new treatment, conveyance, storage, and distribution infrastructure to augment local water supplies by up to approximately 217 million gallons per day. The Proposed Program would include two components in proximity to SCL. One component would involve the construction of a 6.5-mile long, 78-inch diameter pipeline and a new pump station to convey water from the San Fernando Spreading Grounds in the central and eastern San Fernando Valley to the Los Angeles Aqueduct Filtration Plant (LAAFP) at 13101 Sepulveda Blvd in Granada Hills. The other component may involve construction of a new pipeline and pump station to convey water from the LAAFP to the Jensen Water Filtration Plant at 14331 San Fernando Road in Sylmar.	A draft Program EIR is currently being prepared. The program has not been approved. The proposed construction schedule has not yet been developed.
4	Van Norman Complex Routine Operation and Maintenance (SCH # 2019119023)	The project includes annual or as-needed vegetation management and sediment removal activities at various areas within the Van Norman Complex. The Van Norman Complex is a 1,340-acre industrial complex located in the Granada Hills area, adjacent to Sepulveda Blvd and I-5 to the east, Balboa Blvd to the northwest, Woodley Ave to the west, and Rinaldi St and I-405 to the south. that consists of water storage reservoirs, detention basins, conveyance channels, and treatment facilities that cumulatively function to receive, store, treat, and distribute water to the City of Los Angeles. Such activities are necessary to protect critical water and power facilities.	The project was approved in 2021. Project operation is ongoing.

Table 4-22 (concluded)
List of Related Projects

No. in Figure 4-3	Project Title	Project Description and Location	Project Status (Time Frame)
5	Trails at Lyons Canyon Project (SCH # 2022060346)	The project would include the development of 504 attached and detached residential units, including affordable senior housing, a recreation center, and a designated lot for a future fire station. The 233-acre project site is located south of Sagecrest Circle, southwest of the City of Santa Clarita. The project would include onsite utility and roadway infrastructure, including a water tank, with three Los Angeles County Flood Control District lots, and approximately 164 acres of natural open space with multi-use trails. The project would require approximately 2.8 million cubic yards of earthwork that would be balanced onsite.	A draft EIR is currently being prepared. The project has not been approved. The proposed construction schedule has not yet been developed.
6	Gate-King Industrial Park (SCH # 2001021121)	The project involves the development of a 4.2 million square-foot industrial park. The project involves about 5.7 million cubic yards of earth movement (cut and fill). An estimated 207.6 acres of the site would be dedicated to the City of Santa Clarita as permanent open space. The project site is in Santa Clarita, south of Newhall Ave, west of Sierra Hwy, and east of Pine St.	The project was approved in 2003, with two EIR addenda in 2018 that increased the permissible building height to 51 feet for several buildings. Construction is ongoing.
7	Wiley Canyon Project (SCH # 2022030626)	The project would develop a 277,108-square-foot senior living facility, approximately 8,914 square feet of commercial space, 379 multifamily residential apartments, and a publicly accessible outdoor recreational field space on a vacant 31.8-acre site. A new pedestrian trails/maintenance road would be constructed throughout the project site and along Wiley Canyon Road. Other off-site improvements would include a new water line proposed within Old Wiley Canyon Road, a new storage tank, and a new pump within an existing pump station. The project site is in Santa Clarita, north of Calgrove Blvd, between I-5 and Wiley Canyon Road.	A draft EIR was completed in March 2024. A final EIR is currently being prepared. The project has not been approved. Construction is tentatively scheduled to start in 2025 and end in 2027.

Note: The Sunshine Gas Producers Renewable Energy Project (SCH #1989071210), which was constructed in 2014 and currently operates on SCL property, is not considered a related project. This SEIR evaluated the Proposed Project at maximum capacity, at which it would be capable of flaring all LFG generated at SCL. Therefore, at maximum capacity, the Proposed Project is assumed to combust all LFG and the Sunshine Gas Producers facility is assumed to not combust any LFG.

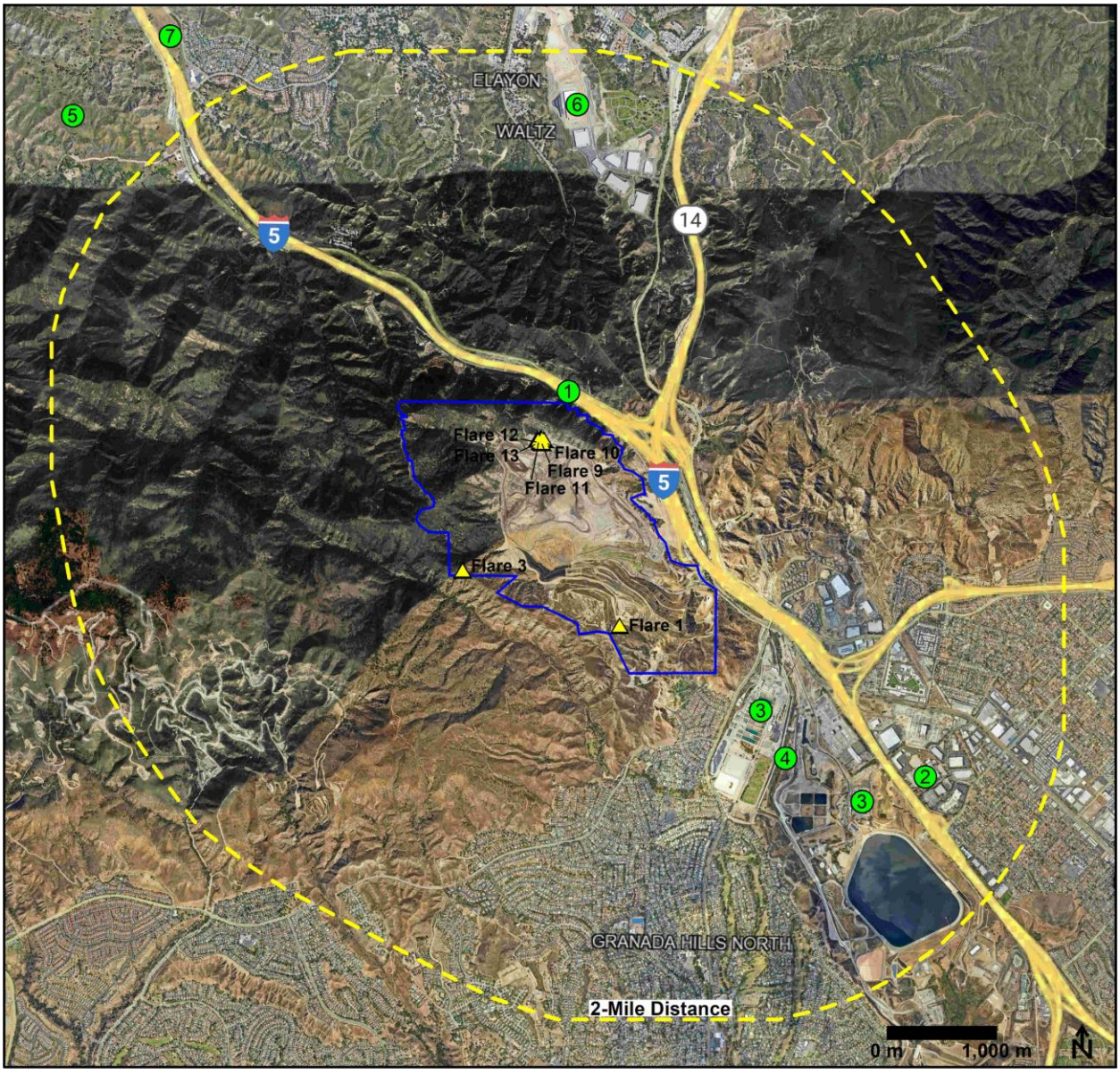


Figure 4-3
Location Map of Related Projects

4.12 CUMULATIVE AIR QUALITY AND GHG IMPACTS

4.12.1 Scope of Analysis

The region of analysis for cumulative effects on air quality is the South Coast Air Basin (Basin), but the analysis is focused on the communities adjacent to the Proposed Project (i.e., Sylmar, Granada Hills, Santa Clarita, and unincorporated areas) because they are the locations of maximum contribution from the Proposed Project.

The South Coast AQMD's primary mission is inherently focused on cumulative impacts. The agency is charged with regulating air emissions so that the ambient air quality of the region achieves the federal and state ambient air quality standards. The South Coast AQMD adopts plans and rules to reduce air emissions to achieve the ambient air quality standards, and its selection of

air quality significance thresholds was based on the plans and regulatory thresholds required to achieve its overall mission.

The South Coast AQMD's guidance on addressing cumulative impacts for air quality is as follows: "As Lead Agency, the South Coast AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR." "Projects that exceed the project-specific significance thresholds are considered by the South Coast AQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant." (South Coast AQMD, 2003).

This approach was upheld by the Court in Citizens for Responsible Equitable Environmental Development v. City of Chula Vista (2011) 197 Cal. App. 4th 327, 334. The Court determined that where it can be found that a project did not exceed the South Coast AQMD's established air quality significance thresholds, the City of Chula Vista properly concluded that the project would not cause a significant environmental effect, nor result in a cumulatively considerable increase in these pollutants. The court found this determination to be consistent with CEQA Guidelines Section 15064.7, stating, "The lead agency may rely on a threshold of significance standard to determine whether a project will cause a significant environmental effect." The court found that, "Although the project will contribute additional air pollutants to an existing non-attainment area, these increases are below the significance criteria…" "Thus, we conclude that no fair argument exists that the Project will cause a significant unavoidable cumulative contribution to an air quality impact." As in Chula Vista, here the South Coast AQMD has demonstrated, when using accurate and appropriate data and assumptions, that the project will not exceed the established South Coast AQMD significance thresholds. See also, Rialto Citizens for Responsible Growth v. City of Rialto (2012) 208 Cal. App. 4th 899. Here again the court upheld the South Coast AQMD's approach to utilizing the established air quality significance thresholds to determine whether the impacts of a project would be cumulatively considerable.

Thus, the same air quality and GHG thresholds in Table 4-3, Table 4-4, and Table 4-5 are used in evaluating both the significance of project-level impacts and whether a project's contribution to a cumulative impact would be cumulatively considerable.

4.12.2 Construction

Contributions of Cumulative Projects

According to Table 4-22, all but one related project could have construction activities that overlap with the Proposed Project's construction. The exception is the Van Norman Complex project (#4), which would have no construction.

Table 4-23 shows the cumulative maximum daily criteria pollutant construction emissions. The table includes contributions from the related projects for which emissions were quantified in their respective CEQA documents. It also includes the contribution from the Proposed Project (see Table 4-6). As shown in the table, the construction emissions from the cumulative projects would exceed the South Coast AQMD mass daily thresholds for NOx, VOC, and PM10 and result in significant cumulative air quality impacts during construction.

Table 4-23
Cumulative Construction Emissions from the Proposed Project and All Related Projects

No. in Figure 4-3	Abbreviated Project Title [1]	NOx (lb/day)	VOC (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
2	Roxford Street	18	49	3	1	0	65
6	Gate-King	237	936	234	NQ	NQ	NQ
7	Wiley Canyon	21	39	4	2	1	126
--	Proposed Project	27	1	35	5	0	19
--	**Total**	**303**	**1,024**	**276**	**8**	**1**	**210**
--	Significance Thresholds	100	75	150	55	150	550
--	**Exceeds Threshold?**	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**

Note: NQ = Not quantified in the project's CEQA document.
[1] The I-5 HOV/Truck Lanes project (#1), Operation NEXT project (#3) and Trails at Lyons Canyon project (#5) are not shown because emissions were not quantified. The Van Norman Complex project (#4) is not shown because there would be no construction.

Contributions of the Proposed Project
The Proposed Project would contribute to potentially significant adverse cumulative construction air quality impacts if project-specific construction emissions are considered to be cumulatively considerable as defined by CEQA Guidelines Section 15064(h)(1). South Coast AQMD's approach is that impacts are cumulatively considerable if they exceed the project-specific air quality significance thresholds. Impact AQ-2 determined that the Proposed Project's construction emissions would be less than the mass daily thresholds for all criteria pollutants (see Table 4-6 or Table 4-23). Therefore, construction of the Proposed Project would not result in a cumulatively considerable contribution to a significant cumulative regional impact.

Additionally, Impact AQ-4 determined that the Proposed Project's on-site construction emissions would be less than the LSTs for each of the applicable criteria pollutants (see Table 4-9). Therefore, construction of the Proposed Project would not result in a cumulatively considerable contribution to a cumulative localized impact.

4.12.3 Operation

Contributions of Cumulative Projects
All related projects could have operational activities that overlap with Proposed Project operation. Table 4-24 shows the cumulative maximum daily criteria pollutant operational emissions. The table includes contributions from the related projects for which emissions were quantified in their respective CEQA documents. It also includes the contribution from the Proposed Project (see Table 4-8). As shown in the table, the operational emissions from the cumulative projects would exceed the South Coast AQMD mass daily thresholds for NOx, VOC, PM10, PM2.5, SOx, and CO and result in significant cumulative air quality impacts during operation.

Table 4-24
Cumulative Operational Emissions from the Proposed Project and all Related Projects

No. in Figure 4-3	Abbreviated Project Title [1]	NOx (lb/day)	VOC (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
1	I-5 HOV/Truck Lanes	NQ	NQ	-24	-23	NQ	NQ
2	Roxford Street	6	18	13	4	0	55
4	Van Norman Complex	9	1	26	3	0	8
6	Gate-King	600	382	227	NQ	NQ	2,411
7	Wiley Canyon	15	25	6	2	1	135
--	Proposed Project	178	30	71	130	288	777
--	**Total**	**808**	**456**	**319**	**115**	**289**	**3,385**
--	Significance Thresholds	55	55	150	55	150	550
--	**Exceeds Threshold?**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**

Legend: NQ = Not quantified in the project's CEQA document.
Note: The Operation NEXT project (#3) and Trails at Lyons Canyon project (#5) are not shown because emissions were not quantified.

Contributions of the Proposed Project

The Proposed Project would contribute to potentially significant adverse cumulative operational air quality impacts if project-specific operational emissions are considered to be cumulatively considerable as defined by CEQA Guidelines Section 15064(h)(1). South Coast AQMD's approach is that impacts are cumulatively considerable if they exceed the project-specific air quality significance thresholds. Impact AQ-3 determined that the Proposed Project's operational emissions would exceed the mass daily thresholds for NOx, PM2.5, SOx, and CO (see Table 4-8 or Table 4-24). Therefore, operation of the Proposed Project would result in a cumulatively considerable contribution to a significant cumulative regional impact for NOx, PM2.5, SOx, and CO.

Additionally, Impact AQ-5 determined that the localized ambient criteria pollutant concentrations associated with Proposed Project operation would not exceed the ambient air quality standards or significant change thresholds (see Tables 4-12 and 4-13). Therefore, operation of the Proposed Project would not result in a cumulatively considerable contribution to a cumulative localized impact.

4.12.4 Toxic Air Contaminants

Contributions of Cumulative Projects
South Coast AQMD measured TAC concentrations as part of its fifth Multiple Air Toxics Exposure Study (MATES V). The South Coast Air Basin-wide average cancer risk is 455 per million. Within the zip code where the Proposed Project is located, the background cancer risk is 352 per million with 63.1 percent of the cancer risk coming from diesel particulate matter.

The TAC impacts of the cumulative projects would be cumulatively significant if they would exceed South Coast AQMD's significance thresholds for health risk. The CEQA documents for all but three related projects evaluated (although not necessarily quantified) TAC impacts, and the impacts were determined to be less than significant for each project. Impacts associated with TAC emissions are dependent on the location of the receptors such that the resulting health risks are not necessarily additive unless they are emitted from the same or similar location. Therefore, because of the relatively large distance between the Proposed Project flares and the related projects, it is unlikely that off-site TAC impacts from the Proposed Project would combine with the TAC impacts from the related projects in sufficient quantities to produce a significant cumulative impact.

Contributions of the Proposed Project
The Proposed Project would contribute to potentially significant adverse cumulative health risk impacts if project-specific TAC impacts are considered to be cumulatively considerable as defined by CEQA Guidelines Section 15064(h)(1). South Coast AQMD's approach is that impacts are cumulatively considerable if they exceed the project-specific air quality significance thresholds. Impact AQ-6 determined that the TAC impacts associated with the Proposed Project would not exceed the significance thresholds (see Table 4-16). Therefore, the Proposed Project would not produce a cumulatively considerable contribution to a cumulative TAC impact.

4.12.5 Odor

Contributions of Cumulative Projects
Odor impacts are localized impacts. The CEQA documents for all but three related projects qualitatively evaluated odor impacts, and the impacts were determined to be less than significant for each project. The Final EIR for the Gate-King project (#6) did not evaluate odor impacts. Odor impacts from the Operation NEXT project (#3) and Trails at Lyons Canyon project (#5) have not yet been analyzed. Because of the relatively large distance between the Proposed Project flares and the related projects, it is unlikely that off-site odor impacts from the Proposed Project would combine with odor impacts from the related projects in sufficient levels to produce a significant impact. However, because of the numerous odor complaints reported by the communities adjacent to SCL since 2009 (see Section 3.2.5), this analysis concludes that cumulative odor impacts would be significant.

Contributions of the Proposed Project
As discussed in Impact AQ-7, the LFG flares associated with the Proposed Project are considered odor abatement devices because combustion of LFG destroys most of the odorous compounds present in LFG. As a result, few odorous emissions are expected from the Proposed Project flares. Furthermore, the Proposed Project would improve the ability of SCL to control odors related to fugitive LFG emissions. The proposed addition of two new flares and the proposed increase in the

site-wide LFG combustion limit would give the SCL flares the capability to combust the maximum forecasted LFG generation at SCL. As a result, the Proposed Project would help to mitigate cumulative odor impacts. Therefore, the Proposed Project would not result in a cumulatively considerable contribution to a significant cumulative odor impact.

4.12.6 Greenhouse Gases

Contributions of Cumulative Projects

All related projects would contribute to cumulative GHG emissions. Table 4-25 shows the cumulative GHG emissions from the related projects for which emissions were quantified in their respective CEQA documents. It also includes the contribution from the Proposed Project (see Table 4-19). The draft EIRs for the Operation NEXT project (#3) and Trails at Lyons Canyon project (#5) are still in progress, so GHG emissions from those two projects are not yet available.

Table 4-25 also compares the total cumulative GHG emissions to the South Coast AQMD significance threshold of 10,000 MT/yr CO2e. According to this table, the cumulative GHG emissions would exceed the significance threshold and result in a significant cumulative impact.

Table 4-25
Cumulative GHG Emissions from the Proposed Project and all Related Projects

No. in Figure 4-3	Abbreviated Project Title [1]	CO2e (MT/yr)
2	Roxford Street	4,165
4	Van Norman Complex	18
7	Wiley Canyon	5,195
--	Proposed Project	**231,652**
--	**Total**	**241,030**
--	Significance Threshold	10,000
--	**Exceeds Threshold?**	**Yes**

Note:
[1] The I-5 HOV/Truck Lanes project (#1), Operation NEXT project (#3), Trails at Lyons Canyon project (#5), and Gate-King project (#6) are not shown because emissions were not quantified.

Contributions of the Proposed Project

Impact GHG-1 determined that the Proposed Project's GHG emissions would be significant (see Table 4-19 or Table 4-25). Therefore, the Proposed Project would produce a cumulatively considerable contribution to a significant cumulative GHG impact.

As discussed in Impact GHG-1, the Proposed Project's significant GHG impact reflects an increase in maximum potential flare emissions associated with the proposed increase in the LFG combustion limit. Notwithstanding the significance finding, the SCL flares are considered abatement devices for GHGs because they destroy most of the CH4 present in raw LFG. Because CH4 has 25 times the global warming potential of CO2, the CO2 created during LFG combustion is much less potent than the CH4 that otherwise would have been emitted in fugitive, uncombusted, LFG releases. The South Coast AQMD has determined that combusting LFG in flares reduces

CO2e emissions by approximately 80 percent compared to releasing the same LFG to the atmosphere uncombusted (See Table 4-20).

4.12.7 Mitigation

The analysis in this SEIR determined that the Proposed Project's operational emissions of NOx, PM2.5, SOx, CO, and GHGs would make cumulatively considerable contributions to significant cumulative impacts.

Therefore, the Proposed Project shall implement the applicable mitigation measures contained in the SCL MMRS included in Appendix B. Section 4.4.2 discusses the MMRS as it relates to air quality and GHG impacts.

In addition, all flares would be regulated by a revised Title V permit administered by the South Coast AQMD. The flares would be required to comply with all applicable South Coast AQMD rules, including Best Available Control Technology (BACT) and offsets as defined in Rule 1303, and emission limits as specified in Rule 1118.1. Moreover, the flares themselves are considered abatement devices that destroy CH4 (a potent GHG), odors, and TACs present in raw LFG. Therefore, no mitigation beyond these requirements would be feasible for the flares.

4.12.8 Level of Significance After Mitigation

After mitigation, the Proposed Project's operational emissions of NOx, PM2.5, SOx, CO, and GHGs would continue to make cumulatively considerable contributions to significant cumulative impacts.

CHAPTER 5

PROJECT ALTERNATIVES

5.1 Introduction

5.2 Methodology for Developing Project Alternatives

5.3 Description of Alternatives to the Proposed Project

5.4 Comparison of Alternatives to the Proposed Project

5.5 Alternatives Rejected as Infeasible

5.6 Lowest Toxic Alternative

5.7 Environmentally Superior Alternative

5.8 Conclusion

5.1 INTRODUCTION

This SEIR provides a discussion of alternatives to the Proposed Project as required by CEQA. The alternatives discussion includes measures for attaining objectives of the Proposed Project and provide a means for evaluating the comparative merits of each alternative. A 'no project' alternative must also be evaluated. The range of alternatives must be sufficient to permit a reasoned choice, but need not include every conceivable project alternative. CEQA Guidelines Section 15126.6(c) specifically notes that the range of alternatives required in a CEQA document is governed by a 'rule of reason' and only necessitates that the CEQA document set forth those alternatives necessary to permit a reasoned choice. The key issue is whether the selection and discussion of alternatives fosters informed decision making and public participation. A CEQA document need not consider an alternative whose effect cannot be reasonably ascertained and whose implementation is remote and speculative.

5.2 METHODOLOGY FOR DEVELOPING PROJECT ALTERNATIVES

The rationale for selecting specific components of the Proposed Project on which to focus the alternatives analysis rests on CEQA's requirements to present a range of reasonable project alternatives that could feasibly attain the basic objectives of the project, while generating fewer or less severe adverse environmental impacts. The Project Objectives are as follows:

1. Increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate.
2. Increase the capacity of the GCCS to accommodate the maximum future projected LFG production rate.
3. Further reduce landfill odors and prevent fugitive releases of CH4, which is a potent GHG, and TACs that are present in LFG.

The range of feasible alternatives selected for analysis was limited by the nature of the Proposed Project, its objectives and associated legal and regulatory requirements. For example, South Coast AQMD Rule 1150.1 states that "the gas collection and gas control systems shall be designed to handle the maximum expected gas flow rate from the entire area of the MSW landfill that requires control." Rule 1150.1 also states that the GCCS must "route all collected landfill gas to a gas control system designed to be operated continuously to reduce methane by at least 99 percent by weight…" Therefore, any feasible alternative would need to meet the project objectives as well as the legal and regulatory requirements

5.3 DESCRIPTION OF ALTERNATIVES TO THE PROPOSED PROJECT

Four alternatives to the Proposed Project were analyzed and are summarized in Table 5-1: Alternative A – No Project, Alternative B – Additional Backup, Alternative C – Alternate Location, and Alternative D – Beneficial Re-Use of LFG. The primary components of the alternatives vary by modifications to the number and location of proposed flares.

Alternative A: No Project

CEQA requires the specific alternative of "No Project" to be evaluated. A No Project Alternative consists of what would occur if the Proposed Project was not approved. Alternative A, the No Project alternative, means that no construction would occur and the existing GCCS, flaring system, and site wide combustion limit would remain in effect. Under the No Project Alternative, the existing GCCS would continue to operate at its current LFG extraction capability, using 12 existing electric blowers to apply vacuum to the extraction wells and to direct LFG to the combustion devices. The five existing flares (Flares 1, 3, 9, 10, and 11) would continue to operate under the 2018 Title V permit, which sets the site-wide LFG combustion limit at 16,100 scfm (at 50% CH4). This alternative would not meet any of the three project objectives for the following reasons:

As discussed in Section 2.5, the quantity of LFG collected and combusted by the existing SCL flares and SGP facility has already exceeded the current site-wide combustion limit of 16,100 scfm (at 50% CH4) on occasion since 2017. Therefore, operation of the No Project alternative would continue to violate the 2018 Title V permit by combusting more site-wide LFG than is permitted. In addition, as the future LFG generation rate at SCL continues to increase over time, the quantity of LFG would eventually exceed the LFG extraction capability of the existing GCCS, resulting in substantial fugitive releases of uncombusted LFG through the landfill surface. These releases would likely result in greater odor impacts, in violation of South Coast AQMD Rule 402 - Nuisance. Moreover, releasing uncombusted LFG would be primarily comprised of CH4 which is a more potent GHG because it has a GWP at 25 times the GWP of CO2. As demonstrated in Table 4-20, the South Coast AQMD has determined that combusting LFG in flares reduces CO2e emissions by approximately 80 percent compared to releasing the same quantity of uncombusted LFG to the atmosphere under the No Project Alternative.

Alternative B: Additional Backup

Alternative B: Additional Backup, would provide additional flaring capability in the event that a SCL flare and the SGP LFGTE facility are concurrently inoperable due to unforeseen circumstances. All other features would be the same as for the Proposed Project. Specifically, this alternative would:

- Install and operate three new low emission flares and three new 300-hp electric blowers, and connect them to the existing GCCS.
- Revise the SCL Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).

Compared to the Proposed Project, this alternative would require more construction activities to install the additional flares, blowers and connections.

Having three new flares and three new electric blowers would provide redundancy in case one or more of the flares and blowers are offline for maintenance or other reasons. This redundancy would help minimize the potential for fugitive LFG releases through the landfill surface. While Alternative B will increase the total number of available flares from five to eight, the sitewide maximum LFG combustion limit of 33,334 scfm for all eight flares combined would remain the same as under the Proposed Project for seven flares. As a practical matter, under Alternative B, only seven of the eight flares would be operating concurrently. Even though Alternative B would require additional construction and operational maintenance for three new flares, because the total site-wide LFG combustion limit for all eight flares (three new plus five existing) would be the

same as for the Proposed Project for all seven flares (two new plus five existing), this alternative would meet all of the project objectives.

Previously adopted mitigation measures in the MMRS would continue to apply, and, similar to the Proposed Project, no new or modified mitigation measures would reduce the potentially significant environmental impacts under this alternative to less than significant.

Alternative C: Alternate Onsite Location

Alternative C: Alternate Onsite Location, would involve constructing the same components as the Proposed Project, except the two new flares and necessary associated equipment would be installed at a different location within the SCL site. Specifically, at a minimum, this alternative would:

- Install and operate two new low emission flares (proposed Flare 12 and 13) and three new 300-hp electric blowers, and connect them to the existing GCCS.
- Revise the SCL Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours).

However, due to the uncertainty of where the alternate location for the two new flares would be and their distance from this alternate location to the existing GCCS, additional logistical factors need to be considered. For example, installation of the proposed two new flares at a different location within the SCL property would require approximately up to two acres of flat land. As such, the alternate location could potentially require substantial cuts into the slope of the property and slope stabilization as well as the removal of existing trees and vegetation. Access to the two new flares at an alternate location would likely need to be reconfigured, potentially triggering a redesign and expansion of roadways within the property to reach the new alternate location, along with additional clearing of vegetation. From an infrastructure standpoint, installing two new flares at a separate, different on-site location from the existing flares would potentially require: 1) more connective piping covering a longer distance to the existing GCCS; 2) upgrading the existing power supply which could potentially require a new, higher capacity transformer, higher voltage distribution lines, and new or upgraded switchgear; and 3) installing a triple blower skid with three electric blowers. Compared to the Proposed Project, Alternative C would require three blowers instead of two because the proposed location benefits from existing blower redundancy. In contrast, a stand-alone location under Alternative C lacks shared infrastructure, necessitating an additional blower to maintain operational reliability. Additionally, although the new flares are designed to withstand wind speeds of up to 110 mph, the alternate on-site location for the two new flares may be more exposed to higher wind conditions. If wind speeds at the selected site exceed this threshold, Alternative C may require additional cutting, grading, or enhanced wind protection measures—such as utilizing the natural hillsides for shielding—to ensure adequate protection for the two new flares.

In concept, relocating the two proposed new flares to another location could avoid clustering the emission plumes from the two new flares with the existing plumes from the three existing flares within the SCL site as a means to potentially reduce or avoid worsening the localized operational air quality impacts (i.e., ambient pollutant concentrations, odors, and health risks). However, selecting an alternate location for the two new flares with the goal of consistently preventing, avoiding or minimizing the overlap of emission plumes from all five flares (two new and three existing) at one location is a theoretical exercise that may not result in actual reductions of localized impacts because the prevailing wind patterns and direction, atmospheric conditions, surface characteristics, topography and other environmental factors could still result in overlapping plumes

even if the two new flares are sited in a different location from the existing flares. Additionally, the specific layout and configuration of the alternate location for the two new flares, while at a distance from the location of the other existing flares, could still lead to unforeseen interactions between these multiple emission sources, which may not succeed in fully avoiding the clustering effects. Consequently, the potential benefit, if any, of having fewer localized impacts under Alternative C is uncertain and dependent on conditions that cannot be forecasted.

Even if Alternative C results in fewer maximum localized impacts during operation when compared to the Proposed Project, the localized impacts of the Proposed Project are already at less than significant levels. Meanwhile, Alternative C is expected to generate larger quantities of construction-related GHG emissions than the Proposed Project due to the increased construction activities required. As a result, Alternative C would worsen the potentially significant GHG impacts associated with the Proposed Project.

As with the Proposed Project, the installation of three new electric blowers under Alternative C would improve the ability of the GCCS to collect LFG, thereby reducing the potential for fugitive releases of LFG. Also, as with the Proposed Project, the two new flares would increase the total number of active flares at the landfill from five to seven under Alternative C, with a maximum LFG combustion limit of 33,334 scfm for the flares. Under Alternative C, the SCL flares would have enough physical capacity to combust the maximum predicted LFG flow of 32,392 scfm (at 50% CH4) expected by 2038, even when the SGP facility is offline. Thus, Alternative C would meet all of the project objectives.

Previously adopted mitigation measures in the MMRS would continue to apply, and, similar to the Proposed Project, no new or modified mitigation measures would reduce the potentially significant environmental impacts under this alternative to less than significant.

Alternative D: Beneficial Re-Use of LFG

Alternative D: Beneficial Re-Use of LFG, would involve constructing one new flare according to the specifications in the Proposed Project, and a LFGTE facility comparable to the existing one currently operated by SGP which operates at a LFG flow rate of approximately 7,500 scfm at 50% CH4, and has a maximum capacity of approximately 10,000 scfm at 50% CH4. As discussed in Section 2.5, the SGP LFGTE facility operates five LFGTE turbines which will be used for equipment estimation. The conclusions from the April 2012 Final SEIR for the Sunshine Gas Producers Renewable Energy Project which analyzed operating LFGTE turbines compared to a baseline of flaring, will be applied here.[4] Under Alternative D, a portion of LFG produced at the SCL site, which would otherwise be flared, would be repurposed to generate electricity. All other features would be the same as for the Proposed Project. Specifically, this alternative would:

- Install and operate one new low emission flare, one new 300-hp electric blower, five new LFGTE turbines, and connect them to the existing GCCS.
- Revise the SCL Title V permit to increase the site-wide LFG combustion limit from 16,100 scfm to 28,334 scfm (at 50% CH4, averaged over 24 hours).

Compared to the Proposed Project, this alternative would have substantially more construction activities due to installing five new turbines in lieu of one flare.

[4] https://www.aqmd.gov/docs/default-source/ceqa/documents/permit-projects/2012/2012final_seir_april_2012_may_4.pdf

The new flare would increase the number of active flares from five to six at the SCL facility, resulting in a maximum LFG combustion physical capacity of 28,334 scfm for the flares. Under this alternative, SCL would need to rely on the combination of all six flares and the new LFGTE facility to have enough physical capacity to combust the maximum predicted LFG flow of 32,392 scfm (at 50% CH4) expected by 2038, even when the SGP facility is offline. This alternative would meet all of the project objectives.

Previously adopted mitigation measures in the MMRS would continue to apply, and, similar to the Proposed Project, no new or modified mitigation measures would reduce the potentially significant environmental impacts under this alternative to less than significant.

Table 5-1
Summary of the Proposed Project and Alternatives

PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
2 new flares + 5 existing flares = 7 total	No new flares + 5 existing flares = 5 total	3 new flares + 5 existing flares = 8 total	2 new flares + 5 existing flares = 7 total	1 new flare + 5 existing flares + 5 new LFGTE turbines = 6 total flares + 5 LFGTE turbines
2 new blowers + 12 existing blowers = 14 total	No new blowers + 12 existing blowers = 12 total	3 new blowers + 12 existing blowers = 15 total	3 new blowers + 12 existing blowers = 15 total	1 new blower + 12 existing blowers = 13 total
33,334 scfm site-wide LFG combustion limit [1]	16,100 scfm site-wide LFG combustion limit [1]	33,334 scfm site-wide LFG combustion limit [1]	33,334 scfm site-wide LFG combustion limit [1]	33,334 scfm site-wide LFG combustion limit [1]
33,334 scfm physical flare capacity [2]	23,334 scfm physical flare capacity [2][3]	33,334 scfm physical flare capacity [2]	33,334 scfm physical flare capacity [2]	28,334 scfm physical flare and 10,000 scfm LFGTE capacity [2]

Notes:
[1] At 50% CH4. Includes SCL flares and SGP facility combined.
[2] At 50% CH4.
[3] This capacity exceeds the site-wide combustion limit of 16,100 scfm in the current Title V permit.

5.4 COMPARISON OF ALTERNATIVES TO THE PROPOSED PROJECT

The following section describes the potential air quality impacts that may occur from the alternatives to the Proposed Project. No other environmental topics other than air quality and GHGs were determined to be significantly adversely affected by implementing the Proposed Project or alternatives.

Pursuant to the requirements in CEQA Guidelines Section 15126.6(b) to mitigate or avoid the significant effects that a project may have on the environment, a comparison of the potential impacts to air quality and GHGs from each of the project alternatives and the Proposed Project is provided in Table 5-2. A summary of the significant impacts associated with the Proposed Project and alternatives is provided in the last row of the table. The Proposed Project is considered to provide the best balance between LFG emission reductions and adverse environmental impacts while achieving the project objectives. Therefore, the Proposed Project is preferred over the project alternatives.

Pursuant to CEQA Guidelines Section 15126.6(d), a CEQA document "shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project. A matrix displaying the major characteristics and significant environmental effects of each alternative may be used to summarize the comparison. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative shall be discussed, but in less detail than the significant effects of the project as proposed." Accordingly, Table 5-2 provides a matrix displaying the major characteristics and significant environmental effects of the Proposed Project and each alternative.

Table 5-2
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-1. Consistency with the Air Quality Management Plan	Consistent with the 2022 AQMP.	Under this alternative, uncombusted LFG, which is predominantly comprised of CH4 which contributes to the formation of ground level ozone, would continue to be released into the atmosphere. The goal of the 2022 AQMP is to reduce ozone; therefore, this alternative would not be consistent with the 2022 AQMP.	This alternative would have the same LFG combustion capacity and destruction as the Proposed Project, reducing ozone formation. Therefore, this alternative would be consistent with the 2022 AQMP.	This alternative would have the same LFG combustion capacity and destruction as the Proposed Project, reducing ozone formation. Therefore, this alternative would be consistent with the 2022 AQMP.	This alternative would utilize more LFG as a fuel to generate electricity via the turbines which could result in less LFG combustion in the flares while preserving the same LFG combustion limit as the Proposed Project for when the turbines are offline for maintenance. Whether the LFG is beneficially utilized or combusted by the flares, the potential for ozone formation will be reduced because the LFG will be controlled. Therefore, this alternative would be consistent with the 2022 AQMP.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-2. Regional Air Quality Impacts Associated with Proposed Project Construction	Maximum daily construction emissions and regional air quality impacts would be less than significance thresholds.	This alternative would involve no construction activities. Thus, no regional air quality impacts are expected with regards to construction.	This alternative would involve more construction activities to construct one additional flare than the Proposed Project. However, because Proposed Project construction emissions would be substantially less than the significance thresholds, maximum daily construction emissions and regional air quality impacts associated with this alternative are also expected to be less than significance thresholds.	This alternative may involve substantially more construction activities than the Proposed Project. However, because Proposed Project construction emissions would be substantially less than the significance thresholds, maximum daily construction emissions and regional air quality impacts associated with this alternative are also expected to be less than significance thresholds. This conclusion remains valid even for a scenario involving substantially higher construction activity and the use of nearly four times the amount of construction equipment per peak day compared to the Proposed Project.	This alternative would involve substantially more construction activities than the Proposed Project. As concluded in the April 2012 Final SEIR for the Sunshine Gas Producers Renewable Energy Project, installation of five LFGTE turbines would result in potentially significant air quality impacts from construction and regional air quality impacts.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-3. Regional Air Quality Impacts Associated with Proposed Project Operation	Maximum daily operational emissions would exceed the significance thresholds for NOx, PM2.5, SOx, and CO. Thus, significant regional air quality impacts are expected for operational NOx, PM2.5, SOx, and CO emissions.	This alternative would not increase maximum potential flare emissions relative to existing conditions. Therefore, emissions of NOx, PM10, PM2.5, SOx, and CO would be less than significant. However, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would lead to substantial emissions of VOC contained in the uncombusted LFG. The uncombusted VOC emissions would be much higher than if combusted in the flares because the flare combustion process destroys 98 percent of the VOC. Therefore, maximum daily operational emissions of VOC would be higher than the Proposed Project and would be significant.	This alternative would one more flare on-site, but the facility would be limited to the same LFG combustion limit and potential operational emissions as the Proposed Project. Therefore, maximum daily operational emissions would be the same as Proposed Project and significant regional air quality impacts are expected for operational NOx, PM2.5, SOx, and CO emissions.	This alternative would have the same number of flares, with the same LFG combustion limit, emission limits, and potential operational emissions as the Proposed Project. Therefore, maximum daily operational emissions would be the same as Proposed Project and significant regional air quality impacts are expected for operational NOx, PM2.5, SOx, and CO emissions.	This alternative would have one less flare operating than the Proposed Project, but would also require the operation of five LFGTE turbines. As concluded in the April 2012 Final SEIR for the Sunshine Gas Producers Renewable Energy Project, operation of LFGTE turbines would result in operational emissions increase compared to flaring. Therefore, maximum daily operational emissions would be greater than the Proposed Project and more significant regional air quality impacts are expected for operational NOx, PM2.5, and SOx emissions.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-4. Localized Air Quality Impacts Associated with Proposed Project Construction	Localized construction-related air quality impacts would be less than significant.	This alternative would have no localized construction-related air quality impacts.	This alternative would have more construction activities than the Proposed Project. However, because Proposed Project onsite construction emissions would be substantially less than the LSTs, localized construction-related air quality impacts associated with this alternative are also expected to be less than significant.	This alternative would have more construction activities than the Proposed Project. However, because Proposed Project onsite construction emissions would be substantially less than the LSTs, localized construction-related air quality impacts associated with this alternative are also expected to be less than significant. This conclusion remains valid even for a scenario involving substantially higher construction activity and the use of nearly 20 times the amount of construction equipment per peak day compared to the Proposed Project.	This alternative would have more construction activities than the Proposed Project. However, as concluded in the April 2012 Final SEIR for the Sunshine Gas Producers Renewable Energy Project, localized construction-related air quality impacts associated with this alternative would be less than significant.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-5. Localized Air Quality Impacts Associated with Proposed Project Operation	Localized operational air quality impacts would be less than significant.	Under this alternative, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would lead to substantial emissions of H2S contained in the uncombusted LFG. The uncombusted H2S emissions would be much higher than if combusted in the flares because the flare combustion process destroys 98 percent of the H2S. Therefore, localized operational impacts of H2S would be higher than the Proposed Project and would be potentially significant.	This alternative would have the one more flare on-site but the facility would have the same LFG combustion limit and potential operational emissions as the Proposed Project. Overall, because localized operational air quality impacts associated with the Proposed Project would be substantially less than the significance thresholds, the localized operational air quality impacts associated with this alternative are also expected to be less than significant.	This alternative would have the same number of flares, the same LFG combustion limit, emission limits, and potential operational emissions as the Proposed Project. Depending on the location of the two new flares, this alternative might potentially have fewer maximum localized operational air quality impacts than the Proposed Project because it might avoid clustering five flares (two new and three existing) together where their emission plumes could overlap. However, the extent to which the localized operational air quality impacts might be reduced is dependent upon several unknown variables such as the precise location where the two new flares would be sited elsewhere within the facility's property, combined the terrain of the alternative location and proximity of the two new flares to the SCL boundary. Moreover, the potential for fewer localized impacts under this alternative is uncertain and dependent on conditions such as prevailing wind patterns/direction, atmospheric conditions, surface characteristics, and topography, which cannot be reliably and consistently predicted with any degree of accuracy. Overall, because localized operational air quality impacts associated with the Proposed Project would be substantially less than the significance thresholds, the localized operational air quality impacts associated with this alternative are also expected to be less than significant.	This alternative would have one less flare operating when compared to the Proposed Project, but would also require operation of five LFGTE turbines. As concluded in the April 2012 Final SEIR for the Sunshine Gas Producers Renewable Energy Project, localized operational air quality impacts associated with this alternative would be less than the significance thresholds and expected to be less than significant.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-6. Health Risk Assessment of Proposed Project TAC Emissions	Health risks associated with TAC emissions would be less than significant.	Under this alternative, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would lead to substantial emissions of TACs contained in the uncombusted LFG (see Appendix C for the identification of specific TACs present in the uncombusted LFG). The uncombusted TAC emissions would be much higher than if combusted in the flares because the flare combustion process destroys 98 percent of most TACs. Based on the health risk results in Table 4-16 and consideration of the individual TAC emissions and toxicity factors, health risk impacts associated with this alternative would be potentially significant for cancer risk (primarily from acrylonitrile) and the acute hazard index (primarily from H2S). The chronic hazard index would be less than significant for this alternative because the primary TAC for the Proposed Project is hydrogen chloride, a product of combustion that would not be present in uncombusted LFG.	This alternative would have the one more flare on-site but the facility would have the same LFG combustion limit and potential operational emissions as the Proposed Project. Overall, because health risk impacts associated with the Proposed Project would be substantially less than the significance thresholds, the health risk impacts associated with this alternative are also expected to be less than significant.	This alternative would have the same number of flares, the same LFG combustion limit, emission limits, and potential operational emissions as the Proposed Project. Depending on the location of the proposed new flares, this alternative might have potentially fewer maximum health risk impacts than the Proposed Project because it might avoid clustering five flares (two new and three existing) together, where their emission plumes could overlap. However, the extent to which the localized operational air quality impacts might be reduced, if at all, is dependent upon several unknown variables such the precise location where the two new flares would be sited within the facility's property, combined the terrain of the alternative location and proximity of the two new flare at an alternate location to the SCL boundary. Moreover, the potential for fewer health risk impacts under this alternative is uncertain and dependent on conditions such as prevailing wind patterns and direction, atmospheric conditions, surface characteristics, and topography, which cannot be reliably and consistently predicted with any degree accuracy. Overall, because health risk impacts associated with the Proposed Project would be substantially less than the significance thresholds, the health risk impacts associated with this alternative are also expected to be less than significant.	This alternative would install and operate one less flare when compared to the Proposed Project, but would also require the operation of five LFGTE turbines. The health risk impact from the LFGTE turbines is expected to be greater than from flaring. Overall, because health risk impacts associated with the Proposed Project would be substantially less than the significance thresholds, the health risk impacts associated with this alternative are also expected to be less than significant.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-7. Odors	Odor impacts would be less than significant.	Under this alternative, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would lead to substantial emissions of odorous compounds contained in the uncombusted LFG. Because this alternative represents a continuation of existing conditions, and because the existing odor issues related to SCL have been substantial (see Section 3.2.5), this alternative would produce significant odor impacts. The odor impacts would likely become greater as the LFG generation rate continues to increase in future years.	This alternative would have one more flare on-site but the facility would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would have the same ability to combust all collected LFG and, as a result, odor impacts would be less than significant.	This alternative would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would have the same ability to combust all collected LFG and, as a result, odor impacts would be less than significant.	Similar to the Proposed Project, this alternative would have the ability to utilize more LFG as a fuel to generate electricity while having the same LFG combustion limit, preserving the facility's ability to manage all collected LFG and control odors. As a result, odor impacts would be less than significant.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact AQ-8. Consistency with Existing Rules and Regulations and Future Compliance Requirements	Consistent with existing rules and regulations, and expected compliance with future requirements.	Operation of this alternative would violate the 2018 Title V permit by combusting more site-wide LFG than is permitted. Furthermore, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would likely lead to additional violations of South Coast AQMD Rule 402 - Nuisance.	This alternative would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would be consistent with existing rules and regulations, and expected compliance with future requirements.	This alternative would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would be consistent with existing rules and regulations, and expected compliance with future requirements.	This alternative would utilize more LFG as a fuel to generate electricity via the turbines which could result in less LFG combustion in the flares while preserving the same LFG combustion limit as the Proposed Project for when the turbines are offline for maintenance. Therefore, this alternative would be consistent with existing rules and regulations, and expected compliance with future requirements.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact GHG-1. Greenhouse Gas Emissions	Annual GHG emissions, which are comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would exceed the significance threshold. Thus, significant GHG emissions impacts are expected. However, under the Proposed Project, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a much lower global warming potential, resulting in CO2e emissions roughly five times less than if uncombusted LFG was released into the atmosphere.	This alternative would not involve construction and would not increase the maximum potential flare GHG emissions relative to existing conditions. However, the future maximum LFG generation rate would exceed the LFG extraction capability of the existing GCCS, potentially resulting in the release of substantial quantities of uncombusted LFG from the landfill surface. This would lead to substantial emissions of CH4 contained in the uncombusted LFG. The uncombusted CH4 emissions would result in CO2e emissions roughly five times higher than if combusted in the flares because: (a) the flare combustion process destroys 99 percent of the CH4, converting it to CO2; and (b) the global warming potential of CH4 is much higher than that of CO2. Therefore, annual GHG emissions, comprised solely of operational GHGs, would be much higher than the Proposed Project such that significant GHG emissions impacts are expected.	This alternative would have the same LFG combustion limit as the Proposed Project. Because Alternative B would involve more construction activities than the Proposed Project, higher construction-related GHG emissions are expected from this alternative compared to the Proposed Project. Therefore, under this alternative, annual GHG emissions, which are comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would exceed the significance threshold. Thus, significant GHG emissions impacts are expected. However, under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a much lower global warming potential, resulting in CO2e emissions roughly five times less than if uncombusted LFG was released into the atmosphere.	This alternative would have the same number of flares, the same LFG combustion limit, emission limits, and potential operational emissions as the Proposed Project. Because Alternative C would involve more construction activities than the Proposed Project, higher construction-related GHG emissions are expected from this alternative compared to the Proposed Project. Therefore, under this alternative, annual GHG emissions, which are comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would exceed the significance threshold. Thus, significant GHG emissions impacts are expected. However, under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a much lower global warming potential, resulting in CO2e emissions roughly five times less than if uncombusted LFG was released into the atmosphere.	This alternative would involve construction and would utilize more LFG as a fuel to generate electricity via the turbines which could result in less LFG combustion in the flares while preserving the same LFG combustion limit as the Proposed Project for when the turbines are offline for maintenance. Under this alternative, annual GHG emissions which are comprised of construction GHG emissions amortized over 30 years plus operational GHG emissions, would exceed the significance threshold. Thus, significant GHG emissions impacts are expected.

Table 5-2 (continued)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Impact GHG-2. Consistency with GHG Reduction Plans	Consistent with GHG reduction plans. Under the Proposed Project, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	This alternative would not increase landfill CH4 capture, and instead would result in substantial emissions of CH4 contained in the uncombusted LFG. Therefore, this alternative is not consistent with the 2022 Scoping Plan Update.	This alternative would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would be consistent with GHG reduction plans. Under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	This alternative would have the same LFG combustion limit as the Proposed Project. Therefore, this alternative would be consistent with GHG reduction plans. Under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	This alternative would utilize more LFG as a fuel to generate electricity via the turbines which could result in less LFG combustion in the flares while preserving the same LFG combustion limit as the Proposed Project for when the turbines are offline for maintenance. Therefore, this alternative would be consistent with GHG reduction plans.

Table 5-2 (concluded)
Comparison of Adverse Environmental Impacts of the Proposed Project and Alternatives

IMPACT	PROPOSED PROJECT	ALTERNATIVE A: No Project	ALTERNATIVE B: Additional Backup	ALTERNATIVE C: Alternate Onsite Location	ALTERNATIVE D: Beneficial Re-Use of LFG
Summary of Significant Air Quality and GHG Impacts*	Maximum daily operational emissions would exceed the significance thresholds for NOx, SOx, and CO (increase in the severity of a previously identified significant impact in the 1999 Final SEIR); and for PM2.5 (new significant impact). Annual GHG emissions would exceed the significance threshold and significant GHG emissions impacts are expected (new significant impact). However, under the Proposed Project, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	Not consistent with the 2022 AQMP (new significant impact). Maximum daily operational emissions would exceed the significance thresholds for VOC (increase in the severity of a previously identified significant impact in the 1999 Final SEIR). Localized operational air quality impacts would be significant for H2S. Health risk impacts from TAC emissions would be significant for cancer risk and the acute hazard index (new significant impacts). Odor impacts would be significant (new significant impact). Annual GHG emissions would exceed the significance threshold and significant GHG emissions impacts are expected (new significant impact). Not consistent with the 2022 Scoping Plan Update (new significant impact).	Maximum daily operational emissions would exceed the significance thresholds for NOx, SOx, and CO (increase in the severity of a previously identified significant impact in the 1999 Final SEIR); and for PM2.5 (new significant impact). Annual GHG emissions would exceed the significance threshold and significant GHG emissions impacts are expected (new significant impact). However, under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	Maximum daily operational emissions would exceed the significance thresholds for NOx, SOx, and CO (increase in the severity of a previously identified significant impact in the 1999 Final SEIR); and for PM2.5 (new significant impact). Annual GHG emissions would exceed the significance threshold and significant GHG emissions impacts are expected (new significant impact). However, under this alternative, the LFG combustion in flares will destroy 99 percent of the CH4, converting it to CO2 which has a significantly lower global warming potential, resulting in CO2e emissions roughly five times lower than if uncombusted LFG was released into the atmosphere.	Maximum daily construction and operational emissions would exceed the significance thresholds (increase in the severity of a previously identified significant impact in the 1999 Final SEIR); and for PM2.5 (new significant impact). Annual GHG emissions would exceed the significance threshold and significant GHG emissions impacts are expected (new significant impact).

* Only potentially significant impacts are listed.

5.5 ALTERNATIVES REJECTED AS INFEASIBLE

In accordance with CEQA Guidelines Section 15126.6(c), a CEQA document should identify any alternatives that were considered by the lead agency but rejected as infeasible during the scoping process and briefly explain the reasons underlying the lead agency's determination. CEQA Guidelines Section 15126.6(c) also states that among the factors that may be used to eliminate alternatives from detailed consideration in a CEQA document are: 1) failure to meet most of the basic project objectives; 2) infeasibility; or, 3) inability to avoid significant environmental impacts. As noted in Section 5.2, the range of feasible alternatives to the Proposed Project is limited by the nature of the Proposed Project and associated legal requirements, including but not limited to compliance with South Coast AQMD Rule 1150.1. The following alternatives were considered but rejected as infeasible.

Alternative A: No Project
As required by CEQA guidelines, the No Project alternative is evaluated in Section 5.4 alongside the Proposed Project and other alternatives. The Project Objectives are as follows:

1. Increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate.
2. Increase the capacity of the GCCS to accommodate the maximum future projected LFG production rate.
3. Further reduce landfill odors and prevent fugitive releases of CH4, which is a potent GHG, and TACs that are present in LFG.

Alternative A is rejected as infeasible because it will not achieve any of the Project Objectives. In addition, SCL would be in violation of its current Title V permit and South Coast AQMD Rules 402 and 1150.1.

Alternative D: Beneficial Re-Use of LFG
Alternative D was considered to provide beneficial re-use of a portion of the collected LFG in lieu of combusting all of the LFG in the flares. Examples of beneficial re-use include combusting the LFG to produce electricity (similar to the current practice at the existing SGP facility at SCL). The resulting electricity or natural gas would be considered a renewable energy source.

However, all landfill gas rights at SCL are owned by SGP, which is a separate legal entity from BFIC and not under BFIC's control. As a result, this alternative was rejected as infeasible because the supply of LFG required for this alternative is not under the control of the project proponent and the alternative cannot be feasibly implemented within a reasonable time. See Citizens of Goleta Valley v Board of Supervisors (1990) 52 Cal.3d 553.

5.6 LOWEST TOXIC ALTERNATIVE

In accordance with South Coast AQMD's policy document, Environmental Justice Program Enhancements for FY 2002-03, Enhancement II-1, for all South Coast AQMD CEQA documents which are required to include an alternatives analysis, the alternative analysis shall also include and identify a *feasible* project alternative with the lowest air toxics emissions. In other words, for any major equipment or process type under the scope of the Proposed Project that creates a significant environmental impact, at least one alternative, to be compared against the other

analyzed alternatives, where feasible, shall be considered from a "least harmful" perspective with regard to hazardous or toxic air contaminants.

As discussed in Section 5.5, Alternative A: No Project and Alternative D: Beneficial Re-Use of LFG, were rejected as infeasible and thus, are not eligible for consideration as a lowest toxic alternative. Both Alternative B: Additional Backup and Alternative C: Alternate Location, would have the same LFG combustion limit and would be capable of achieving Project Objective #1 to: "increase the site-wide LFG combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate." Combustion of LFG is necessary to reduce fugitive emission of TACs. Depending on the alternate location of the two new flares, Alternative C could potentially have fewer maximum localized impacts during operation (i.e., ambient pollutant concentrations, odors, and health risks) than the Proposed Project because it would attempt to avoid clustering five flares (two new and three existing) together where their emission plumes could overlap. Therefore, of the four alternatives considered, Alternative C is designed to be, in concept, the lowest toxic alternative with regard to localized operational air quality impacts from hazardous or toxic air contaminants. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended benefits of Alternative C would actually occur.

Alternative C would involve more extensive construction activities from both on-road and off-road construction equipment over a longer period of time than what would occur under Alternative B to install an extra flare that would serve as a backup to the other flares. Thus, when compared to Alternative B, Alternative C would emit more DPM, a carcinogenic and chronic TAC during construction. Therefore, among the feasible alternatives analyzed, Alternative B would have fewer toxic emissions than Alternative C, and thus, would be the lowest toxic alternative.

Nonetheless, the Proposed Project would have fewer toxic emissions overall during construction and operation when compared to Alternative B. Thus, none of the feasible alternatives analyzed are the least toxic when compared to the Proposed Project.

5.7 ENVIRONMENTALLY SUPERIOR ALTERNATIVE

Similar to the analysis conducted in Section 5.6 to identify the least toxic alternative, for any major equipment or process type under the scope of the Proposed Project that creates a significant environmental impact, at least one alternative, to be compared against the other analyzed alternatives, where feasible, shall be considered from an "environmentally superior" perspective by weighing the various potential effects to determine which alternative will satisfy the project objectives and have fewer overall adverse impacts. When none of the alternatives is clearly environmentally superior to the Proposed Project, it should be sufficient for the CEQA document to explain the environmental advantages and disadvantages of each alternative in comparison with the Proposed Project.[5]

If the Proposed Project is implemented, all of the project objectives would be achieved. The GCCS and SCL flares would have the capacity to collect and combust the future maximum LFG generation rate at the landfill. The flares would serve as abatement devices for odors, TACs, and

[5] Continuing Education of the Bar – California, *California Environmental Quality Act (CEQA)*, Section 15.37.

CH4 (a potent GHG) contained in the uncombusted LFG. Under the Proposed Project, maximum potential emissions of NOx, PM2.5, SOx, CO, and GHGs from the flares would be significant.

If Alternative A: No Project is implemented, none of the project objectives would be achieved. Under this alternative, the GCCS and SCL flares would not have the capacity to collect and combust the future maximum LFG generation rate at the landfill. This would lead to substantial fugitive releases of uncombusted LFG to the atmosphere. As a result, emissions of VOC, H2S, landfill gas TACs, odors, and CH4 would be much greater for Alternative A than for the Proposed Project. Due to less LFG that would be combusted, emissions of most criteria pollutants (NOx, PM10, PM2.5, SOx, and CO) and combustion by-product TACs would be less for Alternative A than for the Proposed Project. Overall, the following significant impacts would be associated with Alternative A: AQ-1 - Inconsistency with the AQMP, AQ-3 - operational air quality impacts related to VOC emissions, AQ-5 - H2S localized impacts, AQ-6 - TAC health risk impacts, AQ-7 - odor impacts, GHG-1 - GHG emissions, and GHG-2 - inconsistency with the 2022 Scoping Plan Update. Based upon these considerations, Alternative A is not the environmentally superior alternative.

As discussed in Section 5.5, Alternative D: Beneficial Re-Use of LFG, was rejected as infeasible and thus, is not eligible for consideration as an environmentally superior alternative.

If Alternative B: Additional Backup is implemented, all of the project objectives would be achieved. This alternative would have essentially the same environmental impacts as the Proposed Project except that construction-related emissions would be greater than the Proposed Project because additional grading would be required for a new flare pad to accommodate a total of three new flares instead of two flares. Under Alternative B, even with three new flares, only two of the three new flares would be operating along with the five existing flares. Moreover, the sitewide LFG combustion limit would remain the same as the Proposed Project. Thus, the maximum potential operational emissions of NOx, PM2.5, SOx, CO, and GHGs from the flares would remain the same as the Proposed Project and would exceed the significance thresholds.

If Alternative C: Alternate Onsite Location is implemented, all of the project objectives would be achieved. This alternative would have very similar environmental impacts as the Proposed Project except that there could be more construction-related emissions than the Proposed Project. To install the proposed two new flares at a different location, Alternative C would involve substantially more construction when compared to the Proposed Project due to extensive work that will be needed to: 1) grade up to two acres; 2) pour multiple foundations; 3) upgrade the existing power supply which could potentially require a new, higher capacity transformer, higher voltage distribution lines, and new or upgraded switchgear; 4) install one additional blower and a new blower skid; 5) install additional piping to connect to the existing GCCS; and 6) implement enhanced wind protection measures which could involve cutting and grading to ensure that the hillsides can provide an adequate barrier if the area is prone to windspeeds exceeding 110 miles per hour.

When comparing Alternatives B and C from an overall environmental impacts perspective, both alternatives require construction but Alternative C would involve more extensive construction activities from both on-road and off-road construction equipment over a longer period of time than what would occur under Alternative B. Thus, when compared to Alternative B, Alternative C would emit more DPM, a carcinogenic and chronic TAC during construction.

During operation, relocating the two proposed new flares to another location under Alternative C could theoretically avoid clustering the emission plumes from the two new flares with the existing plumes from the three existing flares within the SCL site as a means to potentially reduce or avoid the adverse localized operational air quality impacts. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended operational benefits would actually occur if Alternative C was implemented. When considering both construction and operation activities together, Alternative B would have fewer impacts overall than Alternative C; thus, Alternative B would be environmentally superior to Alternative C.

Nonetheless, neither Alternative B nor Alternative C are environmentally superior to the Proposed Project because both of these alternatives would have more construction impacts than the Proposed Project, even if they have the about the same amount of adverse operational impacts overall. Based on the aforementioned analysis, none of feasible alternatives analyzed are environmentally superior to the Proposed Project.

5.8 CONCLUSION

As discussed previously, Alternative A: No Project, was rejected as infeasible because it would not fulfill any of the project objectives and moreover, SCL would be in violation of its 2018 Title V permit and South Coast AQMD Rules 402 and 1150.1. Alternative D: Beneficial Re-Use of LFG, was also rejected as infeasible because all rights to LFG produced at the SCL facility are owned by SGP, which is a separate legal entity from BFIC and not under BFIC's control.

Alternative B: Additional Backup was identified as a feasible alternative because it would achieve the Project Objectives and result in the same site-wide LFG combustion limit as the Proposed Project. Compared to the Proposed Project, Alternative B would require additional construction to accommodate the installation of one additional backup flare (i.e., a total of three new flares) and result in additional adverse air quality and GHG impacts during construction. However, under Alternative B, the operational impacts would be the same as the Proposed Project because only two of the three new flares would operate concurrently at any one time and in accordance with the sitewide maximum LFG combustion limit of 33,334 scfm for all eight flares combined. Also, the maximum localized impacts of Alternative B would be the same as the Proposed Project because only two of the three new flares would operate concurrently at any one time.

Alternative C: Alternate Onsite Location was identified as a feasible alternative because it would achieve the Project Objectives and result in the same site-wide LFG combustion limit and flaring capacity as the Proposed Project. Compared to the Proposed Project. Alternative C would require additional construction that would result in additional adverse air quality and GHG impacts during construction. To install the proposed two new flares at a different location, Alternative C would involve substantially more construction when compared to the Proposed Project due to extensive work that will be needed to: 1) grade up to two acres; 2) pour multiple foundations; 3) upgrade the existing power supply which could potentially require a new, higher capacity transformer, higher voltage distribution lines, and new or upgraded switchgear; 4) install one additional blower and a new blower skid; 5) install additional piping to connect to the existing GCCS; and 6) implement enhanced wind protection measures which could involve cutting and grading to ensure that the hillsides can provide an adequate barrier if the area is prone to windspeeds exceeding 110 miles per hour.

Under Alternative C, in concept, relocating the two proposed new flares to another location could avoid clustering the emission plumes from the two new flares with the existing plumes from the three existing flares within the SCL site as a means to potentially reduce or avoid worsening the localized operational air quality impacts. However, due to multiple unpredictable factors such as wind patterns, atmospheric conditions, surface features, and topography, in practice, the actual effectiveness of locating the proposed two new flares elsewhere within the SCL site is unknown and cannot be reliably forecasted to confirm whether the intended benefits would actually occur.

Despite these aforementioned uncertainties, even if Alternative C results in fewer maximum localized impacts during operation when compared to the Proposed Project, the localized impacts of the Proposed Project are already at less than significant levels. Meanwhile, Alternative C is expected to generate larger quantities of construction-related GHG emissions than the Proposed Project due to the increased construction activities required. As a result, Alternative C would worsen the potentially significant GHG impacts associated with the Proposed Project. **Thus, when compared to the alternatives, the Proposed Project provides the best balance in achieving the project objectives while minimizing the significant adverse environmental impacts to air quality and GHGs.**

CHAPTER 6

REFERENCES

References

The 1999 Final SEIR (State Clearinghouse No. 92041053), upon which this Final SEIR relies, is incorporated by reference pursuant to CEQA Guidelines Section 15150 and is available from the South Coast AQMD website at:

> **December 1999 Final SEIR for Sunshine Canyon Landfill:**
> https://www.aqmd.gov/home/research/documents-reports/lead-agency-permit-projects

California Air Pollution Control Officers Association (CAPCOA), 2024. CalEEMod. California Emissions Estimator Model. Version 2022.1.1.29. November 13. Available: https://www.caleemod.com/. Last accessed December 2024.

California Air Resources Board (CARB).2017. Final Short-Lived Climate Pollution Reduction Strategy. Available: https://ww2.arb.ca.gov/resources/documents/slcp-strategy-final. Last accessed September 2025.

California Air Resources Board (CARB). 2017b. *California's 2017 Climate Change Scoping Plan*. November. Available: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf. Last accessed September 2025.

California Air Resources Board (CARB). 2017c. *California State Plan for Municipal Solid Waste Landfills*. Under Clean Air Act Section 111 (d). Available: https://ww2.arb.ca.gov/sites/default/files/2020-08/CaStatePlan_final.pdf. Last accessed September 2025.

California Air Resources Board (CARB). 2022. *2022 Scoping Plan for Achieving Carbon Neutrality*. December. Available: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf. Last accessed September 2025.

California Air Resources Board (CARB), 2022a. HARP Air Dispersion Modeling and Risk Tool (dated 22118). Available: https://ww2.arb.ca.gov/resources/documents/harp-air-dispersion-modeling-and-risk-tool. Last accessed September 2025.

California Air Resources Board (CARB). 2023. Current California GHG Emission Inventory Data. 2000-2021 GHG Inventory (2023 Edition). Available: https://ww2.arb.ca.gov/ghg-inventory-data. Last accessed August 2024.

California Air Resources Board (CARB), 2024. Table of Ambient Air Quality Standards. Available: https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf. Accessed December 2024.

California Air Resources Board (CARB). 2025. Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. Available: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable01072025v2.pdf. Accessed January 2025.

California Department of Transportation (Caltrans), 2024. District 7 Current Projects. Available: https://dot.ca.gov/caltrans-near-me/district-7. Accessed October 2024.

California Environmental Protection Agency (CalEPA), 2006. Climate Action Team Report to Governor Schwarzenegger and the Legislature. Available: https://planning.lacity.gov/eir/8150Sunset/References/4.E.%20Greenhouse%20Gas%20Emissions/GHG.23_CalEPA%202006%20Report%20to%20Governor.pdf. Accessed August 2024.

California Office of Land Use and Climate Innovation, 2024. CEQAnet Web Portal. California Environmental Quality Act. Available: https://ceqanet.lci.ca.gov/. Accessed October 2024.

California Public Utilities Commission (CPUC), 2024. California Environmental Quality Act (CEQA). Current Projects. Available: https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/infrastructure/permitting-and-environmental-review/current-projects. Accessed October 2024.

City of Los Angeles, 1992. *Air Quality Element. An Element of the General Plan of the City of Los Angeles*. Department of City Planning. November 24. Available: https://planning.lacity.gov/odocument/0ff9a9b0-0adf-49b4-8e07-0c16feea70bc/Air_Quality_Element.pdf. Accessed March 2025.

City of Los Angeles. 2019. *L.A.'s Green New Deal, Sustainable City pLAn*. Available: https://plan.lamayor.org/. Accessed January 2025.

City of Los Angeles, 2024. Los Angeles City Planning. Environmental Review. Published Documents. Available: https://planning.lacity.gov/project-review/environmental-review/published-documents. Accessed October 2024.

City of Los Angeles Planning Department and Los Angeles County Department of Regional Planning, 2017. *Sunshine Canyon VOC and Carbonyl Monitoring Report*. Prepared by Sonoma Technology, Inc. Available: https://planning.lacity.gov/odocument/159b1a1b-2f6f-4390-bed1-305d8a4fa699/VOC_Carbonyl_2017.pdf. Accessed December 2024.

City of Los Angeles Planning Department and Los Angeles County Department of Regional Planning, 2024. *Sixteenth Annual Report of Ambient Air Quality Monitoring at Sunshine Canyon Landfill and Van Gogh Elementary School: A Sixteen–Year Summary; November 22, 2007–November 21, 2023*. April. Prepared by Sonoma Technology, Inc. Available: https://planning.lacity.gov/odocument/c6d82173-fa52-435c-8e49-2ac8330f2071/STI%20-%2016th%20Annual%20Report%20Nov%202007-Nov%202023.pdf. Accessed December 2024.

City of Santa Clarita, 2024. Planning Division. Environmental Documents. Available: https://santaclarita.gov/planning/environmental-documents/. Accessed October 2024.

Climate Watch, 2024. Data Explorer. Historical Emissions. Available: https://www.climatewatchdata.org/data-explorer/historical-emissions?historical-emissions-data-sources=climate-watch&historical-emissions-end_year=2021&historical-emissions-gases=all-ghg&historical-emissions-regions=All%20Selected&historical-emissions-sectors=total-including-lucf%2Ctotal-including-lucf&historical-emissions-start_year=1990&page=1. Accessed August 2024.

IPCC, 2007. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 996 pp. Available: https://www.ipcc.ch/site/assets/uploads/2018/05/ar4_wg1_full_report-1.pdf. Accessed August 2024.

IPCC, 2023. Summary for Policymakers. In: *Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland, pp. 1-34, doi: 10.59327/IPCC/AR6-9789291691647.001. Available: https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_SPM.pdf. Accessed August 2024.

Los Angeles County, 2024. *Los Angeles County General Plan 2035.* Originally Adopted October 6, 2015. Available: https://planning.lacounty.gov/long-range-planning/general-plan/general-plan-elements/. Accessed March 2025.

Los Angeles County, 2024a. *2045 Climate Action Plan*. Available: https://planning.lacounty.gov/long-range-planning/climate-action-plan/. Accessed March 2025.

Los Angeles County, 2024b. LA County Planning. Environmental Review. CEQA Documents. Available: https://planning.lacounty.gov/environmental-review/ceqa/. Accessed October 2024.

Los Angeles Department of Water and Power (LADWP), 2024. Environmental Reports. Available: https://www.ladwp.com/reports/environmental-reports. Accessed October 2024.

Metropolitan Water District of Southern California (MWD), 2024. Environmental Documents & Public Notices. Available: https://www.mwdh2o.com/projects-in-your-community/ceqa/. Accessed October 2024.

OEHHA 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Available: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed August 2024.

Southern California Association of Governments (SCAG), 2012. *2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS): Towards a Sustainable Future*. Available: https://www.ca-ilg.org/sites/main/files/file-attachments/f2012rtpscs.pdf?1383110821. Accessed August 2024.

South Coast AQMD, 2003. South Coast AQMD Cumulative Impacts Working Group White Paper on Potential Control Strategies to Address Cumulative Impacts From Air Pollution. Appendix D, Cumulative Impact Analysis Requirements Pursuant to CEQA, p D-3. Available: http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper-appendix.pdf. Accessed January 2025.

South Coast AQMD, 2006. *Final Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds.* Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf. Last accessed April 2024

South Coast AQMD, 2008. Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans. Board Meeting Dat: December 5, 2008. Agenda No. 31. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf. Accessed September 2024.

South Coast AQMD, 2009. Localized Significance Thresholds. Appendix C – Mass Rate LST Look-up Tables. https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds#appc. Accessed August 2024.

South Coast AQMD, 2021. Multiple Air Toxics Exposure Study V (MATES V). Final Report. August. Available: https://www.aqmd.gov/docs/default-source/planning/mates-v/mates-v-final-report-9-24-21.pdf. Accessed August 2024.

South Coast AQMD, 2022. *2022 Air Quality Management Plan*. December 2. Available: https://www.aqmd.gov/home/air-quality/air-quality-management-plans/air-quality-mgt-plan. Accessed July 2024.

South Coast AQMD, 2023. South Coast AQMD Air Quality Significance Thresholds. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf. Accessed August 2024.

South Coast AQMD, 2024. Community Investigations. Sunshine Canyon Landfill. Odor Complaints and Public Nuisance Violations. Available: https://www.aqmd.gov/home/news-events/community-investigations/sunshine-canyon-landfill/odor-complaints. Accessed July 2024.

South Coast AQMD, 2024a. Health Risk Assessment Tool and AERMOD-Ready Meteorological Data Files. Available: https://www.aqmd.gov/assets/aermet/AERMET_files_And_HRA_Tool.html. Accessed December 2024.

South Coast AQMD, 2024b. Historical Data by Year. 2021, 2022, and 2023 Air Quality Data Tables. Available: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year. Accessed June 16, 2024.

South Coast AQMD, 2024c. South Coast AQMD Modeling Guidance for AERMOD. Available: https://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance. Accessed December 2024.

South Coast AQMD, 2024d. *AB 2588 and Rule 1402 Supplemental Guidelines (Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act)*. Available: https://www.aqmd.gov/docs/default-source/planning/risk-assessment/forms-and-guidelines/ab-2588-supplemental-guidelines-2024.pdf. Accessed August 2024.

Sunshine Canyon Landfill Community Advisory Committee, 2022. *Sunshine Canyon Landfill Community Advisory Committee Review Report and Health Risk Assessment*. Prepared by ECORP Consulting, Inc. Available: https://pw.lacounty.gov/epd/tf/Attachments/Minutes_Attachments/2023_Attachments/FPRS-SCL-Health_Risk_Assessment_Report_Staff_Report.pdf. Accessed December 2024.

U.S. Environmental Protection Agency (U.S. EPA), 1998. *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)*. Section 1.4, Natural Gas Combustion. Available: https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf. Accessed May 2024.

U.S. Environmental Protection Agency (U.S.EPA), 2006. *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42).* Section 13.2.2, Unpaved Roads. Available: https://www.epa.gov/sites/default/files/2020-10/documents/13.2.2_unpaved_roads.pdf. Accessed December 2024.

U.S. Environmental Protection Agency (U.S. EPA), 2024. NAAQS Table. Primary standards. Available: https://www.epa.gov/criteria-air-pollutants/naaqs-table. Accessed December 2024.

U.S. Environmental Protection Agency (U.S.EPA), 2024a. *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)*. Section 2.4, Municipal Solid Waste Landfills. Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final.pdf. Accessed December 2024.

U.S. Environmental Protection Agency (U.S. EPA), 2024b. Basic Information about Landfill Gas. Available: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024.

U.S. Environmental Protection Agency (U.S. EPA), 2024c. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022. Available: https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks-1990-2022. Accessed August 2024.

U.S. Environmental Protection Agency (U.S. EPA), 2024d. Support Center for Regulatory Atmospheric Modeling (SCRAM). Air Quality Dispersion Modeling - Preferred and Recommended Models. AERMOD Modeling System. Version 24142. Available: https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models#aermod. Accessed December 2024.

U.S. Environmental Protection Agency (U.S. EPA), 2024e. Landfill Methane Outreach Program (LMOP). Available: https://www.epa.gov/lmop/about-landfill-methane-outreach-program. Accessed August 2024.

CHAPTER 7

ACRONYMS

Acronyms

AAQS	Ambient air quality standard
AB	Assembly Bill
AN	Application number
AQ	Air Quality
AQIA	Air quality impact analysis
AQMD	South Coast Air Quality Management District
AQMP	Air quality management plan
ARB	California Air Resources Board
ATCM	Airborne toxic control measure
BACT	Best Available Control Technology
BFIC	Browning-Ferris Industries of California, Inc.
Btu	British thermal unit(s)
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH4	Methane
CO	Carbon monoxide
COHb	Carboxyhemoglobin
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
CPUC	California Public Utilities Commission
CUP	Conditional use permit
DHS	Department of Health Care Services
DPM	Diesel particulate matter
EIR	Environmental Impact Report
EJ	Environmental Justice
EJAG	Environmental Justice Advisory Group
EO	Executive Order
EPA	U.S Environmental Protection Agency
°F	Degrees Fahrenheit
FY	Fiscal year
GCCS	Landfill gas collection and control system
GHG	Greenhouse gas
GHGRP	Greenhouse Gas Reporting Program
GWP	Global warming potential
HAP	Hazardous air pollutant
HFC	Hydrofluorocarbon
HHDT	Heavy heavy-duty diesel trucks
HHV	Higher heating value

HI	Hazard Index
HOV	High occupancy vehicle
hp	Horsepower
HRA	Health risk assessment
HSC	California Health and Safety Code
ID	Identification
IPCC	Intergovernmental Panel on Climate Change
KBUR	Hollywood Burbank Airport meteorological station
KVNY	Van Nuys Airport meteorological station
LA	Los Angeles
LAAFP	Los Angeles Aqueduct Filtration Plant
LACFD	Los Angeles County Fire Department
LADWP	Los Angeles Department of Water and Power
lb/hr	Pounds per hour
lb/yr	Pounds per year
LCFS	Low Carbon Fuel Standard
LEA	Local Enforcement Agency
LFG	Landfill gas
LFGTE	Landfill gas-to-energy
LHV	Lower heating value
LMR	California Landfill Methane Regulation
LRA	Local Responsibility Area
LST	Localized Significance Thresholds
MATES	Multiple Air Toxics Exposure Study
MDL	Method detection limit
mg/m3	Milligrams per cubic meter
MMBtu	Million British thermal units
MMscf	Million standard cubic feet
MMRS	Mitigation, Monitoring and Reporting Summary
MST	Major source thresholds
MSW	Municipal solid waste
m/s	Meters per second
MT	Metric ton(s)
MTCO2e	Metric tons of carbon dioxide equivalent
MT/MMscf	Metric tons per million standard cubic feet
MT/yr	Metric tons per year
MW	Megawatt
MWD	Metropolitan Water District of Southern California
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NMOC	Non-methane organic compounds
NO	Nitric oxide
NOC	Notice of Completion
NOV	Notice of Violation
NOx	Nitrogen oxides
NO2	Nitrogen dioxide
NQ	Not quantified
NSPS	New Source Performance Standard
N2O	Nitrous oxide

OEHHA	Office of Environmental Health Hazard Assessment
OPR	Office of Planning and Research
O3	Ozone
Pb	Lead
PCPCMP	Preliminary Closure and Post-Closure Maintenance Plan
PM10	Particulate matter less than 10 microns in diameter
PM2.5	Particulate matter less than 2.5 microns in diameter
P/O	Permit to operate
ppb	Parts per billion
ppm	Parts per million
PSD	Prevention of significant deterioration
RECLAIM	Regional Clean Air Incentives Market
ROG	Reactive organic gas
PVC	Polyvinyl chloride
REL	Reference exposure level
RWQCB	Regional Water Quality Control Board
SB	Senate bill
South Coast AQMD	South Coast Air Quality Management District
scfm	Standard cubic feet per minute
SCH	State Clearinghouse
SCL	Sunshine Canyon Landfill
SCL-LEA	Sunshine Canyon Landfill Local Enforcement Agency
SCLR	Santa Clarita meteorological station
SEIR	Subsequent Environmental Impact Report
SF6	Sulfur hexafluoride
SGP	Sunshine Gas Producers, LLC
SIP	State Implementation Plan
SLCP	Short-Lived Climate Pollutant
SOA	Stipulated Order for Abatement
SOx	Sulfur oxides
SO2	Sulfur dioxide
SR	State Route
SRA	Source-Receptor Area
SWFP	Solid waste facility permit
SWMP	Site waste management plan
SWRCB	State Water Resources Control Board
TAC	Toxic air contaminant
µg/m3	Micrograms per cubic meter
VOC	Volatile organic compounds
ZEV	Zero-emission vehicle
ZULE	Zink Ultra-Low Emissions

APPENDICES

Appendix A: SCL's 2018 Title V Permit

Appendix B: Current SCL Mitigation, Monitoring and Reporting Summary

Appendix C: Operational Emission Calculations

Appendix D: Construction Emission Calculations

Appendix E: Air Quality Impact Analysis and Health Risk Assessment Technical Report

Appendix F: Comment Letters Received on the Draft SEIR and Responses to Comments

APPENDIX A

SCL's 2018 Title V Permit

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Title Page
Facility ID: 049111
Revision #: 14
Date: May 15, 2018

FACILITY PERMIT TO OPERATE

SUNSHINE CYN LANDFILL REPUBLIC SERV INC
14747 SAN FERNANDO RD
SYLMAR, CA 91342

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Wayne Nastri
Executive Officer

By For
Laki Tisopulos, Ph.D., P.E.
Deputy Executive Officer
Engineering and Permitting

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Table of Content
Facility ID: 049111
Revision #: 14
Date: ~~May 15, 2018~~

FACILITY PERMIT TO OPERATE
SUNSHINE CYN LANDFILL REPUBLIC SERV INC

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C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	10	02/14/2018
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F	RECLAIM Monitoring and Source Testing Requirements	2	04/26/2017
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	2	04/26/2017
H	Permit To Construct and Temporary Permit to Operate	3	04/26/2017
I	Compliance Plans & Schedules	6	05/15/2018
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South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Section A Page: 1
Facility ID: 049111
Revision #: 9
Date: **February 14, 2018**

FACILITY PERMIT TO OPERATE
SUNSHINE CYN LANDFILL REPUBLIC SERV INC

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: SUNSHINE CYN LANDFILL REPUBLIC SERV INC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 14747 SAN FERNANDO RD
SYLMAR, CA 91342

MAILING ADDRESS: 14747 SAN FERNANDO RD
SYLMAR, CA 91342

RESPONSIBLE OFFICIAL: CHRISTOPHER COYLE

TITLE: GENERAL MANAGER

TELEPHONE NUMBER: (818) 362-2141

CONTACT PERSON: JOSHUA MILLS

TITLE: ENVIRONMENTAL MANAGER

TELEPHONE NUMBER: (818) 362-2154

TITLE V PERMIT ISSUED: April 26, 2017

TITLE V PERMIT EXPIRATION DATE: April 25, 2022

TITLE V	RECLAIM	
YES	NOx:	NO
	SOx:	NO
	CYCLE:	0
	ZONE:	COASTAL

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Section B	Page: 1
Facility ID:	049111
Revision #:	2
Date:	April 26, 2017

FACILITY PERMIT TO OPERATE
SUNSHINE CYN LANDFILL REPUBLIC SERV INC

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Section C	Page: 1
Facility ID:	049111
Revision #:	2
Date:	April 26, 2017

FACILITY PERMIT TO OPERATE
SUNSHINE CYN LANDFILL REPUBLIC SERV INC

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

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Facility Equipment and Requirements
(Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct/Operate and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

The following is a list of all Permits to Construct/Operate and Permits to Operate at this facility:

Application No.	Permit No.	Equipment Description	Page
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586639	G46227	IC Engine (>500 HP) Portable Emergency Elec. Gen Diesel	43
587827	G50664	IC Engine (50-500 HP) Portable Landfill Tipper LPG/Propane	45
587828	G50663	IC Engine (50-500 HP) Portable Emergency Elec. Gen Diesel	47
594294	G48118	IC Engine (50-500 HP) Portable Landfill Tipper Diesel	49
596479	G50665	IC Engine (50-500 HP) Portable Landfill Tipper Diesel	51

NOTE: Permits to Construct (if any) are listed in Section H of this facility permit. Any other applications that are still being processed and have not been issued Permits to Construct or Permits to Operate will not be found in this Title V Permit.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:
   A. As dark or darker in shade as that designated no. 1 on the Ringlemann chart, as published by the United States Bureau of Mines; or
   B. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (A) of this condition.
   [Rule 401]

2. The operator shall not purchase fuel oil containing sulfur compounds in excess of 500 ppm by weight. On or after June 1, 2004, the operator shall not purchase fuel oil containing sulfur compounds in excess of 15 ppm by weight.
   [Rule 431.2]

3. The owner/operator of a MSW landfill shall comply with the following:
   A. Install and operate a wind speed and direction monitoring system with a continuous recorder. For wind speed, use a 3 cup assembly with a range of 0 to 50 miles an hour, with a threshold of 0.75 mile per hour or less. For wind direction, use a vane with a range of 0 to 540 degrees azimuth, with a threshold of plus-minus 2 degrees. An approved alternative may be used in lieu of the above.

   B. Monitor and collect monthly, or as per the approved Rule 1150.1 alternative, samples for analysis of TOC and TAC from the subsurface refuse boundary sampling probes.

   C. Operate the gas collection and control system to prevent the concentration of TOC measured as methane from exceeding 5% by volume in the subsurface refuse boundary sampling probes.

   D. Collect monthly, or as per the approved Rule 1150.1 alternative, integrated samples for analysis of TOC and TAC from the landfill surface.

   E. Operate the gas collection and control system to prevent the concentration of TOC measured as methane from exceeding 25 ppmv as determined by integrated samples taken on numbered 50,000 square foot landfill grids or as per the approved Rule 1150.1 alternative.

   F. Monitor quarterly, or as per the approved Rule 1150.1 alternative, the landfill surface for TOC.

   G. Operate the gas collection and control system to prevent the concentration of TOC measured as methane from exceeding 500 ppmv above background as determined by instantaneous monitoring at any location on the landfill, except at the outlet of any control device.

   H. Operate the gas collection and control system so that there are no leaks that exceed 500 ppmv TOC measured as methane at any component under positive pressure.

   I. Collect monthly, or as per the approved Rule 1150.1 alternative, landfill gas samples for analysis of TOC and TAC from the main gas collection header line entering the gas treatment and/or gas control system.

   J. Collect monthly, or as per the approved Rule 1150.1 alternative, ambient air samples for analysis of TOC and TAC from the landfill property boundary.

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K. Operate the gas collection and control system at all times for landfills with active collection systems.

L. Operate all wellheads so the gauge pressure is under a constant vacuum, except during well head raising and/or repair and temporary shutdown due to a catastrophic event.

[Rule 1150.1]

4. The owner/operator of a MSW landfill shall comply with the following:

A. Operate the collection system such that the gas is collected from each area, cell or group of cells of the landfill in which the initial solid waste has been in place for a period of;

1. 5 years or more if active; or
2. 2 years or more if closed or at final grade

B. Operate the collection system with negative pressure at each well-head except under the following conditions:

1. During a fire or increased well temperature – the owner/operator shall record the instances when positive pressure occurs in efforts to prevent a fire. This report shall be submitted with the annual reports as provided in §60.757(f)(1).
2. Whenever a geomembrane or synthetic cover is in place- the owner/operator shall develop acceptable pressure limits in the design plan.
3. When a well is decommissioned – a well may experience a static positive pressure after shut down to accommodate for declining flows.

C. Operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees Celsius and with either a nitrogen level less than 20% or an oxygen level less than 5% as determined by methods described in §60.753(c).

D. Operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill as determined in accordance with monitoring procedures specified in §60.753 and 60.754.

E. Operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with §60.752(b)(2)(iii).

F. Operate the collection and control system in compliance with test methods and procedures of §60.754.

G. Operate the collection and control system in compliance with compliance provisions of §60.755.

H. Operate the collection and control system in compliance with monitoring procedures of §60.756.

I. Operate the collection and control system in compliance with reporting requirements of §60.757.

J. Operate the collection and control system in compliance with record keeping requirements of §60.758.

[Gaseous emissions: 40 CFR 60 Subpart WWW]

5. The operator shall comply with all applicable mitigation measures stipulated in the subsequent Environmental Impact Report dated December 1999.
[CA PRC CEQA, 11-23-1970]

6. The operator shall comply with all of the conditions set forth in the findings and decision for an Order for Abatement (stipulated) dated January 11, 2017 and its subsequent amendments.
[Rule 3004(a)(10)(c)]

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7. Total carbon monoxide (CO) emissions from the combustion of landfill gas at this facility shall not exceed 520.0 lbs/day per the Environmental Impact Report dated June 1998. Records of daily LFG usage for each flare and total CO emission calculations for the facility based on the equation shown below shall be kept and maintained for at least 5 years.

CO Emission Calculation (for each flare)
Daily LFG Usage (scf/day) x Higher Heating Value of LFG* (MMBtu/scf) x Emission Factor** (lbs/MMBtu) ≤ 520.0 lbs/day of CO

**Weekly LFG heating value analysis per flares permit conditions.*
*** The emission factor for each flare shall be determined from the most recent flare source test. The emission factor for Flare 11 is 0.06 lbs/MMBtu until a source test report for Flare 11 is available.*
[CA PRC CEQA, 11-23-1970]

8. Total sulfur oxide (SOx) emissions from the combustion of landfill gas at this facility shall not exceed 535.0 lbs/day per the Environmental Impact Report dated June 1998. Records of daily LFG usage for each flare and total SOx emission calculations for the facility based on the equation shown below shall be kept and maintained for at least 5 years.

SOx Emission Calculation (for each flare)
Daily LFG Usage (scf/day) x Total Sulfur Content at Flare Inlet* (ppmv/10^6) x 0.169 lbs/ft^3 ≤ 535.0 lb/day SOx

**Most recent LFG sulfur content analysis at the inlet to the flare shall be used for this calculation.*
[CA PRC CEQA, 11-23-1970]

9. Total volatile organic compounds (VOC) emissions from the combustion of landfill gas at this facility shall not exceed 125.0 lbs/day per the Environmental Impact Report dated June 1998.
[CA PRC CEQA, 11-23-1970]

10. The total landfill gas combusted at this facility and the equipment operating at the Sunshine Gas Producers shall not exceed 16,100 standard cubic feet per minute, calculated at 50% methane concentration in landfill gas over a 24-hour period per the Environmental Impact Report dated April 2012. The owner or operator shall maintain adequate records to demonstrate compliance with this condition.
[CA PRC CEQA, 11-23-1970]

11. Continuous operation of monitoring systems not subject to Rule 218 are not required when necessary calibration, maintenance or repair activities are performed in accordance with manufacturer's recommendation. The operator shall take all reasonable actions to minimize the time required to perform such activities. In no event shall any such activities exceed 96 consecutive hours for any one calibration, maintenance, or repair episode. The operator shall notify the Executive Officer within 24 hours of the start of a calibration, maintenance, or repair activity, if the activity is expected to last more than 24 consecutive hours.
[Rule 204]

12. Until a revised Rule 431.1 Alternative Monitoring Plan is approved, any flares not listed in the existing Rule 431.1 Alternative Monitoring Plan (A/N 291681) shall follow the monitoring schedule for Flare No. 3 to demonstrate compliance with Rule 431.1.
[Rule 431.1]

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Permit No. G6687
A/N 501513

Equipment Description:

Landfill Leachate/Condensate Collection and Treatment System Consisting of:

1. Influent Storage Tank, leachate/condensate, 8,000 gallons, vented to a vapor adsorber with 200 lbs of activated carbon.

2. Two Emergency Storage Tanks, leachate/condensate, each 10,000 gallons, vented to a vapor adsorber with 200 lbs of activated carbon.

3. Three Particulate Filters, leachate/condensate, each 30 GPM.

4. Three Carbon Adsorbers, liquid phase, in series, each 2,000 lbs of granular activated carbon.

5. One Storage Tank, sodium hypochlorite, 500 gallons.

6. Storage/Surge Tank, effluent, 5,000 gallons, 10'-0" Dia. x 12'-0" H.

Conditions:

1. Construction and operation of this equipment shall be conducted in compliance with all data and specifications submitted with this application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]

4. This equipment shall be equipped with solid covers with all openings sealed to prevent vapors from releasing into the atmosphere. Any gaging, sampling and leak detection device shall be covered and sealed at all times except when the device is in actual use.
[Rule 1303(a)(1)-BACT]

5. This equipment shall not be operated unless all vents or exhausts are directed to a carbon adsorber.
[Rule 1303(a)(1)-BACT]

7. A flow totalizer shall be installed at the influent feed line and at the effluent discharge line to indicate the total amount (in gallons) of leachate/condensate treated by this system.
[Rule 1303(b)(2)-Offset]

8. The amount of leachate/condensate fed to each treatment system shall be recorded in a log book on a daily basis.
[Rule 1303(b)(2)-Offset]

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9. The total amount of condensate/leachate treated (in the treatment system) shall not exceed 57,600 gallons per day.
[Rule 1303(b)(2)-Offset]

10. The operation of this equipment shall not result in the discharge of untreated, odorous liquid into the atmosphere.
[Rule 402]

11. Any liquid used for dust control or other purposes shall be odorless, shall not contain total volatile organic compounds in excess of 45 ug/L and shall be monitored and recorded monthly.
[Rule 402]

12. All records shall be kept for a period of at least five years and made available to SCAQMD personnel upon request.
[Rule 1150.1, 1303(b)(2)-Offset]

13. Total organic compound (TOC) emissions from the outlet of the vapor adsorbers for the influent and the emergency storage tanks shall be measured at least once a month.
[Rule 204]

14. Total organic compound (TOC) emissions from the outlet of any of the vapor adsorbers shall not exceed 50 ppm as methane.
[Rule 204]

15. All condensate valves, and openings shall be properly sealed or closed to prevent raw condensate vapors from entering into the atmosphere.
[Rule 204]

16. The operator shall replace the carbon in the vapor adsorbers with fresh carbon when the emissions at the exhaust of the vapor adsorbers exceed the limit in Condition No. 14. Records of the date of replacement and TOC readings before and after carbon replacement shall be maintained and kept on file.
[Rule 204]

17. Spent carbon removed from the vapor adsorbers shall be stored in closed containers prior to disposal or regeneration.
[Rule 204]

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Permit No. G45944
A/N 526972

Equipment Description:

Landfill Gas Flare No. 9 consisting of:

1. One (1) Skid Mounted HDPE Moisture Separator, ZMS, with demister pad element for moisture collection (common to A/N 541300 & 570952).

2. Four (4) Landfill Gas Extraction Blowers (one stand-by), Gardner Denver, Model No. 1266, max air flow 5,000 scfm each, venting landfill gas from collection wells and trenches (common to A/N 541300 & 570952).

3. Three (3) Landfill Gas Blower Variable Flow Devices with pressure transmitter for variable flow device vacuum control (common to A/N 541300 & 570952).

4. One (1) Combustion Air Blower Variable Flow Device.

5. Two (2) Thermal Mass Flow Meters, insertion type, one each for landfill gas flow and combustion air flow.

6. One (1) Flare Inlet Flame Arrestor, Enardo, 10" Dia.

7. Enclosed A-36 Carbon Steel Flare, John Zink, Model ZULE, 13' Dia. x 50' H., rated at 5,000 scfm capacity, 152 MMBtu/hr with a flame arrestor, two combustion air dampers, and flare alarm system.

8. Automated Ignition System, one (1) self-checking ultraviolet flare scanner, one (1) high temperature shutdown thermocouple, three (3) burner thermocouples, four (4) flare temperature monitoring thermocouples at different elevations, ignition transformer, and two 5 gallon capacity propane tanks.

Conditions:

1. Construction and operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]

4. A set of four sampling ports shall be installed in the flare shroud and located at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud. Each port shall consist of a four-inch coupling with plug. Adequate and safe access to all source test ports shall be provided within 24 hours of a request by SCAQMD to conduct a test.
[Rule 217]

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5. A sampling port shall be maintained at the inlet gas line to the flare to allow landfill gas sampling and flow measurement.
[Rule 217, Rule 431.1, Rule 1150.1]

6. The flare shall be equipped with a continuous temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The thermocouple used to measure the temperature shall be at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.
[Rule 1150.1, Rule 1303(a)(1)-BACT, 40 CFR 60.756(b)(1)]

7. Whenever the flare is in operation, a temperature of not less than 1,600 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.
[Rule 1303(a)(1)-BACT]

8. The skin temperature of the flare shroud within four feet of all the source test ports shall not exceed 250 degrees Fahrenheit. If a heat shield is required to meet this requirement, its design shall be approved by SCAQMD prior to construction. The heat shield, if required to meet the temperature requirement, shall be in place whenever a source test is conducted by SCAQMD.
[Rule 217]

9. A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flame within the flare at all times. Permanent and safe access shall be provided for all sight glass windows.
[Rule 217, Rule 1303(a)(1)-BACT]

10. A flow indicator and recorder shall be maintained in the landfill gas supply line to the flare to measure and record the gas flow rate (in scfm) to the flare at least every fifteen minutes and shall operate whenever the flare is in operation.
[Rule 1150.1, Rule 1303(b)(2)-Offset, 40 CFR 60.756(b)(2)(i)]

11. Emissions resulting from the flare shall not exceed the following:

Pollutant	lbs/hr
CO	9.12
NOx	3.80
PM10	1.50
ROG	0.91
SOx as SO2	7.60

[Rule 1303(a)(1) -BACT, Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1401]

12. The owner or operator shall conduct a source test annually or per the approved Rule 1150.1 Compliance Plan. The test shall be performed in accordance with SCAQMD approved test procedures and written test results shall be furnished to SCAQMD within 60 days after testing. Written notice of the test shall be provided to SCAQMD thirty days prior to the testing so that an observer may be present. In addition to the test requirements of Rule 1150.1 and the approved Rule 1150.1 Compliance Plan for non-methane organic compounds and toxic compounds, the test shall include, but may not be limited to, a test of the flare for:

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A. Landfill Gas Composition and Heating Value (inlet)
B. Landfill Gas Flow Rate, scfm (inlet)
C. Total Sulfur Compounds as H2S, ppmv (inlet)
D. Temperature, degrees Fahrenheit (exhaust)
E. Flow Rate, dscfm (exhaust)
F. NOx, lbs/hr (exhaust)
G. SOx, lbs/hr (exhaust)
H. CO, lbs/hr (exhaust)
I. Total Particulates, lbs/hr (exhaust)
J. Oxygen and Carbon Dioxide
K. Rule 1150.1 Compounds (core list, inlet/exhaust)

The test shall be conducted at the maximum flow rate available at the time of the test but not to exceed the flow rate allowed by this permit.
[Rule 204, Rule 1303(b)(2)-Offset, Rule 3004(a)(4)-Periodic Monitoring, Rule 1150.1, 40 CFR 60 Subpart WWW]

13. The flare shall be equipped with an automatic shut-down system with a failure alarm, which has been approved by SCAQMD, to automatically isolate the flare from the landfill gas supply line, shut off the blower and immediately notify a responsible party of the shut-down.
[Rule 1303(a)(1)-BACT]

14. The destruction efficiency for methane shall be at least 99% on the basis of mass of methane entering the flare.
[Rule 1150.1]

15. The automatic shutdown safety system shall be tested monthly for proper operation of this flare and the results recorded.
[Rule 1303(a)(1)-BACT]

16. The following flare failure alarms which shall include an automatic notification system, an automatic blower and a landfill gas supply valve shut-off system approved by SCAQMD, shall be maintained and tested every six months for proper operation and the results recorded:

A. Flare Flame Out
B. Low Flare Stack Temperature
C. High Flare Stack Temperature
D. Excessive Vibration
E. Low Blower Discharge Pressure.
[Rule 1303(a)(1)-BACT]

17. A pressure sensing device with an automatic blower shut off system shall be maintained in the blower discharge line to detect pressure drop due to landfill gas leaks and shall be tested every six months for proper operation and the results recorded.
[Rule 1303(a)(1)-BACT]

18. A pressure differential indicator shall be maintained across the particulate filter.
[Rule 1303(a)(1)-BACT]

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19. A pressure differential indicator shall be maintained across the flame arrestor.
[Rule 1303(a)(1)-BACT]

20. Landfill gas entering the flare shall be analyzed weekly for heating value and methane concentration. Results shall be recorded and provided to SCAQMD upon request.
[Rule 1303(b)(2)-Offset]

21. The maximum weekly heat input rate to flare shall not exceed 152.0 MMBtu per hour. A log shall be kept indicating the total heating value of landfill gas burned in each flare based on the recorded flow rate (scfm) and the latest weekly BTU content (BTU/scf) reading.
[Rule 1303(b)(1) and (b)(2)–Modeling and Offset, Rule 1401]

22. All recording devices shall be synchronized with respect to the time of day.
[Rule 1303(b)(2)-Offset]

23. All records shall be kept for a period of at least five years and shall be made available to SCAQMD upon request. A record of the hours of flare operation shall be included.
[Rule 1150.1, Rule 1303(b)(2)-Offset]

24. Operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction of this equipment resulting in the emission of raw landfill gas shall be reported to SCAQMD within twenty four hours after occurrence and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.
[Rule 430]

25. The applicant shall conduct a gas leak detection program with a combustible detector calibrated for methane by inspecting the blowers and all equipment downstream of the blowers. This inspection program shall be conducted once a month. All leaks detected above 500 ppm shall be reported to SCAQMD within 24 hours of detection and repaired within 3 working days of detection. A log showing the results of each inspection shall be maintained and shall be available to SCAQMD personnel upon request.
[Rule 1303(a)(1)-BACT, Rule 402]

26. The exhaust temperature shall be maintained at a minimum of 1,600 degrees Fahrenheit (for all flares) averaged over 15-minute period whenever the equipment is in operation, excluding start up and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.

Each flare shall be equipped with a continuous exhaust temperature monitoring and recording system pursuant to the operation and maintenance requirements specified in 40 CFR 64.7 and the recording system shall be in operation when the flare is operating. Such a system shall have an accuracy of within ± 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable SCAQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a 15-minute average temperature of less than 1,600 degrees Fahrenheit occurs during operation excluding start up and shutdown. The exhaust temperature shall be recorded at least once in every 15-minute period. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.

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For each semi-annual reporting period specified in Condition No. 23 in Section K, whenever an deviation occurs from 1,600 degrees Fahrenheit, the operator shall take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8 to SCAQMD if an accumulation of deviation exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to SCAQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to SCAQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR 64.9 for a minimum of five years. [40 CFR 64]

Emissions and Requirements:

27. This equipment is subject to the applicable requirements of the following rules and regulations:

NMOC:	20 ppmv or 98% weight reduction, Rule 1150.1, 40 CFR 60 Subpart WWW, 40 CFR 63 Subpart AAAA
CO:	2000 ppmv, Rule 407
NOx	0.025 lb/MMBtu, Rule 1303 - BACT/LAER
SOx as H2S:	150 ppmv in inlet (Rule 431.1)
PM10:	5 lbs/MMscf, Rule 1303 - BACT/LAER
PM:	0.1 gr/dscf, Rule 409
PM:	Rule 404, See Appendix B for emission limits
VOC:	0.006 lb/MMBtu, Rule 1303 – BACT/LAER
CO:	0.06 lb/MMBtu, Rule 1303 – BACT/LAER

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Permit No. G48117
A/N 530155

Equipment Description:

Landfill Gas Collection System consisting of:

1. City North: (year 1956 start)
   - A. Nineteen (19) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Four (4) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

2. City South: (year 1958 estimated start)
   - A. One hundred twenty-two (122) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. One (1) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

3. Cell A: (year 2005 estimated start)
   - A. One hundred seventy-four (174) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Forty-one (41) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

4. Cell CC-1: (year 2009 estimated start)
   - A. Fourteen (14) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Thirteen (13) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

5. Cell CC-2: (year 2011 estimated start)
   - A. Fifty (50) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Thirty-three (33) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

6. Cell CC-3: (year 2012 estimated start)
   - A. Fifty-six (56) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Thirty-two (32) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

7. Phase I: (year 1996 estimated start)
   - A. Eighty-four (84) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Nine (9) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

8. Phase II: (year 1998 estimated start)
   - A. Seventy-four (74) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   - B. Twenty (14) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

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9. Phase III: (year 2000 estimated start)
   A. Thirty-five (35) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   B. Twenty (18) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

10. Phase IV: (year 2004 estimated start)
   A. One hundred-nine (109) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   B. Fifteen (15) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

11. Phase V: (year 2008 estimated start)
   A. Sixty-six (66) Vertical Gas Extraction Wells, ranging from 15 to 240 feet deep, 4"- 10" Dia., perforated PVC, HDPE or steel.
   B. Fifteen (15) Horizontal Gas Extraction Wells, 6" - 12" Dia., perforated HDPE.

12. Gas Transmission Header and Lateral Piping System.

13. Up to additional Five Hundred (500) Vertical Wells.

14. Up to additional One Hundred-Fifty (150) Additional Horizontal Collectors as needed. Horizontal collectors can also include, but are not limited to, collectors located under membrane covered areas (Closure Turf), leachate system connections, trench collectors, and liner collectors.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
   [Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
   [Rule 204]

3. This equipment shall be operated and maintained by personnel properly trained in its operation.
   [Rule 204]

4. During well drilling, an approved emission control box shall be placed over the well hole to collect landfill gas. The collected gas shall either be directed to an operating flare system which has a valid permit issued by SCAQMD, or vented to a carbon adsorption unit with a valid permit issued by SCAQMD and which has sufficient capacity to remove odors when there is no operational gas collection/flaring system available nearby.
   [Rule 402]

5. Well drilling, driving and/or trenching shall not be conducted between the hours of 6 P.M. and 7 A.M. or on Saturdays, Sundays or legal holidays, unless otherwise approved by SCAQMD.
   [Rule 402, Rule 1150]

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6. Well drilling, driving, and/or trenching shall not be conducted on days when SCAQMD forecasts second or third stage episodes for Area No. 13, or when SCAQMD requires companies in Area No. 13 to implement their second or third stage episode plans. Episode forecasts for the following day can be obtained by calling (800) 288-7664.
[Rule 402, Rule 1150]

7. Well drilling, driving and/or trenching shall not be conducted when the wind speed is greater than 15 m.p.h. average (over 15 minutes) or the wind speed instantaneously exceeds 25 m.p.h.
[Rule 402, Rule 403, Rule 1150]

8. The construction of any piping or well trench which exposes landfill trash to the atmosphere shall be staged such that no more than three hundred (300) linear feet of trench is exposed at any time prior to backfilling.
[Rule 402, Rule 1150]

9. Each well shall be completed and capped the same day of its construction commences unless the well hole is completely sealed and the well casing is connected to the gas collection header to prevent any landfill gas from escaping into the atmosphere.
[Rule 402, Rule 1150]

10. Well holes, trenches, and exposed landfill trash shall be completely covered to prevent any emissions of landfill gas to the atmosphere whenever work is not actively in progress. The cover shall include, but may not be limited to a minimum of 6 inches of clean dirt, approved foam, or heavy-duty plastic sheeting. Foam by itself shall not be used as a night cover if it is raining or rain is predicted by the national weather service prior to the next scheduled working day.
[Rule 402, Rule 1150.1]

11. For purposes of this permit, construction spoils are landfill trash, material that is mixed with landfill trash, material that has been in contact with landfill trash, or odorous material that is removed from well holes or trenches.
[Rule 402, Rule 403, Rule 1150]

12. Construction spoils and all working areas being actively used for truck and construction equipment trafficking shall be maintained in a moist condition to minimize dust and emissions.
[Rule 402, Rule 403, Rule 1150]

13. All construction spoils shall be transported to the active working face of the landfill within one hour of generation or as deemed necessary by SCAQMD personnel.
[Rule 402, Rule 1150]

14. During transport of the construction spoils, no material shall extend above the sides or rear of the vehicle hauling the material.
[Rule 1150]

15. The exterior of the vehicle (including the tires) hauling the construction spoils shall be cleaned off prior to leaving the working site.
[Rule 1150]

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16. If a distinct odor level (level III or greater) resulting from the construction is detected at or beyond the property line, all work shall cease until the odor sources are determined and eliminated. Odor levels shall be determined by SCAQMD personnel or on-site safety coordinator in the absence of SCAQMD personnel
[Rule 402, Rule 1150]

17. During construction, if a considerable number of complaints are received, all work shall cease and approved mitigation measures shall be implemented immediately. Work shall not resume until the emissions causing the complaints is mitigated and the approval to resume work is received from SCAQMD.
[Rule 402, Rule 1150]

18. Mitigation measures, other than those indicated in these conditions, which are deemed appropriate by SCAQMD personnel as necessary to protect the comfort, repose, health or safety of the public shall be implemented upon request.
[Rule 402, Rule 1150]

19. Each vertical and horizontal well head shall be equipped with a shut-off valve and a sampling port.
[Rule 1150.1]

20. Until connected to an operating landfill gas collection system, each completed well shall be capped and its gas control valve closed to avoid venting landfill gas to the atmosphere.
[Rule 1150, Rule 1150.1]

21. Each well shall be securely sealed to prevent any emissions of landfill gas from around the well casing
[Rule 402, Rule 1150.1]

22. All openings of this system including condensate removal equipment shall be properly covered and sealed to prevent any vapors from entering into the atmosphere.
[Rule 402, Rule 1150]

23. All gases collected by this system shall be vented to a combustion or processing facility which is in full use, can adequately process the volume of gas collected, and has been issued a valid Permit to Construct or Operate by the SCAQMD.
[Rule 1150.1, Rule 1303 (a)(1)-BACT, Rule 1401, 40CFR60 Subpart WWW]

24. The operation of this equipment shall not result in the release of any raw landfill gas or condensate into the atmosphere.
[Rule 402, Rule 1150]

25. Until connected to an operating landfill gas collection system, each completed well shall be capped and its gas control valve closed to avoid venting landfill gas to the atmosphere.
[Rule 402, Rule 1150, Rule 1150.1]

26. The operator shall comply with all applicable mitigation measures stipulated in the statement of findings, statement of overriding considerations and mitigation monitoring plan document which is part of the certified Environmental Impact Report.
[Rule 204, CA PRC CEQA, 11-23-1970]

27. The operator shall comply with all terms and conditions of the Order of Abatement issued under Hearing Board Case #3448-14 until such time the Order is no longer in effect.
[Rule 204, Regulation VIII]

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28. The applicant shall update the landfill gas collection system map referenced in the equipment description in first quarter of every year. Updates to the map shall be made to reflect the landfill gas collection system status till the end of previous year.
[Rule 204]

29. The SCAQMD shall be notified in writing at least one week in advance when an additional well or set of wells and their associated piping will be installed. The proposed well locations and connecting piping shall be identified on a drawing which shows the entire gas collection system and shall be described in writing Estimated gas collection volume, well depths, pipe lengths, diameter, and layouts shall be supplied to the SCAQMD in this notification.
[Rule 1150.1]

30. All records shall be kept for at least five years and made available to SCAQMD personnel upon request.
[Rule 204, Rule 1150.1]

Emissions and requirements:

31. This equipment is subject to the applicable requirements of the following rules and regulations:
    A. Gaseous emissions: Rule 1150.1, 40CFR60 Subpart WWW, 40CFR63 Subpart AAAA

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PERMIT TO OPERATE

Permit No. G19108
A/N 537983

Equipment Description:

Landfill Gas Flaring System No. 1, consisting of:

1. Condensate Knockout Drum, 6'-0" Dia. x 12'-0" H. seam to seam.
2. Three Blowers, one optional Lamson Model No. 862000020 GB, 40 HP, and two Gardner Denver Model No. 1405, 200 HP each.
3. Dry Scrubber, Peerless, 3'-0" Dia. x 10'-6" H.
4. Flare, McGill, Model No. EGF-125, 13'-0" Dia. x 50'-0" H. with a multi-jet burner, propane gas pilot, electric igniter, UV flame sensor, automatic shutdown and alarm system, automatic combustion air regulating system and temperature controller.
5. Landfill Gas Flow Meter and Recorder.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]
2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]
3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]
4. A continuous temperature indicator and recorder to measure and record the gas temperature (in degrees Fahrenheit) in the flare stack shall be operated whenever the flare is in operation.
[Rule1150.1, 1303(a)(1)-BACT, 40 CFR 60.756(b)(1)]
5. Whenever the flare is in operation, a temperature of not less than 1,600 degrees Fahrenheit, as monitored by the temperature indicator and recorder, shall be maintained in the flare stack except that a temperature drop of up to 100 degrees Fahrenheit is allowed for no more than three minutes in any one hour.
[Rule 1303(a)(1)-BACT]
6. The flow indicating and recording device shall be maintained in the landfill gas supply line to the flare to measure and record the gas flow rate (in scfm) to the flare at least every 15 minutes and shall operate whenever the flare is in operation.
[Rule 1150.1, Rule 1303(b)(2)-Offset, 40 CFR 60.756(b)(2)(i)]

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7. The total volume of landfill gas burned in the flare shall not exceed 4,167 dry standard cubic feet per minute (6.0 million dry standard cubic feet per day).
[Rule 1303(b)(2)-Offset]

8. All recording devices shall be synchronized with respect to the time of day.
[Rule 1303 (b)(2)-Offset]

9. The following flare failure alarms, which shall include an automatic notification system and an automatic blower and landfill gas inlet valve shut-off system, shall be maintained:
A. Flare flame out
B. Low flare stack temperature
C. High flare stack temperature
D. High blower discharge temperature
E. Excessive vibration
[Rule 1303(a)(1)-BACT]

10. The flare failure alarms shall be tested and the results recorded once every six months.
[Rule 217]

11. The flame in the flare shall remain at least two feet below the temperature sensor at all times.
[Rule 1303(a)(1)-BACT]

12. A set of four sampling ports shall be maintained in the flare stack at least two feet above the flame zone and at least six and one half feet below the top of the flare stack 90 degrees apart. Each sampling port shall consist of a four inch coupling with cap. Adequate and safe access to all test ports shall be provided within four hours of a request by the SCAQMD to conduct a test.
[Rule 217]

13. A sample port shall be maintained in the inlet gas line to the flare to allow the collection of a landfill gas sample.
[Rule 217, Rule 431.1, Rule 1150.1]

14. The skin temperature of the flare stack within four feet of the source test ports shall not exceed 250 degrees Fahrenheit. A heat shield, if required to meet the temperature requirement, shall be in place whenever a source test is conducted by the SCAQMD.
[Rule 217]

15. Emissions resulting from the flare shall not exceed the following:

Pollutant	lbs/day
ROG	23
NOx	174
SOx	107
CO	104
PM10	41

[Rule 1303(a)(1) -BACT, Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1401]

16. Landfill gas entering the flare shall be analyzed weekly for heating value and methane concentration. Results shall be recorded and provided to SCAQMD personnel upon request.
[Rule 1303(b)(2)-Offset]

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17. The heat release of landfill gas burned in this flare shall not exceed 105 MMBtu/hr.
[Rule 1303(b)(2)-Offset]

18. All records shall be kept for a period of at least five years and shall be made available to SCAQMD personnel upon request.
[Rule 1150.1, Rule 1303(b)(2)-Offset]

19. The exhaust temperature shall be maintained at a minimum of 1,600 (for all flares) degrees Fahrenheit averaged over 15-minute period whenever the equipment is in operation, excluding start up and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.

Each flare shall be equipped with a continuous exhaust temperature monitoring and recording system pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7 and the recording system shall be in operation when the flare is operating. Such a system shall have an accuracy of within ± 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable SCAQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a 15-minute average temperature of less than 1,600 degrees Fahrenheit occurs during operation excluding start up and shutdown. The exhaust temperature shall be recorded at least once in every 15-minute period. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.

For each semi-annual reporting period specified in Condition No. 23 in Section K, whenever a deviation occurs from 1,600 degrees Fahrenheit, the operator shall take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40CFR Part 64.8 to the SCAQMD if an accumulation of deviation exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the SCAQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to the SCAQMD to demonstrate compliance with all applicable requirements specified in this condition and 40CFR Part 64.9 for a minimum of five years.
[40CFR Part 64]

Emissions and Requirements:

20. NMOC: 20 ppmv or 98% weight reduction, Rule 1150.1, 40CFR60 Subpart WWW, 40CFR63 Subpart AAAA
CO: 2000 ppmv, Rule 407
PM: 0.1 gr/dscf, Rule 409
PM: Rule 404, See Appendix B for emission limits

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Periodic Monitoring:

21. Applicant shall conduct performance test of the flare in accordance with SCAQMD test procedures and furnish the SCAQMD a written result of such performance test within 60 days after testing. Written notice of the performance test shall be provided to the SCAQMD 10 days prior to the test so that an observer may be present. The performance test shall be conducted at the exhaust of the flare once every five years for NOX, CO and PM. [Rule 3004]

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PERMIT TO OPERATE

Permit No. G19109
A/N 537984

Equipment Description:

Landfill Gas Flaring System No. 3, consisting of:

1. Condensate Knockout Drum, 3'-6" Dia. x 10'-0" H., seam to seam height, with a mist eliminator.
2. Condensate Pump, 1 HP, 3 GPM, serving a condensate knockout drum and a particulate filter.
3. Three Blowers, one optional Lamson Model No. 862000020 GB, 40 HP, and two Gardner Denver Model No. 1405, 200 HP each.
4. Particulate Filter, Peerless, 3'-0" Dia. x 10'-6" H.
5. Two Flame Arrestors, one for landfill gas and one for vapors from the leachate treatment system.
6. Flare, McGill, Model No. EGF-125, 13'-0' Dia. x 50'-0" H. with a multi-jet burner, propane gas pilot, electric igniter, UV flame sensor, automatic shutdown and alarm system, automatic combustion air regulating system and temperature controller.
7. Landfill Gas Flow Meter with a recorder.
8. Landfill Gas Emergency Shut-Off Valve.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]
2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]
3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]
4. A set of four sampling ports shall be installed in the flare shroud and located at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud. Each port shall consist of a four-inch coupling with plug. Adequate and safe access to all source test ports shall be provided within 24 hours of a request by the SCAQMD to conduct a test.
[Rule 217]
5. A sampling port shall be maintained at the inlet gas line to the flare to allow landfill gas sampling and flow measurement.
[Rule 217, Rule 431.1, Rule 1150.1]

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6. The flare shall be equipped with a continuous temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The thermocouple used to measure the temperature shall be at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.
[Rule 1150.1, 1303(a)(1)-BACT, 40 CFR 60.756(b)(1)]

7. Whenever the flare is in operation, a temperature of not less than 1,600 degrees Fahrenheit, as measured by the temperature indicator and recorder, shall be maintained in the flare stack.
[Rule 1303(a)(1)-BACT]

8. The skin temperature of the flare should within four feet of all the source test ports shall not exceed 250 degrees Fahrenheit. If a heat shield is required to meet this requirement, its design shall be approved by the SCAQMD prior to construction. The heat shield, if required to meet the temperature requirement, shall be in place whenever a source test is conducted by the SCAQMD.
[Rule 217]

9. A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flame within the flare at all times. Permanent and safe access shall be provided for all sight glass windows.
[Rule 217, 1303(a)(1)-BACT]

10. A flow indicator and recorder shall be maintained in the landfill gas supply line to the flare to measure and record the gas flow rate (in scfm) to the flare at least every 15 minutes and shall operate whenever the flare is in operation.
[Rule 1150.1, 1303(b)(2)-Offset, 40 CFR 60.756(b)(2)(i)]

11. The total volume of landfill gas burned in the flare shall not exceed 4,167 standard cubic feet per minute.
[Rule 1303(b)(2)-Offset]

12. Emissions resulting from the flare shall not exceed the following:

Pollutant	lbs/hr
NOx	6.0
SOx	3.8
CO	4.1
PM	1.6
ROG	0.63

[Rule 1303(a)(1) -BACT, Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1401]

13. The owner or operator shall conduct a test annually or per the approved Rule 1150.1 Compliance Plan. The test shall be performed in accordance with SCAQMD approved test procedures and written test results shall be furnished to the SCAQMD within sixty days after testing. Written notice of the test shall be provided to the SCAQMD thirty days prior to the testing so that an observer may be present. In addition to the test requirements of Rule 1150.1 and the approved Rule 1150.1 Compliance Plan for non-methane organic compounds and toxic compounds, the test shall include, but may not be limited to, a test of the flare for:

A. Landfill gas composition and heating value (inlet)
B. Landfill gas flow rate, scfm (inlet)
C. Total sulfur compounds as H2S, ppmv (inlet)
D. Temperature, degrees Fahrenheit (exhaust)

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E. Flow rate, dscfm (exhaust)
F. NOx, lbs/hr (exhaust)
G. SOx, lbs/hr (exhaust)
H. CO, lbs/hr (exhaust)
I. Total Particulates, lbs/hr (exhaust)

The test shall be conducted at the maximum flow rate available at the time of the test but not to exceed the flow rate allowed by this permit.
[Rule 1303(a)(1)-BACT]

14. The following flare failure alarms which shall include an automatic notification system, an automatic blower and a landfill gas supply valve shut-off system approved by the SCAQMD, shall be maintained and tested every six months for proper operation and the results recorded:

A. Flare flame out
B. Low flare stack temperature
C. High flare stack temperature
D. Excessive vibration
E. Low blower discharge pressure.
[Rule 1303(a)(1)-BACT]

15. A pressure sensing device with an automatic blower shut off system shall be maintained in the blower discharge line to detect pressure drop due to landfill gas leaks and shall be tested every six months for proper operation and the results recorded.
[Rule 1303(a)(1)-BACT]

16. A pressure differential indicator shall be maintained across the particulate filter.
[Rule 1303(a)(1)-BACT]

17. A pressure differential indicator shall be maintained across the flame arrestor.
[Rule 1303(a)(1)-BACT]

18. The heat release of landfill gas burned in this flare shall not exceed 105 MMBtu/hr.
[Rule 1303(b)(2)-Offset]

19. Landfill gas entering the flare shall be analyzed weekly for heating value and methane concentration. Results shall be recorded and provided to the SCAQMD upon request.
[Rule 1303(b)(2)-Offset]

20. All recording devices shall be synchronized with respect to the time of day.
[Rule 1303(b)(2)-Offset]

21. All records shall be kept for a period of at least five years and shall be made available to the SCAQMD upon request. A record of the hours of flare operation shall be included.
[Rule 1303(b)(2)-Offset]

22. Any breakdown or malfunction of the landfill gas flare system resulting in the emission of raw landfill gas shall be reported to the SCAQMD within one hour after occurrence, and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.
[Rule 430]

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23. The exhaust temperature shall be maintained at a minimum of 1,600 (for all flares) degrees Fahrenheit averaged over 15-minute period whenever the equipment is in operation, excluding start up and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.

Each flare shall be equipped with a continuous exhaust temperature monitoring and recording system pursuant to the operation and maintenance requirements specified in 40CFR Part 64.7 and the recording system shall be in operation when the flare is operating. Such a system shall have an accuracy of within ± 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable SCAQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a 15-minute average temperature of less than 1,600 degrees Fahrenheit occurs during operation excluding start up and shutdown. The exhaust temperature shall be recorded at least once in every 15-minute period. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.

For each semi-annual reporting period specified in Condition No. 23 in Section K, whenever a deviation occurs from 1,600 degrees Fahrenheit, the operator shall take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to the SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40CFR Part 64.8 to the SCAQMD if an accumulation of deviation exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the SCAQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to the SCAQMD to demonstrate compliance with all applicable requirements specified in this condition and 40CFR Part 64.9 for a minimum of five years.
[40 CFR Part 64]

Emissions and Requirements:

24. This equipment is subject to the applicable requirements of the following rules and regulations:

NMOC: 20 ppmv or 98% weight reduction, Rule 1150.1, 40CFR60 Subpart WWW, 40CFR63 Subpart AAAA
CO: 2000 ppmv, Rule 407
PM: 0.1 gr/dscf, Rule 409
PM: Rule 404, See Appendix B for emission limits
VOC: 0.006 lbs/MMBtu, Rule 1303– BACT/LAER

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Periodic Monitoring:

25. Applicant shall conduct performance test of the flare in accordance with SCAQMD test procedures and furnish the SCAQMD a written result of such performance test within 60 days after testing. Written notice of the performance test shall be provided to the SCAQMD 10 days prior to the test so that an observer may be present. The performance test shall be conducted at the exhaust of the flare once every five years for NOx, CO and PM. [Rule 3004]

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PERMIT TO OPERATE

Permit No. G45946
A/N 541300

Equipment Description:

Landfill Gas Flare No. 10 consisting of:

1. One (1) Skid Mounted HDPE Moisture Separator, ZMS, with demister pad element for moisture collection (common to A/N 526972 & 570952).

2. Four (4) Landfill Gas Extraction Blowers (one stand-by), Gardner Denver, Model No. 1266, max air flow 5,000 scfm each, venting landfill gas from collection wells and trenches (common to A/N 526972 & 570952).

3. Three (3) Landfill Gas Blower Variable Flow Devices with pressure transmitter for variable flow device vacuum control (common to A/N 526972 & 570952).

4. One (1) Combustion Air Blower Variable Flow Device.

5. Two (2) Thermal Mass Flow Meters, insertion type, one each for landfill gas flow and combustion air flow.

6. One (1) Flare Inlet Flame Arrestor, Enardo, 10" Dia.

7. Enclosed A-36 Carbon Steel Flare, John Zink, Model ZULE, 13' Dia. x 50' H., rated at 5,000 scfm capacity, 152 MMBtu/hr with a flame arrestor, two combustion air dampers, and flare alarm system.

8. Automated Ignition System, one (1) self-checking ultraviolet flare scanner, one (1) high temperature shutdown thermocouple, three (3) burner thermocouples, four (4) flare temperature monitoring thermocouples at different elevations, ignition transformer, and two 5 gallon capacity propane tanks.

Conditions:

1. Construction and operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]

4. A set of four sampling ports shall be installed in the flare shroud and located at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud. Each port shall consist of a four-inch coupling with plug. Adequate and safe access to all source test ports shall be provided within 24 hours of a request by SCAQMD to conduct a test.
[Rule 217]

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5. A sampling port shall be maintained at the inlet gas line to the flare to allow landfill gas sampling and flow measurement.
[Rule 217, Rule 431.1, Rule 1150.1]

6. The flare shall be equipped with a continuous temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The thermocouple used to measure the temperature shall be at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.
[Rule 1150.1, Rule 1303(a)(1)-BACT, 40 CFR 60.756(b)(1)]

7. Whenever the flare is in operation, a temperature of not less than 1,600 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.
[Rule 1303(a)(1)-BACT]

8. The skin temperature of the flare shroud within four feet of all the source test ports shall not exceed 250 degrees Fahrenheit. If a heat shield is required to meet this requirement, its design shall be approved by SCAQMD prior to construction. The heat shield, if required to meet the temperature requirement, shall be in place whenever a source test is conducted by SCAQMD.
[Rule 217]

9. A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flame within the flare at all times. Permanent and safe access shall be provided for all sight glass windows.
[Rule 217, Rule 1303(a)(1)-BACT]

10. A flow indicator and recorder shall be maintained in the landfill gas supply line to the flare to measure and record the gas flow rate (in scfm) to the flare at least every fifteen minutes and shall operate whenever the flare is in operation.
[Rule 1150.1, Rule 1303(b)(2)-Offset, 40 CFR 60.756(b)(2)(i)]

11. Emissions resulting from the flare shall not exceed the following:

Pollutant	lbs/hr
CO	9.12
NOx	3.80
PM10	1.50
ROG	0.91
SOx as SO2	7.60

[Rule 1303(a)(1) -BACT, Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1401]

12. The owner or operator shall conduct a source test annually or per the approved Rule 1150.1 Compliance Plan. The test shall be performed in accordance with SCAQMD approved test procedures and written test results shall be furnished to SCAQMD within 60 days after testing. Written notice of the test shall be provided to SCAQMD thirty days prior to the testing so that an observer may be present. In addition to the test requirements of Rule 1150.1 and the approved Rule 1150.1 Compliance Plan for non-methane organic compounds and toxic compounds, the test shall include, but may not be limited to, a test of the flare for:

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A. Landfill Gas Composition and Heating Value (inlet)
B. Landfill Gas Flow Rate, scfm (inlet)
C. Total Sulfur Compounds as H2S, ppmv (inlet)
D. Temperature, degrees Fahrenheit (exhaust)
E. Flow Rate, dscfm (exhaust)
F. NOx, lbs/hr (exhaust)
G. SOx, lbs/hr (exhaust)
H. CO, lbs/hr (exhaust)
I. Total Particulates, lbs/hr (exhaust)
J. Oxygen and Carbon Dioxide
K. Rule 1150.1 Compounds (core list, inlet/exhaust)

The test shall be conducted at the maximum flow rate available at the time of the test but not to exceed the flow rate allowed by this permit.
[Rule 204, Rule 1303(b)(2)-Offset, Rule 3004(a)(4)-Periodic Monitoring, Rule 1150.1, 40 CFR 60 Subpart WWW]

13. The flare shall be equipped with an automatic shut-down system with a failure alarm, which has been approved by SCAQMD, to automatically isolate the flare from the landfill gas supply line, shut off the blower and immediately notify a responsible party of the shut-down.
[Rule 1303(a)(1)-BACT]

14. The destruction efficiency for methane shall be at least 99% on the basis of mass of methane entering the flare.
[Rule 1150.1]

15. The automatic shutdown safety system shall be tested monthly for proper operation of this flare and the results recorded.
[Rule 1303(a)(1)-BACT]

16. The following flare failure alarms which shall include an automatic notification system, an automatic blower and a landfill gas supply valve shut-off system approved by SCAQMD, shall be maintained and tested every six months for proper operation and the results recorded:

A. Flare Flame Out
B. Low Flare Stack Temperature
C. High Flare Stack Temperature
D. Excessive Vibration
E. Low Blower Discharge Pressure.

[Rule 1303(a)(1)-BACT]

17. A pressure sensing device with an automatic blower shut off system shall be maintained in the blower discharge line to detect pressure drop due to landfill gas leaks and shall be tested every six months for proper operation and the results recorded.
[Rule 1303(a)(1)-BACT]

18. A pressure differential indicator shall be maintained across the particulate filter.
[Rule 1303(a)(1)-BACT]

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19. A pressure differential indicator shall be maintained across the flame arrestor.
[Rule 1303(a)(1)-BACT]

20. Landfill gas entering the flare shall be analyzed weekly for heating value and methane concentration. Results shall be recorded and provided to SCAQMD upon request.
[Rule 1303(b)(2)-Offset]

21. The maximum weekly heat input rate to flare shall not exceed 152.0 MMBtu per hour. A log shall be kept indicating the total heating value of landfill gas burned in each flare based on the recorded flow rate (scfm) and the latest weekly BTU content (BTU/scf) reading.
[Rule 1303(b)(1) and (b)(2)–Modeling and Offset, Rule 1401]

22. All recording devices shall be synchronized with respect to the time of day.
[Rule 1303(b)(2)-Offset]

23. All records shall be kept for a period of at least five years and shall be made available to SCAQMD upon request. A record of the hours of flare operation shall be included.
[Rule 1150.1, Rule 1303(b)(2)-Offset]

24. Operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction of this equipment resulting in the emission of raw landfill gas shall be reported to SCAQMD within twenty four hours after occurrence and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.
[Rule 430]

25. The applicant shall conduct a gas leak detection program with a combustible detector calibrated for methane by inspecting the blowers and all equipment downstream of the blowers. This inspection program shall be conducted once a month. All leaks detected above 500 ppm shall be reported to SCAQMD within 24 hours of detection and repaired within 3 working days of detection. A log showing the results of each inspection shall be maintained and shall be available to SCAQMD personnel upon request.
[Rule 1303(a)(1)-BACT, Rule 402]

26. The exhaust temperature shall be maintained at a minimum of 1,600 degrees Fahrenheit (for all flares) averaged over 15-minute period whenever the equipment is in operation, excluding start up and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.

Each flare shall be equipped with a continuous exhaust temperature monitoring and recording system pursuant to the operation and maintenance requirements specified in 40 CFR 64.7 and the recording system shall be in operation when the flare is operating. Such a system shall have an accuracy of within ± 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable SCAQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a 15-minute average temperature of less than 1,600 degrees Fahrenheit occurs during operation excluding start up and shutdown. The exhaust temperature shall be recorded at least once in every 15-minute period. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.

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For each semi-annual reporting period specified in Condition No. 23 in Section K, whenever an deviation occurs from 1,600 degrees Fahrenheit, the operator shall take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8 to SCAQMD if an accumulation of deviation exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to SCAQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to SCAQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR 64.9 for a minimum of five years. [40 CFR 64]

Emissions and Requirements:

27. This equipment is subject to the applicable requirements of the following rules and regulations:

NMOC:	20 ppmv or 98% weight reduction, Rule 1150.1, 40 CFR 60 Subpart WWW, 40 CFR 63 Subpart AAAA
CO:	2000 ppmv, Rule 407
NOx	0.025 lb/MMBtu, Rule 1303 - BACT/LAER
SOx as H2S:	150 ppmv in inlet (Rule 431.1)
PM10:	5 lbs/MMscf, Rule 1303 - BACT/LAER
PM:	0.1 gr/dscf, Rule 409
PM:	Rule 404, See Appendix B for emission limits
VOC:	0.006 lb/MMBtu, Rule 1303 – BACT/LAER
CO:	0.06 lb/MMBtu, Rule 1303 – BACT/LAER

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G33586
A/N 558871

Equipment Description:

Internal Combustion Engine, KEM Equipment Power, spark ignited, 8 cylinders, naturally aspirated, Model 12S881 CPULPE, 197 BHP, LPG fueled, with a 3-way catalyst, Nett Technologies, Model CM09-8127-1, air to fuel ratio controller, Model GM EFI, and a heated oxygen sensor, driving a landfill refuse truck tipper.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued, unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating conditions at all times.
[Rule 204]

3. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2; Rule 1303-Offsets]

4. This engine shall not be operated for more than 3,120 hours in any one calendar year and 260 hours in one calendar month.
[Rule 1110.2; Rule 1303-Offsets]

5. An engine operating log shall be maintained which on a monthly basis shall list the engine operating hours for each month. In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-Offsets]

6. The engine shall be fired on LPG (propane) with 500 ppmv of sulfur or less.
[Rule 431.2]

7. The operator shall comply with the applicable requirements of 40 CFR Part 1048. Engine shall comply with the emissions standards of 0.6 g/BHP-hr for VOCs + NOx and 20.6 g/BHP-hr for CO.
[40 CFR Part 1048, Rule 1110.2, LSI Article 2, Chapter 15 Div 3 Title 13 of CCR]

8. The equipment shall not be operated at any one site within the facility for more than 12 months.
[Rule 1110.2, Rule 1303-BACT]

9. Within 90 days of the start of this propane fired ICE, applicant shall surrender the Permit G1472 (A/N 492920).
[Rule 1313, Rule 1303-Offsets]

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10. The engine shall only be operated with the oxygen sensor and 3-way catalyst in full operation. Replacement/maintenance/cleaning of oxygen sensor and 3-way catalyst shall be carried out as per manufacturer's recommendations.
[Rule 1303-BACT, Rule 1304(a)(4)-Modeling and Offset Exemptions, Rule 1401]

11. Engine shall not be operated above RPM of 2100. Engine shall be equipped with high RPM shutoff.
[Rule 1303-BACT, Rule 1401]

12. Emissions from operation of this equipment shall not exceed:

Pollutant	lbs/month
NOx	39.47
VOC	2.63
CO	160.0

[Rule 1313(g), Rule 1303-BACT, Rule 1303-Offsets]

13. Records shall be maintained to verify compliance with the conditions of this permit for at least five years and made available to SCAQMD personnel upon request.
[Rule 204]

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PERMIT TO OPERATE

Permit No. G33587
A/N 561628

Equipment Description:

Landfill Leachate/Condensate Collection and Treatment System consisting of:

1. Landfill Leachate/Condensate Extraction Wells, pumps and piping.
2. Influent Surge Tank, Leachate/Condensate, 8,000 gallons, vented to a 200 lb carbon adsorber.
3. Emergency Storage Tank, leachate/condensate, 8,000 gallons, vented to a 200 lb carbon adsorber (common to the influent surge tank).
4. Two Aeration Blowers, each 300 scfm maximum flow rate.
5. Two Pact Reactors, leachate/condensate, each 15,000 gallons, vented to two carbon adsorbers, in series, each 2,000 lbs of activated carbon.
6. Sludge Storage Tank, up to 5,000 gallons, vented to a 200 lb carbon adsorber.
7. Sodium Hydroxide Tank.
8. Nutrients Tanks, ammonium phosphate/phosphoric acid, and defoamer tank.
9. Associated Pumps.
10. Membrane Bioreactor Treatment (MBR) System consisting of 6,000 gallons MBR tank, scour air blower, max 105 scfm, and permeate pumps having 20 GPM capacity vented with the pact reactors to the two carbon adsorbers, in series, each 2,000 lbs of activated carbon.

Conditions:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with this application under which this permit is issued unless otherwise noted below.
[Rule 204]
2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]
3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]
4. The operation of this equipment shall not result in the release of any raw landfill gas.
[Rule 402]
5. The operation of this equipment shall not result in the discharge of untreated odorous liquid.
[Rule 402]

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6. The total amount of leachate/condensate treated (in the treatment system) shall not exceed 20,000 gallons per day.
[Rule 1303(b)(2)-Offset]

7. A totalizing flow meter shall be installed at the influent feed line and at the effluent discharge line to indicate the total amount (in gallons) of leachate/condensate treated by this system.
[Rule 1303(a)(1)-BACT]

8. The pact reactors and the MBR tank shall not be operated unless off gases are vented to two carbon adsorbers, connected in series, each with at least 2000 lbs of activated carbon.
[Rule 1303(a)(1)-BACT]

9. The concentration of total non-methane hydrocarbons shall be measured and recorded at the inlet, midpoint and the outlet of carbon adsorbers venting the pact reactors, at least quarterly using an organic vapor analyzer or other approved method. Applicant shall also measure the total VOC concentration as hexane of the off gas stream being vented to the carbon adsorbers from the MBR tank once a quarter. The monitor shall be calibrated with or results correlated to hexane, and maintained and calibrated per EPA Method 21. Calibration shall be performed prior to each monitoring visit.
[Rule 1303(a)(1)-BACT]

10. Whenever the TNMOC concentration at the outlet of the primary carbon adsorber indicates that the adsorption efficiency has dropped below 90 percent and exceeds 50 ppm, the carbon shall be replaced as follows:

    I. Primary carbon adsorber shall be replaced with either fresh activated carbon or,

    II. Adsorbent from the secondary adsorber and the secondary carbon adsorber shall be replaced with fresh activated carbon.

    [Rule 1303(a)(1)-BACT]

11. Applicant shall service the membranes of MBR unit on the time of the day when the wind directions are towards the landfill site and are predicted to be towards the site for the duration of membrane service.
[Rule 402]

12. Spent carbon from the carbon adsorbers shall be stored in closed containers prior to disposal or regeneration.
[Rule 402]

13. The influent surge tank and emergency storage tank shall be vented to a common carbon adsorber with at least 200 lbs of activated carbon.
[Rule 1303(a)(1)-BACT]

14. The sludge storage tank shall be vented to a carbon adsorber, with at least 200 lbs of activated carbon.
[Rule 1303(a)(1)-BACT]

15. The concentration of NMOC shall be measured and recorded at the inlet and outlet of the carbon adsorbers venting the influent surge tank, emergency storage tank and the sludge storage tank at least quarterly using an organic vapor analyzer or other approved method. The monitor shall be calibrated with or results correlated to hexane, and maintained and calibrated per EPA Method 21. Calibration shall be performed prior to each monitoring visit.
[Rule 1303(a)(1)-BACT]

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16. Whenever the TNMOC concentration at the outlet of the carbon adsorber venting the influent surge tank, emergency storage tank and the sludge storage tank indicates that the adsorption efficiency has dropped below 90 percent, the carbon shall be replaced.
[Rule 1303(a)(1)-BACT]

17. A log shall be maintained that indicates the date of any carbon replacement.
[Rule 1303(a)(1)-BACT]

18. Total organic compound emissions from the final outlet of any of the carbon adsorbers to the atmosphere shall not exceed 50 ppmv as hexane.
[Rule 1303(a)(1)-BACT]

19. Any liquid used for dust control or other purposes shall be odorless, shall not contain total volatile organic compounds in excess of 45 ug/L and shall be monitored and recorded monthly.
[Rule 402]

20. All connections, valves and openings shall be properly sealed or closed to prevent raw leachate/condensate vapors from entering into the atmosphere.
[Rule 402]

21. All leachate/condensate collected shall be properly disposed or treated.
[Rule 402]

22. Records shall be maintained to verify compliance with the conditions of this permit for at least five years and made available to SCAQMD personnel upon request.
[Rule 1303(a)(1)-BACT]

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G44479
A/N 570952

Equipment Description:

Landfill Gas Flaring System No. 11, consisting of:

1. One (1) Skid Mounted HDPE Moisture Separator, ZMS, with demister pad element for moisture collection (common to A/N 526972 & 541300).

2. Four (4) Landfill Gas Extraction Blowers (one stand-by), Gardner Denver, Model No. 1266, max air flow 5,000 scfm each, venting landfill gas from collection wells and trenches (common to A/N 526972 & 541300).

3. Three (3) Landfill Gas Blower Variable Flow Devices with pressure transmitter for variable flow device vacuum control (common to A/N 526972 & 541300).

4. One (1) Combustion Air Blower Variable Flow Device.

5. Two (2) Thermal Mass Flow Meters, insertion type, one each for landfill gas flow and combustion air flow.

6. One (1) Flare Inlet Flame Arrestor, Enardo, 10" Dia.

7. Enclosed A-36 Carbon Steel Flare, John Zink, Model ZULE, 13' Dia. x 50' H., rated at 5,000 scfm capacity, 152 MMBtu/hr with a flame arrestor, two combustion air dampers, and flare alarm system.

8. Automated Ignition System, one (1) self-checking ultraviolet flare scanner, one (1) high temperature shutdown thermocouple, three (3) burner thermocouples, four (4) flare temperature monitoring thermocouples at different elevations, ignition transformer, and two 5 gallon capacity propane tanks.

Conditions:

1. Construction and operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]

4. A set of four sampling ports shall be installed in the flare shroud and located at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud. Each port shall consist of a four-inch coupling with plug. Adequate and safe access to all source test ports shall be provided within 24 hours of a request by SCAQMD to conduct a test.
[Rule 217]

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5. A sampling port shall be maintained at the inlet gas line to the flare to allow landfill gas sampling and flow measurement.
[Rule 217, Rule 431.1, Rule 1150.1]

6. The flare shall be equipped with a continuous temperature indicator and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The thermocouple used to measure the temperature shall be at least two feet above the flame zone and at least six and one half feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.
[Rule 1150.1, Rule 1303(a)(1)-BACT, 40 CFR 60.756(b)(1)]

7. Whenever the flare is in operation, a temperature of not less than 1,600 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.
[Rule 1303(a)(1)-BACT]

8. The skin temperature of the flare shroud within four feet of all the source test ports shall not exceed 250 degrees Fahrenheit. If a heat shield is required to meet this requirement, its design shall be approved by SCAQMD prior to construction. The heat shield, if required to meet the temperature requirement, shall be in place whenever a source test is conducted by SCAQMD.
[Rule 217]

9. A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flame within the flare at all times. Permanent and safe access shall be provided for all sight glass windows.
[Rule 217, Rule 1303(a)(1)-BACT]

10. A flow indicator and recorder shall be maintained in the landfill gas supply line to the flare to measure and record the gas flow rate (in scfm) to the flare at least every fifteen minutes and shall operate whenever the flare is in operation.
[Rule 1150.1, Rule 1303(b)(2)-Offset, 40 CFR 60.756(b)(2)(i)]

11. Emissions resulting from the flare shall not exceed the following:

Pollutant	lbs/hr
CO	9.12
NOx	3.80
PM10	1.50
ROG	0.91
SOx as SO2	7.60

[Rule 1303(a)(1) -BACT, Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1401]

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12. The operator shall conduct an initial source test on flare within 60 days after the flare is completely operational but not later than 180 days after initial startup, in accordance with SCAQMD approved source test procedures. A source test protocol shall be provided to SCAQMD for approval at least 30 days prior to the scheduled testing. Written notification of the scheduled test date shall be provided to SCAQMD at least seven (7) days prior to the date so that the testing may be observed by SCAQMD personnel. The testing shall be conducted when the equipment is in full operation, and shall include, but not limited to, a test of the inlet to the flare and the flare exhaust for:

A. Methane.
B. Total Non-Methane Organic Compounds (TNMOC).
C. Toxic Air Contaminants (TAC) including, but not limited to Acrolein, Acetaldehyde, Formaldehyde, total PAHs, Naphthalene, Benzene, Chlorobenzene, Ethyl Benzene, 1,1,2,2–Tetrachloroethane, Acrylonitrile, 1,2-Dichloroethane, 1,1-Dichoroethene, Dichloromethane, Tetrachloroethylene, Tetrachloromethane, Toluene, 1,1,1-Trichloroethane, Trichloroethylene, Trichloromethane, Vinyl Chloride, and Xylene Isomers (exhaust only).
D. NOx, as NO2 (exhaust only).
E. SOx, as SO2 (exhaust only).
F. CO (exhaust only).
G. Total Particulates (PM10) (exhaust only).
H. Oxygen and Carbon Dioxide.
I. Moisture Content.
J. Temperature.
K. Flowrate.
L. Total Sulfur Compounds as Hydrogen Sulfide (inlet only).
M. BTU value (inlet only).

[Rule 1303(b)(1) & (b)(2)–Modeling and Offset, Rule 1150.1, Rule 1401, Rule 3004(a)(4), 40 CFR 60 Subpart WWW]

13. The initial source test report, for the flare shall include:

A. Emissions of CO, NOx, TNMOCs, methane, PM10, and SOx, reported in units of lbs/hr and ppmv (except particulates/PM10 which shall be in lbs/hr and gr/scf), overall TNMOC & methane destruction efficiency (wt%), formaldehyde, total PAHs & naphthalene emission (lbs/hr and ppmv), oxygen and carbon dioxide (in percentage volume), sulfur compounds as H2S (in ppmv), and TNMOC emissions (ppmv, dry basis, as hexane at 3% oxygen).

B. The test shall be performed by a testing laboratory certified to meet the criteria in SCAQMD Rule 304(k) (No Conflict of Interest).

C. Sampling facilities shall comply with SCAQMD "Guidelines for Construction of Sampling and Testing Facilities" pursuant to Rule 217.

D. If the source test indicates additional toxic air contaminants (TAC) compounds are emitted or the rates are significantly different than used in previously evaluated risk assessment, the owner or operator shall calculate the maximum individual cancer risk (MICR), acute hazard index (HIA) and chronic hazard index (HIC), based on the source test results using SCAQMD published risk assessment procedures for Rules 1401 and 212 to determine compliance with Rule 1401. Results shall be submitted to SCAQMD within 90 days after initial testing is completed.

[Rule 204, 217, Rule 1150.1, Rule 1401, 40 CFR 60 Subpart WWW]

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14. The owner or operator shall conduct a source test annually or per the approved Rule 1150.1 Compliance Plan. The test shall be performed in accordance with SCAQMD approved test procedures and written test results shall be furnished to SCAQMD within 60 days after testing. Written notice of the test shall be provided to SCAQMD thirty days prior to the testing so that an observer may be present. In addition to the test requirements of Rule 1150.1 and the approved Rule 1150.1 Compliance Plan for non-methane organic compounds and toxic compounds, the test shall include, but may not be limited to, a test of the flare for:

A. Landfill Gas Composition and Heating Value (inlet)
B. Landfill Gas Flow Rate, scfm (inlet)
C. Total Sulfur Compounds as H2S, ppmv (inlet)
D. Temperature, degrees Fahrenheit (exhaust)
E. Flow Rate, dscfm (exhaust)
F. NOx, lbs/hr (exhaust)
G. SOx, lbs/hr (exhaust)
H. CO, lbs/hr (exhaust)
I. Total Particulates, lbs/hr (exhaust)
J. Oxygen and Carbon Dioxide
K. Rule 1150.1 Compounds (core list, inlet/exhaust)

The test shall be conducted at the maximum flow rate available at the time of the test but not to exceed the flow rate allowed by this permit.
[Rule 204, Rule 1303(b)(2)-Offset, Rule 3004(a)(4)-Periodic Monitoring, Rule 1150.1, 40 CFR 60 Subpart WWW]

15. The flare shall be equipped with an automatic shut-down system with a failure alarm, which has been approved by SCAQMD, to automatically isolate the flare from the landfill gas supply line, shut off the blower and immediately notify a responsible party of the shut-down.
[Rule 1303(a)(1)-BACT]

16. The destruction efficiency for methane shall be at least 99% on the basis of mass of methane entering the flare.
[Rule 1150.1]

17. The automatic shutdown safety system shall be tested monthly for proper operation of this flare and the results recorded.
[Rule 1303(a)(1)-BACT]

18. The following flare failure alarms which shall include an automatic notification system, an automatic blower and a landfill gas supply valve shut-off system approved by SCAQMD, shall be maintained and tested every six months for proper operation and the results recorded:

A. Flare Flame Out
B. Low Flare Stack Temperature
C. High Flare Stack Temperature
A. Excessive Vibration
B. Low Blower Discharge Pressure.
[Rule 1303(a)(1)-BACT]

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19. A pressure sensing device with an automatic blower shut off system shall be maintained in the blower discharge line to detect pressure drop due to landfill gas leaks and shall be tested every six months for proper operation and the results recorded.
[Rule 1303(a)(1)-BACT]

20. A pressure differential indicator shall be maintained across the particulate filter.
[Rule 1303(a)(1)-BACT]

21. A pressure differential indicator shall be maintained across the flame arrestor.
[Rule 1303(a)(1)-BACT]

22. Landfill gas entering the flare shall be analyzed weekly for heating value and methane concentration. Results shall be recorded and provided to SCAQMD upon request.
[Rule 1303(b)(2)-Offset]

23. The maximum weekly heat input rate to flare shall not exceed 152.0 MMBtu per hour. A log shall be kept indicating the total heating value of landfill gas burned in each flare based on the recorded flow rate (scfm) and the latest weekly BTU content (BTU/scf) reading.
[Rule 1303(b)(1) and (b)(2)–Modeling and Offset, Rule 1401]

24. All recording devices shall be synchronized with respect to the time of day.
[Rule 1303(b)(2)-Offset]

25. All records shall be kept for a period of at least five years and shall be made available to SCAQMD upon request. A record of the hours of flare operation shall be included.
[Rule 1150.1, Rule 1303(b)(2)-Offset]

26. This permit shall expire if construction of this equipment is not complete within one year from the date of issuance of this permit unless an extension is granted by the Executive Officer.
[Rule 204]

27. Operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction of this equipment resulting in the emission of raw landfill gas shall be reported to SCAQMD within twenty four hours after occurrence and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.
[Rule 430]

28. The applicant shall conduct a gas leak detection program with a combustible detector calibrated for methane by inspecting the blowers and all equipment downstream of the blowers. This inspection program shall be conducted once a month. All leaks detected above 500 ppm shall be reported to SCAQMD within 24 hours of detection and repaired within 3 working days of detection. A log showing the results of each inspection shall be maintained and shall be available to SCAQMD personnel upon request.
[Rule 1303(a)(1)-BACT, Rule 402]

29. The owner or operator of this equipment shall provide to the SCAQMD for pre-installation approval final flare system P&I diagrams, control diagrams, equipment specifications (make, model, dimensions, size and maximum capacity) and other vendor data, at least 30 days prior to installation of this equipment.
[Rule 1303(a)(1)-BACT]

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30. The exhaust temperature shall be maintained at a minimum of 1,600 degrees Fahrenheit (for all flares) averaged over 15-minute period whenever the equipment is in operation, excluding start up and shutdown. Startup is defined as the period from flare ignition to the time when 1,600 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.

Each flare shall be equipped with a continuous exhaust temperature monitoring and recording system pursuant to the operation and maintenance requirements specified in 40 CFR 64.7 and the recording system shall be in operation when the flare is operating. Such a system shall have an accuracy of within ± 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable SCAQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a 15-minute average temperature of less than 1,600 degrees Fahrenheit occurs during operation excluding start up and shutdown. The exhaust temperature shall be recorded at least once in every 15-minute period. The operator shall review the records of temperature on a daily basis to determine if a deviation occurred or shall install an alarm system to alert the operator when a deviation occurs.

For each semi-annual reporting period specified in Condition No. 23 in Section K, whenever an deviation occurs from 1,600 degrees Fahrenheit, the operator shall take immediate corrective action, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to SCAQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8 to SCAQMD if an accumulation of deviation exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to SCAQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to SCAQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR 64.9 for a minimum of five years. [40 CFR 64]

Emissions and Requirements:

31. This equipment is subject to the applicable requirements of the following rules and regulations:

NMOC:	20 ppmv or 98% weight reduction, Rule 1150.1, 40 CFR 60 Subpart WWW, 40 CFR 63 Subpart AAAA
CO:	2000 ppmv, Rule 407
NOx	0.025 lb/MMBtu, Rule 1303 - BACT/LAER
SOx as H2S:	150 ppmv in inlet (Rule 431.1)
PM10:	5 lbs/MMscf, Rule 1303 - BACT/LAER
PM:	0.1 gr/dscf, Rule 409
PM:	Rule 404, See Appendix B for emission limits
VOC:	0.006 lb/MMBtu, Rule 1303 – BACT/LAER
CO:	0.06 lb/MMBtu, Rule 1303 – BACT/LAER

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G46227
A/N 586639

Equipment Description:

Internal Combustion Engine, intra-facility portable, Caterpillar, Model C27 (800 ekW), Serial No. ZRS00246, four cycles, lean burn, twelve cylinders, turbocharged/aftercooled, rated at 1,093 BHP, diesel fueled, driving an emergency electrical generator.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This equipment shall be operated by personnel properly trained in its operation.
[Rule 204]

4. This engine shall not be operated more than a total of 200 hours in any one year, which includes no more than 50 hours for maintenance and performance testing, and no more than 24 hours in any one month for maintenance and testing.
[Rule 1110.2, Rule 1303-BACT, Rule 1304(a)(4)-Modeling & Offsets exemption]

5. Operation beyond the 50 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage. Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.
[Rule 1303-BACT]

6. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2, 1303-Offsets]

7. The operator shall keep a log of engine operations documenting the total time the engine is operated each month and specific reason for operation as:

   A. Emergency use.
   B. Maintenance and testing.
   C. Other operating hours (describe the reason for operating).

   In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of five calendar years and shall be

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made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-BACT, Rule 1304(a)(4)-Modeling & Offsets exemption]

8. The operator shall not purchase any diesel fuel unless the fuel is low-sulfur diesel for which the sulfur content of does not exceed 15 ppm (0.0015%) by weight.
[Rule 431.1]

9. The owner or operator shall document the use of CARB diesel fuel (no. 2-ultra low sulfur) through the retention of fuel purchase records.
[Rule 431.1]

10. The equipment shall only exhaust through a vertical stack with a height of at least 23.3 feet above ground.
[Rule 204; Rule 1401]

11. An engine operating log shall be maintained which on a monthly basis shall list the engine operating hours for each month. In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of five calendar years and shall be made available to District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-Offsets]

12. The following conditions shall apply to the use of this intra-facility portable equipment:

    A. This equipment shall not remain or reside for more than twelve months at the same location within the facility.
    B. The period during which the equipment is maintained at a designated storage location shall be excluded from the residency time determination.
    C. Daily records shall be kept showing the location of the equipment.

    [Rule 204]

13. The engine shall not be used as a part of a Demand Response Program using an Interruptible Service Contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.
[Rule 1303-BACT]

14. This permit shall expire if construction of this equipment is not completed within one year from the date of issuance unless an extension is granted by the Executive Officer.
[Rule 204]

Emissions and Requirements:

15. This equipment is subject to the applicable requirements of the following rules and regulations:

PM:	Rule 404, see Appendix B for emission limits
PM:	0.07 g/BHP-hr, Rule 1303-BACT
NOx:	2.6 g/BHP-hr, Rule 1303-BACT
NMHC:	0.30 g/BHP-hr, Rule 1303-BACT
CO:	2.6 g/BHP-hr, Rule 1303-BACT

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FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

PERMIT TO CONSTRUCT/ OPERATE

Permit No. G50664
A/N 587827

Equipment Description:

Internal Combustion Engine, intra-facility portable, KEM Equipment Power, Model No. 14S881CPULPE, 196 BHP, LPG fueled, naturally aspirated, four cycle, rich burn, 8 cylinders, with a 3-way catalyst, Nett Technologies, air to fuel ratio controller, Model GM EFI, and a heated oxygen sensor, driving a landfill refuse truck tipper.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued, unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating conditions at all times.
[Rule 204]

3. This engine shall not be operated for more than 3,720 hours in any one calendar year, 310 hours in one calendar month, and 12 hours in any one day.
[Rule 1303-Offsets]

4. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2; Rule 1303-Offsets]

5. This engine shall not use more than 2,550 gallons of LPG fuel in any one calendar month.
[Rule 1303-Offsets]

6. An operational non-resettable elapsed fuel meter shall be installed and maintained to indicate the amount of fuel used.
[Rule 1110.2; Rule 1303-Offsets]

7. The operator shall keep a log documenting the date of operation, the elapsed time (in hours), the location where the engine is operated, fuel type, and fuel consumption. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-Offsets]

8. The engine shall be fired on LPG (propane) with 500 ppmv of sulfur or less.
[Rule 431.2]

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9. The following conditions shall apply to the use of this intra-facility portable equipment:
   A. This equipment shall not reside or remain for more than twelve months at the same location within the facility.
   B. The period during which the equipment is maintained at a designated storage location shall be excluded from the residency time determination.
   C. Daily records shall be kept showing the location of the equipment.
   [Rule 1110.2, Rule 1303-BACT]

10. The engine shall only be operated with the oxygen sensor and 3-way catalyst in full operation. Replacement/maintenance/cleaning of oxygen sensor and 3-way catalyst shall be carried out as per manufacturer's recommendations.
    [Rule 1303-BACT, 1304(a)(4)-Modeling and Offset Exemptions, Rule 1401]

11. Emissions from operation of this equipment shall not exceed;

Pollutant	lbs/month
NOx	12.40
VOC	68.20
CO	266.60

    [Rule 1313(g), Rule 1303-BACT, Rule 1303-Offsets]

12. This permit shall expire if construction of this equipment is not completed within one year from the date of issuance unless an extension is granted by the Executive Officer.
    [Rule 205]

13. Records shall be maintained to verify compliance with the conditions of this permit for at least five (5) years and made available to SCAQMD personnel upon request.
    [Rule 204]

Emission and Requirements

13. This equipment is subject to the applicable requirements of the following rules and regulations:

    PM: Rule 404, see Appendix B for emission limits.
    VOC + NOx: 0.06 g/BHP-hr, 40 CFR Part 1048
    VOC + NOx: 0.08 g/kW-hr, 40 CFR Part 1048
    VOC: 1.5 g/BHP-hr, Rule 1303-BACT
    NOx: 1.5 g/BHP-hr, Rule 1303-BACT
    CO: 15.4 g/BHP-hr, 40 CFR Part 1048
    CO: 20.6 g/kW-hr, 40 CFR Part 1048
    CO: 2.0 g/ BHP-hr, Rule 1303-BACT

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G50663
A/N 587828

Equipment Description:

Internal Combustion Engine, intra-facility portable, Caterpillar Perkins, Model No. C4.4, 173 BHP, diesel fueled, four cycle, rich burn, 8 cylinders, turbocharged-aftercooled, driving an emergency electrical generator, with diesel oxidation catalyst, SCR catalyst, and ammonia oxidation catalyst.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued, unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating conditions at all times.
[Rule 204]

3. This engine shall not be operated more than a total of 200 hours in any one year, which includes no more than 50 hours in any one year for maintenance and performance testing.
[Rule 1110.2, Rule 1303-BACT, Rule 1304(a)(4)- Modeling & Offsets exemption, Rule 1470]

4. Operation beyond the 50 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage. Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.
[Rule 1303- BACT]

5. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2, Rule 1303-BACT, Rule 1304(a)(4)- Modeling & Offsets exemption]

6. The operator shall keep a log of engine operations documenting the total time the engine is operated each month and specific reason for operation as:
   A. Emergency use.
   B. Maintenance and testing.
   C. Hours of operation for demonstrating compliance with emission limits.
   D. Initial start-up testing hours.
   E. Other operating hours (describe the reason for operating).

   In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
   [Rule 1110.2, Rule 1303-BACT, Rule 1304(a)(4)- Modeling & Offsets exemption, Rule 1470]

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7. The sulfur content of diesel fuel supplied to this engine shall not exceed 15 ppm (0.0015%) by weight.
[Rule 431.2, Rule 1470, 40 CFR 60 Subpart IIII]

8. The owner or operator shall document the use of CARB diesel fuel (no. 2-ultra low sulfur) through the retention of fuel purchase records.
[Rule 1470]

9. The engine shall not be used as a part of a Demand Response Program using an Interruptible Service Contract in which a facility receives a payment or reduced rates in return for reducing its electric load on the grid when requested to do so by the utility or the grid operator.
[Rule 1303-BACT, Rule 1470]

10. The following conditions shall apply to the use of this intra-facility portable equipment:
A. This equipment shall not reside or remain for more than twelve months at the same location within the facility.
B. The period during which the equipment is maintained at a designated storage location shall be excluded from the residency time determination.
C. Records shall be kept showing the location of the equipment anytime the equipment is moved one from location to another.
[Rule 1110.2, Rule 1303-BACT]

11. The engine shall only be operated with all catalysts in full operation. Replacement/maintenance/cleaning of the catalysts shall be carried out as per manufacturer's recommendations.
[Rule 1303-BACT, 1304(a)(4)-Modeling and Offset Exemptions, Rule 1401]

12. This permit shall expire if construction of this equipment is not completed within one year from the date of issuance unless an extension is granted by the Executive Officer.
[Rule 205]

13. Records shall be maintained to verify compliance with the conditions of this permit for at least five (5) years and made available to SCAQMD personnel upon request.
[Rule 204]

Emission and Requirements

14. This equipment is subject to the applicable requirements of the following rules and regulations:

PM: Rule 404, see Appendix B for emission limits.
PM: 0.01 g/BHP-hr, Rule 1303-BACT
PM: 0.02 g/kW-hr, 40 CFR 1039
NOx: 2.5 g/BHP-hr, Rule 1303-BACT
NOx: 0.40 g/kW-hr, 40 CFR 1039
NMHC: 0.14 g/BHP-hr, Rule 1303-BACT
NMHC: 0.19 g/kW-hr, 40 CFR 1039
CO: 3.7 g/BHP-hr, Rule 1303-BACT
CO: 5.0 g/kW-hr, 40 CFR 1039

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FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. G48118
A/N 594294

Equipment Description:

Internal Combustion Engine, intra-facility portable, Caterpillar, Model No. C4.4, 123.4 BHP or 92.5 kW, diesel fueled, four cycle, rich burn, 8 cylinders, naturally aspirated, with a SCR catalyst, oxidation catalyst, and ammonia oxidation catalyst, driving a landfill refuse truck tipper.

Conditions:

1. Construction and operation of this equipment shall be conducted in compliance with all data and specifications submitted with this application under which this permit is issued unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]

3. This engine shall not be operated for more than 3,720 hours in any one calendar year, 310 hours in one calendar month, and 12 hours in any one day.
[Rule 204, Rule 1301-Offsets]

4. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2, Rule 1303-Offsets]

5. The operator shall keep a log documenting the date of operation, the elapsed time (in hours), the location where the engine is operated, and the particulate cleaning dates. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-Offsets]

6. The engine shall be fired on diesel fuel with 15 ppmv of sulfur (0.0015% by weight) or less.
[Rule 431.2]

7. The following conditions shall apply to the use of this intra-facility portable equipment:
   A. This equipment shall not reside or remain for more than twelve months at the same location within the facility.
   B. The period during which the equipment is maintained at a designated storage location shall be excluded from the residency time determination.
   C. Daily records shall be kept showing the location of the equipment.
   [Rule 1110.2, Rule 1303-BACT]

8. The engine shall only be operated with all catalysts in full operation. Replacement/maintenance/cleaning of the catalysts shall be carried out as per manufacturer's recommendations.
[Rule 1303-BACT, 1304(a)(4)-Modeling and Offset Exemptions, Rule 1401]

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9. The operator shall keep a log documenting the date of operation, the elapsed operating time (in hours), the location where the engine is operated, and the catalysts cleaning dates. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 204, Rule 1110.2]

10. Records shall be maintained to verify compliance with the conditions of this permit for at least five (5) years and made available to SCAQMD personnel upon request.
[Rule 204]

Emissions and Requirements:

11. This equipment is subject to the applicable requirements of the following rules and regulations:

PM: Rule 404, see Appendix B for emission limits.
PM: 0.01 g/BHP-hr, Rule 1303-BACT
PM: 0.02 g/kW-hr, 40 CFR 1039
NOx: 2.5 g/BHP-hr, Rule 1303-BACT
NOx: 0.40 g/kW-hr, 40 CFR 1039
NMHC: 0.14 g/BHP-hr, Rule 1303-BACT
NMHC: 0.19 g/kW-hr, 40 CFR 1039
CO: 3.7 g/BHP-hr, Rule 1303-BACT
CO: 5.0 g/kW-hr, 40 CFR 1039

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PERMIT TO CONSTRUCT/OPERATE

Permit No. G50665
A/N 596479

Equipment Description:

Internal Combustion Engine, intra-facility portable, Caterpillar, Model No. C4.4, 123.4 BHP or 92.5 kW, diesel fueled, four cycle, rich burn, 8 cylinders, naturally aspirated, with a SCR catalyst, oxidation catalyst, and ammonia oxidation catalyst, driving a landfill refuse truck tipper.

Conditions:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued, unless otherwise noted below.
[Rule 204]

2. This equipment shall be properly maintained and kept in good operating conditions at all times.
[Rule 204]

3. This engine shall not be operated for more than 3,744 hours in any one calendar year, 312 hours in one calendar month, and 12 hours in any one day.
[Rule 1303-Offsets]

4. Within 90 days of the start of this engine, the applicant shall surrender the permit and stop operations of A/N 495479.
[Rule 1303-Offsets]

5. An operational non-resettable elapsed time meter shall be installed and maintained to indicate the engine elapsed operating time.
[Rule 1110.2; Rule 1303-Offsets]

6. The operator shall keep a log documenting the date of operation, the elapsed time (in hours), the location where the engine is operated, fuel type, fuel consumption, and the particulate cleaning dates. The log shall be kept for a minimum of five calendar years and shall be made available to SCAQMD personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.
[Rule 1110.2, Rule 1303-Offsets]

7. The engine shall be fired on diesel fuel with 15 ppmv of sulfur (0.0015% by weight) or less.
[Rule 431.2]

8. The following conditions shall apply to the use of this intra-facility portable equipment:
   A. This equipment shall not reside or remain for more than twelve months at the same location within the facility.
   B. The period during which the equipment is maintained at a designated storage location shall be excluded from the residency time determination.
   C. Daily records shall be kept showing the location of the equipment.
   [Rule 1110.2, Rule 1303-BACT]

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9. The engine shall only be operated with all catalysts in full operation. Replacement/maintenance/cleaning of the catalysts shall be carried out as per manufacturer's recommendations.
[Rule 1303-BACT, 1304(a)(4)-Modeling and Offset Exemptions, Rule 1401]

10. This permit shall expire if construction of this equipment is not completed within one year from the date of issuance unless an extension is granted by the Executive Officer.
[Rule 204]

11. Records shall be maintained to verify compliance with the conditions of this permit for at least five (5) years and made available to SCAQMD personnel upon request.
[Rule 204]

Emission and Requirements

12. This equipment is subject to the applicable requirements of the following rules and regulations:

PM: Rule 404, see Appendix B for emission limits.
PM: 0.01 g/BHP-hr, Rule 1303-BACT
PM: 0.02 g/kW-hr, 40 CFR 1039
NOx: 2.5 g/BHP-hr, Rule 1303-BACT
NOx: 0.40 g/kW-hr, 40 CFR 1039
NMHC: 0.14 g/BHP-hr, Rule 1303-BACT
NMHC: 0.19 g/kW-hr, 40 CFR 1039
CO: 3.7 g/BHP-hr, Rule 1303-BACT
CO: 5.0 g/kW-hr, 40 CFR 1039

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RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, Coating Equipment, portable, architectural coatings.

Periodic Monitoring:

1. The operator shall keep records, in a manner approved by the SCAQMD, for the following parameter(s) or item(s):

   For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records of all coatings consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/L) of materials for low-solids coatings, (c) VOC content as supplied in g/L of coating, less water and exempt solvent, for other coating.

   For other architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/L) of materials used for low-solids coatings, (c) VOC content as applied in g/L of coating, less water and exempt solvent, for other coating.
   [Rule 3004(a)(4)]

Emissions and Requirements:

2. This equipment is subject to the applicable requirements of the following rules and regulation:

   VOC: Rule 1113, See Appendix B for emission limits
   VOC: Rule 1171, See Appendix B for emission limits

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RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, Hand Wiping Operations.

Emissions and Requirements:

1. This equipment is subject to the applicable requirements of the following rules and regulation:

   VOC: Rule 1171, See Appendix B for emission limits

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RULE 219 EQUIPMENT

Equipment Description:

Rule 219 Exempt Equipment, Fire Extinguishing Equipment.

Emissions and Requirements:

1. This equipment is subject to the applicable requirements of the following rules and regulation:

   Halon: Rule 1418
   VOC: Rule 1171, See Appendix B for emission limits

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SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
   a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
   b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
   c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the SCAQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]

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5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]

6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to SCAQMD personnel upon request and be maintained for at least five years. [204]

7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by SCAQMD rules or permit conditions: [204]

   a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]

   b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]

   c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]

   d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO2) and be averaged over 15 consecutive minutes; [407]

   e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO2) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

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f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O2) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]

8. The operator shall, when a source test is required by SCAQMD, provide a source test protocol to SCAQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by SCAQMD. The test protocol shall contain the following information: [204, 304]

a. Brief description of the equipment tested.

b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.

c. Operating conditions under which the test will be performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.

f. Description of calibration and quality assurance procedures.

g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).

9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by SCAQMD rules or equipment-specific conditions. The report shall contain the following information: [204]

a. The results of the source test.

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b. Brief description of the equipment tested.

c. Operating conditions under which the test was performed.

d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).

e. Field and laboratory data forms, strip charts and analyses.

f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.

10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of SCAQMD Source Test Method 1.1 and 1.2. [217]

11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, SCAQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, SCAQMD, 21865 Copley Drive, Diamond Bar, CA 91765-4178. [204]

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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE

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SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

NOT APPLICABLE

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE

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FACILITY PERMIT TO OPERATE
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SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

Application	Rule
291681	431.1
522294	1150.1
527679	3003
595321	431.1
595636	1150

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

South Coast
Air Quality Management District
21865 E. Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • www.aqmd.gov

April 1, 2003

Sam Rojas
Browning Ferris Industries – Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

RE: Rule 431.1 Alternative Monitoring Plan for the Sunshine Canyon Landfill
Facility ID: 49111 Application No. 291681

Dear Mr. Rojas;

In a letter dated June 17, 1997, an Alternative Monitoring Plan (AMP) was submitted to demonstrate compliance with South Coast Air Quality Management District (AQMD) Rule 431.1 at the Sunshine Canyon Landfill. An updated package of information dated November 10, 2001 was also submitted. The AMP has been approved by AQMD, CARB and EPA provided that the following conditions are met:

1) The colorimetric tubes (TUBES) for analyzing H_2S as TS shall be used in accordance with manufacturer's instructions. Testing with TUBES shall be conducted by personnel properly trained in its operation. The TUBES shall be used within their shelf life.

2) Based on the concentration of Total Sulfur (TS) in the landfill gas (as measured by a TUBE), tiered sampling and reporting requirements as outlined in the following table shall be implemented.

FLARE #1:

ACTION LEVEL	BFI PROPOSED MONITORING	AQMD MODIFIED TIERS	SAMPLING REQUIREMENT
Tier I	TS ≤ 100 ppm	TS < 100 ppm	- Quarterly using Method 307-91 - Monthy using TUBE
Tier II	100 ppm < TS ≤ 120 ppm	100 ppm ≤ TS < 120 ppm	- Monthly using Method 307-91 - Weekly using TUBE
Tier III	120 ppm < TS ≤ 135 ppm	120 ppm ≤ TS < 130 ppm	- Weekly using Method 307-91 - Daily using TUBE
Tier IV		TS ≥ 130 ppm	- Potential RULE 431.1 Violation - Inform AQMD immediately following R430 Breakdown Provisions - Daily using Method 307-91

Browning Ferris Industries, Inc.
April 1, 2003

FLARE #3:

ACTION LEVEL	BFI PROPOSED MONITORING	AQMD MODIFIED TIERS	SAMPLING REQUIREMENT
Tier I	TS ≤ 100 ppm	TS < 100 ppm	- Quarterly using Method 307-91 - Monthy using TUBE
Tier II	100 ppm < TS ≤ 120 ppm	100 ppm ≤ TS < 110 ppm	- Monthly using Method 307-91 - Weekly using TUBE
Tier III	120 ppm < TS ≤ 135 ppm	TS ≥ 110 ppm	- Potential RULE 431.1 Violation - Inform AQMD immediately following R430 Breakdown Provisions - Daily using Method 307-91

FLARE #8:

ACTION LEVEL	BFI PROPOSED MONITORING	AQMD MODIFIED TIERS	SAMPLING REQUIREMENT
Tier I	TS ≤ 100 ppm	TS < 100 ppm	- Quarterly using Method 307-91 - Monthy using TUBE
Tier II	100 ppm < TS ≤ 120 ppm	100 ppm ≤ TS < 120 ppm	- Monthly using Method 307-91 - Weekly using TUBE
Tier III	120 ppm < TS ≤ 135 ppm	120 ppm ≤ TS < 128 ppm	- Weekly using Method 307-91 - Daily using TUBE
Tier IV		TS ≥ 128 ppm	- Potential RULE 431.1 Violation - Inform AQMD immediately following R430 Breakdown Provisions - Daily using Method 307-91

Since this AMP is approved, fuel gas determination and reporting for sulfur content, as described in Rule 431.1(g)(10) and outlined in your approved Rule 1150.1 Compliance Plan, no longer serves as a surrogate method of compliance with Rule 431.1.

If you have any further questions, please contact me at (909) 396-2684.

Sincerely,

Charles Tupac
Air Quality Analysis and Compliance Supervisor
Toxics and Waste Management Team

CT:sc

cc: David Jones, Compliance
File

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RULE 1150.1 COMPLIANCE PLAN

Plan No. 522294

Condition(s):

1. This plan shall be followed in accordance with all data and specifications submitted with the application under which this plan is issued, unless otherwise noted below.

2. A copy of this plan including its attachment shall be present at the facility at all times and shall be made available to SCAQMD personnel upon request.

3. This plan shall be followed in compliance with all applicable provisions of Rule 1150.1.

4. Notifications required per Rule 1150.1 and this Plan shall be submitted to Rule1150Notifications@aqmd.gov with the subject line "Rule 1150.1 Notification". This is separate from and not intended as a replacement for Rule 430/Title V Section K notification and reporting requirements.

5. This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

6. The following proposed alternatives to Rule 1150.1 have been approved:

A	*Flare Operations*
	Rule 1150.1(d)(1)(C)(i) Requirement: Route all collected landfill gas to a gas control system designed to be operated continuously to reduce methane by at least 99 percent by weight and reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The required reduction efficiency or ppmv shall be established by an initial source test, required under 40 CFR, Part 60, Section 60.8 and annually thereafter using the test methods specified in paragraph (j)(1). The annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test. Rule 1150.1(d)(1)(C)(ii)(III) Requirement: During restart or startup, an enclosed flare shall have sufficient flow of propane or commercial natural gas to the burners to prevent unburned collected methane from being emitted to the atmosphere. Rule 1150.1(f)(1)(A)(iii)(I) Requirement: The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the source test.
	Approved Alternative: The following frequency shall be used for source testing identical flares listed on one Permit to Operate, where identical means, but is not limited to: make and model, burners, operational settings, maintenance, and fuels. Single backup flare: After every 4,000 hours of operation. Multiple backup flares: One flare after every 4,000 hours of cumulative backup operation for all flares listed on the Permit to Operate. Alternate testing of the flares such that each flare is tested.

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	Non-backup flares: At least one flare every year and then alternate all others such that each is source tested at least once every three years. During restart or startup, an enclosed flare shall have sufficient flow of propane or commercial natural gas to the pilot. For each flare, the instantaneous combustion temperature shall be continuously recorded at least every 15 minutes and shall be maintained and be accessible by the facility.

B	*LFG Collection/Control Systems Operation*
	Rule 1150.1(d)(6) Requirement: Any area of the landfill that contains asbestos-containing waste or non-decomposable solid waste may be excluded from collection provided that the owner or operator submits documentation to the Executive Officer regarding the nature of the material, and the date of its deposit in the area. This documentation may be included as part of the design plan. Rule 1150.1(d)(16)(B) Requirement: Operate all Wellheads so the gauge pressure is under a constant vacuum (negative pressure), except under the conditions listed in 16(A) and 16(B). Rule 1150.1(e)(4)(C) Requirement: All corrective actions, including any expansion of the gas collection and gas control systems, must be completed and any new wells must be in operation within 120 days of the date of the first positive pressure measurement.
	Approved Alternative: Any area of the landfill footprint that does not contain waste may be excluded from gas collection provided that the owner or operator maintains documentation, which can be submitted to the Executive Officer upon request. Temporary shutdowns of wells due to concern for potential subsurface oxidation shall be allowed and constant vacuum shall not be required. A log of well shutdowns shall be kept on file. The owner or operator shall install and operate the new well or replacement well or an equivalent alternative remedy no later than 120 days after the first positive pressure measurement.

C	*Previous Boundary Probes*
	Rule 1150.1(d)(9) Requirement: If the District has not issued prior written approval for subsurface refuse boundary sampling probes, the owner or operator shall design and install subsurface refuse boundary sampling probes as specified in Section 1.1 Attachment A, to determine whether landfill gas migration exists. Installation of the refuse boundary probes shall be no later than 18 months after the submittal of the gas collection and gas control systems design plan as specified in paragraph (d)(1).
	Approved Alternative: The subsurface refuse boundary probes shown in the 3rd Quarter 2017 Rule 1150.1 Monitoring Report are approved. Except for like replacement of existing approved probes, all future designs and installations not meeting the rule requirement shall be submitted to SCAQMD for approval with a Rule 1150.1 Compliance Plan application.

D	*Subsurface Boundary Probe Sampling*
	Rule 1150.1(e)(1)(C) Requirement: If the resampling of the probe shows a second exceedance, additional corrective action shall be taken and the probe shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or

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	operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance. Rule 1150.1 Attachment A 1.1.2 Requirement: Wherever accessible, the probes shall be located no further than 100 feet from the refuse boundary. Rule 1150.1 Attachment A 1.3.2 Requirement: The constant TOC concentration shall be measured using an FID that meets the requirements in Section 3.2.
	Approved Alternative: The owner or operator shall install and operate the new well or replacement well or an equivalent alternative remedy no later than 45 days after detecting the third exceedance. Wherever accessible and the probes are greater than 100 ft. from the refuse, monitor instantaneously from the refuse boundary to the probe, using the grid method each quarter and when the probes exceed 2% TOC. Portable analyzers on an approved list of equipment maintained by the SCAQMD may be used as alternatives to an FID.

E	*Integrated Landfill Surface Sampling*
	Rule 1150.1(e)(2)(C) Requirement: If the resample of the grid shows a second exceedance, additional corrective action shall be taken and the grid shall be resampled again no later than 10 calendar days after the second exceedance. If the resample shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance. Rule 1150.1 Attachment A 2.1 Requirement: The number of samples collected will depend on the area of the landfill surface. The entire landfill disposal area shall be divided into individually identified 50,000 square foot grids. One monthly sample shall be collected from each grid for analysis. Any area that the Executive Officer deems inaccessible or dangerous for a technician to enter may be excluded from the sampling grids monitored by the landfill owner or operator. To exclude an area from monitoring, the landfill owner or operator shall file a written request with the Executive Officer. Such a request shall include an explanation of the requested exclusion and photographs of the area. The Executive Officer shall notify the landfill owner or operator in writing of the decision. Any exclusion granted shall apply only to the monitoring requirement. The 25 ppmv limit specified in paragraph (d)(11) of Rule 1150.1 applies to all areas. Rule 1150.1 Attachment A 2.5.4 Requirement: Walk through a course of approximately 2,600 linear feet over a continuous 25-minute period. Figure 2 shows a walk pattern for the 50,000 square foot grid.
	Approved Alternative: The owner or operator shall install and operate the new well or replacement well or an equivalent alternative remedy no later than 45 days after detecting the third exceedance. Sampling is not required on landfill surfaces that are inaccessible or dangerous for a technician to enter. Such areas of exclusion may include, but are not limited to: active working faces and other unsafe areas. Every effort to make such areas accessible and safe, including arranging for brush removal from sampling paths, shall be taken. Excluded areas shall be documented in each quarterly report. In the area of the excluded portions of the grids as referenced in Attachment A 2.1, the owner or operator shall provide vacuum readings from all gas extraction wells influencing each grid. The readings shall be included in the quarterly reports.

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F	*Instantaneous Landfill Surface Monitoring*
	Rule 1150.1(e)(3)(C) Requirement: If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be re-monitored again no later than 10 days after the second exceedance. If the re-monitoring shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance. Rule 1150.1 Attachment A 3.1 Requirement: The entire landfill disposal area shall be monitored once each calendar quarter. Any area of the landfill that the Executive Officer deems as inaccessible or dangerous for a technician to enter may be excluded from the area to be monitored by the landfill owner or operator. To exclude an area from monitoring, the landfill owner or operator shall file a petition with the Executive Officer. Such a request shall include an explanation of why the area should be excluded and photographs of the area. Any excluded area granted shall only apply to the monitoring requirement. The 500 ppmv limit specified in paragraph (d)(12) of Rule 1150.1 applies to all areas.
	Approved Alternative: The owner or operator shall install and operate the new well or replacement well or an equivalent alternative remedy no later than 45 days after detecting the third exceedance. Monitoring is not required on landfill surfaces that are inaccessible or dangerous for a technician to enter. Such areas of exclusion may include, but are not limited to: active working faces and other unsafe areas. Every effort to make such areas accessible and safe, including arranging for brush removal from monitoring paths, shall be taken. Excluded areas shall be documented in each quarterly report.

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Plan No.
595321

COMPLIANCE PLAN

Certain compliance plan pursuant to Rule 306 (h) are subject to annual renewal fees unless the equipment is moved or changes operator.

Plan Issue Date: 8/30/2017 **ID** 49111

Company: SUNSHINE CYN LANDFILL REPUBLIC SERV INC
DBA: BROWNING FERRIS INDUSTRIES/CA INC #0649
14747 SAN FERNANDO RD, ATTN: SUSAN JENNINGS
SYLMAR, CA 91342

Site Location: 14747 SAN FERNANDO RD, SYLMAR, CA 91342

Conditions :

1. This plan shall be followed in accordance with all data and specifications submitted with the application under which this plan is issued, unless otherwise noted below.
2. The operator shall comply with all applicable provisions of Rule 431.1.
3. The facility shall sample from all equipment combusting landfill gas to determine compliance with the daily average sulfur concentration limit of 150 ppmv. The concentration of sulfur shall be weighted on an actual flow basis.
4. If the daily average sulfur concentration exceeds 150 ppmv, the facility shall submit to the Executive Officer an application for a fuel gas control system within six months of the time of exceedance or non-compliance with the limit and demonstrate compliance no later than 18 months after the time of issuance.
5. The operator shall determine the daily average of all of the facility's sulfur compounds within a calendar day by following the necessary sampling requirement for all flares in operation (combusting landfill gas) as determined from the approved Rule 431.1 Alternative Monitoring Plan (A/N 291681 or subsequent approved application). Whenever sampling is required by either Method 307-91 or colorimetric tubes, the operator shall also conduct sampling on the same calendar day, from all flares in operation. For each colorimetric tube reading, the operator shall convert the H2S ppm to total reduced sulfur ppm by using a correction factor of 1.36, or other factor approved by SCAQMD.
6. All records of monitoring, sampling, and calculations shall be maintained by the facility for at least five years, and be made available to SCAQMD staff upon request.

ORIGINAL

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595321

NOTICE

This plan does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

A copy of this plan shall be displayed in the vicinity of the equipment subject to this plan.

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COMPLIANCE PLAN

Certain compliance plan pursuant to Rule 306 (h) are subject to annual renewal fees unless the equipment is moved or changes operator.

Plan Issue Date: 8/31/2017 **ID** 49111

Company: SUNSHINE CYN LANDFILL REPUBLIC SERV INC
DBA: BROWNING FERRIS INDUSTRIES/CA INC #0649
14747 SAN FERNANDO RD, ATTN: SUSAN JENNINGS
SYLMAR, CA 91342

Site Location: 14747 SAN FERNANDO RD, SYLMAR, CA 91342

Plan Description:
Rule 1150 Excavation Management Plan.

Conditions :

1. This excavation shall be conducted in compliance with all plans and specifications submitted with the application under which this Rule 1150 Excavation Management Plan is issued unless otherwise noted below.
2. The excavation plan shall expire on April 26, 2022
3. The SCAQMD shall be notified at least two (2) days prior to the excavation commencement and within five (5) days after its completion. The notification shall be made by emailing Rule1166Notification@aqmd.gov. The subject line of the email shall contain "Rule 1150 Notification." The body of the email shall contain the following information:
   - A. Company Name and Company ID
   - B. Plan Number
   - C. Site Address
   - D. Notification Type (2 days prior or 5 days after)
   - E. Estimated Excavation Start Date and Completion Date
   - F. Caller Name and Contact Information
4. This excavation management plan is valid for the removal and re-disposal of approximately 359,000 cubic yards of refuse and contaminated material.
5. Excavation shall not be conducted between the hours of 6:00 p.m. and 9:00 a.m. or on weekends and legal holidays unless otherwise approved in writing by the SCAQMD.
6. Excavation shall not be conducted on days when SCAQMD forecasts first, second, or third stage episodes for area number 13 or when the SCAQMD requires companies in area number 13 to implement their first, second or third stage episode plans. Episode forecasts for the following day can be obtained by calling (800) 288-7664.
7. During excavation, continuous monitoring and recording of the wind speed and directions shall be conducted at an appropriate site or, through the meteorological station if present at the site.

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8. Excavation shall not be conducted when the wind speed is greater than 15 mph (averaged over 15 minutes) or the wind speed instantaneously exceeds 25 mph.

9. During excavation, all working excavation areas, excavated material and unpaved roadways shall be watered down until the surface is moist and then maintained in a moist condition to minimize dust and emissions without creating a safety hazard condition.

10. If a distinct odor (level III or greater) resulting from the excavation is detected at or beyond the property line, the excavation shall cease and the approved mitigation measures implemented immediately. Excavation shall not resume until the readings return to the background level.

    Approved mitigation measures:

    A. Excavation shall be limited to one location at a time.

    B. Limiting excavation workface area.

    C. Minimizing soil disturbance/transfer.

    D. Limiting working hours.

    E. Using long duration foams, plastic sheeting, and 6 inches of clean dirt cover.

    F. Water and/or odor neutralizing products containing no VOC.

    G. Cleaning and covering of haul trucks.

    H. Good housekeeping.

11. VOC contaminated soil (as defined by Rule 1166) shall not be spread onsite or offsite if it results in uncontrolled evaporation of VOC to the atmosphere. VOC contaminated soil shall not be used for landfill cover.

12. During excavation, monitoring for Total Organic Compounds as methane using an Organic Vapor Analyzer (OVA) or other monitor approved by the SCAQMD shall be conducted continuously at the working face of the excavation and at the downwind property line or other approved locations. The maximum sustained readings (greater than 15 seconds) shall be recorded every 15 minutes. The OVA or other approved monitor shall be calibrated each day in accordance with manufacturers' specifications.

13. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) of 2,000 ppmv or greater at the working face, the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.

14. If the OVA or other approved organic monitor shows a sustained reading (greater than 15 seconds) or 200 ppmv or greater downwind from the site at the property line (or other approved locations), the excavation shall cease and the area generating the emissions shall immediately be completely covered with a minimum of 6 inches of clean dirt, plastic sheeting, foam, or an approved cover. Excavation shall not resume until the readings return to the background level.

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15. The excavation workface, which exposes refuse or other emission generating material to the atmosphere, shall not exceed 400 square feet, without prior written approval from the SCAQMD.

16. Excavated landfill material and refuse shall be stockpiled for relocation and burial onsite or hauled offsite for disposal.

17. Stockpiles shall not exceed a height greater than 8 feet and must be maintained so as to avoid steep sides.

18. All refuse/emission generating materials that are excavated/exposed to the atmosphere shall either be:

    A. Immediately covered (with either a minimum of 6" of clean soil, approved foam, or heavy duty plastic sheeting) whenever the excavation is not actively in progress, and at the end of each working day. Foam by itself shall not be used as a night cover if it is raining or rain is predicted by the National Weather Service prior to the next scheduled day of excavation.

    B. Immediately deposited into trucks/trailers for off-site transport and completely covered with an impermeable cover, with such covers tied down, except for during active loading/unloading of refuse. All seams shall be sealed to prevent any materials from escaping during transport.

19. When refuse loading is completed and during transport, no material shall extend above the sides or rear of the truck or trailer which will haul the excavated material. Excavated material shall be completely covered with an impermeable cover, with the cover tied down, and all seams shall be sealed to prevent any materials from escaping during transport.

20. The exterior of haul trucks or trailers including the tires shall be cleaned off prior to leaving the excavation site.

21. All materials that are listed as hazardous by a federal or state agency shall be considered "hazardous materials" for the purpose of this permit.

22. All excavated hazardous material shall be transported in such a manner as to prevent any emissions of hazardous materials.

23. All hazardous materials shall be transported in containers clearly marked as to the type of material contained and what procedures should be followed in case of accidental spills.

24. Excavated liquid hazardous materials with the potential to cause air emissions shall be encapsulated or enclosed in containers with sealed lids before loading into the transport vehicles.

25. Excavation, handling and stockpiling activities shall comply with the applicable requirements of Rule 403.

26. Daily inspections shall be conducted of all covered stockpiles to ensure the integrity of the plastic cover. An inspection log shall be maintained.

27. All records of excavation working hours monitoring results, daily amounts of materials excavated and relocated or hauled offsite, and other records required by this compliance plan shall be kept on file for at least two years and made available to the SCAQMD upon request.

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28. Mitigation measures, other than those listed in these conditions, which are deemed appropriate by SCAQMD personnel as necessary to protect the comfort, repose, health, and safety of the public, shall be implemented upon request.

29. This compliance plan or a copy of this compliance plan shall be present at the excavation site.

NOTICE

This plan does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the applicable Rules and Regulations of the South Coast Air Quality Management District (SCAQMD). This plan cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

A copy of this plan shall be displayed in the vicinity of the equipment subject to this plan.

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SECTION J: AIR TOXICS
[40CFR 63 Subpart AAAA 01-16-2003]

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS - MUNICIPAL SOLID WASTE LANDFILLS

(1) The owner/operator of a municipal solid waste (MSW) landfill shall comply with all applicable requirements of 40 CFR 63, Subpart AAAA and of 40 CFR 63, Subpart A – General Provisions by the compliance date(s) that are specified in these subparts.

(2) The owner/operator of a MSW landfill system shall comply with all applicable requirements for installation and operation of a landfill gas collection and/or control system as specified in 40 CFR 60, subpart Cc or WWW.

(3) The operator shall keep all records pursuant to Section 63.1980 of this subpart or Subpart A to demonstrate compliance with all applicable requirements. All records including data, calculations and any supporting documentation shall be prepared in a format which is acceptable to the AQMD.

(4) The operator shall submit all reports, notifications, plans, submittals and other communications required by Section 63.1980 of this subpart or Subpart A to the AQMD and, unless notified to the contrary by AQMD or US EPA, to US EPA Region IX (See Sections E and K of this permit for addresses).

(5) Alternative plans, compliance plans, and the construction and operation of new or modified air pollution control equipment that are required by this subpart shall be approved through the AQMD permit system.

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SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]

2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

   (B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]

4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

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Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:

   (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

   (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

   (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:

   (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or

   (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

   Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

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9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:

   (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;

   (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

   (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

   (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

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14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]

15. Nothing in this permit or in any permit shield can alter or affect:

    (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;

    (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;

    (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;

    (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;

    (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and

    (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]

16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

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EMERGENCY PROVISIONS

17. An emergency[1] constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:

    (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:

        (1) An emergency occurred and the operator can identify the cause(s) of the emergency;

        (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;

        (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,

        (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

    (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]

18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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1 "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

    (A) The date, place as defined in the Title V permit, and time of sampling or measurements;

    (B) The date(s) analyses were performed;

    (C) The company or entity that performed the analyses;

    (D) The analytical techniques or methods used;

    (E) The results of such analyses; and

    (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

    (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.

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(B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

(C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.

(D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]

23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]

24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:

(A) Identification of each permit term or condition that is the basis of the certification;

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(B) The compliance status during the reporting period;

(C) Whether compliance was continuous or intermittent;

(D) The method(s) used to determine compliance over the reporting period and currently, and

(E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]

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FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 109	5-2-2003	Federally enforceable
RULE 1113	2-5-2016	Non federally enforceable
RULE 1113	6-3-2011	Federally enforceable
RULE 1146.2	5-5-2006	Federally enforceable
RULE 1150	10-15-1982	Non federally enforceable
RULE 1150.1	3-17-2000	Federally enforceable
RULE 1150.1	4-1-2011	Non federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(1)-Modeling	12-6-2002	Non federally enforceable
RULE 1303(b)(1)-Modeling	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1303(b)(4)	12-6-2002	Non federally enforceable
RULE 1303(b)(4)	5-10-1996	Federally enforceable
RULE 1303(b)(5)(A)	12-6-2002	Non federally enforceable
RULE 1303(b)(5)(A)	5-10-1996	Federally enforceable
RULE 1303(b)(5)(B)	12-6-2002	Non federally enforceable
RULE 1303(b)(5)(B)	5-10-1996	Federally enforceable

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RULE 1303(b)(5)(D)(iii)	12-6-2002	Non federally enforceable
RULE 1303(b)(5)(D)(iii)	5-10-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable
RULE 1309.1	1-8-2010	Non federally enforceable
RULE 1309.1	5-3-2002	Federally enforceable
RULE 1401	10-7-2016	Non federally enforceable
RULE 1402	10-7-2016	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1703 - PSD Analysis	10-7-1988	Federally enforceable
RULE 1714	12-10-2012	Federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 212	12-7-1995	Federally enforceable
RULE 212	6-5-2015	Non federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	5-3-2013	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-5-2010	Federally enforceable
RULE 3003	11-5-2010	Federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3005	3-16-2001	Federally enforceable
RULE 3006	11-5-2010	Federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	7-1-2016	Non federally enforceable
RULE 304	7-1-2016	Non federally enforceable
RULE 306	7-1-2016	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 403	6-3-2005	Federally enforceable

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RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 701	6-13-1997	Federally enforceable
CA PRC CEQA	11-23-1970	Non federally enforceable
40CFR 60 Subpart WWW	10-17-2000	Federally enforceable
40CFR 63 Subpart AAAA	1-16-2003	Federally enforceable
40CFR 63 Subpart AAAA	4-20-2006	Federally enforceable
40 CFR 64	11-21-1997	Federally enforceable

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SUNSHINE CYN LANDFILL REPUBLIC SERV INC

APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

NONE

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 02-05-2016]

(1) Except as provided in paragraphs (c)(3), (c)(4) of the Rule, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District that is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

(2) No person within the District shall, at the point of sale of any architectural coating subject to the above paragraph (1), add to such coating any colorant that contains VOC in excess of the corresponding applicable VOC limit specified in the Table of Standards 2.

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 02-05-2016]
TABLE OF STANDARDS 1
VOC LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	Category Codes	Current Limit[1]	Effective Date			Small Container Exemption
			1/1/14	2/5/16	1/1/19	
Bond Breakers	5	350				✓
Building Envelope Coating	62	100			50	✓
Concrete-Curing Compounds	7	100				✓
Concrete-Curing Compounds For Roadways and Bridges[2]	7	350				✓[3]
Concrete Surface Retarder	58	50	50			✓
Default	51	50	50			✓
Driveway Sealer	52	50				✓
Dry-Fog Coatings	8	50	50			✓
Faux Finishing Coatings						
Clear Topcoat	9a	100	100			✓
Decorative Coatings	9	350				✓
Glazes	9b	350				✓
Japan	9c	350				✓
Trowel Applied Coatings	9d	50	50			✓
Fire-Proofing Coatings	10	150	150			✓
Flats	13	50				✓[5]
Floor Coatings	14	50				✓
Form Release Compound	16	100	100			✓
Graphic Arts (Sign) Coatings	17	200	150	200		✓
Industrial Maintenance (IM) Coatings	19	100				✓[5]
Color Indicating Safety Coatings		480				✓[5]
High Temperature IM Coatings	18	420				✓[5]
Non-Sacrificial Anti-Graffiti Coatings	19a	100				✓[5]
Zinc-Rich IM Primers	56	100				✓[5]
Magnesite Cement Coatings	22	450				✓[3]
Mastic Coatings	23	100	100			✓
Metallic Pigmented Coatings	24	150	150			✓
Multi-Color Coatings	25	250				✓[3]
Nonflat Coatings	26, 27, 28	50				✓[5]

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 02-05-2016]

Pre-Treatment Wash Primers	29	420				✓[3]
Primers, Sealers, and Undercoaters	30	100				✓
Reactive Penetrating Sealers	59	350				✓[4]
Recycled Coatings	33	250			150	✓
Roof Coatings	34	50				✓
Roof Coatings, Aluminum	53	100				✓
Roof Primers, Bituminous	4	350				✓[3]
Rust Preventative Coatings	35	100				✓[6]
Sacrificial Anti-Graffiti Coatings	60	50				✓[3]
Shellac						
Clear	37	730				✓[4]
Pigmented	38	550				✓[4]
Specialty Primers	39	100				✓
Stains	41	100				✓
Stains, Interior	40	250				✓
Stone Consolidants	61	450				✓[3]
Swimming Pool Coatings						
Repair	43	340				✓[3]
Other	42	340				✓[3]
Tile and Stone Sealers	63	100				✓
Traffic Coatings	45	100				✓
Tub and Tile Refinishing Coatings	64	420				✓[4]
Waterproofing Sealers	48	100				✓
Waterproofing Concrete/Masonry Sealers	49	100				✓
Wood Coatings		275				
Varnish	46, 47	275				
Sanding Sealers	36	275				
Lacquer	20	275				

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 02-05-2016]

Wood Conditioners	65	100				
Wood Preservatives						
Below-Ground	50	350				✓[3]
Other	55	350				✓[3]

1. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
2. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.
3. Effective 02/05/2016, the small container exemption no longer applies per (f)(1).
4. Effective 01/01/2018, the small container exemption no longer applies per (f)(1).
5. Effective 01/01/2019, the small container exemption is further restricted per (f)(1).
6. Effective 01/01/2020, the small container exemption is further restricted per (f)(1).

TABLE OF STANDARDS 1 (cont.)
VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 02-05-2016]
TABLE OF STANDARDS 2
VOC LIMITS FOR COLORANTS

Grams of VOC Per Liter of Colorant
Less Water and Less Exempt Compounds

COLORANT ADDED TO	Limit
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 06-03-2011]

(1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:

(A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or

(B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).

(2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 06-03-2011]

TABLE OF STANDARDS 1
VOC LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	Ceiling Limit[1]	Current Limit[2]	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges[3]		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350			
Rust Preventative Coatings	400	100			
Stone Consolidant		450			
Sacrificial Anti-Graffiti Coatings		100		50	
Shellac Clear Pigmented		 730 550			
Specialty Primers	350	100			
Stains		100			

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[RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit[1]	Current Limit[2]	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

TABLE OF STANDARDS 1 (cont.)
VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

TABLE OF STANDARDS 2
VOC LIMITS FOR COLORANTS

Grams of VOC Per Liter of Colorant
Less Water and Less Exempt Compounds

COLORANT	Limit[4]
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	**VOC g/l (lb/gal)**	**VOC g/l (lb/gal)**	**VOC g/l (lb/gal)**
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 02-01-2008]

SOLVENT CLEANING ACTIVITY (cont.)	CURRENT LIMITS* VOC g/l (lb/gal)	EFFECTIVE 1/1/2008* VOC g/l (lb/gal)	EFFECTIVE 1/1/2009 VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 02-01-2008]

SOLVENT CLEANING ACTIVITY (cont.)	CURRENT LIMITS* VOC g/l (lb/gal)	EFFECTIVE 1/1/2008* VOC g/l (lb/gal)	EFFECTIVE 1/1/2009 VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY	**VOC g/l (lb/gal)**	**VOC g/l (lb/gal)**
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	**VOC g/l (lb/gal)**	**VOC g/l (lb/gal)**
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

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APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	**VOC g/l (lb/gal)**	**VOC g/l (lb/gal)**
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

* The specified limits remain in effect unless revised limits are listed in subsequent columns.

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FACILITY PERMIT TO OPERATE
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APPENDIX B: RULE EMISSION LIMITS
[RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445

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APPENDIX B: RULE EMISSION LIMITS
[RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148

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APPENDIX B: RULE EMISSION LIMITS
[RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter"Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100

APPENDIX B

Current SCL Mitigation, Monitoring and Reporting Summary

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.0	**GEOLOGY**				
1.01		Inspection and approval by Dept. of Public Works after installation. An approved "as installed" plan shall be provided to the Local Enforcement Agency (LEA). Landfill elevations shall be surveyed by a licensed surveyor or registered civil engineer, and submitted to the Dept. of Public Works for approval not less than 60 nor more than 90 days before the due date for the Biennial Report to the Regional Planning Commission.	--Dept. of Public Works --LEA	Before commencing development of the landfill and periodically throughout fill operations.	Section 5 of Findings IMP-Part I
1.02	Final designs for major engineered structures will be based on the results of the detailed stability analyses of potential seismic events. Final cut slopes shall be no steeper than 1.5:1 (horizontal to vertical ratio excluding benches).	Approval of grading and drainage plans.	--Regional Water Quality Control Board (RWQCB) --Dept. of Public Works	Prior to commencing construction of structures.	C#44 IMP-Part I
1.03		Review and approval of periodic inspection reports of fill operations.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings

This Sunshine Canyon Landfill Mitigation Monitoring and Reporting Summary was prepared in compliance with the California Environmental Quality Act (CEQA), Public Resources Code, §21081.6. Pursuant to this section, "The public agency [County] shall adopt a reporting or monitoring program for the changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation."

NOTE: All mitigation measures will have oversight by the Community Advisory Committee and the County Regional Planning Commission through biennial reporting, provided for in Conditional Use Permit 00-194-5 and the Implementation and Monitoring Program. Requirements which are primarily the prerogative of Responsible Agencies are subject to refinement by each Responsible Agency during its discretionary permit process.

IMP: Conditional Use Permit and Oak Tree Permit, Implementation and Monitoring Program.

C: Conditional Use Permit and Oak Tree Permit, Condition of Project Approval.

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.04		Site inspections and review of operations reports.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings
1.05		Retention of certified geologist by permittee.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings
1.06	All grading activities shall be performed in accordance with applicable provisions of the County Code and with the rules and regulations as established by the County Department of Public Works. All grading within the landfill footprint that could impact off-site property, including but not limited to grading in connection with cell development, stockpiling, or excavation for borrow and cover materials.	Periodic inspections	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#37
1.07	All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.	Retention of certified geologist by permittee.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings
1.08	Areas outside of and above the cut and fill as shown on Exhibit "A-1" or “A-2” hereto (Figure 1-2 , dated 6-25-04 in the October 2004 EIR Addendum) will not be graded or similarly disturbed to create landfill areas. The Director of Public Works may approve additional	Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	C#37 IMP-Part I

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	grading, based upon engineering studies provided by the permittee and independently evaluated by the Director. Additional grading would be necessary for slope stability or related drainage purposes.				
1.09		Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	C#36 IMP-Part I
1.10		Retention of certified engineering geologist and registered civil engineer by permittee for regular inspections and oversight.	--LEA --Project certified engineering geologist --Project registered civil engineer --Dept. of Public Works --County Forester	Throughout fill operations.	Report of Waste Discharge Section 5 of Findings
1.11	Grading allows for ancillary facilities outside of the landfill footprint.	Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	Section 5 of Findings
1.12		Retention of certified engineering geologist and registered civil engineer by permittee for regular inspections and oversight.	--LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings
1.13	Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the	Approval of drainage plan. Retention of a consulting horti-culturalist/Registered Professional	--Dept. of Public Works --Project consulting	Approval prior to commencement of the required activity.	Section 5 of Findings IMP-Part X

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.	Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.	horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester --RWQCB	Revegetation throughout fill operations and on an ongoing basis.	
1.14		Retention of a consulting horti-culturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester --RWQCB	Throughout fill operations and on an ongoing basis.	C#44 IMP-Part X
1.15		Approval of shredded green and yard waste materials as a supplemental cover material.	--California Integrated Waste Management Board (CIWMB) --LEA	Prior to use in fill operations and on an ongoing basis.	C#23 C#24 IMP-Part II IMP-Part X
1.16	An operations checklist will be used by a certified engineering geologist, registered civil engineer or licensed surveyor for surveys following all earthquake events of 5.0 magnitude or greater wherein significant shaking or rolling movement was experienced at the landfill. All environmental protection and control systems for the landfill will use the best available control technology (BACT) and will be designed to withstand a maximum probable earthquake in accordance with Title 23,	Retention of a certified engineering geologist, registered civil engineer or licensed surveyor (for survey only) by the permittee and submittal of survey results to Dept. of Public Works.	--Dept. of Public Works --Project certified engineering geologist, registered civil engineer or licensed surveyor (for survey only)	After earthquake events of 5.0 magnitude or greater.	Section 5 of Findings IMP-Part I

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Division 3 Chapter 15, §Article 4 2547 of the California Code of Regulations (CCR). A comparison of operating parameters and site conditions before and after major earthquake events (5.0 magnitude or greater) will be made to verify that the designed systems are operational.				
1.17	The landfill facility shall be designed and constructed to meet California Code of Regulations (CCR), Title 14, Division 7, Chapter 3, Article 7.8, ' 17777 (Final Site Face) and CCR, Title 23, Division 3, Chapter 15, Article 4, ' 2547 (Seismic Design) requirements Ato withstand the maximum probable earthquake without damage to the foundations or to the structures which control leachate, surface drainage, erosion, or gas.@ Design consideration shall include strong ground shaking and secondary ground rupture. In addition, the permittee shall comply with RCRA, Subtitle D, 40 CFR Part 258, Subpart B, ' 258.13 (Fault Areas) which states Anew municipal solid waste landfill units and lateral expansions shall not be located within 200 feet (60 meters) of a fault that has had displacement in Holocene time . . .@ The landfill design and seismic analysis will be reviewed by the RWQCB.	Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings
1.18		Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works	Throughout fill operations	Section 5 of Findings

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
			--LEA		
1.19		Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings
1.20		Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings
2.0	**SURFACE WATER**				
2.01		Approval of drainage plan and Waste Discharge Requirements. On-site inspections by the appropriate regulatory agencies.	--Dept. of Public Works --RWQCB	Prior to commencement of landfill development and on an ongoing basis through landfill closure.	Section 5 of Findings C#38
2.02		Approval of drainage plan and Waste Discharge Requirements. On-site inspections by the appropriate regulatory agencies.	--Dept. of Public Works --RWQCB	Prior to commencement of landfill development and on an ongoing basis through landfill closure.	Section 5 of Findings
2.03	As development of the site proceeds, surface drainage control facilities will be maintained so that surface water runoff is diverted from the working faces and isolated from contact with the waste. On-site drainage control channels will be designed per CCR, Title 23, Division 3	Approval of drainage plan. Retention of registered civil engineer by permittee for inspections and supervision.	--Dept. of Public Works --Project registered civil engineer --RWQCB	Plan approval prior to commencement of landfill development. Surface drainage controls will be phased over the life of the	Section 5 of Findings C#38

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Chapter 15, Article 3, § 2546, which mandates the requirements for a capital storm event (100-year, 24-hour precipitation).			project.	
2.04		Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.05		Retention of certified engineering geologist by permittee for inspections and oversight.	--RWQCB --Project certified engineering geologist	Prior to commencing landfill operations. Throughout fill operations.	Section 5 of Findings C#38
2.06		Approval of Closure and Postclosure Maintenance Plans. Review of periodic inspection reports of fill operations.	--RWQCB --LEA	Prior to placement of the final cover.	Section 5 of Findings C#37 C#38
2.07		Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.08		Approval of drainage plan.	--Dept. of Public Works --RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.09	In order to monitor the effectiveness of those measures designed to prevent pollution from entering the off-site stormwater system, the permittee shall be required to apply for coverage under the SWRCB's General Construction Activities Stormwater Permit Programs.		--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#38

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
2.10	The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basis shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.	Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.11		Review and approval of periodic inspection reports, and field inspections by RWQCB personnel. Monitoring in accordance with Waste Discharge Requirements.	--Dept. of Public Works --RWQCB --LEA	Monitoring will occur during landfilling and during the closure and postclosure monitoring period at the landfill.	Section 5 of Findings IMP-Part X
2.12		Approval of drainage plan.	--Dept. of Public Works --RWQCB --LEA	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.13		Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings.
2.14	An erosion control plan will be implemented by the permittee to prevent stormwater pollution from construction activity. Construction materials, equipments and vehicles will be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to	Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#42

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	stormwater runoff. Pre-construction controls will be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in stormwater runoff.				
2.15	A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the on-site drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly. Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.	Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#42
3.0	**GROUNDWATER**				
3.01		Issuance of Solid Waste Facilities Permit.	--CIWMB --LEA	Prior to commencement of the required activity.	C#28
3.02		Review and approval of project's	--RWQCB	Prior to	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		design. Report of Waste Discharge and issuance of Waste Discharge Requirements.		commencement of the required activity.	C#39
3.03		Review and approval of the Report of Waste Discharge	--RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#38 C#39
3.04		Retention of a certified engineering geologist by permittee for inspections.	--Project certified engineering geologist --RWQCB --LEA	During the installation of the soil liner.	Section 5 of Findings C#39
3.05		Review and approval of the project's design, the Report of Waste Discharge and the issuance of Waste Discharge Requirements.	--RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#39
3.06		Monitoring and inspections in accordance with Waste Discharge Requirements	--Project certified engineering geologist --RWQCB --LEA	Throughout fill operations and during the closure and postclosure maintenance period.	Section 5 of Findings C#40
3.07		Approval of the Closure and Postclosure Maintenance Plans.	--CIWMB --RWQCB --LEA	Prior to placement of final cover at final approved elevations.	Section 5 of Findings C#17
3.08		Inspections and review of monitoring reports.	--LEA --RWQCB	Throughout fill operations and during final closure activities.	Section 5 of Findings C#17

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
3.09		Retention of certified engineering geologist by permittee for supervision and on-site inspections by the RWQCB.	--RWQCB --Project certified engineering geologist --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings
3.10		Review and approval of periodic inspection reports during fill operations.	--LEA --RWQCB	Throughout fill operations.	Section 5 of Findings C#39
3.11	Irrigation will be limited to insure a balance between irrigation and evapotranspiration. Revegetation plant species will be County approved drought tolerant.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist for ongoing supervision of revegetation programs.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --LEA	Throughout fill operations.	Section 5 of Findings C#41
3.12	Dust control water will be applied to wet only the upper soil surface. Evaporation is the natural means whereby this water is dissipated.	Field inspections by permittee and RWQCB.	--Facility Manager --RWQCB	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#45
3.13		Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#39
3.14		Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#40
3.15		Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#43 C#55

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.0	**BIOTA**				
4.01		Dedication to County or other public agency designated by the County.	--Dept. of Parks and Recreation --Facility Manager	Prior to commencement of development activities on the landfill site. **This mitigation measure has been completed.**	Section 6 of Findings
4.03	The permittee will retain an individual who is well-qualified by education and training in the biological sciences (including local animal and plant communities) and whose duties will include participation in the review of any installation of equipment or other activity in East Canyon and any resource assessment prepared in connection with such activity.	Retention of independent qualified biologist by the permittee.	--Dept. of Regional Planning	Prior to commencement of development activities on the landfill site. **This mitigation measure has been completed.**	Section 6 of Findings IMP-Part VI
4.04		Dedication to County or other public agency designated by the County.	--Dept. of Regional Planning	Within thirty (30) days from effectuation of 1993 project grant or before commencement of disposal operation negotiations for parcels will take place. Within three (3) months after acquisition, parcels will be dedicated to	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				the County or other public agency designated by the County. **This mitigation measure has been completed.**	
4.05		Permittee will deposit with the Director of Planning the following: --A sum of $432,000.00 prior to the commencement of construction of the landfill, and --Annually (on January 10th of each year) for the life of the project's grant submit the sum of $81,000.00 to update County SEA studies.	--Dept. of Regional Planning	--Prior to commencement of the required activity. **This mitigation measure has been completed.** --Annually for the duration of the grant.	Section 6 of Findings C#68
4.06		Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of revegetation programs.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --City of Los Angeles	Throughout fill operations and on an ongoing basis.	Section 6 of Findings
4.07	The approximately 100-acre buffer zone will not be developed with the exception of	Retention of a consulting horticulturalist/Registered	--Project consulting horticulturalist/	Throughout fill operations and on an	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	development necessary to continue the existing use for gas, oil and lease operations, and such uses as approved by the City of Los Angeles. This area will continue to serve as a buffer between the landfill operation and other properties and will be maintained as open space. The area will also be enhanced with vegetation to promote wildlife.	Professional Forester and an independent qualified biologist by the permittee for implementation of revegetation programs.	Registered Professional Forester and an independent qualified biologist --City of Los Angeles	ongoing basis.	
4.08		Installation of survey monuments for verification of landfill elevations and conductance of survey for inclusion in Biennial Monitoring Reports to Regional Planning Commission.	--Dept. of Public Works --Dept. of Regional Planning --County Forester --LEA	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#35
4.09		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for supervision. Inspections by County Forester.	--Project consulting horticulturalist/ Registered Professional Forester and an Independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.10	The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.		--County Forester --Dept. of Public Works --Permittee's Registered Forester	Throughout fill operations.	C#35
4.11	An Oak Tree Mitigation Plan will be implemented in a manner intended to meet or exceed the minimum replanting requirements of the Los Angeles County Oak Tree Permit 86-312 and will include measures for replacement oak tree planting within Sunshine Canyon, East Canyon, and other off-site areas acceptable to the County Forester. This plan also provides for a 5-year Monitoring and Management Program to guarantee survival of replacement trees for a minimum of 5 years after the trees are established at 1-inch in diameter and 1-foot above the natural grade.	Issuance of the Oak Tree Permit. Monitoring and inspections by County Forester pursuant to formal "Agreement" with permittee. Agreement will include provisions for: - Permanent photo points established to document oak tree growth and establishment; - Accounting for each tree removed; - Comprehensive annual inventory; and - Monthly inspections by County Forester. Additional provisions will specify corrective procedures for the permittee, suspension circumstances, dispute resolution and financial security for	--County Forester --Project Registered Forester --Dept. of Regional Planning --LEA	Throughout fill operations and on an ongoing basis.	IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		implementation guarantee. Retention of a Registered Professional Forester by permittee for implementation of the replanting programs.			
4.12	The permittee will provide a minimum 2:1 replacement for oaks and a 5:1 replacement for Bigcone Douglas-fir. Replacement oak and fir trees will be counted when the tree reaches 1-inch diameter at 1-foot above the natural grade. Other tree species will also be planted. The permittee will maintain and monitor the oak trees for a minimum 5-year period after reaching count-size status to provide a minimum two-hundred 200% replacement.	Issuance of the Oak Tree Permit. Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester --Dept. of Regional Planning	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI
4.13	All oak trees will be counted when removed to verify that adequate mitigation has been provided in accordance with the Oak Tree Mitigation Plan.	Monitoring by County Forester. Submittal of biennial report by permittee.	--County Forester --Project Registered Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part VII IMP-Part X
4.14	The permittee will guarantee the survival of Bigcone Douglas-fir for a 5-year period after trees are established at 1-inch in diameter at 1-foot above the natural grade. Tree seedlings would be grown on-site, in the permittee's greenhouse. The higher stands of existing fir trees located on the uppermost ridge slopes will not be disturbed by the landfill development.	Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester.	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part VII

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.15	Nonnative tree species shall be replaced at a 2:1 ratio, consisting of 3-gallon Coast live oak trees.	Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.16	Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallon container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing trees to grow to specimen size in the field. A specimen-size tree shall be defined as a 15-gallon tree with a minimum trunk caliper of one inch measured one foot above ground. All mitigation trees shall be specimen size within one year after tree removal.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.17	A total of one-hundred 24-inch box and twenty-five 36-inch box size Coast live oak trees shall be planted in areas identified by the City. These trees shall be natural in form. The total mitigation tree count obtained using the 5:1 replacement ratio shall be reduced by 125 trees to account for the inclusion of these larger trees.		--City of LA Dept. of Parks & Recreation	**This mitigation measure has been completed.**	Section 5 of Findings
4.18	Mitigation tree planting shall occur within the ±100-acre open space area located south of the existing inactive landfill. Appropriate planting locations shall be selected within the buffer area based on soil type, steepness of the slope, and aspect (i.e. location and/or direction of the sun).		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.19	Prior to tree planting, the mitigation site shall be prepped to create an environment favorable for native and nonnative tree growth and survival. The initial step in tree planting is to clear away unwanted grass, weeds, or brush. A minimum 3-foot radius of vegetation shall be cleared around the planting location. All planting holes shall be dug to a minimum depth of 24 inches. If soil conditions cannot accommodate the minimum depth, planting holes shall be relocated to a more suitable location. Trees will be spaced 15 to 20 feet in a random, nongeometric pattern. Row or grid spacing will be avoided to provide a natural look to the mitigation planting.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.20	A poultry wire screen with 1-inch-diameter holes shall be installed around the outside wall of the tree planting hole and folded closed on the bottom. The screen shall extend downward to enclose the root ball of the tree that will protrude one-foot above final grade.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.21	Backfill material shall be used, planting material shall consist of loose friable soil. The planting shall be backed to a depth that allows the root crown of the plant to be even with or slightly higher than the surrounding grade. All planting locations shall be pre-irrigated to ensure that more levels are at or near capacity.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.22	Prior to tree planting, all containers shall be thoroughly soaked. Once at the mitigation site, trees shall not be removed from their		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	containers until all site preparation work has been completed. The wire cage shall be installed around the planting hole, and backfill material shall be filled to one-half the depth of the root wod. A 27-gram Agriform fertilizer tablet shall be placed approximately one-inch from the root wod. Backfilled soil shall be tamped and soaked to remove any air pockets.				
4.23	Following tree planting, the area shall be mulched with either wood chip or recycled green waste. The mulch shall be applied in an even layer approximately 6 inches or more in thickness.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.24	Drip irrigation shall be provided for all planted trees to ensure adequate growth and to allow for year-round planting. The irrigation system shall include a liquid fertilizer injection system to maintain optimum plant health and growth.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.25	The irrigation system shall utilize plastic polyvinyl chloride piping as its main supply lines. Distribution lines shall consist of ½-diameter polyethylene drip tubing. Water shall be delivered to the plants via conventional drip spot emitters. Vortex emitters rated at 1 to 3 gallons per hour shall be used for the emitters. All irrigation waters shall be filtered through a "Y" filter containing a 150 mesh screen. The irrigation systems shall be controlled automatically with remote battery-powered controllers and electrical irrigation valves. Watering frequency and duration shall be adjusted as necessary, depending on soil		--County Forester --Project Registered Forester	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	condition, weather, and plant requirements.				
4.26	To assure successful establishment and survival of the mitigation trees, a 3-year monitoring and maintenance program shall be implemented. Each year, the mitigation planting shall be monitored for growth and survival.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings IMP-Part VI IMP-Part X
4.27	Venturan Coastal Sage Scrub: A detailed conceptual mitigation plan shall be prepared by the permittee and shall contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes coastal sage scrub restoration can feasibly occur on-site. The implementation of this plan will provide on-site mitigation greater than 1:1 to offset the loss of coastal sage scrub.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.28	Venturan Coastal Sage Scrub: Surface soils and seed sources will be gathered from areas of the Project site and spread within on-site mitigation areas.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.29	San Diego Horned Lizard: Impacts on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.30	California Gnatcatcher: Surveys shall be conducted for California gnatcatchers prior to on-site grading to determine the status of this species within development areas. Surveys shall be conducted in accordance with USFWS protocol and, if present, a Section 10(a) permit from the USFWS would be obtained by the permittee. If grading activities occur during the nesting season (i.e. March through July), a federally permitted biologist will survey areas of Project development to determine whether the species is present. If California gnatcatchers are present, on-site grading activities shall cease until USFWS officials are notified. Either additional coastal sage scrub restoration or the purchase of suitable off-site habitat will be required if California gnatcatchers are found on-site.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.31	Least Bell=s Vireo: Surveys shall be conducted for *least Bell=s vireo* prior to on-site grading to determine the status of this species within development areas. Surveys shall be conducted in all areas of potential habitat. If this species is present on-site, a Section 10(a) permit from the USFWS would be obtained by the permittee. If grading activities occur during the nesting season (i.e. April through July), a biologist will survey areas of Project development to determine if the species is present. If present, on-site grading activities shall cease until USFWS officials are notified.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.32	Western Burrowing Owl: Preconstruction surveys shall be conducted by a consulting biologist at least 30 days prior to Project grading to determine if the species is within the County portion of the Project site. If surveys indicate the presence of western burrowing owls, a relocation program shall be implemented.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.33	Migratory Bird Treaty Act: To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e. March 15 to August 1). If vegetation clearing needs to occur, surveys shall be conducted by biologists to determine active migratory bird nests. All active migratory bird nests shall be protected until the young become independent.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.34	Raptor Nests: If habitat removal is proposed during the raptor breeding season (i.e. March to July), a survey shall be conducted for active nesting areas. If active nests are found, no construction activity shall take place within 500 feet of an active nest until the young have fledged. The 500-foot perimeter around each active nest shall be fenced. Trees containing nests shall only be removed during the non-breeding season.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.35	An annual monitoring report shall be prepared and submitted by the permittee to the County Forester. This report shall detail the growth		--County Forester --Project Registered Forester	Throughout fill operations.	Oak Tree Permit 86-312

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	and survival record for each mitigation tree planted. The report will provide an accounting of the number of trees required for mitigation versus the number of qualifying trees planted. Maintenance recommendations will be included in the annual report.				
4.36	Areas of the site will be revegetated as required by the Conditional Use Permit, Conditions of Project Approval and the requirements of the CIWMB (Revegetation Plan and Closure and Postclosure Maintenance Plans). Suitable vegetation will be planted as part of the Revegetation Plan to provide habitat for wildlife and enhance existing open space areas.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for implementation of revegetation programs in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester --LEA --CIWMB	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part X
4.37	The landfill will be planted with a mosaic of trees, shrubs and grasslands to provide a variety of suitable habitats for wildlife. As operating lifts are completed, the finished slope will be covered with 15 feet (i.e. horizontal width) of amended soil and recycled green waste placed on the front surfaces of slopes that have received the impermeable seal as shown on Exhibit "B." Soil amendments will be included to balance any unsuitable characteristics such as acidity (Ph). Fertilizers will be added at the time of soil placement and will continue as part of the permittee's ongoing maintenance program. This soil cover will provide rooting material for the final vegetation. Revegetation will take place concurrently with landfilling operations as development of the landfill progresses up	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of revegetation measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans. Approval and monitoring by County Forester and LEA.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester --LEA --CIWMB	Throughout fill operations.	Section 5 of Findings IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	the canyon. Relatively small (2 to 3 acres) active filling areas and other operations areas (maximum 5 acres each for liner preparation, cut-for-cover areas, etc.) of the landfill will not be revegetated. The remainder of the inactive disturbed areas on-site will be planted with either temporary or permanent vegetation.				
4.38	Recycled green waste will be used as permitted to amend cover soils to provide an enhanced revegetation growing medium.	Approval of green waste material as soil amendment.	--County Forester	Throughout fill operations.	Section 6 of Findings IMP-Part II
4.39	Revegetation of slopes and fill areas with appropriate native flora will be accomplished to support local fauna.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#41 IMP-Part VI IMP-Part X
4.41	The Revegetation Plan will, insofar as possible, obtain replacement cover material from within Sunshine Canyon to retain soil composition compatible with native flora and leave the surrounding topography undisturbed.	Revegetation measures in accordance with Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#41 IMP-Part VI
4.42	Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by	--Project consulting horticulturalist/ Registered Professional Forester	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#44 IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	inactive status so that appropriate dust control and revegetation measures can be implemented.	the permittee to review fill records and implement revegetation measures. Monitoring by the LEA and the County Biologist.	and an independent qualified biologist --County Biologist --LEA		
4.43	The permittee will provide replacement riparian habitat on a 2:1 ratio as part of the overall Riparian and Wetland Mitigation Plan. Mitigation for the disturbance to 5.46 acres of riparian habitat from the landfill will be provided by expanding and enhancing existing riparian habitat and creating approximately 11.0 acres of new riparian habitat through a program of tree planting, streambank stabilization, streambed enlargement or streamzone rehabilitation in existing degraded drainage channels. As a component of the Riparian and Wetland Mitigation Plan, new streamzone/wetland areas will meet U.S. Army Corps of Engineers criteria, and will also be created within the riparian systems so that there will be no net loss in wetland values or area as a result of the landfill project. Approximately 4.2 acres of streamzone/wetlands will be created to compensate for losses due to development within the landfill project site area. Final site selection and detailed engineering plans and working drawings of the Riparian and Wetland Mitigation Plan will be coordinated fully with the applicable regulatory agencies so that the final acceptable plan will be developed based on the concepts described in the permittee's Riparian and Wetland Mitigation Plan.	Issuance of Section 1603 Permit by Dept. of Fish and Game. Issuance of Nationwide Permit (No.26) by U.S. Army Corps of Engineers. Implementation of mitigation programs in accordance with approved plans.	--CA Dept. of Fish and Game --U.S. Army Corps of Engineers	Prior to commencement of landfill development. Implementation throughout fill operations. **This mitigation measure has been completed.**	Section 6 of Findings C#7 C#63 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.44	The permittee shall continue to work with the California Department of Fish and Game, the U.S. Army Corps of Engineers and the City of Pasadena to monitor the approved and implemented wetlands and riparian habitat restoration project (Lower Arroyo Seco Restoration Project, Corps File Number 94-00124-AOA, California Department of Fish and Game Streambed Alteration Agreement Number 5-445-91), as required by said permits, or at such time as the restoration Project is accepted by the City of Pasadena.		--U.S. Army Corp of Engineers --California Fish & Game	Until acceptance by the City of Pasadena.	Section 6 of Findings C#63
4.45	Periodic monitoring of the site for vector activity will be performed by the permittee. Corrective measures will be taken should a problem be detected. Rodent-related problems will be controlled in accordance with regulations established by the County Department of Health Services and the California State Department of Health. Flies will be controlled by a trap-and-destroy program and by the use of daily cover. The use of sprays will be avoided to the fullest extent possible. Gull activity shall be effectively controlled by the permittee.	Review and approval of periodic monitoring reports and field inspections.	--County Dept. of Health Services	Throughout fill operations.	Section 5 of Findings C#7 C#56 IMP-Part III
4.46	Operational techniques shall be utilized to limit vector activity, including compacting waste at the landfill active working face, properly applying cover material; keeping the active working face as small as safely possible given the type and number of landfill equipment, properly grading interim fill surfaces and final	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#56

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	fill slopes, and eliminating ponding areas at the Project site.				
4.47	All equipment shall be in good condition and cleaned in a frequency and manner so as to prevent the propagation or attraction of flies, rodents, or other vectors, and the creation of nuisances.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.48	Items used at the landfill facility that could attract vectors (e.g. food, seed, office supplies, etc.) shall be stored in closed containers and/or within an enclosed structure. These containers shall be inspected regularly and be disposed of if they appear to be an attraction to any vectors.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.49	Salvaged materials generated on-site or imported shall be placed away from storage areas, and other activity areas, and limited to a volume approved by the LEA or other approval agencies, minimizing the harborage or attraction of flies, rodents, or other vectors, and the creation of nuisances.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.50	All buildings, paved areas, landscaped areas, and perimeter areas shall be inspected regularly for signs of vectors. Any building openings, ground holes, and deficiencies shall be repaired as they are discovered during routine inspections to prevent the intrusion of any ground vectors.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
5.0	**ARCHAEOLOGICAL, HISTORICAL AND PALEONTOLOGICAL RESOURCES**				
5.01	Prior to the commencement of initial earth excavation, specific sections of the landfill project area will be resurveyed as a precautionary measure to minimize potential loss of undiscovered archaeological or paleontological resources. Specific sections of the project area to be resurveyed will be determined by the intended cut and fill areas proposed for landfill development. As new areas for excavation are identified by the permittee, an evaluation of the need for resurveying of those areas will be made based on prior survey results and consultation with the appropriate technical specialists. Factors to be considered for delineation of areas to be resurveyed will be known site selection factors associated with aboriginal groups suspected of having inhabited the general area. These factors include: proximity to water; the type of local vegetation (e.g., food source, shelter, and fuel); and the topography (e.g., slope and aspect).	Retention of a qualified archaeologist and a paleontologist by the permittee for implementation of surveying measures. Written reports to be submitted with each Biennial Monitoring Report to the Regional Planning Commission.	--Dept. of Regional Planning --Project archaeologist and paleontologist	Prior to commencement of landfill development and throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII IMP-Part X
5.02	An archaeologist and paleontologist will be on-site during major infrastructure work which requires significant excavation. In the event that archaeological and paleontological resources are discovered during grading or excavation, the archaeologist and/or paleontologist shall be allowed to redirect grading away from the area of exposed fossils	Retention of a qualified archaeologist and a paleontologist by permittee for surveying.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	to allow sufficient time for inspection, evaluation, and recovery.				
5.03	Periodic monitoring by a paleontologist will occur during grading activities. The paleontologist shall be retained to perform inspection of the excavation and salvage fossils. Collected fossils shall be curated at a public institution with an education/research interest in the material. Any curatorial expenses shall be borne by the landfill operator.	Retention of a qualified paleontologist by permittee for surveying.	--Project paleontologist	Throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII
5.04	The permittee will instruct landfill equipment operators how to identify archaeological and paleontological resources and upon discovery of such findings will immediately report the location of the site finding to their supervisor. If any evidence of aboriginal habitation or fossils are discovered during earthmoving activities, landfill operations will cease in that particular location until a qualified archaeologist or paleontologist has made a determination as to the significance of the site or findings. Any significant archaeological or paleontological resources will be recovered to the extent practicable prior to resuming activities in that area of the landfill. Due to the potential for rapid deterioration of exposed surface fossils, preservation by avoidance is not an appropriate measure. When fossils cannot be removed immediately, the site shall be stabilized to prevent further deterioration prior to data recovery or the fossil location as directed by a professional paleontologist.	Retention of a qualified archaeologist and a paleontologist by permittee for supervision.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
5.05	Archaeological resources recovered during surface collection, subsurface excavations, and monitoring, with related records, notes, and technical reports, shall be curated at a regional repository approved by the County.	Retention of a qualified archaeologist and a paleontologist by permittee for supervision.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62
6.0	**AIR QUALITY**				
6.01	The permittee shall utilize the most effective available technology and methodology to avert fugitive dust emissions. In addition to the revegetation measures required in Condition 41 and in the Mitigation Monitoring and Reporting Summary, the program shall include: (1) The permittee shall not engage in any excavation or other operation during high wind conditions (15 minute average wind speed exceeds 15 mph or instantaneous wind speed exceeds 25 mph), or when such conditions may be reasonably expected, that would result in significant emissions of fugitive dust which cannot be confined to the area under the permittee's control. (4) Except during rainy conditions, any active area or active cover soil stockpile shall be moistened with water on a daily basis unless wind conditions dictate otherwise, in which case soil sealant shall be used in addition to water. (8) All access roads to permanent facilities, except those infrequently used, shall be	Monitoring and inspections by the SCAQMD and the LEA.	--SCAQMD --LEA	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#7 C#45 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	paved. The paved access road to the fill areas shall be extended as new areas are opened to minimize the length of the dirt road. Winter deck access roads shall be paved or surfaced with recycled asphalt, aggregate materials or soil stabilization products to minimize the length of untreated dirt. Curbs and gutters shall be constructed. At least twice daily, watering or wet sweeping of paved roads to remove windblown surface dust shall occur. (AP-42 assigns a control efficiency of 50 percent for twice weekly cleaning of industrial paved roads. With twice daily cleaning, a control efficiency in excess of 90 percent is predicted). (11) The permittee shall install and maintain devices to monitor wind speed and direction, as specified by the SCAQMD, and shall retain qualified personnel to read and interpret the data, to obtain or utilize information on predicted wind conditions and to assist in the planning of operations at the Facility. (12) The permittee shall submit quarterly reports to the Director of Public Works listing all fugitive dust and odor complaints received from residents and all Notices of Violation issued by the SCAQMD or the LEA as well as the measures undertaken to address the complaints and to correct the violations. The Director of Public Works and the DHS-				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	SWMP shall each have the authority to require the permittee to implement additional corrective measures when such measures are deemed appropriate to protect public health and safety.				
6.02		Monitoring and inspections by the SCAQMD and the LEA. Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--SCAQMD --LEA --Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#7 C#44 IMP-Part X IMP-Part VI
6.03		Review and approval of periodic inspection reports of fill operations.	--LEA	Throughout fill operations.	Section 6 of Findings C#7 C#45 IMP-Part X
6.04		Periodic inspection reports of fill operations.	--Facility Manager	Throughout fill operations.	Section 6 of Findings C#7 C#45 IMP-Part X
6.05	The landfill will be operated in accordance with SCAQMD Rule 1150.1 and other SCAQMD regulations and with applicable Department of Public Works requirements.	Issuance of the SCAQMD Permit to Construct and Operate. Monitoring and inspections by the SCAQMD.	--SCAQMD	Throughout fill operations.	Section 6 of Findings C#7 C#45 C#52
6.06		Issuance of the SCAQMD Permit	--SCAQMD	Permit issuance prior	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		to Construct and Operate. Inspections by the SCAQMD and the Dept. of Public Works. Monitoring programs and reports in accordance with SCAQMD permit regulations.	--Dept. of Public Works	to commencement of landfill development. Monitoring throughout fill operations.	C#7 C#52
6.07	Flaring systems shall be sited as required by the SCAQMD and constructed using BACT. The flames shall be totally contained within the stack. Flame arrestors shall be provided to the satisfaction of the SCAQMD and the County Forester and Fire Warden. The permittee will convert gas, as it is recovered, to a renewable energy resource and to the extent technically and economically feasible.	Approval of gas collection system plan and issuance of the SCAQMD Permit to Construct and Operate.	--SCAQMD --County Forester and Fire Warden	Permit issuance prior to commencement of landfill development.	Section 5 of Findings C#7 C#52
6.08		Review and approval of periodic inspection reports of fill operations.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#7 C#51
6.09	The following mitigation measures will reduce emissions to the maximum extent reasonably feasible: a. The permittee will maintain equipment in tune per manufacturer's specifications. b. The permittee will use catalytic converters on gasoline-powered equipment. c. The permittee will tune all diesel engines to manufacturer's specifications. d. High-pressure fuel injectors will be installed. e. Heavy equipment will use reformulated, low-	Review of Operations Records.	--SCAQMD LEA	Throughout fill operations.	Section 6 of Findings C#7 C#51

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	emission diesel fuel. f. The permittee will substitute electric and gasoline-powered equipment for diesel-powered equipment where feasible. g. Where applicable, equipment will not be left idling for prolonged periods. h. The permittee will curtail (cease or reduce) construction during periods of high ambient pollutant concentrations (i.e. Stage II smog alerts). (*Mitigation Measure Section 4.2.11 in Final EIR).*				
6.10		Review of operation records.	--SCAQMD LEA	Throughout fill operations.	Section 6 of Findings C#7 C#51
6.11		Review of Operation Records.	--SCAQMD LEA	Mitigation measure 6.11B has been completed.	Section 6 of Findings C#7 C#77
7.0	**ODOR/LANDFILL GAS**				
7.01		Approval of gas collection system plan and issuance of Permit to Construct and Operate. Review and approval of periodic inspection reports of fill operations.	--SCAQMD --LEA	Permit issuance prior to commencement of landfill development. Monitoring throughout fill operations.	Section 5 of Findings C#7 C#52 IMP-Part X
7.02		Approval of gas collection system plan and issuance of Permit to Construct and Operate.	--SCAQMD	Permit issuance prior to commencement of landfill development.	Section 5 of Findings C#7 C#52 IMP-Part X
7.03	The following odor/landfill gas monitoring program will be implemented for the landfill. The monitoring program complies with the	Issuance of Permit to Construct and Operate. Monitoring programs conducted by permittee (monthly	--SCAQMD	Permit issuance prior to commencement of landfill development.	Section 5 of Findings C#7 C#52

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	requirements of the SCAQMD Rule 1150.1 and those of the County Department of Public Works. This program will include: (1) Sample probe installation. Monitoring probes will be installed at a spacing of 1,000 feet around the landfill perimeter (where feasible) or as otherwise determined by the SCAQMD. All probes will be monitored to ensure that quantities of landfill gas beyond regulatory standards do not migrate off-site through the subsurface soils; (2) Integrated landfill surface sampling. The landfill surface will be periodically monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed the SCAQMD's standard of 50 ppm; (3) Ambient air samples at the landfill perimeter. Periodic, 24-hour integrated gas samples and required meteorological data will be taken to assess any impact the landfill is having on air quality at the landfill perimeter; (4) Instantaneous landfill surface monitoring. Spot checks on the landfill surface will be made to determine the maximum concentration of total organic compounds measured as methane at any one point on the landfill's surface does not exceed the SCAQMD's standard of 500 ppm; and (5) Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes,	monitoring reports) and SCAQMD in accordance with permit requirements.		Monitoring throughout fill operations.	IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once a month or less frequently as required by the SCAQMD. The LFG collection system shall be adjusted and improved based on the quarterly monitoring data and annual stack testing results.				
7.04	Risks associated with the gas collection and flaring system shall be mitigated through use of flexible piping, flame arrestors, sensors, and automatic shutoff controls. Numerous safety shutdown devices have been designed and installed into the flare station, including a telephone auto-dialer, to provide emergency notification. All gas extraction equipment, including gas condensate and propane tanks, shall be adequately secured to prevent damage during a seismic event. Inspections of the gas collection and flaring system shall be performed after ground-shaking from an earthquake, and necessary action shall be taken to correct any potential problems.	Approval of gas collection system.	--SCAQMD	Throughout fill operations	Section 5 of Findings C#7 C#52
7.05	Equipment operators involved in excavation shall be made cognizant of the potential presence of existing unrecorded subsurface wellheads. If a wellhead (or other unidentifiable obstruction) is encountered during construction, all excavation activities shall cease. The area will be cordoned off, and the landfill supervisor shall be called to determine whether the obstruction is an	Monitor and adjustment of operations by permittee.	--SCAQMD --LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings C#7 C#52

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	abandoned wellhead.				
7.06		Monitor and adjustment of operations by permittee.	--SCAQMD --LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings C#7
7.07	The permittee will recover and sell as much gas as is technically and economically feasible to reduce total air quality emissions from the landfill operations. It is expected that the technical and economic feasibility of commercial recovery and sale of landfill gas as a renewable energy resource will occur at levels below 40 MMCFD. The gas collection system will be installed in increments to allow for maximum gas recovery.	Inclusion of reports of fill operations in Biennial Monitoring Reports to Regional Planning Commission.	--Facility Manager	Throughout fill operations.	Section 5 of Findings C#7 C#52 IMP-Part IV IMP-Part X
8.0	**TRAFFIC/CIRCULATION**				
8.01		Review and approval of intersection improvement plans.	--LADOT	**This mitigation measure has been completed.** **This mitigation measure has been completed.** **This mitigation measure has been completed.**	Section 5 of Findings C#57

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				Prior to landfill operations reaching a total waste intake level of 9,000 tons per day. Application to all waste received including recyclable material.	
				This mitigation measure has been completed.	Section 5 of Findings C#57
				This mitigation measure has been completed.	Section 5 of Findings C#57

SUNSHINE CANYON LANDFILL
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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				This mitigation measure has been completed.	Section 5 of Findings C#57
				This mitigation measure has been completed.	Section 5 of Findings C#57

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MITIGATION MONITORING AND REPORTING SUMMARY
Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				This mitigation measure has been completed.	Section 5 of Findings C#57
				This mitigation measure has been completed.	Section 5 of Findings C#57

SUNSHINE CANYON LANDFILL
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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				This mitigation measure has been completed.	
				This mitigation measure has been completed.	Section 5 of Findings C#57
				This mitigation measure has been completed.	Section 5 of Findings C#59
				This mitigation measure has been completed.	Section 5 of Findings C#59
					Section 5 of Findings C#26

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				This mitigation measure has been completed.	Section 5 of Findings C#57
8.02			--Caltrans --Dept. of Public Works	Prior to start of City/County operation.	C#58
8.03			--LADOT --Dept. of Public Works	Prior to start of City/County operation.	C#60
8.04			--Dept. of Public Works --LEA --Dept. of Regional Planning	Throughout fill operations.	C#61
8.05			--Project traffic engineer --LADOT	Prior to commencement of fill operations. **This mitigation**	Section 5 of Findings C#57

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				measure has been completed.	
8.06		Review of survey results for determination.	--LADOT	Prior to commencement of fill operations. **This mitigation measure has been completed.**	Section 5 of Findings
8.07		Implementation in accordance with an agreement with County.	--Dept. of Public Works --LEA	Prior to commencement of fill operations. **This mitigation measure has been completed.**	Section 5 of Findings IMP-Part II
8.08		Biennial Monitoring Report to the Regional Planning Commission.	--Facility Manager	Throughout fill operations.	Section 5 of Findings C#27 IMP-Part X
8.09		Review of periodic inspection reports of fill operations.	--LEA --Dept. of Regional Planning	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#29
8.10	By January 1, 1994, the permittee will complete a comprehensive study of the feasibility of nighttime landfill operations. If nighttime operations are found to be feasible, the permittee will return to the County with an	Comprehensive study on the feasibility of nighttime landfilling operation to be prepared by the permittee and submitted to the Department of Regional Planning.	--Dept. of Regional Planning	By January 1, 1994. **This mitigation measure has been completed.**	1993 Condition

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	application to permit such operations. Nighttime operations would include the receipt at the landfill up to 2,000 gross tons of material from solid waste transfer stations and material recovery facilities. Subject to future conditions imposed by the Board, the waste trucks must arrive at the landfill between the hours of 3:00 a.m. to 6:00 a.m., and the waste delivered to the landfill will not be delivered by more than 100 transfer trucks.				
8.11		Review of periodic inspection reports of fill operations.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#57 IMP-Part X
8.12		Compliance with permit requirements for roadway mitigation.	--LADOT	As required for implementation.	Section 5 of Findings C#57
8.13		Design and monitor as required.	--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings C#29
9.0	**NOISE**				
9.01	Landfill access for the disposal of refuse will be limited to the following: (1) The landfill shall be closed on Sunday; (2) Landfill operations, such as site preparation and maintenance, the application of cover, and waste processing shall be conducted between the hours of 6:00 a.m. and 9:00 p.m. Monday through	Field inspections by the LEA.	--LEA	Throughout fill operations and on an ongoing basis.	C#29

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Saturday. This operating restriction shall not apply to Facility activities that require continuous operation, such as gas control. (3) Equipment maintenance shall be limited to the hours of 4:00 a.m. through 9:00 p.m. Monday though Saturday, except for equipment repairs. No diesel vehicle shall be started before 5:00 a.m. (4) Environmental mitigation and emergency operations which cannot be accomplished during the hours stated above may be performed at any time and shall be noted in the Annual Report.				
9.02	Small commercial and private users who will use the landfill will be encouraged by the permittee to use alternate routes other than Balboa Boulevard, because this roadway is in close proximity to residential areas.	Provide information to small commercial and private users.	--Facility Manager	Throughout fill operations and on an ongoing basis.	Section 5 of Findings
9.03	All landfill equipment will be equipped with low-noise mufflers and air flow silencers on intake systems (if available) and will be properly maintained.	Field inspections by the LEA and provide periodic maintenance of landfill equipment.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#53 County Noise Ordinance, Title 12 State and federal requirements IMP-Part X(B)(6)(7)

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
9.04		Field inspections by the LEA and provide periodic maintenance of landfill equipment.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings State and federal requirements C#53
10.0	**VISUAL**				
10.01		Installation of survey monuments for verification of landfill elevations and the conductance of a survey for inclusion in Biennial Monitoring Reports to the Regional Planning Commission.	--Dept. of Public Works	Prior to commencement of the required activity. Surveys throughout fill operations.	Section 5 of Findings C#7 C#18 IMP-Part I IMP-Part X
10.02		Installation of survey monuments for verification of landfill elevations.	--Dept. of Public Works	Prior to commencing landfilling operations.	Section 5 of Findings C#7 IMP-Part I IMP-Part X
10.03		Issuance of SCAQMD Permit to Construct and Operate.	--SCAQMD	Permit issuance prior to commencement of fill operations.	Section 5 of Findings C#7 C#52 SCAQMD Permit to Construct and Operate IMP-Part X
10.04		Review of periodic inspection reports of fill operations.	--LEA	Throughout fill operations.	Section 5 of Findings C#7 C#45 IMP-Part X
10.05	All lighting shall be shielded and directed onto the site. No floodlighting shall be located that can be seen directly by adjacent residents,	Site inspection by agencies.	--LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	motorists on adjacent public streets or highways, or pilots within the AAirport Approach Zone.@ This condition shall not preclude the installation of low-level security lighting.				
10.06		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for supervision and oversight. Monitoring by the County Forester.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#44 IMP-Part VI IMP-Part X
10.07		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for implementation of planting programs.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#44 IMP-Part VI
10.08		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for supervision.	--Project consulting horticulturalist/ Registered Professional Forester and an independent qualified biologist	Throughout fill operations.	C#44 IMP-Part VI
10.09		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for supervision.	--Project consulting horticulturalist/ Registered Professional Forester and an independent	Throughout fill operations.	Section 5 of Findings C#44 IMP-Part X IMP-Part VI

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Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		Approval of Closure and Postclosure Maintenance Plans.	qualified biologist --LEA		
10.10		Monitoring by consulting horticulturalist/Registered Professional Forester and an independent qualified biologist.	--LEA --Facility Manager --Dept. of Public Works	Ongoing basis.	Section 5 of Findings IMP-Part VI
10.11		Monitoring and field inspections by the LEA. Inspection report results included in Biennial Monitoring Reports to Regional Planning Commission.	--LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#46
10.12		Monitoring and field inspections by the LEA. Inspection report results included in Biennial Monitoring Reports to Regional Planning Commission.	--LEA --Facility Manager --Dept. of Public Works	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#76 IMP-Part X
11.0	**WATER CONSERVATION**				
11.01	b. The permittee shall investigate the feasibility of treating collected leachate on-site for reuse in the landfill and shall, if feasible and approved by the appropriate agencies, implement a program to utilize such water;	Review and approval by responsible agencies.	--LEA --RWQCB	Throughout fill operations.	C#41
11.02		Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist to	--Project consulting horticulturalist/ Registered Professional Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#41

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		implement planting measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	and an independent qualified biologist		
12.0	**FIRE SERVICE**				
12.01	The permittee will maintain brush clearance measures consistent with permit requirements of the County of Los Angeles municipal code. Fire-resistant native plants shall be maintained free of combustible litter (i.e., partly decayed/organic matter). These plants shall be used without restriction within the brush clearance zone.	Review and approval of development plans by Dept. of Forester and Fire Warden. Periodic inspections.	--Dept. of Forester and Fire Warden	Inspections throughout fill operations and on an ongoing basis.	Section 5 of Findings C#54
12.02	The permittee will maintain and expand existing on-site fire response capabilities through use of heavy operating equipment and readily available fire extinguishing equipment. A 200-foot long, 1-1/2 inch diameter fire hose will be available on water trucks for fire-fighting at the working area. In addition, earth moving equipment will be available for controlling fires by smothering fires with dirt. Access roads will be constructed and maintained around the working area of the landfill to provide emergency access for firefighting equipment.	Review and approval of development plans by Dept. of Forester and Fire Warden. Periodic inspections.	--Dept. of Forester and Fire Warden	Inspections throughout fill operations.	Section 5 of Findings C#54
12.03	The permittee shall maintain on-site fire response capabilities, construct access roads, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire	Review and approval of development plans.	--Dept. of Forester and Fire Warden	Prior to commencement of fill operations.	Section 5 of Findings C#54 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire hydrants, specifically defined by the County Fire Department. New construction of water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.				
12.04	All on-site fuel storage tanks shall be installed and necessary containment and air quality controls provided in accord with the requirements of the County Forester and Fire Warden, the County DPW, the RWCQB, the SCAQMD, and other applicable regulations. Labeling and reporting of motor fuel storage will comply with provisions of Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986.	Issuance of fuel storage permit.	--County Fire Marshal --RWQCB	Prior to installation of storage tanks.	Section 5 of Findings C#55 Proposition 65
12.05	No building or portion of a building shall be constructed more than **150 feet from the edge of a roadway of an improved street**, access road, or designated fire lane. Any person owning or having control of any facility, structure, or group of structures on the premises shall provide and maintain Fire Department access. Fire breaks, roads, and fire trails shall be maintained by the permittee in accordance with County Fire Department requirements.		--County Fire Marshal		Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
12.06	On-site structures shall be continuously monitored for the presence of unsafe levels of methane gas.	Monitor as required by permittee.	--LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 IMP-Part X
12.07	If necessary, the permittee shall install electrical (e.g., battery backup) combustible gas detectors in habitable structures. Employees shall be trained in all applicable safety requirements to prevent any upset conditions from occurring.	Monitor as required by permittee.	--LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 IMP-Part X
12.08			--LEA --County Fire Marshal		Section 5 of Findings C#7 C#54
12.09	In the event the permittee detects settlement or venting of smoke, the LEA shall be contacted. The permittee, under the direction of the LEA, shall undertake appropriate measures to identify the location of the subsurface fire and implement the appropriate fire control techniques to assure the fire has been extinguished.	Monitor as required by permittee.	--LEA --City & County Fire Dept. --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings C#7 C#54
12.10	A detailed fire response plan that incorporates the County Fire Department requirements shall be prepared, and signs shall be posted onsite prohibiting open burning within the project area. The following procedures shall be maintained; (1) Fire extinguishers shall be maintained in all		--County Fire Marshal		Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	heavy equipment, onsite work vehicles, and all structures as required by County Fire Department. (2) All internal combustion engines used in landfilling operations shall be equipped with spark arresters. (3) Landfill equipment shall be cleaned regularly to reduce the potential for equipment fires. (4) Vehicle and mechanical inspections shall be performed on a regular basis, and focus on the electrical system, hydraulic, and fuel lines.				
12.11			--County Fire Marshal		Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
12.12	A portable explosive gas detection device shall be used to determine whether the obstruction is a wellhead that may be leaking natural gas. If this is the case, all personnel shall be evacuated within a 500-foot radius and a representative from the California Department of Conservation, Division of Oil, Gas and Geothermal Resources shall be notified. Excavation activities shall cease until further instruction from the Department is received. If gas is not detected, a backhoe or similar type equipment shall be brought in to further expose the obstruction. If necessary, well abandonment procedures shall be utilized following Department protocol.	Monitor and compliance by permittee.	--Division of Oil & Gas --LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 C#54
12.13		Compliance with requirement by permittee.	--LEA --City & County Fire Dept.	Throughout fill operation.	Section 5 of Findings C#7 C#54
12.14	Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for fire fighting equipment.	Compliance with requirement by permittee.	--Dept. of Public Works --LEA	Throughout fill operation.	Section 5 of Findings C#7 C#54
12.15	The permittee shall implement a fire prevention plan in compliance with CCR, Title 8, ' 3221. Components of this written fire prevention plan shall include potential fire hazards and their proper handling and storage procedures; potential ignition sources (i.e. welding or smoking), their control procedures, and the	Compliance with requirement by permittee.	--LEA --City & County Fire Dept.	Throughout fill operation.	Section 5 of Findings C#7 C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	type of fire protection equipment or systems that can control a fire involving them; names or regular job titles of those responsible for maintenance of equipment and systems installed to prevent or control ignitions or fires; and names or regular job titles of those responsible for the control of accumulation of flammable or combustible waste materials.				
13.0	**HAZARDOUS MATERIALS**				
13.01		Maintenance of at least one LEA inspector at the landfill for inspection and enforcement activity.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part IV
13.02		Implementation by permittee of comprehensive Waste Load Checking Program accepted by the LEA. Maintenance of at least one LEA inspector at the landfill for inspection and enforcement activity.	--LEA	Before opening the landfill and throughout fill operations.	Section 5 of Findings C#2 C#24 C#28 IMP-Part IV
13.03		Maintenance of at least one (1) LEA inspector, either a qualified employee of the LEA; or a person employed under contract to the LEA for inspection and enforcement activities other than hazardous waste exclusion.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#28 IMP-Part IV
13.04		Implementation by permittee of comprehensive Hazardous	--LEA --Facility Manager	Throughout fill operations and on an	Section 5 of Findings C#28

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		Materials Program accepted by the LEA.		ongoing basis.	IMP-Part IV
13.05		Field inspections by the LEA.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#28 IMP-Part IV
13.06		Field inspections by LEA.	--Facility Manager	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#31
13.07		Maintenance of at least one (1) inspector, either a qualified employee of the LEA or a person employed under contract to the LEA for inspection and enforcement activity other than hazardous waste exclusion.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part III
13.08		Maintenance of at least one (1) inspector, either a qualified employee of the LEA or a person employed under contract to the LEA for inspection and enforcement activity other than hazardous waste exclusion.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part III
13.09		Review and approval of hazardous waste roundups by the Board of Supervisors and the County Sanitation Districts.	--County Sanitation Districts --LEA --Facility Manager	Throughout fill operations.	C#71
13.10		Compliance with requirement by permittee.	--Dept. of Public Works	Throughout fill operations.	Section 5 of Findings IMP-Part IV

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
			--LEA --LACFD --RWQCB		
13.11	The spill response program shall be part of required training for all facility employees. In the event of a spill, containment is paramount. All landfill employees shall be trained to use dirt and/or other absorbent materials to pick up and/or contain small spills of oils, solvents, and/or other materials that may be harmful to the public, facility workers, or the environment. Training in the use of personal protective equipment, fire extinguishing aids (e.g. hoses or extinguishers), and spill containment/ mitigation (e.g. absorbents) shall be provided.	Compliance with requirement by permittee.	--RWQCB --LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings IMP-Part IV
13.12		Inspection of site recordings	--LEA --Dept. of Public Works	Throughout fill operations	Section 5 of Findings C#82
14.0	**RECYCLING MEASURES**				
14.01		Formal agreement entered into by the County and permittee.	--LEA --Dept. of Regional Planning --County Counsel	Before the opening the landfill.	IMP-Part II IMP-Part III IMP-Part X
14.02		Implementation of recycling measures in accordance with City/County Source Reduction and Recycling Elements (SRRE): - Controlling and accounting for recyclable waste at the landfill	--LEA	Throughout fill operations.	PRC, Division 30 IMP-Part II IMP-Part III IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		consistent with City and County Waste; - Maximum utilization of landfill capacity; and - Waste diversion and recycling programs consistent with City and County waste management plans.			
14.03			-- Dept. of Public Works		C#22 IMP-Part III
14.04			--Dept. of Public Works		C#19
15.0	**SITE CONSIDERATION**				
15.01	The permittee shall incorporate measures that will exceed minimum efficiency standards for Title 24 of the CCR.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.02	Built-in appliances, refrigerators, and air conditioning equipment shall exceed the minimum efficiency standards for Title 24 of the CCR.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.03	Buildings shall be well sealed to prevent outside air from infiltrating and increasing interior air conditioning and space heating loads. A performance check of the installed air conditioning and space heating systems shall be completed by the permittee prior to the issuance of the certificate of occupancy to ensure the system properly operates.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
15.04	Thermal insulation that exceeds requirements established by the CCR shall be installed in walls and ceilings.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.05	Window systems shall be designed to reduce thermal gain and loss, thus reducing cooling loads during warm weather and heating loads during cool weather.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.06	Heat-reflective draperies shall be installed on appropriate exposures.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.07	Fluorescent and high-intensity-discharge lamps, which give the highest light output per watt of electricity consumed, shall be installed wherever possible, including all parking lot and site lighting to reduce electricity consumption.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.08	Occupant-controlled light switches and thermostats shall be installed to permit individual adjustment of lighting, heating, and cooling to avoid unnecessary energy consumption.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
15.09	Time-controlled interior and exterior public area lighting, limited to that necessary for safety and security, shall be installed.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.10	The permittee shall coordinate with DWP in advance to efficiently obtain potable water for delivery to the construction site and to meet any restrictions imposed.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.11	When reclaimed water lines are extended into the Project area, and if economically feasible, reclaimed water would be utilized on-site for irrigation and dust suppression. Prior to the submittal of design plans, the permittee shall investigate the possibility of utilizing reclaimed water at the Project site.		--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#7 C#41
15.12	During the site-life of the landfill and ancillary facilities, the permittee shall effectively utilize water-conservation measures at the Project site. These measures may include the following: • The permittee shall install an efficient drip irrigation system that minimizes runoff and evaporation, and provides water distribution in an efficient manner. • A dust suppression additive shall be utilized on-site to minimize water usage. • Green waste/wood waste (after grinding)		--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#7 C#41

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	shall be used on-site as mulch material for revegetation purposes. Mulch shall be applied on the top layers of revegetation areas to improve the water-holding capacity of the soil. • On-site revegetation shall include the use of water-conserving plant materials to the greatest extent possible. • Use of on-site seep water for irrigation and dust control.				
16.0	**SAFETY**				
16.01	All landfill equipment shall be properly maintained and operated to minimize the health and safety impacts on landfill personnel and the public. Standby equipment shall be made available during periods of vehicle maintenance or breakdown.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.02	The permittee shall implement an IIP (Injury and Illness Prevention Program) program in compliance with CCR, Title 8, ' 3203, designed to protect employees from work-related hazards associated with operation of the landfill site. Unsafe or unhealthful work conditions, practices, or procedures shall be immediately corrected by the permittee.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.03	The permittee shall conduct regular periodic inspections to identify less-than-adequate or unsafe working conditions, improper or unsafe		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	work practices, or procedures in their work areas. The maintenance supervisor of permittee shall be notified of needed repairs or corrective measures using a Asafety inspection report@ form. Additional inspections shall be accomplished whenever new processes, procedures, substances, or equipment are introduced into the workplace or when a supervisor becomes aware of a new, potential, or previously unrecognized hazard.				
16.04	Appropriate inspection checklists shall be developed, used, and maintained to accurately reflect various exposures in different work areas. Daily observation of the workplace environment by permittee's employees, supervisors, managers, and safety director shall occur. Discrepancies shall be reported. Records of inspections, deficiencies, and corrective measures shall be maintained in the safety/maintenance offices.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.05	If a problem or discrepancy is identified, an inspection report shall be prepared. The report shall identify the priority assigned to each discrepancy, as follows: Priority One, resolve the problem immediately; Priority Two, resolve the problem by the end of the working day; Priority Three, resolve the problem within 48 to 72 hours; and Priority Four, resolve the problem within 1 week as soon as the part(s) and/or materials are available. Unsafe work practices shall be interrupted immediately by the observing supervisor. Appropriate training shall be implemented. If the unsafe practice		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	continues, progressive discipline shall be employed.				
16.06	Communication of safety and health methods to employees shall include verbal communication with employees at quarterly safety meetings; small group meetings conducted by first-line supervisors with their respective employee groups that shall be weekly Atailgate,@ Atoolbox,@ or operations and safety meetings; written safety and health issues posted on employee bulletin boards; safety posters; suggestion boxes for employees to anonymously utilize; and action by management to evaluate and implement the pertinent employee safety suggestions.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.07	Accident/injury reports, inspections, and findings, including corrections and training records, shall be kept for 3 years. The OSHA Log 200 shall be retained by the permittee for a period of 5 years. Medical records for those employees involved in handling of hazardous wastes shall be maintained for a period of 30 years after employment termination.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.08	First-aid kits shall be located in dispatch, maintenance, scale houses, and corporate administrative offices, in addition to all supervisor vehicles. These kits shall contain ABand-Aids,@ bandages, sprays, miscellaneous ointments, and minor treatment supplies. These supplies are intended for treatment of small or nonserious cuts, burns,		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	scrapes, etc. Injuries requiring medical attention shall be treated at the Holy Cross Medical Center. This hospital shall also provide ambulance service.				
16.09	The permittee shall implement an emergency action plan in compliance with CCR, Title 8, ' 3220. This plan shall designate emergency escape routes and procedures, rescue and medical duties, methods for reporting fires and other emergencies; and names of persons and departments to contact during an emergency.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.10	In compliance with CCR, Title 8, ' 3314, lockout/blockout procedures shall be implemented at the landfill. Machinery or equipment capable of movement shall be stopped and the power source de-energized or disengaged; if necessary, the moveable parts shall be mechanically blocked or locked out to prevent inadvertent movement during cleaning, servicing, or adjusting operations. If the machinery or equipment must be capable of movement during this period in order to perform the specific task, the permittee shall minimize the hazard of movement by providing and requiring the use of extension tools or other methods to protect employees from injury. Prime movers, equipment, or power-driven machines equipped with lockable controls or readily adaptable to lockable controls shall be locked out or positively sealed in the Aoff" position during repair work and setting-up operations. The operator shall provide a sufficient number of accident		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	prevention signs or tags and padlocks, seals, or other similarly effective means to safely conduct repairs.				
16.11	Personal protective equipment shall be provided to all operations employees and will include hard hats, heavy gloves, ear plugs, dust masks, safety boots, goggles, and safety vests.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.12	The permittee shall comply with all applicable safety ordinances contained in the County Code.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.13	A portable explosive gas-detection device shall be used in trenches and excavations to determine the presence of methane gases. If unsafe concentrations of gas exist, all employees would be immediately removed from the area of unsafe gas concentration. The safety monitor would be responsible for ensuring that appropriate worker safety equipment is operable, as well as worker education and instruction correctly implemented, to prevent the potential for methane gas explosions.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.14			--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
17.0	**ADMINISTRATIVE REPORTS/PROGRAMS**				
17.1	This grant shall not be effective for any purpose until the permittee, and the owner of		--DPR --Project Permittee	Prior to use of grant.	C#3

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	the subject property if other than the permittee, shall file at the office of the Department their affidavit stating that they are aware of, and agree to comply with, all of the conditions of this grant, and have paid all fees and provided all deposits and security required by the conditions of this grant, including Condition Nos. 11, 15, and 72. Notwithstanding Condition 9 of this grant, the filing of such affidavit constitutes a waiver of the permittee's right to challenge any provision of this grant.				
17.2	Prior to the operation of the City/County Project, the permittee shall obtain a Finding of Conformance with the Los Angeles County Countywide Siting Element from the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force.		--Dept. of Public Works --Project Permittee	Prior to use of grant.	C#6
17.3	Prior to using this grant, the permittee shall submit for review and approval by the Department of Public Works a plan which establishes a program to prevent unnecessary truck trips and illegal waste disposal at the Landfill. The program shall include, but not be limited to, the following elements: a). A plan to schedule regular landfill users, such as commercial and municipal haulers, to avoid having these users arrive at the Facility and be diverted to other landfills; and b). A plan to reserve landfill capacity for small commercial and private users.		--Dept. of Public Works --Project Permittee	Prior to use of grant.	C#26

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
17.4	The subject property shall be developed, maintained, and operated in full compliance with the conditions of this grant to the satisfaction of the Director of the Department, and in full compliance with all statutes, ordinances, or other regulations applicable to any development or activity on the subject property. The permittee shall also comply with all permits, approvals, or findings issued by other government agencies or departments, including, but not limited to, the permits, approvals, or findings issued by: a). The County LEA and the CIWMB; b). The RWQCB; c). The SCAQMD; d). The California Department of Fish and Game; e). The United States Army Corps of Engineers; and f). The California Department of Health Services.		--DPR --LEA	Throughout fill operations.	C#7
17.5	Prior to the Effective Date, and thereafter on an annual basis, the permittee shall provide evidence of insurance coverage to the Department of Public Works that meets County requirements as required and approved by the CAO and that satisfies all of the requirements set forth in this Condition No. 15. Such coverage shall be maintained throughout the term of this grant and until such time as all Post-Closure Maintenance requirements are met by the permittee and are certified by the appropriate local, state and federal agencies. Such insurance coverage shall include, but shall not be limited to, the following: general		--Dept. of Public Works --CAO	Prior to use of grant.	C#15

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	liability, automobile liability and pollution liability, clean-up cost insurance coverage and an endorsement for "Sudden and Accidental" contamination or pollution. Such coverage shall be in an amount sufficient to meet all applicable state and federal requirements, with no special limitations.				
17.6	In order to ensure that there will be sufficient funds at Closure to provide for the continued payment of insurance premiums for the period described in Condition Nos. 15 and 32 of this grant, within 60 months prior to the anticipated Closure Date, and annually thereafter, the permittee shall provide financial assurance satisfactory to the CAO and the Department of Public Works showing its ability to maintain all insurance coverage and indemnification requirements of Condition Nos. 13, 14, and 15 of this grant. Such financial assurance shall be in the form of a trust fund or other financial instrument acceptable to the County.		--Dept. of Public Works --CAO	60 months prior to closure.	C#16
17.7	In the event the City/County Project becomes operational, this grant shall terminate either on the date that the landfill reaches its Limits of Fill for the City/County Project, or 30 years from the Approval Date, whichever occurs first. At least six (6) months prior to the 25th anniversary of the Approval Date, if the permittee has not exhausted the available landfill capacity within the Limits of Fill depicted on Exhibit "A-2," the permittee shall conduct a study to determine the remaining		--Dept. of Public Works	6 months prior to 25th year of combined City/County Project.	C#17

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	capacity of the landfill. The study shall be submitted to the TAC for its independent review and, upon its review, the TAC shall report to the Board its finding regarding the remaining capacity of the landfill as authorized by this grant. Upon consideration of TAC's finding, the Board shall establish a certain Termination Date for the landfill, but in no event shall the Termination Date be a date that is later than 30 years after the approval date.				
17.8	In the event the City/County Project does not become operational, the Termination Date of this grant shall be the date the Landfill reaches the Limits of Fill for the County Project, as that date is set forth in the Closure and Post-Closure Maintenance Plans in effect at that time.		--Dept. of Public Works	Upon termination of the grant.	C#17

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
17.9	Upon the Termination Date, either when operating as a County Project or as a City/County Project, as the case may be, the Facility shall no longer receive Solid Waste and/or Beneficial Use Materials for disposal or processing; however, the permittee shall be authorized to continue operation of any and all facilities of the landfill as are necessary to complete: (1) the mitigation measures required by this grant; (2) the Closure and Post-Closure Maintenance required by federal, state, and local agencies; and (3) all monitoring and maintenance of the Environmental Protection and Control Systems required by Condition No. 32. No later than six months after the Termination Date, all landfill facilities not required for the just-mentioned functions shall be removed from the subject property, unless they are allowed as a matter of right by the zoning regulations then in effect.		--DPR --LEA	Upon termination of grant.	C#17
17.10	During the term of this grant, fill sequencing plans for landfilling operations within the County's jurisdiction shall be first approved by the Director of Public Works to ensure consistency with the purpose of Condition 18.		--Dept. of Public Works --LEA	Throughout fill operations.	C#18

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
17.11	Prior to commencement of the City/County Project, no portion of the landfill may extend beyond the limits of fill shown on Exhibit "A-1," except that during the City Project, the landfill may be extended beyond the limits shown on Exhibit "A-1" into the "Bridge Area," subject to the following limitations: (1) permittee shall not accept any waste into the "Bridge Area" until a fill sequencing plan is approved by the Director of Public Works; (2) at least 50 percent of the cumulative total waste accepted by both the City Project and County Project measured on an annual basis shall be deposited on the City side; (3) the horizontal extension of the landfill "Bridge Area" shall be restricted to an area not to exceed 20 acres; and (4) the permittee has shown to the satisfaction of the Director of Public Works that 1 through 3 in this subsection have been met, and that landfill operations in the Bridge Area are necessary for the efficient operation of the eventual City/County Project. Upon commencement of operation of the City/County Project, the limits of fill shown on Exhibit "A-2" shall constitute the boundaries of the landfill.		--Dept. of Public Works --LEA	Throughout fill operations.	C#18
17.12	If the City of Los Angeles denies the permittee's request to complete any of the phasing designs specified in the City approval granted in the City Ordinance Condition B.2.d, the permittee shall thereafter exclude all waste collected within the corporate limits of the City		--Dept. of Public Works	Throughout fill operations.	C#19

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	and transported in trucks under contract with the City from any portion of the landfill within County territory. This exclusion shall continue in effect unless and until terminated by the County.				
17.13	The permittee shall notify the County at least 60 days prior to the adoption of any amendment to the City Ordinance or other agreement or instrument between the permittee and the City that may impact the disposal capacity of the County Project or the City/County Project, or any condition of this grant. Copies of such amendment, agreement, or instrument shall be provided to the Los Angeles County Counsel, the Directors of the Department and the Department of Public Works, and to the County LEA.		--County Counsel --Dept. of Public Works	Throughout fill operations.	C#19
17.14	The permittee shall submit to all interested County departments and agencies, including County Counsel, the Department of Public Works, the Department, and the County LEA, copies of all agreements entered into between or among the permittee, the City, and/or the County, including, but not limited to, any memorandum of understanding ("MOU"), development agreement, JPA, or other instrument that: a). Establishes a joint powers authority or other entity or arrangement that requires collaboration between the parties on the permitting, inspection and enforcement of the City/County Project. The County LEA proposes to be designated as the lead agency		--Dept. of Public Works --LEA --County Counsel	Throughout fill operations.	C#20

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	in any JPA or similar agreement for the City/County Project for all SWFP activities and the single point of contact for coordinating all permitting, inspections and enforcement activities at the Facility. The actual responsibility for these functions shall be as set forth in the JPA or similar agreement; b). Establishes the City's and County's respective rights to use the Facility and/or establishes the allocation of landfill capacity or disposal fees between the City and County; c). Establishes franchise fees, landfill gas revenues or other fees payable to the City, or bond and/or security arrangements with the City; d). Establishes and environmental education or community amenities program; e). Amends the City's approval of the Facility in connection with either the City Project or the City/County Project; or f). Amends the City's Mitigation Reporting and Monitoring Program for the Facility. In addition to any other penalty provided by this grant or by law, the failure of the permittee to comply with this Condition No. 20 shall result in any and all penalties described in Condition No. 11.				
17.15	The permittee shall prepare and distribute to all interested persons and parties, as shown on the interested parties list used by the Department for this matter, and to any other person requesting to be added to the list, a quarterly newsletter providing the Facility's website and its 24-hour emergency telephone		--Dept. of Public Works	Throughout fill operations.	C#79

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	numbers, and also providing the following information for the quarter: 1) "What is New" at the site; 2) the regulatory and permitting activities at the site; 3) the hotline/emergency log for the period; and 4) a summary of any and all progress reports and/or annual reports required by this grant. The newsletter shall be posted on the Facility's website and distributed to at least one local library.				
17.16	The Permittee shall conduct air quality monitoring at the Facility and its surrounding areas. In addition, an independent air quality consultant selected by the TAC shall conduct at least four random tests per year of Landfill dust and diesel particulates surrounding the perimeter of the Facility to determine whether air quality near the Landfill is consistent with the supporting environmental documentation for the City Project (i.e., the City's Final Supplemental Environmental Impact Report or "FSEIR"). The consultant review shall place added emphasis on the area south of the Landfill above the nearby residential community. The cost of the consultant and the tests shall be borne entirely by the Permittee. The consultant report shall be provided to the Director of the Department, the TAC and the Permittee within 15 calendar days after completion of the tests. If any of the test results are inconsistent with the FSEIR as described in the consultant report, the Permittee shall submit a corrective action plan to the TAC within 15 days after		--LEA --SCAQMD --Dept. of Public Works	Throughout fill operations or as determined by the director.	C#81

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	receipt of the report to set forth a schedule for remedial action. The TAC shall consider the corrective action plan within 30 calendar days of its receipt and provide notice to the Permittee if such plan has been approved. If the TAC does not approve the corrective action plan, the Director of the Department may impose additional or different measures to reduce air quality impacts at the Facility. These additional measures may include requirements that the Permittee: (1) pave additional unpaved roads at the Facility; (2) water and apply soil sealant to additional Working Face areas; (3) relocate Working Face areas to designated locations during windy conditions; (4) monitor sensitive sites throughout the community; and/or (5) close the Facility during extreme wind conditions. The Permittee may appeal the Director's decision in accordance with the appeal provisions in Condition 11 for an appeal of a notice of violation. The Director of the Department, with the advice of the TAC, may reduce the frequency of the consultant testing, or discontinue it altogether, if the Director finds that the test results are invalid or lack beneficial value. In addition to the consultant's other duties under this Condition No. 81, within one year after the Effective Date, the consultant shall conduct testing of landfill gas, dust, and diesel particulates at Van Gogh Elementary School, and based on these results, shall project emissions for the development of the Landfill,				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	and shall conduct on-site monitoring of these emissions consistent with SCAQMD rules and regulations. The test results and mitigations measures, if any, shall be submitted to SCAQMD and the TAC for evaluation and approval. Notwithstanding the above, the TAC may rely upon the information and reports developed in compliance with the City's air quality requirements of Condition C.10.a of the City Ordinance, provided that such information and reports and their background data and analysis are deemed acceptable by the TAC to satisfy the intent of this Condition No. 81.				
17.17	Annual Reports The permittee shall prepare and submit an annual monitoring report to the Department of Regional Planning (DRP) by June 1 of each year during the operation of the landfill. At least 60 days before the due date, draft copies of the report shall be submitted to the following for review and comment: 1). DHS-SWMP; 2). Director of Public Works; 3). Los Angeles County Forester and Fire Warden; 4). Los Angeles Regional Water Quality Control Board; 5). South Coast Air Quality Management District; 6). County Museum of Natural History; 7). County Community Advisory Committee	Annual Report of Compliance	--DPR --Dept. of Public Works --LEA	Throughout fill operations.	IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Each referral shall include a request that comments be sent to the permittee within 30 days of receipt of the draft report, but not later than 15 days before the due date of the final report. The permittee shall provide documentation of each referral to the Director of Regional Planning in a form acceptable to the Director. The permittee shall respond to each comment received and shall include each comment and response with the final report submitted to the DRP. A copy of the final report shall be provided to the local County library and posted on the permittee's website.				
18.0	**LANDFILL OPERATIONS**				
18.1			--LEA --Dept. of Public Works	Throughout fill operations.	C#21
18.2			--LEA --Dept. of Public Works	Throughout fill operations.	C#21
18.3			--LEA --Dept. of Public Works	Throughout fill operations.	C#21
18.4			--LEA --Dept. of Public Works	Throughout fill operations.	C#21

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18.5			--LEA --Dept. of Public Works	Throughout fill operations.	C#78
18.6			--LEA --Dept. of Public Works	Throughout fill operations.	C#24
18.7			--LEA --Dept. of Public Works	Throughout fill operations.	C#80
18.8			--LEA	Throughout fill operations.	C#28
18.9			--LEA --Dept. of Public Works	Throughout fill operations.	C#30
18.10			--LEA --Dept. of Public Works	Throughout fill operations.	C#49
18.11	The permittee shall at all times, 24 hours a day, seven days a week, maintain at least one staff person on-site with sufficient expertise to assess the need for remedial action regarding complaints or operation-related accidents, and with the requisite authority and means to assemble the necessary resources to take such remedial action. The individual must be able to be reached on a continuous basis by the telephone number posted at the landfill entry gate.		--LEA --Dept. of Public Works	Throughout fill operations.	C#50

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
18.12	Within 90 days after the effective date of this grant, the permittee shall develop best available methods or procedures to prevent vehicles leaving the Facility from carrying dirt and/or debris on to local streets or highways.		--LEA --Dept. of Public Works	Throughout fill operations.	C#47

APPENDIX C

Operational Emission Calculations

List of Tables

Table No.	Description
Table C-1	Existing Flare Permit Hourly Emission Limits
Table C-2	Existing Flare Permit Daily Emission Limits
Table C-3	Daily Emissions from Existing Flares at the Current Facility-Wide LFG Combustion Limit
Table C-4	Total Daily Emissions from Existing Flares at Various Current Permit Limits
Table C-5	Baseline Daily Emissions from Existing Flares at the Most Restrictive Current Permit Limit
Table C-6	Proposed Flare Hourly Emissions
Table C-7	Proposed Flare Daily Emissions
Table C-8	Proposed Change in Daily Flare Emissions (CEQA Increment)
Table C-9	Global Warming Potentials
Table C-10	Baseline Annual Flare GHG Emissions
Table C-11	Proposed Annual Flare GHG Emissions
Table C-12	Proposed Change in Annual Flare GHG Emissions (CEQA Increment)
Table C-13	Sunshine Canyon Landfill Monthly LFG Test Data
Table C-14	Baseline Annual TAC Emissions of LFG Constituents
Table C-15	Baseline Peak Hour TAC Emissions of LFG Constituents
Table C-16	Baseline Annual TAC Emissions of Combustion Products
Table C-17	Baseline Peak Hour TAC Emissions of Combustion Products
Table C-18	Proposed Annual TAC Emissions of LFG Constituents
Table C-19	Proposed Peak Hour TAC Emissions of LFG Constituents
Table C-20	Proposed Annual TAC Emissions of Combustion Products
Table C-21	Proposed Peak Hour TAC Emissions of Combustion Products
Table C-22	Proposed Change in Annual TAC Emissions (CEQA Increment)
Table C-23	Proposed Change in Peak Hour TAC Emissions (CEQA Increment)
Table C-24	AERMOD Source Parameters
Table C-25	CEQA Baseline Criteria Pollutant Emissions for Dispersion Modeling
Table C-26	Proposed Project Criteria Pollutant Emissions for Dispersion Modeling
Table C-27	Criteria Pollutant Emission Increments for Dispersion Modeling
Table C-28	Criteria Pollutant Emission Increments Modeled in AERMOD (g/s)
Table C-29	Ambient Air Quality Standards and Attainment Status
Table C-30	Background Concentrations for Attainment Criteria Pollutants
Table C-31	Dispersion Modeling Results for Attainment Criteria Pollutants
Table C-32	Dispersion Modeling Results for Nonattainment Criteria Pollutants
Table C-33	Health Risk Assessment Results

Table C-1

Existing Flare Permit Hourly Emission Limits

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Rated LFG Input (scfm)	Maximum Heat Input (MMBtu/hr) [1]	Current Permit Hourly Emission Limit (lb/hr) [2]				
					NOx	VOC [3]	PM10	SOx	CO
Flare 1	537983	G19108	4,167	105	7.25	0.96	1.71	4.46	4.33
Flare 3	537984	G19109	4,167	105	6.0	0.63	1.6	3.8	4.1
Flare 9	526972	G45944	5,000	152	3.8	0.91	1.5	7.6	9.12
Flare 10	541300	G45946	5,000	152	3.8	0.91	1.5	7.6	9.12
Flare 11	570952	G44479	5,000	152	3.8	0.91	1.5	7.6	9.12

Source: Title V Facility Permit to Operate. Facility ID 049111. Revision #14. May 15, 2018.

[1] Flares 1 and 3 are permitted to 105 MMBtu/hr based on the LFG lower heating value (LHV), while Flares 9, 10, and 11 were permitted to 152 MMBtu/hr based on the LFG higher heating value (HHV).

[2] The permit limits for Flare 1 were converted from lb/day to lb/hr by dividing by 24 hr/day.

[3] The Title V permit limits are expressed as ROG; this appendix uses VOC, which is assumed to be equivalent to ROG.

Table C-2

Existing Flare Permit Daily Emission Limits

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Rated LFG Input (scfm)	Maximum Heat Input (MMBtu/hr) [4]	Current Permit Daily Emission Limit (lb/day) [3]				
					NOx	VOC [5]	PM10	SOx	CO
Flare 1	537983	G19108	4,167	105	174.0	23.0	41.0	107.0	104.0
Flare 3	537984	G19109	4,167	105	144.0	15.1	38.4	91.2	98.4
Flare 9	526972	G45944	5,000	152	91.2	21.8	36.0	182.4	218.9
Flare 10	541300	G45946	5,000	152	91.2	21.8	36.0	182.4	218.9
Flare 11	570952	G44479	5,000	152	91.2	21.8	36.0	182.4	218.9
Facility-Wide Conditions [1]			16,100 [2]	n/a	n/a	125.0	n/a	535.0	520.0

n/a = not applicable (i.e., no permit limit).

Source: Title V Facility Permit to Operate. Facility ID 049111. Revision #14. May 15, 2018.

[1] The facility-wide conditions are not necessarily equal to the sum of the individual device limits.

[2] Facility-wide combustion limit is at 50% CH4. Calculated over a 24-hour period. Includes LFG sent to the SGP facility.

[3] The permit limits for Flares 3, 9, 10, and 11 were converted from lb/hr to lb/day by multiplying by 24 hr/day.

[4] Flares 1 and 3 are permitted to 105 MMBtu/hr based on the LFG lower heating value (LHV), while Flares 9, 10, and 11 were permitted to 152 MMBtu/hr based on the LFG higher heating value (HHV).

[5] The Title V permit limits are expressed as ROG; this appendix uses VOC, which is assumed to be equivalent to ROG.

Table C-3

Daily Emissions from Existing Flares at the Current Facility-Wide LFG Combustion Limit

Abatement Device	LFG Input (scfm) [1]	Daily Emissions (lb/day) [2]					
		NOx	VOC	PM10	PM2.5 [3]	SOx	CO
Flare 1	2,875	120.1	15.9	28.3	28.3	73.8	71.8
Flare 3	2,875	99.4	10.4	26.5	26.5	62.9	67.9
Flare 9	3,450	62.9	15.0	24.8	24.8	125.9	151.0
Flare 10	3,450	62.9	15.0	24.8	24.8	125.9	151.0
Flare 11	3,450	62.9	15.0	24.8	24.8	125.9	151.0
Total	**16,100**	**408.2**	**71.3**	**129.2**	**129.2**	**514.4**	**592.7**

[1] Assume each flare consumes it share of LFG in proportion to its rated capacity, such that the total LFG flow is 16,100 scfm.

[2] Emissions were calculated by scaling the permit emission limits of each flare (Table C-2) by the ratio of LFG Input (this table) to Rated LFG Input (Table C-2).

[3] The PM2.5/PM10 ratio for flares is assumed to be 1.00. Source: SCAQMD, 2006. *Final Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds*. October. Table A, Flares, Gaseous Fuel. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf. Accessed April 2024.

Table C-4

Total Daily Emissions from Existing Flares at Various Current Permit Limits

Permit Limit Scenario	Daily Emissions (lb/day)					
	NOx	VOC	PM10	PM2.5	SOx	CO
A. Sum of individual flare emission limits [1]	591.6	103.5	187.4	n/a	745.4	859.1
B. Facility-wide emission limits [1,2]	870.0	125.0	205.0	n/a	535.0	**520.0**
C. Facility-wide LFG combustion limit [3]	**408.2**	**71.3**	**129.2**	**129.2**	**514.4**	592.7
Most Restrictive Limit (Baseline Emissions)	**408.2**	**71.3**	**129.2**	**129.2**	**514.4**	**520.0**

n/a = not available. The existing permits and 1999 Final SEIR did not include PM2.5.

[1] From Table C-2.

[2] There are no facility-wide permit emission limits for NOx and PM10; therefore, the daily emissions from the 1999 Final SEIR were used as the existing facility-wide limits (Table 4.2-158 [Revised], Page D2-57. Residual emissions [i.e., after mitigation]).

[3] From Table C-3.

Table C-5

Baseline Daily Emissions from Existing Flares at the Most Restrictive Current Permit Limit

	Daily Emissions (lb/day)[1]					
Abatement Device	**NOx**	**VOC**	**PM10**	**PM2.5**	**SOx**	**CO**
Flare 1	120.1	15.9	28.3	28.3	73.8	62.9
Flare 3	99.4	10.4	26.5	26.5	62.9	59.6
Flare 9	62.9	15.0	24.8	24.8	125.9	132.5
Flare 10	62.9	15.0	24.8	24.8	125.9	132.5
Flare 11	62.9	15.0	24.8	24.8	125.9	132.5
Total Baseline Emissions	**408.2**	**71.3**	**129.2**	**129.2**	**514.4**	**520.0**

[1] Assume emissions are distributed in proportion to the individual flare permit emission limits in Table C-2.

Table C-6
Proposed Flare Hourly Emissions

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Rated LFG Input (scfm)	Maximum Heat Input (MMBtu/hr) [2]	Hourly Emission Limit (lb/hr) [1]					
					NOx	VOC	PM10	PM2.5	SOx	CO
Flare 1	537983	G19108	4,167	117	7.25	0.96	1.71	1.71	4.46	4.33
Flare 3	537984	G19109	4,167	117	6.0	0.63	1.6	1.6	3.8	4.1
Flare 9	526972	G45944	5,000	152	3.8	0.91	1.5	1.5	7.6	9.12
Flare 10	541300	G45946	5,000	152	3.8	0.91	1.5	1.5	7.6	9.12
Flare 11	570952	G44479	5,000	152	3.8	0.91	1.5	1.5	7.6	9.12
Flare 12 [3]	598016	Pending	5,000	152	3.8	0.91	1.5	1.5	4.31	9.12
Flare 13 [3]	Pending	Pending	5,000	152	3.8	0.91	1.5	1.5	4.31	9.12

[1] There would be no change in the Title V individual flare permit limits for existing Flares 1, 3, 9, 10, and 11. The proposed emission limits for Flare 12 are draft permit condition emission limits developed by the AQMD (dated 12/12/2024). Flare 13 is assumed to have the same emission limits as Flare 12.

[2] The values displayed for rated heat input are based on the higher heating value (HHV). The values for Flares 1 and 3 were converted from LHV to HHV by dividing LHV by 0.90.

Source: American Petroleum Institute (API), 2021. *Compendium of Greenhouse Gas Emissions Methodologies for the Natural Gas and Oil Industry* . November. Section A.1.3, Page A-4.

Website: https://www.api.org/-/media/files/policy/esg/ghg/2021-api-ghg-compendium-110921.pdf.

[3] Proposed new flare.

Table C-7
Proposed Flare Daily Emissions

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Rated LFG Input (scfm)	Maximum Heat Input (MMBtu/hr) [2]	Daily Emission Limit (lb/day) [1]					
					NOx	VOC	PM10	PM2.5	SOx	CO
Flare 1	537983	G19108	4,167	117	174.0	23.0	41.0	41.0	107.0	104.0
Flare 3	537984	G19109	4,167	117	144.0	15.1	38.4	38.4	91.2	98.4
Flare 9	526972	G45944	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 10	541300	G45946	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 11	570952	G44479	5,000	152	91.2	21.8	36.0	36.0	182.4	218.9
Flare 12 [4]	598016	Pending	5,000	152	91.2	21.8	36.0	36.0	103.4	218.9
Flare 13 [4]	Pending	Pending	5,000	152	91.2	21.8	36.0	36.0	103.4	218.9
Total [3]			**33,334**	**994**	**774.0**	**147.1**	**259.4**	**259.4**	**952.2**	**1,296.9**

[1] There would be no change in the Title V individual flare permit limits for existing Flares 1, 3, 9, 10, and 11. The proposed emission limits for Flare 12 are draft permit condition emission limits developed by the AQMD (dated 12/12/2024). Flare 13 is assumed to have the same emission limits as Flare 12.

[2] The values displayed for rated heat input are based on the higher heating value (HHV). The values for Flares 1 and 3 were converted from LHV to HHV by dividing LHV by 0.90.

Source: American Petroleum Institute (API), 2021. *Compendium of Greenhouse Gas Emissions Methodologies for the Natural Gas and Oil Industry* . November. Section A.1.3, Page A-4.

Website: https://www.api.org/-/media/files/policy/esg/ghg/2021-api-ghg-compendium-110921.pdf.

[3] The total rated LFG input is at 50% CH4. This value represents the total capacity of the seven flares, which is slightly higher than the year 2038 maximum projected maximum LFG generation rate of 32,392 scfm (at 50% CH4).

[4] Proposed new flare.

Table C-8
Proposed Change in Daily Flare Emissions (CEQA Increment)

Emissions Scenario	NOx (lb/day)	VOC (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
Proposed Project [1]	774.0	147.1	259.4	259.4	952.2	1,296.9
Baseline [2]	408.2	71.3	129.2	129.2	514.4	520.0
Offset Emissions [3]	188.0	46.0	59.0	N/A	150.0	N/A
CEQA Increment [4]	**177.8**	**29.8**	**71.2**	**130.2**	**287.8**	**776.9**
SCAQMD Threshold [5]	55	55	150	55	150	550
Exceeds Threshold?	**Yes**	**No**	**No**	**Yes**	**Yes**	**Yes**

[1] Source: Table C-7. Total from Flares 1, 3, 9, 10, 11, 12, and 13 at capacity.
[2] Source: Table C-5. Total from Flares 1, 3, 9, 10, and 11 operating at their most restrictive current Title V limits.
[3] Pursuant to Rule 1303(b)(2), the permit units are required to offset a portion of their emissions. Since SCL's flares are considered an essential public service, the emission offsets are provided from the South Coast AQMD's internal offset accounts in accordance with Rule 1309.1. The emissions to be offset shown here are for Flares 12 and 13 and are based on the permit evaluation for Flare 12, and the same amount is used for Flare 13, as that is assumed to be identical to Flare 12 (although no permit applications have been filed for Flare 13). Emission offsets are not applicable for CO since South Coast AQMD is in attainment for CO. Additionally, the proposed permits for Flares 12 and 13 are not expected to have emission increases of PM2.5 above the applicability threshold under Rule 1325, therefore PM2.5 offset would not be required.

[4] CEQA Increment = Proposed Project minus Baseline minus Offset Emissions.
[5] Source: SCAQMD, 2023. South Coast AQMD Air Quality Significance Thresholds. March. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25.

Table C-9
Global Warming Potentials

CO2	CH4	N2O
1	25	298

IPCC 2007. Intergovernmental Panel on Climate Change, 4*th Assessment Report*. This AR version is consistent with the CARB statewide GHG emissions inventory.

Table C-10
Baseline Annual Flare GHG Emissions

Abatement Device	LFG Input (scfm) [1]	LFG CH4 Content [2]	CH4 Heating Value (Btu/scf) [3]	Emission Factor (kg/MMBtu)			Annual Emissions (MT/yr)			
				CO2 [4]	CH4 [5]	N2O [5]	CO2	CH4	N2O	CO2e
Flare 1	2,875	50%	1,012	52.07	0.0032	0.00063	39,814	2.4	0.5	40,018
Flare 3	2,875	50%	1,012	52.07	0.0032	0.00063	39,814	2.4	0.5	40,018
Flare 9	3,450	50%	1,012	52.07	0.0032	0.00063	47,776	2.9	0.6	48,022
Flare 10	3,450	50%	1,012	52.07	0.0032	0.00063	47,776	2.9	0.6	48,022
Flare 11	3,450	50%	1,012	52.07	0.0032	0.00063	47,776	2.9	0.6	48,022
Total	**16,100**	**50%**	**1,012**	**52.07**	**0.0032**	**0.00063**	**222,956**	**13.7**	**2.7**	**224,103**

[1] Assume each flare consumes it share of LFG in proportion to its rated capacity, where the total is the current Title V limit of 16,100 scfm (at 50% CH4).
[2] Source: U.S. EPA. Basic Information about Landfill Gas. September 20, 2024. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.
[3] Source: EnggCyclopedia. Heating values for natural gas hydrocarbons. 2024. Website: https://enggcyclopedia.com/2011/09/heating-values-natural-gas/. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.
[4] Source: 40 CFR Part 98 Subpart C. General Stationary Fuel Combustion Sources. Table C-1. Landfill Gas.
[5] Source: 40 CFR Part 98 Subpart C. General Stationary Fuel Combustion Sources. Table C-2. Biomass Fuels - Gaseous.

Table C-11

Proposed Annual Flare GHG Emissions

Abatement Device	Maximum Heat Input (MMBtu/hr)	Emission Factor (kg/MMBtu)			Annual Emissions (MT/yr)			
		CO2 [1]	CH4 [2]	N2O [2]	CO2	CH4	N2O	CO2e
Flare 1	117	52.07	0.0032	0.00063	53,368	3.3	0.6	53,642
Flare 3	117	52.07	0.0032	0.00063	53,368	3.3	0.6	53,642
Flare 9	152	52.07	0.0032	0.00063	69,332	4.3	0.8	69,689
Flare 10	152	52.07	0.0032	0.00063	69,332	4.3	0.8	69,689
Flare 11	152	52.07	0.0032	0.00063	69,332	4.3	0.8	69,689
Flare 12 [3]	152	52.07	0.0032	0.00063	69,332	4.3	0.8	69,689
Flare 13 [3]	152	52.07	0.0032	0.00063	69,332	4.3	0.8	69,689
Total	**994**	**52.07**	**0.0032**	**0.00063**	**453,396**	**27.9**	**5.5**	**455,728**

[1] Source: 40 CFR Part 98 Subpart C. General Stationary Fuel Combustion Sources. Table C-1. Landfill Gas.

[2] Source: 40 CFR Part 98 Subpart C. General Stationary Fuel Combustion Sources. Table C-2. Biomass Fuels - Gaseous.

[3] Proposed new flare.

Table C-12

Proposed Change in Annual Flare GHG Emissions (CEQA Increment)

Abatement Device	Change in Annual Emissions (MT/yr)			
	CO2	CH4	N2O	CO2e
Flare 1	13,554	0.8	0.2	13,624
Flare 3	13,554	0.8	0.2	13,624
Flare 9	21,556	1.3	0.3	21,667
Flare 10	21,556	1.3	0.3	21,667
Flare 11	21,556	1.3	0.3	21,667
Flare 12 [1]	69,332	4.3	0.8	69,689
Flare 13 [1]	69,332	4.3	0.8	69,689
Total	**230,440**	**14.2**	**2.8**	**231,625**
SCAQMD Threshold				10,000
Exceeds Threshold?				**Yes**

[1] Proposed new flare.

Table C-13
Sunshine Canyon Landfill Monthly LFG Test Data

Component	HARP2 Pollutant ID	Molecular Weight	Sample Date: 1/29/2024 (ppmv)			Sample Date: 2/28/2024 (ppmv)			Sample Date: 3/27/2024 (ppmv)			Sample Date: 4/30/2024 (ppmv)		
			Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11
Nitrogen	n/a	n/a	285000	98800	130000	299600	167400	193600	324100	154200	157200	296700	159800	217000
Oxygen	n/a	n/a	49000	23500	21800	57100	45900	47200	66600	36900	30800	58900	42400	48900
Methane	n/a	n/a	368000	506500	487400	361400	459000	440900	334100	457300	460000	367000	467000	433300
Carbon dioxide	n/a	n/a	296800	367800	359500	276600	322000	312300	266600	339300	342600	270800	320900	297700
Ethane	n/a	30.07	2.5	5	5	2.5	5	5	2.5	5	5	2.5	5	5
TGNMO	n/a	n/a	1165	5320	3765	1555	4520	3620	1350	3960	3650	1280	5050	3610
Hydrogen sulfide	7783064	34.08	167	117	83.3	168	119	86.9	173	101	80.4	189	108	82.6
Benzene	71432	78.12	1.315	2.06	2.13	0.474	0.976	0.495	0.713	1.47	1.66	0.591	0.804	1.04
Benzyl chloride	100447	126.58	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Chlorobenzene	108907	112.56	0.187	0.0657	0.108	0.02	0.02	0.02	0.0585	0.0431	0.0397	0.02	0.02	0.02
Dichlorobenzenes	106467	147.00	0.259	0.127	0.165	0.04	0.04	0.04	0.111	0.04	0.04	0.04	0.04	0.04
1,1-dichloroethane	75343	98.97	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.066	0.02	0.02	0.02	0.02
1,2-dichloroethane	107062	98.96	0.02	0.609	0.527	0.02	0.469	0.138	0.02	0.835	0.622	0.02	0.823	0.343
1,1-dichloroethylene	75354	96.94	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Dichloromethane	75092	84.94	0.05	0.39	0.352	0.05	0.289	0.161	0.05	0.473	0.47	0.05	0.411	0.251
1,2-dibromoethane	106934	187.88	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Perchloroethylene	127184	165.83	0.015	0.278	0.179	0.015	0.0795	0.015	0.015	0.198	0.111	0.015	0.137	0.0455
Carbon tetrachloride	56235	153.84	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Toluene	108883	92.14	3.915	7.81	9.38	0.869	2.65	1.29	1.655	5.57	4.38	0.875	3.39	2.45
1,1,1-trichloroethane	71556	133.41	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Trichloroethene	79016	131.40	0.015	0.154	0.0949	0.015	0.0584	0.0949	0.015	0.14	0.0784	0.015	0.0988	0.0339
Chloroform	67663	119.39	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Vinyl chloride	75014	62.50	0.089	0.037	0.0506	0.0635	0.032	0.0236	0.0837	0.0636	0.0472	0.0583	0.0521	0.0362
Xylenes (m,p,o-)	1330207	106.16	6.94	5.42	7.17	0.858	1.392	0.599	2.8485	3.656	2.92	0.94	1.698	1.217
Carbonyl sulfide	463581	60.07	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2
Methyl mercaptan	n/a	48.11	0.28	3.9	3.45	0.1	3.17	3.01	0.1	3.72	3.81	0.125	4.6	4.07
Ethyl mercaptan	n/a	62.13	0.1	0.1	0.21	0.1	0.1	0.22	0.1	0.1	0.22	0.125	0.1	0.1
Dimethyl sulfide	n/a	62.13	0.21	3.37	4.45	0.1	2.84	3.29	0.1	3.49	4.22	0.125	4.17	4.64
Carbon disulfide	75150	76.13	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.23	0.1	0.125	0.21	0.1
i-Propyl mercaptan	n/a	n/a	0.1	1.08	0.73	0.1	0.64	0.59	0.1	0.74	0.61	0.125	0.8	0.71
t-Butyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.1
n-Propyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.21
s-Butyl mercaptan	n/a	n/a	0.1	0.88	0.64	0.1	0.51	0.59	0.1	0.64	0.57	0.125	0.71	0.72
i-Butyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.1
Dimethyl disulfide	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.1
Tetrahydrothiophene	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.1
Unidentified sulfurs	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.125	0.1	0.1
Total Sulfur (as H2S)	n/a	n/a	167	125.73	92.78	168	126.1	94.54	172.5	109.7	89.82	188.5	118.2	92.95

Note: All units have been converted to ppmv. Non-detects are listed at 1/2 their method detection limit (MDL).
[1] A pollutant ID of "n/a" means that the compound is not in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values and therefore is not included in the HRA.

Table C-13
Sunshine Canyon Landfill Monthly LFG Test Data (Continued)

Component	HARP2 Pollutant ID	Molecular Weight	Sample Date: 5/31/2023 (ppmv)			Sample Date: 6/29/2023 (ppmv)			Sample Date: 7/27/2023 & 7/31/2023 (ppmv)			Sample Date: 8/24/2023 (ppmv)		
			Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11
Nitrogen	n/a	n/a	290000	159400	136600	271100	175500	145900	236200	116100	137700	262500	91500	118300
Oxygen	n/a	n/a	63100	32400	24800	57900	38900	27500	42000	27900	28400	54900	19700	21900
Methane	n/a	n/a	359000	439500	475000	374500	433400	471600	402400	478500	480600	382400	504300	491600
Carbon dioxide	n/a	n/a	276300	349400	349500	290200	348000	352200	315600	366800	353200	293400	374900	359000
Ethane	n/a	30.07	2.5	5	5	2.5	5	5	2.5	2.5	5	2.5	5	5
TGNMO	n/a	n/a	1955	7340	3550	1725	8310	4220	1705	7235	3710	1640	7090	3550
Hydrogen sulfide	7783064	34.08	164	77.8	98.2	171	73.7	89.6	176	116	99.3	172	114	83.9
Benzene	71432	78.12	1.26	4.62	2.33	1.065	2.24	2.06	1.305	2.265	1.38	0.653	1.34	1.12
Benzyl chloride	100447	126.58	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Chlorobenzene	108907	112.56	0.143	0.18	0.129	0.147	0.0827	0.111	0.138	0.111	0.0889	0.02	0.02	0.02
Dichlorobenzenes	106467	147.00	0.227	0.197	0.148	0.371	0.104	0.126	0.484	0.162	0.118	0.04	0.04	0.04
1,1-dichloroethane	75343	98.97	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1,2-dichloroethane	107062	98.96	0.02	1.8	0.494	0.02	1.24	0.355	0.02	0.945	0.309	0.02	0.609	0.223
1,1-dichloroethylene	75354	96.94	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Dichloromethane	75092	84.94	0.05	1.19	0.238	0.05	0.793	0.164	0.05	0.553	0.141	0.05	0.477	0.114
1,2-dibromoethane	106934	187.88	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Perchloroethylene	127184	165.83	0.0387	0.823	0.245	0.015	0.456	0.155	0.015	0.501	0.138	0.015	0.227	0.0588
Carbon tetrachloride	56235	153.84	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Toluene	108883	92.14	4.31	18	9.45	3.665	10.3	7.99	3.47	11.7	5.35	1.145	5.13	2.83
1,1,1-trichloroethane	71556	133.41	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Trichloroethene	79016	131.40	0.015	0.334	0.108	0.015	0.226	0.0779	0.015	0.215	0.0653	0.015	0.153	0.077
Chloroform	67663	119.39	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Vinyl chloride	75014	62.50	0.0846	0.0777	0.0539	0.0636	0.0593	0.0468	0.0901	0.052	0.041	0.0843	0.0575	0.0395
Xylenes (m,p,o-)	1330207	106.16	7.465	13.25	7.98	7.165	6.88	5.81	6.225	8.52	4.45	1.1265	3.172	1.476
Carbonyl sulfide	463581	60.07	0.3	0.15	0.15	0.3	0.15	0.15	0.3	0.4	0.3	0.3	0.3	0.3
Methyl mercaptan	n/a	48.11	0.3	3.62	2.77	0.24	3.37	2.61	0.23	4.71	2.59	0.35	2.95	2.66
Ethyl mercaptan	n/a	62.13	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
Dimethyl sulfide	n/a	62.13	0.26	4.42	3.14	0.1	3.98	3.23	0.1	4.23	2.77	0.27	2.49	2.53
Carbon disulfide	75150	76.13	0.1	0.23	0.05	0.1	0.19	0.05	0.1	0.1	0.1	0.1	0.1	0.1
i-Propyl mercaptan	n/a	n/a	0.1	0.51	0.65	0.1	0.53	0.56	0.1	0.82	0.6	0.1	0.5	0.52
t-Butyl mercaptan	n/a	n/a	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
n-Propyl mercaptan	n/a	n/a	0.1	0.11	0.12	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
s-Butyl mercaptan	n/a	n/a	0.1	0.51	0.65	0.1	0.46	0.57	0.1	0.6	0.53	0.1	0.36	0.46
i-Butyl mercaptan	n/a	n/a	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
Dimethyl disulfide	n/a	n/a	0.1	0.05	0.05	0.1	0.12	0.05	0.1	0.1	0.1	0.1	0.1	0.1
Tetrahydrothiophene	n/a	n/a	0.1	0.05	0.05	0.1	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
Unidentified sulfurs	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Sulfur (as H2S)	n/a	n/a	164.6	87.43	105.5	170.7	82.59	96.51	176.2	126.4	105.8	172.1	120.3	90.01

Note: All units have been converted to ppmv. Non-detects are listed at 1

[1] A pollutant ID of "n/a" means that the compound is not in the Consol

Table C-13
Sunshine Canyon Landfill Monthly LFG Test Data (Continued)

Component	HARP2 Pollutant ID	Molecular Weight	Sample Date: 9/26/2023 (ppmv)			Sample Date: 10/31/2023 (ppmv)			Sample Date: 11/29/2023 (ppmv)			Sample Date: 12/19/2023 (ppmv)		
			Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11	Flare 1	Flare 3	Flares 9, 10, & 11
Nitrogen	n/a	n/a	243000	144800	210900	298300	105500	167700	231400	234200	156700	240800	152800	156500
Oxygen	n/a	n/a	49800	32800	47800	63700	25700	40300	40300	59100	30100	40500	34000	31300
Methane	n/a	n/a	394900	456100	425700	365100	509100	458000	405600	397500	457200	394300	447000	449100
Carbon dioxide	n/a	n/a	307600	359100	311600	271600	359100	329900	320300	307000	351300	317700	352700	349000
Ethane	n/a	30.07	2.5	5	5	2.5	5	5	2.5	5	5	8.44	5	5
TGNMO	n/a	n/a	1880	7220	3460	1280	6910	5040	1620	6380	5330	1445	7080	6240
Hydrogen sulfide	7783064	34.08	169	90	75.1	145	113	75.7	167	75.4	83.4	166	86.6	87
Benzene	71432	78.12	0.794	2.29	1.22	0.693	2.99	5.37	1.31	2.89	3.02	0.965	1.91	2.38
Benzyl chloride	100447	126.58	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Chlorobenzene	108907	112.56	0.02	0.0637	0.02	0.0707	0.0784	0.0767	0.139	0.0975	0.186	0.108	0.0602	0.0976
Dichlorobenzenes	106467	147.00	0.0673	0.0864	0.0381	0.0943	0.109	0.119	0.242	0.11	0.288	0.248	0.288	0.465
1,1-dichloroethane	75343	98.97	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1,2-dichloroethane	107062	98.96	0.02	1.35	0.147	0.02	1.09	0.365	0.02	0.953	0.615	0.02	0.465	0.547
1,1-dichloroethylene	75354	96.94	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Dichloromethane	75092	84.94	0.05	1.3	0.05	0.05	0.476	0.334	0.05	0.704	0.522	0.05	0.512	0.591
1,2-dibromoethane	106934	187.88	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Perchloroethylene	127184	165.83	0.015	0.486	0.059	0.015	0.376	0.135	0.015	0.534	0.296	0.015	0.255	0.248
Carbon tetrachloride	56235	153.84	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Toluene	108883	92.14	1.735	10.9	2.84	2.175	9.37	6.41	4.43	12.4	12.1	2.445	5.76	7.32
1,1,1-trichloroethane	71556	133.41	0.015	0.0867	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Trichloroethene	79016	131.40	0.015	0.215	0.311	0.015	0.217	0.0772	0.015	0.291	0.16	0.015	0.124	0.133
Chloroform	67663	119.39	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Vinyl chloride	75014	62.50	0.055	0.0695	0.0275	0.049	0.0552	0.0391	0.207	0.138	0.0651	0.123	0.0441	0.0646
Xylenes (m,p,o-)	1330207	106.16	2.319	6.5	1.3912	3.724	6.63	4.69	6.685	8.15	11	4.475	5.22	6.46
Carbonyl sulfide	463581	60.07	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2
Methyl mercaptan	n/a	48.11	0.36	3.94	2.32	0.1	3.73	3.12	0.35	3.03	3.42	0.15	3.44	2.9
Ethyl mercaptan	n/a	62.13	0.1	0.1	0.1	0.1	0.1	0.1	0.22	0.1	0.1	0.15	0.1	0.1
Dimethyl sulfide	n/a	62.13	0.28	4.15	2.41	0.1	3.89	4.01	0.22	3.36	4.3	0.15	3.32	3.27
Carbon disulfide	75150	76.13	0.1	0.29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.15	0.1	0.1
i-Propyl mercaptan	n/a	n/a	0.1	0.6	0.52	0.1	0.77	0.69	0.1	0.71	0.72	0.15	0.66	0.55
t-Butyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
n-Propyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
s-Butyl mercaptan	n/a	n/a	0.1	0.43	0.5	0.1	0.63	0.64	0.22	0.56	0.67	0.15	0.53	0.46
i-Butyl mercaptan	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
Dimethyl disulfide	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
Tetrahydrothiophene	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
Unidentified sulfurs	n/a	n/a	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.15	0.1	0.1
Total Sulfur (as H2S)	n/a	n/a	169.6	99.63	80.8	145	121.5	84.16	168	83.4	92.85	165.5	94.48	94.12

Note: All units have been converted to ppmv. Non-detects are listed at 1
[1] A pollutant ID of "n/a" means that the compound is not in the Consol

Table C-13
Sunshine Canyon Landfill Monthly LFG Test Data (Continued)

Component	HARP2 Pollutant ID	Molecular Weight	Maximum Sample Concentration (acute) (ppmv)	Annual Average Concentration (ppmv)			Maximum Annual Average Concentration (cancer/ chronic) (ppmv)
				Flare 1	Flare 3	Flares 9, 10, & 11	
Nitrogen	n/a	n/a	3.24E+05	2.73E+05	1.47E+05	1.61E+05	2.73E+05
Oxygen	n/a	n/a	6.66E+04	5.37E+04	3.49E+04	3.34E+04	5.37E+04
Methane	n/a	n/a	5.09E+05	3.76E+05	4.63E+05	4.61E+05	4.63E+05
Carbon dioxide	n/a	n/a	3.75E+05	2.92E+05	3.47E+05	3.39E+05	3.47E+05
Ethane	n/a	30.07	8.44E+00	3.00E+00	4.79E+00	5.00E+00	5.00E+00
TGNMO	n/a	n/a	8.31E+03	1.55E+03	6.37E+03	4.15E+03	6.37E+03
Hydrogen sulfide	7783064	34.08	1.89E+02	1.69E+02	9.93E+01	8.55E+01	1.69E+02
Benzene	71432	78.12	5.37E+00	9.28E-01	2.15E+00	2.02E+00	2.15E+00
Benzyl chloride	100447	126.58	2.00E-02	2.00E-02	2.00E-02	2.00E-02	2.00E-02
Chlorobenzene	108907	112.56	1.87E-01	8.93E-02	7.02E-02	7.64E-02	8.93E-02
Dichlorobenzenes	106467	147.00	4.84E-01	1.85E-01	1.12E-01	1.36E-01	1.85E-01
1,1-dichloroethane	75343	98.97	6.60E-02	2.00E-02	2.38E-02	2.00E-02	2.38E-02
1,2-dichloroethane	107062	98.96	1.80E+00	2.00E-02	9.32E-01	3.90E-01	9.32E-01
1,1-dichloroethylene	75354	96.94	2.00E-02	2.00E-02	2.00E-02	2.00E-02	2.00E-02
Dichloromethane	75092	84.94	1.30E+00	5.00E-02	6.31E-01	2.82E-01	6.31E-01
1,2-dibromoethane	106934	187.88	1.50E-02	1.50E-02	1.50E-02	1.50E-02	1.50E-02
Perchloroethylene	127184	165.83	8.23E-01	1.70E-02	3.63E-01	1.40E-01	3.63E-01
Carbon tetrachloride	56235	153.84	2.50E-02	2.50E-02	2.50E-02	2.50E-02	2.50E-02
Toluene	108883	92.14	1.80E+01	2.56E+00	8.58E+00	5.98E+00	8.58E+00
1,1,1-trichloroethane	71556	133.41	8.67E-02	1.50E-02	2.10E-02	1.50E-02	2.10E-02
Trichloroethene	79016	131.40	3.34E-01	1.50E-02	1.86E-01	1.09E-01	1.86E-01
Chloroform	67663	119.39	1.50E-02	1.50E-02	1.50E-02	1.50E-02	1.50E-02
Vinyl chloride	75014	62.50	2.07E-01	8.76E-02	6.15E-02	4.46E-02	8.76E-02
Xylenes (m,p,o-)	1330207	106.16	1.33E+01	4.23E+00	5.87E+00	4.60E+00	5.87E+00
Carbonyl sulfide	463581	60.07	4.00E-01	3.00E-01	2.33E-01	2.17E-01	3.00E-01
Methyl mercaptan	n/a	48.11	4.71E+00	2.24E-01	3.68E+00	3.06E+00	3.68E+00
Ethyl mercaptan	n/a	62.13	2.20E-01	1.16E-01	9.17E-02	1.21E-01	1.21E-01
Dimethyl sulfide	n/a	62.13	4.64E+00	1.68E-01	3.64E+00	3.52E+00	3.64E+00
Carbon disulfide	75150	76.13	2.90E-01	1.06E-01	1.63E-01	1.00E-01	1.63E-01
i-Propyl mercaptan	n/a	n/a	1.08E+00	1.06E-01	6.97E-01	6.21E-01	6.97E-01
t-Butyl mercaptan	n/a	n/a	1.50E-01	1.06E-01	9.17E-02	9.17E-02	1.06E-01
n-Propyl mercaptan	n/a	n/a	2.10E-01	1.06E-01	9.67E-02	1.07E-01	1.07E-01
s-Butyl mercaptan	n/a	n/a	8.80E-01	1.16E-01	5.68E-01	5.83E-01	5.83E-01
i-Butyl mercaptan	n/a	n/a	1.50E-01	1.06E-01	9.17E-02	9.17E-02	1.06E-01
Dimethyl disulfide	n/a	n/a	1.50E-01	1.06E-01	9.75E-02	9.17E-02	1.06E-01
Tetrahydrothiophene	n/a	n/a	1.50E-01	1.06E-01	9.17E-02	9.17E-02	1.06E-01
Unidentified sulfurs	n/a	n/a	1.50E-01	1.06E-01	1.00E-01	1.00E-01	1.06E-01
Total Sulfur (as H2S)	n/a	n/a	1.89E+02	1.69E+02	1.08E+02	9.33E+01	1.69E+02

Note: All units have been converted to ppmv. Non-detects are listed at 1
[1] A pollutant ID of "n/a" means that the compound is not in the Consol

Table C-14
Baseline Annual TAC Emissions of LFG Constituents

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Annual Average LFG Inlet Flow (scfm) [2]					MW (lb/lb-mol)	Annual Average Conc. in LFG (ppmv) [3]	LFG Conc. Source [4]	Destruction Efficiency [5]	Annual Emissions (lb/yr) [6]				
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11					Flare 1	Flare 3	Flare 9	Flare 10	Flare 11
75343	1,1-Dichloroethane	2,875	2,875	3,450	3,450	3,450	98.97	2.38E-02	Onsite Test	98%	1.88E-01	1.88E-01	2.26E-01	2.26E-01	2.26E-01
107131	Acrylonitrile	2,875	2,875	3,450	3,450	3,450	53.06	6.30E+00	AP-42	98%	2.66E+01	2.66E+01	3.20E+01	3.20E+01	3.20E+01
71432	Benzene	2,875	2,875	3,450	3,450	3,450	78.12	2.15E+00	Onsite Test	98%	1.34E+01	1.34E+01	1.61E+01	1.61E+01	1.61E+01
100447	Benzyl chloride	2,875	2,875	3,450	3,450	3,450	126.58	2.00E-02	Onsite Test	98%	2.02E-01	2.02E-01	2.42E-01	2.42E-01	2.42E-01
56235	Carbon tetrachloride	2,875	2,875	3,450	3,450	3,450	153.84	2.50E-02	Onsite Test	98%	3.06E-01	3.06E-01	3.68E-01	3.68E-01	3.68E-01
67663	Chloroform	2,875	2,875	3,450	3,450	3,450	119.39	1.50E-02	Onsite Test	98%	1.43E-01	1.43E-01	1.71E-01	1.71E-01	1.71E-01
106934	Ethylene dibromide	2,875	2,875	3,450	3,450	3,450	187.88	1.50E-02	Onsite Test	98%	2.25E-01	2.25E-01	2.69E-01	2.69E-01	2.69E-01
107062	Ethylene dichloride	2,875	2,875	3,450	3,450	3,450	98.96	9.32E-01	Onsite Test	98%	7.35E+00	7.35E+00	8.82E+00	8.82E+00	8.82E+00
100414	Ethyl benzene	2,875	2,875	3,450	3,450	3,450	106.16	4.60E+00	AP-42	98%	3.89E+01	3.89E+01	4.67E+01	4.67E+01	4.67E+01
75092	Methylene chloride	2,875	2,875	3,450	3,450	3,450	84.94	6.31E-01	Onsite Test	98%	4.27E+00	4.27E+00	5.12E+00	5.12E+00	5.12E+00
106467	p-Dichlorobenzene	2,875	2,875	3,450	3,450	3,450	147	1.85E-01	Onsite Test	98%	2.17E+00	2.17E+00	2.60E+00	2.60E+00	2.60E+00
127184	Perchloroethylene	2,875	2,875	3,450	3,450	3,450	165.83	3.63E-01	Onsite Test	98%	4.79E+00	4.79E+00	5.75E+00	5.75E+00	5.75E+00
79345	Tetrachloroethane	2,875	2,875	3,450	3,450	3,450	167.85	1.10E+00	AP-42	98%	1.47E+01	1.47E+01	1.77E+01	1.77E+01	1.77E+01
75014	Vinyl chloride	2,875	2,875	3,450	3,450	3,450	62.5	8.76E-02	Onsite Test	98%	4.36E-01	4.36E-01	5.24E-01	5.24E-01	5.24E-01
71556	Methyl chloroform	2,875	2,875	3,450	3,450	3,450	133.41	2.10E-02	Onsite Test	98%	2.23E-01	2.23E-01	2.68E-01	2.68E-01	2.68E-01
75354	Vinylidene chloride	2,875	2,875	3,450	3,450	3,450	96.94	2.00E-02	Onsite Test	98%	1.54E-01	1.54E-01	1.85E-01	1.85E-01	1.85E-01
67630	Isopropyl alcohol	2,875	2,875	3,450	3,450	3,450	60.11	5.00E+01	AP-42	98%	2.40E+02	2.40E+02	2.87E+02	2.87E+02	2.87E+02
108907	Chlorobenzene	2,875	2,875	3,450	3,450	3,450	112.56	8.93E-02	Onsite Test	98%	8.01E-01	8.01E-01	9.61E-01	9.61E-01	9.61E-01
75003	Ethyl chloride	2,875	2,875	3,450	3,450	3,450	64.52	1.30E+00	AP-42	98%	6.68E+00	6.68E+00	8.02E+00	8.02E+00	8.02E+00
110543	Hexane	2,875	2,875	3,450	3,450	3,450	86.18	6.60E+00	AP-42	98%	4.53E+01	4.53E+01	5.44E+01	5.44E+01	5.44E+01
78933	Methyl ethyl ketone	2,875	2,875	3,450	3,450	3,450	72.11	7.10E+00	AP-42	98%	4.08E+01	4.08E+01	4.90E+01	4.90E+01	4.90E+01
108883	Toluene	2,875	2,875	3,450	3,450	3,450	92.14	8.58E+00	Onsite Test	98%	6.30E+01	6.30E+01	7.56E+01	7.56E+01	7.56E+01
79016	Trichloroethene	2,875	2,875	3,450	3,450	3,450	131.4	1.86E-01	Onsite Test	98%	1.94E+00	1.94E+00	2.33E+00	2.33E+00	2.33E+00
1330207	Xylenes	2,875	2,875	3,450	3,450	3,450	106.16	5.87E+00	Onsite Test	98%	4.97E+01	4.97E+01	5.96E+01	5.96E+01	5.96E+01
7439976	Mercury	2,875	2,875	3,450	3,450	3,450	200.61	2.90E-04	AP-42	0%	2.32E-01	2.32E-01	2.78E-01	2.78E-01	2.78E-01
7647010	Hydrogen chloride	2,875	2,875	3,450	3,450	3,450	36.5	4.20E+01	AP-42	0%	6.11E+03	6.11E+03	7.33E+03	7.33E+03	7.33E+03
75150	Carbon disulfide	2,875	2,875	3,450	3,450	3,450	76.13	1.63E-01	Onsite Test	98%	9.86E-01	9.86E-01	1.18E+00	1.18E+00	1.18E+00
463581	Carbonyl sulfide	2,875	2,875	3,450	3,450	3,450	60.07	3.00E-01	Onsite Test	98%	1.44E+00	1.44E+00	1.72E+00	1.72E+00	1.72E+00
7783064	Hydrogen sulfide	2,875	2,875	3,450	3,450	3,450	34.08	1.69E+02	Onsite Test	98%	4.59E+02	4.59E+02	5.50E+02	5.50E+02	5.50E+02

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The baseline annual average LFG inlet flow, summed over all five existing flares, is equal to the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) in the current Title V permit.

[3] When onsite test data were available (see Note 4), the LFG concentration used for cancer risk and the chronic HI was the highest annual average (i.e., 12-month average) concentration of the three tested sample streams.

[4] "Onsite Test" means the inlet gas concentration was obtained from the most recent 12-month period of onsite LFG sampling (May 2023 - April 2024). Samples were taken each month upstream of Flare 1, Flare 3, and Flares 9, 10, and 11 (three samples per month). Non-detects were assumed to be 1/2 the method detection limit. "AP-42" means onsite test data were not available; therefore, a default inlet gas concentration was obtained from Table 2.4.1 of *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)* , Section 2.4, Municipal Solid Waste Landfills (EPA, August 2024). Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final_0.pdf.

[5] The destruction efficiency was assumed to be 98 percent for all compounds (per AQMD Rule 1150.1) except mercury and HCl. All mercury was assumed to be emitted and therefore the destruction efficiency was set to zero. HCl is a product of combustion; a default ionic clorine LFG concentration of 42 ppmv was used (Source: AP-42 Section 2.4, Page 2.4-9), and the destruction efficiency was set to zero.

[6] Emissions were calculated using Equation 4 of AP-42 Section 2.4 (EPA, 2024).

Table C-15
Baseline Peak Hour TAC Emissions of LFG Constituents

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Peak Hour LFG Inlet Flow (scfm) [2]					MW (lb/lb-mol)	Maximum Conc. in LFG (ppmv) [3]	LFG Conc. Source [4]	Destruction Efficiency [5]	Peak Hour Emissions (lb/hr) [6]				
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11					Flare 1	Flare 3	Flare 9	Flare 10	Flare 11
75343	1,1-Dichloroethane	4,167	4,167	5,000	5,000	5,000	98.97	6.60E-02	Onsite Test	98%	8.61E-05	8.61E-05	1.03E-04	1.03E-04	1.03E-04
107131	Acrylonitrile	4,167	4,167	5,000	5,000	5,000	53.06	6.30E+00	AP-42	98%	4.41E-03	4.41E-03	5.29E-03	5.29E-03	5.29E-03
71432	Benzene	4,167	4,167	5,000	5,000	5,000	78.12	5.37E+00	Onsite Test	98%	5.53E-03	5.53E-03	6.64E-03	6.64E-03	6.64E-03
100447	Benzyl chloride	4,167	4,167	5,000	5,000	5,000	126.58	2.00E-02	Onsite Test	98%	3.34E-05	3.34E-05	4.01E-05	4.01E-05	4.01E-05
56235	Carbon tetrachloride	4,167	4,167	5,000	5,000	5,000	153.84	2.50E-02	Onsite Test	98%	5.07E-05	5.07E-05	6.08E-05	6.08E-05	6.08E-05
67663	Chloroform	4,167	4,167	5,000	5,000	5,000	119.39	1.50E-02	Onsite Test	98%	2.36E-05	2.36E-05	2.83E-05	2.83E-05	2.83E-05
106934	Ethylene dibromide	4,167	4,167	5,000	5,000	5,000	187.88	1.50E-02	Onsite Test	98%	3.72E-05	3.72E-05	4.46E-05	4.46E-05	4.46E-05
107062	Ethylene dichloride	4,167	4,167	5,000	5,000	5,000	98.96	1.80E+00	Onsite Test	98%	2.35E-03	2.35E-03	2.82E-03	2.82E-03	2.82E-03
100414	Ethyl benzene	4,167	4,167	5,000	5,000	5,000	106.16	4.60E+00	AP-42	98%	6.44E-03	6.44E-03	7.73E-03	7.73E-03	7.73E-03
75092	Methylene chloride	4,167	4,167	5,000	5,000	5,000	84.94	1.30E+00	Onsite Test	98%	1.46E-03	1.46E-03	1.75E-03	1.75E-03	1.75E-03
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	147	4.84E-01	Onsite Test	98%	9.38E-04	9.38E-04	1.13E-03	1.13E-03	1.13E-03
127184	Perchloroethylene	4,167	4,167	5,000	5,000	5,000	165.83	8.23E-01	Onsite Test	98%	1.80E-03	1.80E-03	2.16E-03	2.16E-03	2.16E-03
79345	Tetrachloroethane	4,167	4,167	5,000	5,000	5,000	167.85	1.10E+00	AP-42	98%	2.43E-03	2.43E-03	2.92E-03	2.92E-03	2.92E-03
75014	Vinyl chloride	4,167	4,167	5,000	5,000	5,000	62.5	2.07E-01	Onsite Test	98%	1.71E-04	1.71E-04	2.05E-04	2.05E-04	2.05E-04
71556	Methyl chloroform	4,167	4,167	5,000	5,000	5,000	133.41	8.67E-02	Onsite Test	98%	1.53E-04	1.53E-04	1.83E-04	1.83E-04	1.83E-04
75354	Vinylidene chloride	4,167	4,167	5,000	5,000	5,000	96.94	2.00E-02	Onsite Test	98%	2.56E-05	2.56E-05	3.07E-05	3.07E-05	3.07E-05
67630	Isopropyl alcohol	4,167	4,167	5,000	5,000	5,000	60.11	5.00E+01	AP-42	98%	3.96E-02	3.96E-02	4.75E-02	4.75E-02	4.75E-02
108907	Chlorobenzene	4,167	4,167	5,000	5,000	5,000	112.56	1.87E-01	Onsite Test	98%	2.78E-04	2.78E-04	3.33E-04	3.33E-04	3.33E-04
75003	Ethyl chloride	4,167	4,167	5,000	5,000	5,000	64.52	1.30E+00	AP-42	98%	1.11E-03	1.11E-03	1.33E-03	1.33E-03	1.33E-03
110543	Hexane	4,167	4,167	5,000	5,000	5,000	86.18	6.60E+00	AP-42	98%	7.50E-03	7.50E-03	9.00E-03	9.00E-03	9.00E-03
78933	Methyl ethyl ketone	4,167	4,167	5,000	5,000	5,000	72.11	7.10E+00	AP-42	98%	6.75E-03	6.75E-03	8.10E-03	8.10E-03	8.10E-03
108883	Toluene	4,167	4,167	5,000	5,000	5,000	92.14	1.80E+01	Onsite Test	98%	2.19E-02	2.19E-02	2.62E-02	2.62E-02	2.62E-02
79016	Trichloroethene	4,167	4,167	5,000	5,000	5,000	131.4	3.34E-01	Onsite Test	98%	5.79E-04	5.79E-04	6.94E-04	6.94E-04	6.94E-04
1330207	Xylenes	4,167	4,167	5,000	5,000	5,000	106.16	1.33E+01	Onsite Test	98%	1.85E-02	1.85E-02	2.23E-02	2.23E-02	2.23E-02
7439976	Mercury	4,167	4,167	5,000	5,000	5,000	200.61	2.90E-04	AP-42	0%	3.84E-05	3.84E-05	4.60E-05	4.60E-05	4.60E-05
7647010	Hydrogen chloride	4,167	4,167	5,000	5,000	5,000	36.5	4.20E+01	AP-42	0%	1.01E+00	1.01E+00	1.21E+00	1.21E+00	1.21E+00
75150	Carbon disulfide	4,167	4,167	5,000	5,000	5,000	76.13	2.90E-01	Onsite Test	98%	2.91E-04	2.91E-04	3.49E-04	3.49E-04	3.49E-04
463581	Carbonyl sulfide	4,167	4,167	5,000	5,000	5,000	60.07	4.00E-01	Onsite Test	98%	3.17E-04	3.17E-04	3.80E-04	3.80E-04	3.80E-04
7783064	Hydrogen sulfide	4,167	4,167	5,000	5,000	5,000	34.08	1.89E+02	Onsite Test	98%	8.49E-02	8.49E-02	1.02E-01	1.02E-01	1.02E-01

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The baseline peak hour LFG inlet flow is equal to the rated capacity of each flare (the current Title V site-wide limit of 16,100 scfm is based on a 24-hour average and therefore doesn't restrict peak hour flow).

[3] When onsite test data were available (see Note 4), the LFG concentration used for the acute hazard index was the highest sample result of any LFG stream in any month in the 12-month sampling period.

[4] "Onsite Test" means the inlet gas concentration was obtained from the most recent 12-month period of onsite LFG sampling (May 2023 - April 2024). Samples were taken each month upstream of Flare 1, Flare 3, and Flares 9, 10, and 11 (three samples per month). Non-detects were assumed to be 1/2 the method detection limit. "AP-42" means onsite test data were not available; therefore, a default inlet gas concentration was obtained from Table 2.4.1 of *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)* , Section 2.4, Municipal Solid Waste Landfills (EPA, August 2024). Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final_0.pdf.

[5] The destruction efficiency was assumed to be 98 percent for all compounds (per AQMD Rule 1150.1) except mercury and HCl. All mercury was assumed to be emitted and therefore the destruction efficiency was set to zero. HCl is a product of combustion; a default ionic clorine LFG concentration of 42 ppmv was used (Source: AP-42 Section 2.4, Page 2.4-9), and the destruction efficiency was set to zero.

[6] Emissions were calculated using Equation 4 of AP-42 Section 2.4 (EPA, 2024).

Table C-16

Baseline Annual TAC Emissions of Combustion Products

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Annual Average LFG Inlet Flow (scfm) [2]					LFG CH4 Content [3]	Emission Factor ($lb/10^6$ scf) [4]	Annual Emissions (lb/yr)				
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11			Flare 1	Flare 3	Flare 9	Flare 10	Flare 11
56495	3-Methylcholanthrene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
57976	7,12-Dimethylbenz(a) anthracene	2,875	2,875	3,450	3,450	3,450	50%	8.00E-06	6.04E-03	6.04E-03	7.25E-03	7.25E-03	7.25E-03
56553	Benz(a)anthracene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
71432	Benzene	2,875	2,875	3,450	3,450	3,450	50%	2.10E-03	1.59E+00	1.59E+00	1.90E+00	1.90E+00	1.90E+00
50328	Benzo(a)pyrene	2,875	2,875	3,450	3,450	3,450	50%	6.00E-07	4.53E-04	4.53E-04	5.44E-04	5.44E-04	5.44E-04
205992	Benzo(b)fluoranthene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
207089	Benzo(k)fluoranthene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
218019	Chrysene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
53703	Dibenzo(a,h)anthracene	2,875	2,875	3,450	3,450	3,450	50%	6.00E-07	4.53E-04	4.53E-04	5.44E-04	5.44E-04	5.44E-04
106467	p-Dichlorobenzene	2,875	2,875	3,450	3,450	3,450	50%	1.20E-03	9.07E-01	9.07E-01	1.09E+00	1.09E+00	1.09E+00
50000	Formaldehyde	2,875	2,875	3,450	3,450	3,450	50%	7.50E-02	5.67E+01	5.67E+01	6.80E+01	6.80E+01	6.80E+01
110543	Hexane	2,875	2,875	3,450	3,450	3,450	50%	1.80E+00	1.36E+03	1.36E+03	1.63E+03	1.63E+03	1.63E+03
193395	Indeno(1,2,3-cd)pyrene	2,875	2,875	3,450	3,450	3,450	50%	9.00E-07	6.80E-04	6.80E-04	8.16E-04	8.16E-04	8.16E-04
91203	Naphthalene	2,875	2,875	3,450	3,450	3,450	50%	6.10E-04	4.61E-01	4.61E-01	5.53E-01	5.53E-01	5.53E-01
108883	Toluene	2,875	2,875	3,450	3,450	3,450	50%	3.40E-03	2.57E+00	2.57E+00	3.08E+00	3.08E+00	3.08E+00
10102440	Nitrogen dioxide	2,875	2,875	3,450	3,450	3,450	50%	n/a [5]	4.38E+04	3.63E+04	2.30E+04	2.30E+04	2.30E+04
7446095	Sulfur dioxide	2,875	2,875	3,450	3,450	3,450	50%	n/a [5]	2.69E+04	2.30E+04	4.60E+04	4.60E+04	4.60E+04
630080	Carbon monoxide	2,875	2,875	3,450	3,450	3,450	50%	n/a [5]	2.30E+04	2.18E+04	4.84E+04	4.84E+04	4.84E+04

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The baseline annual average LFG inlet flow, summed over all five existing flares, is equal to the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) in the current Title V permit.

[3] Source: U.S. EPA. Basic Information about Landfill Gas. September 20, 2024. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.

[4] Source: AP-42 Section 1.4, Table 1.4-3 (July 1998). Emission factors based on the method detection limit (MDL) are listed at 1/2 the MDL.

[5] Criteria pollutant emissions were obtained from Table C-5 and multiplied by 365 days/year. The emissions reflect the most restrictive current Title V limit for each pollutant.

Table C-17

Baseline Peak Hour TAC Emissions of Combustion Products

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Peak Hour LFG Inlet Flow (scfm) [2]					LFG CH4 Content [3]	Emission Factor (lb/10^6 scf) [4]	Peak Hour Emissions (lb/hr)				
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11			Flare 1	Flare 3	Flare 9	Flare 10	Flare 11
56495	3-Methylcholanthrene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
57976	7,12-Dimethylbenz(a) anthracene	4,167	4,167	5,000	5,000	5,000	50%	8.00E-06	1.00E-06	1.00E-06	1.20E-06	1.20E-06	1.20E-06
56553	Benz(a)anthracene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
71432	Benzene	4,167	4,167	5,000	5,000	5,000	50%	2.10E-03	2.63E-04	2.63E-04	3.15E-04	3.15E-04	3.15E-04
50328	Benzo(a)pyrene	4,167	4,167	5,000	5,000	5,000	50%	6.00E-07	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08
205992	Benzo(b)fluoranthene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
207089	Benzo(k)fluoranthene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
218019	Chrysene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
53703	Dibenzo(a,h)anthracene	4,167	4,167	5,000	5,000	5,000	50%	6.00E-07	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	50%	1.20E-03	1.50E-04	1.50E-04	1.80E-04	1.80E-04	1.80E-04
50000	Formaldehyde	4,167	4,167	5,000	5,000	5,000	50%	7.50E-02	9.38E-03	9.38E-03	1.13E-02	1.13E-02	1.13E-02
110543	Hexane	4,167	4,167	5,000	5,000	5,000	50%	1.80E+00	2.25E-01	2.25E-01	2.70E-01	2.70E-01	2.70E-01
193395	Indeno(1,2,3-cd)pyrene	4,167	4,167	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07
91203	Naphthalene	4,167	4,167	5,000	5,000	5,000	50%	6.10E-04	7.63E-05	7.63E-05	9.15E-05	9.15E-05	9.15E-05
108883	Toluene	4,167	4,167	5,000	5,000	5,000	50%	3.40E-03	4.25E-04	4.25E-04	5.10E-04	5.10E-04	5.10E-04
10102440	Nitrogen dioxide	4,167	4,167	5,000	5,000	5,000	50%	n/a [5]	7.25E+00	6.00E+00	3.80E+00	3.80E+00	3.80E+00
7446095	Sulfur dioxide	4,167	4,167	5,000	5,000	5,000	50%	n/a [5]	4.46E+00	3.80E+00	7.60E+00	7.60E+00	7.60E+00
630080	Carbon monoxide	4,167	4,167	5,000	5,000	5,000	50%	n/a [5]	4.33E+00	4.10E+00	9.12E+00	9.12E+00	9.12E+00

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The baseline peak hour LFG inlet flow is equal to the rated capacity of each flare (the current Title V site-wide limit of 16,100 scfm is based on a 24-hour average and therefore doesn't restrict peak hour flow).

[3] Source: U.S. EPA. Basic Information about Landfill Gas. September 20, 2024. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.

[4] Source: AP-42 Section 1.4, Table 1.4-3 (July 1998). Emission factors based on the method detection limit (MDL) are listed at 1/2 the MDL.

[5] Criteria pollutant emissions were obtained from Table C-1.

Table C-18
Proposed Annual TAC Emissions of LFG Constituents

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Annual Average LFG Inlet Flow (scfm) [2]							MW (lb/lb-mol)	Annual Average Conc. in LFG (ppmv) [3]	LFG Conc. Source [4]	Destruction Efficiency [5]	Annual Emissions (lb/yr) [6]						
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13					Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13
75343	1,1-Dichloroethane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	98.97	2.38E-02	Onsite Test	98%	2.72E-01	2.72E-01	3.27E-01	3.27E-01	3.27E-01	3.27E-01	3.27E-01
107131	Acrylonitrile	4,167	4,167	5,000	5,000	5,000	5,000	5,000	53.06	6.30E+00	AP-42	98%	3.86E+01	3.86E+01	4.63E+01	4.63E+01	4.63E+01	4.63E+01	4.63E+01
71432	Benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	78.12	2.15E+00	Onsite Test	98%	1.94E+01	1.94E+01	2.33E+01	2.33E+01	2.33E+01	2.33E+01	2.33E+01
100447	Benzyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	126.58	2.00E-02	Onsite Test	98%	2.92E-01	2.92E-01	3.51E-01	3.51E-01	3.51E-01	3.51E-01	3.51E-01
56235	Carbon tetrachloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	153.84	2.50E-02	Onsite Test	98%	4.44E-01	4.44E-01	5.33E-01	5.33E-01	5.33E-01	5.33E-01	5.33E-01
67663	Chloroform	4,167	4,167	5,000	5,000	5,000	5,000	5,000	119.39	1.50E-02	Onsite Test	98%	2.07E-01	2.07E-01	2.48E-01	2.48E-01	2.48E-01	2.48E-01	2.48E-01
106934	Ethylene dibromide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	187.88	1.50E-02	Onsite Test	98%	3.25E-01	3.25E-01	3.91E-01	3.91E-01	3.91E-01	3.91E-01	3.91E-01
107062	Ethylene dichloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	98.96	9.32E-01	Onsite Test	98%	1.07E+01	1.07E+01	1.28E+01	1.28E+01	1.28E+01	1.28E+01	1.28E+01
100414	Ethyl benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	106.16	4.60E+00	AP-42	98%	5.64E+01	5.64E+01	6.77E+01	6.77E+01	6.77E+01	6.77E+01	6.77E+01
75092	Methylene chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	84.94	6.31E-01	Onsite Test	98%	6.19E+00	6.19E+00	7.42E+00	7.42E+00	7.42E+00	7.42E+00	7.42E+00
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	147	1.85E-01	Onsite Test	98%	3.15E+00	3.15E+00	3.78E+00	3.78E+00	3.78E+00	3.78E+00	3.78E+00
127184	Perchloroethylene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	165.83	3.63E-01	Onsite Test	98%	6.94E+00	6.94E+00	8.33E+00	8.33E+00	8.33E+00	8.33E+00	8.33E+00
79345	Tetrachloroethane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	167.85	1.10E+00	AP-42	98%	2.13E+01	2.13E+01	2.56E+01	2.56E+01	2.56E+01	2.56E+01	2.56E+01
75014	Vinyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	62.5	8.76E-02	Onsite Test	98%	6.32E-01	6.32E-01	7.59E-01	7.59E-01	7.59E-01	7.59E-01	7.59E-01
71556	Methyl chloroform	4,167	4,167	5,000	5,000	5,000	5,000	5,000	133.41	2.10E-02	Onsite Test	98%	3.23E-01	3.23E-01	3.88E-01	3.88E-01	3.88E-01	3.88E-01	3.88E-01
75354	Vinylidene chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	96.94	2.00E-02	Onsite Test	98%	2.24E-01	2.24E-01	2.69E-01	2.69E-01	2.69E-01	2.69E-01	2.69E-01
67630	Isopropyl alcohol	4,167	4,167	5,000	5,000	5,000	5,000	5,000	60.11	5.00E+01	AP-42	98%	3.47E+02	3.47E+02	4.17E+02	4.17E+02	4.17E+02	4.17E+02	4.17E+02
108907	Chlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	112.56	8.93E-02	Onsite Test	98%	1.16E+00	1.16E+00	1.39E+00	1.39E+00	1.39E+00	1.39E+00	1.39E+00
75003	Ethyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	64.52	1.30E+00	AP-42	98%	9.69E+00	9.69E+00	1.16E+01	1.16E+01	1.16E+01	1.16E+01	1.16E+01
110543	Hexane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	86.18	6.60E+00	AP-42	98%	6.57E+01	6.57E+01	7.88E+01	7.88E+01	7.88E+01	7.88E+01	7.88E+01
78933	Methyl ethyl ketone	4,167	4,167	5,000	5,000	5,000	5,000	5,000	72.11	7.10E+00	AP-42	98%	5.91E+01	5.91E+01	7.10E+01	7.10E+01	7.10E+01	7.10E+01	7.10E+01
108883	Toluene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	92.14	8.58E+00	Onsite Test	98%	9.13E+01	9.13E+01	1.10E+02	1.10E+02	1.10E+02	1.10E+02	1.10E+02
79016	Trichloroethene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	131.4	1.86E-01	Onsite Test	98%	2.82E+00	2.82E+00	3.38E+00	3.38E+00	3.38E+00	3.38E+00	3.38E+00
1330207	Xylenes	4,167	4,167	5,000	5,000	5,000	5,000	5,000	106.16	5.87E+00	Onsite Test	98%	7.20E+01	7.20E+01	8.64E+01	8.64E+01	8.64E+01	8.64E+01	8.64E+01
7439976	Mercury	4,167	4,167	5,000	5,000	5,000	5,000	5,000	200.61	2.90E-04	AP-42	0%	3.36E-01	3.36E-01	4.03E-01	4.03E-01	4.03E-01	4.03E-01	4.03E-01
7647010	Hydrogen chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	36.5	4.20E+01	AP-42	0%	8.85E+03	8.85E+03	1.06E+04	1.06E+04	1.06E+04	1.06E+04	1.06E+04
75150	Carbon disulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	76.13	1.63E-01	Onsite Test	98%	1.43E+00	1.43E+00	1.71E+00	1.71E+00	1.71E+00	1.71E+00	1.71E+00
463581	Carbonyl sulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	60.07	3.00E-01	Onsite Test	98%	2.08E+00	2.08E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00
7783064	Hydrogen sulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	34.08	1.69E+02	Onsite Test	98%	6.65E+02	6.65E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02	7.98E+02

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The proposed annual average LFG inlet flow is equal to the rated capacity of each flare.

[3] When onsite test data were available (see Note 4), the LFG concentration used for cancer risk and the chronic hazard index was the highest annual average (i.e., 12-month average) concentration of the three tested sample streams.

[4] "Onsite Test" means the inlet gas concentration was obtained from the most recent 12-month period of onsite LFG sampling (May 2023 - April 2024). Samples were taken each month upstream of Flare 1, Flare 3, and Flares 9, 10, and 11 (three samples per month). Non-detects were assumed to be 1/2 the method detection limit. "AP-42" means onsite test data were not available; therefore, a default inlet gas concentration was obtained from Table 2.4.1 of *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)* , Section 2.4, Municipal Solid Waste Landfills (EPA, August 2024). Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final_0.pdf.

[5] The destruction efficiency was assumed to be 98 percent for all compounds (per AQMD Rule 1150.1) except mercury and HCl. All mercury was assumed to be emitted and therefore the destruction efficiency was set to zero. HCl is a product of combustion; a default ionic clorine LFG concentration of 42 ppmv was used (Source: AP-42 Section 2.4, Page 2.4-9), and the destruction efficiency was set to zero.

[6] Emissions were calculated using Equation 4 of AP-42 Section 2.4 (EPA, 2024).

Table C-19

Proposed Peak Hour TAC Emissions of LFG Constituents

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Peak Hour LFG Inlet Flow (scfm) [2]							MW (lb/lb-mol)	Maximum Conc. in LFG (ppmv) [3]	LFG Conc. Source [4]	Destruction Efficiency [5]	Peak Hour Emissions (lb/hr) [6]						
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13					Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13
75343	1,1-Dichloroethane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	98.97	6.60E-02	Onsite Test	98%	8.61E-05	8.61E-05	1.03E-04	1.03E-04	1.03E-04	1.03E-04	1.03E-04
107131	Acrylonitrile	4,167	4,167	5,000	5,000	5,000	5,000	5,000	53.06	6.30E+00	AP-42	98%	4.41E-03	4.41E-03	5.29E-03	5.29E-03	5.29E-03	5.29E-03	5.29E-03
71432	Benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	78.12	5.37E+00	Onsite Test	98%	5.53E-03	5.53E-03	6.64E-03	6.64E-03	6.64E-03	6.64E-03	6.64E-03
100447	Benzyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	126.58	2.00E-02	Onsite Test	98%	3.34E-05	3.34E-05	4.01E-05	4.01E-05	4.01E-05	4.01E-05	4.01E-05
56235	Carbon tetrachloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	153.84	2.50E-02	Onsite Test	98%	5.07E-05	5.07E-05	6.08E-05	6.08E-05	6.08E-05	6.08E-05	6.08E-05
67663	Chloroform	4,167	4,167	5,000	5,000	5,000	5,000	5,000	119.39	1.50E-02	Onsite Test	98%	2.36E-05	2.36E-05	2.83E-05	2.83E-05	2.83E-05	2.83E-05	2.83E-05
106934	Ethylene dibromide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	187.88	1.50E-02	Onsite Test	98%	3.72E-05	3.72E-05	4.46E-05	4.46E-05	4.46E-05	4.46E-05	4.46E-05
107062	Ethylene dichloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	98.96	1.80E+00	Onsite Test	98%	2.35E-03	2.35E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03	2.82E-03
100414	Ethyl benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	106.16	4.60E+00	AP-42	98%	6.44E-03	6.44E-03	7.73E-03	7.73E-03	7.73E-03	7.73E-03	7.73E-03
75092	Methylene chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	84.94	1.30E+00	Onsite Test	98%	1.46E-03	1.46E-03	1.75E-03	1.75E-03	1.75E-03	1.75E-03	1.75E-03
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	147	4.84E-01	Onsite Test	98%	9.38E-04	9.38E-04	1.13E-03	1.13E-03	1.13E-03	1.13E-03	1.13E-03
127184	Perchloroethylene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	165.83	8.23E-01	Onsite Test	98%	1.80E-03	1.80E-03	2.16E-03	2.16E-03	2.16E-03	2.16E-03	2.16E-03
79345	Tetrachloroethane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	167.85	1.10E+00	AP-42	98%	2.43E-03	2.43E-03	2.92E-03	2.92E-03	2.92E-03	2.92E-03	2.92E-03
75014	Vinyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	62.5	2.07E-01	Onsite Test	98%	1.71E-04	1.71E-04	2.05E-04	2.05E-04	2.05E-04	2.05E-04	2.05E-04
71556	Methyl chloroform	4,167	4,167	5,000	5,000	5,000	5,000	5,000	133.41	8.67E-02	Onsite Test	98%	1.53E-04	1.53E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04	1.83E-04
75354	Vinylidene chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	96.94	2.00E-02	Onsite Test	98%	2.56E-05	2.56E-05	3.07E-05	3.07E-05	3.07E-05	3.07E-05	3.07E-05
67630	Isopropyl alcohol	4,167	4,167	5,000	5,000	5,000	5,000	5,000	60.11	5.00E+01	AP-42	98%	3.96E-02	3.96E-02	4.75E-02	4.75E-02	4.75E-02	4.75E-02	4.75E-02
108907	Chlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	112.56	1.87E-01	Onsite Test	98%	2.78E-04	2.78E-04	3.33E-04	3.33E-04	3.33E-04	3.33E-04	3.33E-04
75003	Ethyl chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	64.52	1.30E+00	AP-42	98%	1.11E-03	1.11E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03
110543	Hexane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	86.18	6.60E+00	AP-42	98%	7.50E-03	7.50E-03	9.00E-03	9.00E-03	9.00E-03	9.00E-03	9.00E-03
78933	Methyl ethyl ketone	4,167	4,167	5,000	5,000	5,000	5,000	5,000	72.11	7.10E+00	AP-42	98%	6.75E-03	6.75E-03	8.10E-03	8.10E-03	8.10E-03	8.10E-03	8.10E-03
108883	Toluene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	92.14	1.80E+01	Onsite Test	98%	2.19E-02	2.19E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02
79016	Trichloroethene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	131.4	3.34E-01	Onsite Test	98%	5.79E-04	5.79E-04	6.94E-04	6.94E-04	6.94E-04	6.94E-04	6.94E-04
1330207	Xylenes	4,167	4,167	5,000	5,000	5,000	5,000	5,000	106.16	1.33E+01	Onsite Test	98%	1.85E-02	1.85E-02	2.23E-02	2.23E-02	2.23E-02	2.23E-02	2.23E-02
7439976	Mercury	4,167	4,167	5,000	5,000	5,000	5,000	5,000	200.61	2.90E-04	AP-42	0%	3.84E-05	3.84E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05
7647010	Hydrogen chloride	4,167	4,167	5,000	5,000	5,000	5,000	5,000	36.5	4.20E+01	AP-42	0%	1.01E+00	1.01E+00	1.21E+00	1.21E+00	1.21E+00	1.21E+00	1.21E+00
75150	Carbon disulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	76.13	2.90E-01	Onsite Test	98%	2.91E-04	2.91E-04	3.49E-04	3.49E-04	3.49E-04	3.49E-04	3.49E-04
463581	Carbonyl sulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	60.07	4.00E-01	Onsite Test	98%	3.17E-04	3.17E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04	3.80E-04
7783064	Hydrogen sulfide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	34.08	1.89E+02	Onsite Test	98%	8.49E-02	8.49E-02	1.02E-01	1.02E-01	1.02E-01	1.02E-01	1.02E-01

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The proposed peak hour LFG inlet flow is equal to the rated capacity of each flare.

[3] When onsite test data were available (see Note 4), the LFG concentration used for the acute hazard index was the highest sample result of any LFG stream in any month in the 12-month sampling period.

[4] "Onsite Test" means the inlet gas concentration was obtained from the most recent 12-month period of onsite LFG sampling (May 2023 - April 2024). Samples were taken each month upstream of Flare 1, Flare 3, and Flares 9, 10, and 11 (three samples per month). Non-detects were assumed to be 1/2 the method detection limit. "AP-42" means onsite test data were not available; therefore, a default inlet gas concentration was obtained from Table 2.4.1 of *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)* , Section 2.4, Municipal Solid Waste Landfills (EPA, August 2024). Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final_0.pdf.

[5] The destruction efficiency was assumed to be 98 percent for all compounds (per AQMD Rule 1150.1) except mercury and HCl. All mercury was assumed to be emitted and therefore the destruction efficiency was set to zero. HCl is a product of combustion; a default ionic clorine LFG concentration of 42 ppmv was used (Source: AP-42 Section 2.4, Page 2.4-9), and the destruction efficiency was set to zero.

[6] Emissions were calculated using Equation 4 of AP-42 Section 2.4 (EPA, 2024).

Table C-20
Proposed Annual TAC Emissions of Combustion Products

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Annual Average LFG Inlet Flow (scfm) [2]							LFG CH4 Content [3]	Emission Factor ($lb/10^6$ scf) [4]	Annual Emissions (lb/yr)						
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13			Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13
56495	3-Methylcholanthrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
57976	7,12-Dimethylbenz(a) anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	8.00E-06	8.76E-03	8.76E-03	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02
56553	Benz(a)anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
71432	Benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	2.10E-03	2.30E+00	2.30E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
50328	Benzo(a)pyrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.00E-07	6.57E-04	6.57E-04	7.88E-04	7.88E-04	7.88E-04	7.88E-04	7.88E-04
205992	Benzo(b)fluoranthene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
207089	Benzo(k)fluoranthene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
218019	Chrysene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
53703	Dibenzo(a,h)anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.00E-07	6.57E-04	6.57E-04	7.88E-04	7.88E-04	7.88E-04	7.88E-04	7.88E-04
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	1.20E-03	1.31E+00	1.31E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00
50000	Formaldehyde	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	7.50E-02	8.21E+01	8.21E+01	9.86E+01	9.86E+01	9.86E+01	9.86E+01	9.86E+01
110543	Hexane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	1.80E+00	1.97E+03	1.97E+03	2.37E+03	2.37E+03	2.37E+03	2.37E+03	2.37E+03
193395	Indeno(1,2,3-cd)pyrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	9.86E-04	9.86E-04	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
91203	Naphthalene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.10E-04	6.68E-01	6.68E-01	8.02E-01	8.02E-01	8.02E-01	8.02E-01	8.02E-01
108883	Toluene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	3.40E-03	3.72E+00	3.72E+00	4.47E+00	4.47E+00	4.47E+00	4.47E+00	4.47E+00
10102440	Nitrogen dioxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	6.35E+04	5.26E+04	3.33E+04	3.33E+04	3.33E+04	3.33E+04	3.33E+04
7446095	Sulfur dioxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	3.91E+04	3.33E+04	6.66E+04	6.66E+04	6.66E+04	3.77E+04	3.77E+04
630080	Carbon monoxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	3.80E+04	3.59E+04	7.99E+04	7.99E+04	7.99E+04	7.99E+04	7.99E+04

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The proposed annual average LFG inlet flow is equal to the rated capacity of each flare.

[3] Source: U.S. EPA. Basic Information about Landfill Gas. September 20, 2024. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.

[4] Source: AP-42 Section 1.4, Table 1.4-3 (July 1998). Emission factors based on the method detection limit (MDL) are listed at 1/2 the MDL.

[5] Criteria pollutant emissions were obtained from Table C-7 and multiplied by 365 days/year. The emissions reflect the most restrictive current Title V limit for each pollutant.

Table C-21

Proposed Peak Hour TAC Emissions of Combustion Products

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Peak Hour LFG Inlet Flow (scfm) [2]							LFG CH4 Content [3]	Emission Factor ($lb/10^6$ scf) [4]	Peak Hour Emissions (lb/hr)						
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13			Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13
56495	3-Methylcholanthrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
57976	7,12-Dimethylbenz(a) anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	8.00E-06	1.00E-06	1.00E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06
56553	Benz(a)anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
71432	Benzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	2.10E-03	2.63E-04	2.63E-04	3.15E-04	3.15E-04	3.15E-04	3.15E-04	3.15E-04
50328	Benzo(a)pyrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.00E-07	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08	9.00E-08	9.00E-08
205992	Benzo(b)fluoranthene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
207089	Benzo(k)fluoranthene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
218019	Chrysene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
53703	Dibenzo(a,h)anthracene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.00E-07	7.50E-08	7.50E-08	9.00E-08	9.00E-08	9.00E-08	9.00E-08	9.00E-08
106467	p-Dichlorobenzene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	1.20E-03	1.50E-04	1.50E-04	1.80E-04	1.80E-04	1.80E-04	1.80E-04	1.80E-04
50000	Formaldehyde	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	7.50E-02	9.38E-03	9.38E-03	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02
110543	Hexane	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	1.80E+00	2.25E-01	2.25E-01	2.70E-01	2.70E-01	2.70E-01	2.70E-01	2.70E-01
193395	Indeno(1,2,3-cd)pyrene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	9.00E-07	1.13E-07	1.13E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07	1.35E-07
91203	Naphthalene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	6.10E-04	7.63E-05	7.63E-05	9.15E-05	9.15E-05	9.15E-05	9.15E-05	9.15E-05
108883	Toluene	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	3.40E-03	4.25E-04	4.25E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04	5.10E-04
10102440	Nitrogen dioxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	7.25E+00	6.00E+00	3.80E+00	3.80E+00	3.80E+00	3.80E+00	3.80E+00
7446095	Sulfur dioxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	4.46E+00	3.80E+00	7.60E+00	7.60E+00	7.60E+00	4.31E+00	4.31E+00
630080	Carbon monoxide	4,167	4,167	5,000	5,000	5,000	5,000	5,000	50%	n/a [5]	4.33E+00	4.10E+00	9.12E+00	9.12E+00	9.12E+00	9.12E+00	9.12E+00

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] The proposed peak hour LFG inlet flow is equal to the rated capacity of each flare.

[3] Source: U.S. EPA. Basic Information about Landfill Gas. September 20, 2024. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024. Consistent with AQMD draft emission calculations for the Flare 12 permit conditions.

[4] Source: AP-42 Section 1.4, Table 1.4-3 (July 1998). Emission factors based on the method detection limit (MDL) are listed at 1/2 the MDL.

[5] Criteria pollutant emissions were obtained from Table C-6.

Table C-22
Proposed Change in Annual TAC Emissions (CEQA Increment)

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Change in Annual Emissions (lb/yr) [2]								Origin [3]
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13	Total	
107131	Acrylonitrile	1.20E+01	1.20E+01	1.44E+01	1.44E+01	1.44E+01	4.63E+01	4.63E+01	1.60E+02	LFG
56553	Benz(a)anthracene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
71432	Benzene	6.74E+00	6.74E+00	8.09E+00	8.09E+00	8.09E+00	2.61E+01	2.61E+01	8.99E+01	Both
50328	Benzo(a)pyrene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03	Cmb
205992	Benzo(b)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
207089	Benzo(k)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
100447	Benzyl chloride	9.07E-02	9.07E-02	1.09E-01	1.09E-01	1.09E-01	3.51E-01	3.51E-01	1.21E+00	LFG
75150	Carbon disulfide	4.43E-01	4.43E-01	5.31E-01	5.31E-01	5.31E-01	1.71E+00	1.71E+00	5.91E+00	LFG
630080	Carbon monoxide	1.50E+04	1.42E+04	3.15E+04	3.15E+04	3.15E+04	7.99E+04	7.99E+04	2.84E+05	Cmb
56235	Carbon tetrachloride	1.38E-01	1.38E-01	1.65E-01	1.65E-01	1.65E-01	5.33E-01	5.33E-01	1.84E+00	LFG
463581	Carbonyl sulfide	6.45E-01	6.45E-01	7.74E-01	7.74E-01	7.74E-01	2.50E+00	2.50E+00	8.61E+00	LFG
108907	Chlorobenzene	3.60E-01	3.60E-01	4.32E-01	4.32E-01	4.32E-01	1.39E+00	1.39E+00	4.80E+00	LFG
67663	Chloroform	6.41E-02	6.41E-02	7.69E-02	7.69E-02	7.69E-02	2.48E-01	2.48E-01	8.55E-01	LFG
218019	Chrysene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
53703	Dibenzo(a,h)anthracene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03	Cmb
75343	1,1-Dichloroethane	8.45E-02	8.45E-02	1.01E-01	1.01E-01	1.01E-01	3.27E-01	3.27E-01	1.13E+00	LFG
57976	7,12-Dimethylbenz(a) anthracene	2.72E-03	2.72E-03	3.26E-03	3.26E-03	3.26E-03	1.05E-02	1.05E-02	3.62E-02	Cmb
100414	Ethyl benzene	1.75E+01	1.75E+01	2.10E+01	2.10E+01	2.10E+01	6.77E+01	6.77E+01	2.33E+02	LFG
75003	Ethyl chloride	3.00E+00	3.00E+00	3.60E+00	3.60E+00	3.60E+00	1.16E+01	1.16E+01	4.01E+01	LFG
106934	Ethylene dibromide	1.01E-01	1.01E-01	1.21E-01	1.21E-01	1.21E-01	3.91E-01	3.91E-01	1.35E+00	LFG
107062	Ethylene dichloride	3.30E+00	3.30E+00	3.96E+00	3.96E+00	3.96E+00	1.28E+01	1.28E+01	4.41E+01	LFG
50000	Formaldehyde	2.55E+01	2.55E+01	3.06E+01	3.06E+01	3.06E+01	9.86E+01	9.86E+01	3.40E+02	Cmb
110543	Hexane	6.32E+02	6.32E+02	7.58E+02	7.58E+02	7.58E+02	2.44E+03	2.44E+03	8.42E+03	Both
7647010	Hydrogen chloride	2.74E+03	2.74E+03	3.29E+03	3.29E+03	3.29E+03	1.06E+04	1.06E+04	3.66E+04	Cmb
7783064	Hydrogen sulfide	2.06E+02	2.06E+02	2.47E+02	2.47E+02	2.47E+02	7.98E+02	7.98E+02	2.75E+03	LFG
193395	Indeno(1,2,3-cd)pyrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
67630	Isopropyl alcohol	1.08E+02	1.08E+02	1.29E+02	1.29E+02	1.29E+02	4.17E+02	4.17E+02	1.44E+03	LFG
7439976	Mercury	1.04E-01	1.04E-01	1.25E-01	1.25E-01	1.25E-01	4.03E-01	4.03E-01	1.39E+00	LFG
71556	Methyl chloroform	1.00E-01	1.00E-01	1.20E-01	1.20E-01	1.20E-01	3.88E-01	3.88E-01	1.34E+00	LFG
78933	Methyl ethyl ketone	1.83E+01	1.83E+01	2.20E+01	2.20E+01	2.20E+01	7.10E+01	7.10E+01	2.45E+02	LFG
56495	3-Methylcholanthrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03	Cmb
75092	Methylene chloride	1.92E+00	1.92E+00	2.30E+00	2.30E+00	2.30E+00	7.42E+00	7.42E+00	2.56E+01	LFG
91203	Naphthalene	2.07E-01	2.07E-01	2.48E-01	2.48E-01	2.48E-01	8.02E-01	8.02E-01	2.76E+00	Cmb
10102440	Nitrogen dioxide	1.97E+04	1.63E+04	1.03E+04	1.03E+04	1.03E+04	3.33E+04	3.33E+04	1.34E+05	Cmb
106467	p-Dichlorobenzene	1.38E+00	1.38E+00	1.66E+00	1.66E+00	1.66E+00	5.35E+00	5.35E+00	1.84E+01	Both
127184	Perchloroethylene	2.15E+00	2.15E+00	2.58E+00	2.58E+00	2.58E+00	8.33E+00	8.33E+00	2.87E+01	LFG
7446095	Sulfur dioxide	1.21E+04	1.03E+04	2.06E+04	2.06E+04	2.06E+04	3.77E+04	3.77E+04	1.60E+05	Cmb
79345	Tetrachloroethane	6.61E+00	6.61E+00	7.93E+00	7.93E+00	7.93E+00	2.56E+01	2.56E+01	8.82E+01	LFG
108883	Toluene	2.95E+01	2.95E+01	3.54E+01	3.54E+01	3.54E+01	1.14E+02	1.14E+02	3.93E+02	Both
79016	Trichloroethene	8.73E-01	8.73E-01	1.05E+00	1.05E+00	1.05E+00	3.38E+00	3.38E+00	1.16E+01	LFG
75014	Vinyl chloride	1.96E-01	1.96E-01	2.35E-01	2.35E-01	2.35E-01	7.59E-01	7.59E-01	2.62E+00	LFG
75354	Vinylidene chloride	6.94E-02	6.94E-02	8.33E-02	8.33E-02	8.33E-02	2.69E-01	2.69E-01	9.26E-01	LFG
1330207	Xylenes	2.23E+01	2.23E+01	2.68E+01	2.68E+01	2.68E+01	8.64E+01	8.64E+01	2.98E+02	LFG

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] Emissions equal proposed emissions (sum of Tables C-18 and C-20) minus baseline emissions (sum of Tables C-14 and C-16).

[3] Cmb = combustion product; LFG = LFG constituent; Both = combustion product and LFG constituent.

Table C-23
Proposed Change in Peak Hour TAC Emissions (CEQA Increment)

HARP2 Pollutant ID	Toxic Air Contaminant [1]	Change in Peak Hour Emissions (lb/hr) [2]								Origin [3]
		Flare 1	Flare 3	Flare 9	Flare 10	Flare 11	Flare 12	Flare 13	Total	
107131	Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03	5.29E-03	1.06E-02	LFG
56553	Benz(a)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
71432	Benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-03	6.95E-03	1.39E-02	Both
50328	Benzo(a)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-08	9.00E-08	1.80E-07	Cmb
205992	Benzo(b)fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
207089	Benzo(k)fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
100447	Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	4.01E-05	8.01E-05	LFG
75150	Carbon disulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	3.49E-04	6.99E-04	LFG
630080	Carbon monoxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E+00	9.12E+00	1.82E+01	Cmb
56235	Carbon tetrachloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	6.08E-05	1.22E-04	LFG
463581	Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	3.80E-04	7.60E-04	LFG
108907	Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	3.33E-04	6.66E-04	LFG
67663	Chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	2.83E-05	5.67E-05	LFG
218019	Chrysene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
53703	Dibenzo(a,h)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-08	9.00E-08	1.80E-07	Cmb
75343	1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	1.03E-04	2.07E-04	LFG
57976	7,12-Dimethylbenz(a) anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06	1.20E-06	2.40E-06	Cmb
100414	Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-03	7.73E-03	1.55E-02	LFG
75003	Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	1.33E-03	2.65E-03	LFG
106934	Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	4.46E-05	8.92E-05	LFG
107062	Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	2.82E-03	5.64E-03	LFG
50000	Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	1.13E-02	2.25E-02	Cmb
110543	Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-01	2.79E-01	5.58E-01	Both
7647010	Hydrogen chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+00	1.21E+00	2.43E+00	Cmb
7783064	Hydrogen sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-01	1.02E-01	2.04E-01	LFG
193395	Indeno(1,2,3-cd)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
67630	Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-02	4.75E-02	9.51E-02	LFG
7439976	Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	4.60E-05	9.20E-05	LFG
71556	Methyl chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	1.83E-04	3.66E-04	LFG
78933	Methyl ethyl ketone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03	8.10E-03	1.62E-02	LFG
56495	3-Methylcholanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07	Cmb
75092	Methylene chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	1.75E-03	3.49E-03	LFG
91203	Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	9.15E-05	1.83E-04	Cmb
10102440	Nitrogen dioxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E+00	3.80E+00	7.60E+00	Cmb
106467	p-Dichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	1.31E-03	2.61E-03	Both
127184	Perchloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	2.16E-03	4.32E-03	LFG
7446095	Sulfur dioxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E+00	4.31E+00	8.62E+00	Cmb
79345	Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	2.92E-03	5.84E-03	LFG
108883	Toluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-02	2.67E-02	5.35E-02	Both
79016	Trichloroethene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	6.94E-04	1.39E-03	LFG
75014	Vinyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	2.05E-04	4.09E-04	LFG
75354	Vinylidene chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	3.07E-05	6.13E-05	LFG
1330207	Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-02	2.23E-02	4.45E-02	LFG

Notes:

[1] This table includes all applicable compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, October 6, 2023). Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable10062023.pdf. The OEHHA/ARB list is more comprehensive than the AQMD Rule 1401 compound list.

[2] Emissions equal proposed emissions (sum of Tables C-19 and C-21) minus baseline emissions (sum of Tables C-15 and C-17).

[3] Cmb = combustion product; LFG = LFG constituent; Both = combustion product and LFG constituent.

Table C-24
AERMOD Source Parameters

Source ID	Stack Release Type	FLAT (Non-Default)	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (ft)	Temperature (°F)	Exit Velocity (ft/sec)	Stack Diameter (ft)
FLARE1	DEFAULT			360942	3798660	565.38	50	1,600	24.9	12.6
FLARE3	DEFAULT			359516	3799162	679.17	50	1,600	24.9	12.6
FLARE9	DEFAULT			360237	3800322	579.12	50	1,600	34.6	12.6
FLARE10	DEFAULT			360255	3800350	579.12	50	1,600	34.6	12.6
FLARE11	DEFAULT			360219	3800333	579.12	50	1,600	34.6	12.6
FLARE12	DEFAULT			360228	3800367	579.12	70	1,600	34.6	12.6
FLARE13	DEFAULT			360195	3800354	579.12	70	1,600	34.6	12.6

Note: Temperature, exit velocity, and inside diameter for Flares 12 and 13 were assumed to be the same as Flares 9, 10, and 11.

Table C-25
CEQA Baseline Criteria Pollutant Emissions for Dispersion Modeling

Source ID	1Hr NOx (lb/hr)	1Hr SOx (lb/hr)	1Hr CO (lb/hr)	1Hr H2S (lb/hr)	8Hr CO (lb/8-hr)	24Hr PM10 (lb/day)	24Hr PM2.5 (lb/day)	24Hr SOx (lb/day)	Ann NOx (lb/yr)	Ann PM10 (lb/yr)	Ann PM2.5 (lb/yr)
FLARE1	7.25	4.46	4.33	0.085	34.7	28.3	28.3	73.8	43,837	10,330	10,330
FLARE3	6.00	3.80	4.10	0.085	32.8	26.5	26.5	62.9	36,281	9,673	9,673
FLARE9	3.80	7.60	9.12	0.102	73.0	24.8	24.8	125.9	22,959	9,052	9,052
FLARE10	3.80	7.60	9.12	0.102	73.0	24.8	24.8	125.9	22,959	9,052	9,052
FLARE11	3.80	7.60	9.12	0.102	73.0	24.8	24.8	125.9	22,959	9,052	9,052
Total	**24.65**	**31.06**	**35.79**	**0.476**	**286.3**	**129.2**	**129.2**	**514.4**	**148,993**	**47,158**	**47,158**

Notes:
[1] Baseline 1-hour and 8-hour emissions reflect the existing flares operating at their rated LFG input capacities, which are 4,167 scfm for Flares 1 and 3, and 5,000 scfm for Flares 9, 10, and 11. Source: Table C-1.
[2] Baseline 24-hour and annual emissions reflect the existing flares operating at their most restrictive current Title V permit limits, which are the site-wide limit of 520 lb/day for CO and the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4) for all other pollutants. Source: Table C-5.

Table C-26
Proposed Project Criteria Pollutant Emissions for Dispersion Modeling

Source ID	1Hr NOx (lb/hr)	1Hr SOx (lb/hr)	1Hr CO (lb/hr)	1Hr H2S (lb/hr)	8Hr CO (lb/8-hr)	24Hr PM10 (lb/day)	24Hr PM2.5 (lb/day)	24Hr SOx (lb/day)	Ann NOx (lb/yr)	Ann PM10 (lb/yr)	Ann PM2.5 (lb/yr)
FLARE1	7.25	4.46	4.33	0.085	34.7	41.0	41.0	107.0	63,510	14,965	14,965
FLARE3	6.00	3.80	4.10	0.085	32.8	38.4	38.4	91.2	52,560	14,016	14,016
FLARE9	3.80	7.60	9.12	0.102	73.0	36.0	36.0	182.4	33,288	13,140	13,140
FLARE10	3.80	7.60	9.12	0.102	73.0	36.0	36.0	182.4	33,288	13,140	13,140
FLARE11	3.80	7.60	9.12	0.102	73.0	36.0	36.0	182.4	33,288	13,140	13,140
FLARE12	3.80	4.31	9.12	0.102	73.0	36.0	36.0	103.4	33,288	13,140	13,140
FLARE13	3.80	4.31	9.12	0.102	73.0	36.0	36.0	103.4	33,288	13,140	13,140
Total	**32.25**	**39.68**	**54.03**	**0.679**	**432.3**	**259.4**	**259.4**	**952.2**	**282,510**	**94,681**	**94,681**

Note: Proposed project criteria pollutant emissions reflect the existing flares and proposed new flares operating at their LFG combustion rated capacities, which total 33,334 scfm (at 50% CH4). Source: Tables C-6 and C-7.

Table C-27

Criteria Pollutant Emission Increments for Dispersion Modeling

Source ID	1Hr NOx (lb/hr)	1Hr SOx (lb/hr)	1Hr CO (lb/hr)	1Hr H2S (lb/hr)	8Hr CO (lb/8-hr)	24Hr PM10 (lb/day)	24Hr PM2.5 (lb/day)	24Hr SOx (lb/day)	Ann NOx (lb/yr)	Ann PM10 (lb/yr)	Ann PM2.5 (lb/yr)
FLARE1	0.00	0.00	0.00	0.000	0.0	12.7	12.7	33.2	19,674	4,636	4,636
FLARE3	0.00	0.00	0.00	0.000	0.0	11.9	11.9	28.3	16,279	4,344	4,344
FLARE9	0.00	0.00	0.00	0.000	0.0	11.2	11.2	56.5	10,330	4,088	4,088
FLARE10	0.00	0.00	0.00	0.000	0.0	11.2	11.2	56.5	10,330	4,088	4,088
FLARE11	0.00	0.00	0.00	0.000	0.0	11.2	11.2	56.5	10,330	4,088	4,088
FLARE12	3.80	4.31	9.12	0.102	73.0	36.0	36.0	103.4	33,288	13,140	13,140
FLARE13	3.80	4.31	9.12	0.102	73.0	36.0	36.0	103.4	33,288	13,140	13,140
Total	**7.60**	**8.62**	**18.24**	**0.204**	**145.9**	**130.2**	**130.2**	**437.8**	**133,517**	**47,523**	**47,523**

Note: The CEQA increment equals the proposed project emissions minus CEQA baseline emissions.

Table C-28

Criteria Pollutant Emission Increments Modeled in AERMOD (g/s)

Source ID	1Hr NOx (g/s)	1Hr SOx (g/s)	1Hr CO (g/s)	1Hr H2S (g/s)	8Hr CO (g/s)	24Hr PM10 (g/s)	24Hr PM2.5 (g/s)	24Hr SOx (g/s)	Ann NOx (g/s)	Ann PM10 (g/s)	Ann PM2.5 (g/s)
FLARE1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.667E-02	6.667E-02	1.743E-01	2.830E-01	6.667E-02	6.667E-02
FLARE3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.247E-02	6.247E-02	1.486E-01	2.341E-01	6.247E-02	6.247E-02
FLARE9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.880E-02	5.880E-02	2.966E-01	1.486E-01	5.880E-02	5.880E-02
FLARE10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.880E-02	5.880E-02	2.966E-01	1.486E-01	5.880E-02	5.880E-02
FLARE11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.880E-02	5.880E-02	2.966E-01	1.486E-01	5.880E-02	5.880E-02
FLARE12	4.788E-01	5.430E-01	1.149E+00	1.284E-02	1.149E+00	1.890E-01	1.890E-01	5.428E-01	4.788E-01	1.890E-01	1.890E-01
FLARE13	4.788E-01	5.430E-01	1.149E+00	1.284E-02	1.149E+00	1.890E-01	1.890E-01	5.428E-01	4.788E-01	1.890E-01	1.890E-01

Table C-29
Ambient Air Quality Standards and Attainment Status

Pollutant	Averaging Period	CAAQS (ug/m3) [1]	NAAQS (ug/m3) [2]	Significant Change Threshold (ug/m3) [3,11]	CAAQS Attainment Status [10,11]	NAAQS Attainment Status [10,11]
PM10	24-Hour	50	150 [4]	2.5	Nonattainment	Attainment
	Annual	20	None	1	Nonattainment	-- [12]
PM2.5	24-Hour	None	35 [5]	2.5	-- [12]	Nonattainment
	Annual	12	9 [6]	1	Nonattainment	Nonattainment
CO	1-Hour	23,000	40,000 [7]	1,100	Attainment	Attainment
	8-Hour	10,000	10,000 [7]	500	Attainment	Attainment
NO2	1-Hour	339	188 [8]	20	Attainment	Attainment
	Annual	57	100	1	Attainment	Attainment
SO2	1-Hour	655	196 [9]	None	Attainment	Attainment
	24-Hour	105	None	None	Attainment	-- [12]
H2S	1-Hour	42	None	None	Unclassified [13]	-- [12]

Notes:

[1] Source: CARB. California Ambient Air Quality Standards. July 16, 2024. Available: https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf.

[2] Source: EPA. NAAQS Table. February 7, 2024. Primary standards. Available: https://www.epa.gov/criteria-air-pollutants/naaqs-table.

[3] Source: South Coast AQMD. Rule 1303 (New Source Review Requirements). Table A-2. Note that the South Coast AQMD also uses the PM10 values for PM2.5. December 6, 2002. Available: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiii/rule-1303-requirements.pdf?sfvrsn=4.

[4] Not to be exceeded more than once per year on average over 3 years.

[5] 98th percentile, averaged over 3 years.

[6] Annual mean, averaged over three years.

[7] Not to be exceeded more than once per year.

[8] 98th percentile of 1-hour daily maximum concentrations, averaged over 3 years.

[9] 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years.

[10] Source: South Coast AQMD. 2022 Air Quality Management Plan. December 2, 2022. Chapter 2, Tables 2-3 (NAAQS) and 2-5 (CAAQS). Available: https://www.aqmd.gov/home/air-quality/air-quality-management-plans/air-quality-mgt-plan.

[11] For an attainment designation, the modeled project concentration is added to the background concentration and compared to the corresponding AAQS. For a nonattainment designation, the modeled project concentration is compared to the significant change threshold without adding background.

[12] No AAQS exists.

[13] The air basin may be nonattainment in the Coachella Valley due to odor issues related to the Salton Sea; therefore, the project area was treated as attainment for this modeling analysis.

Table C-30
Background Concentrations for Attainment Criteria Pollutants

Pollutant	Averaging Period	Unit of Measure	Monitored Concentration [1,2]			Background Concentration [7]	
			2021	2022	2023	(Unit of Measure)	(µg/m^3) [10]
NO2	1-Hour CAAQS	ppb	56.9	51.5	40.4	56.9	107
	1-Hour NAAQS	ppb	35.2 [3]	33.3 [3]	30.2 [3]	32.9 [8]	62
	Annual	ppb	9.9	9.1	8.4	9.9	19
PM10	24-Hour	ug/m3	47	36	41	47	47
SO2	1-Hour CAAQS	ppb	2.2 [4]	6.5 [4]	7.7 [4]	7.7	20
	1-Hour NAAQS	ppb	2.0 [4,5]	2.3 [4,5]	2.0 [4,5]	2.1 [9]	5.5
	24-Hour	ppb	1.2 [4,6]	1.2 [4,6]	2.3 [4,6]	2.3	6.0
CO	1-Hour	ppm	1.0	1.5	1.1	1.5	1,722
	8-Hour	ppm	0.7	0.6	0.6	0.7	804
H2S	1-Hour	ppb	Not Available	Not Available	Not Available	Not Available	Not Available

Legend: "Not Available" means the pollutant is not monitored in the air basin.
Source: SCAQMD, 2024. Historical Data by Year. 2021, 2022, and 2023 Air Quality Data Tables. Available: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year. Accessed June 16, 2024.
Notes:
[1] Flares 3, 9, 10, 11, 12, and 13 are/would be located in Source-Receptor Area (SRA) 13 (Santa Clarita Valley). Flare 1 is located in SRA 6 (West San Fernando Valley). The maximum criteria pollutant impact areas would be in SRA 13. Therefore, monitoring data from SRA 13 were used for background concentrations unless otherwise noted.
[2] Each displayed concentration is the highest monitored concentration in the indicated year unless otherwise noted.
[3] 98th percentile of 1-hour daily maximum concentrations; used for the NAAQS background concentration.
[4] SO2 was not monitored in SRA 13; therefore, the displayed concentration was obtained from the nearest station that monitors SO2: SRA 1 (Central LA).
[5] 99th percentile of 1-hour daily maximum concentrations; used for the NAAQS background concentration.
[6] 24-hour SO2 concentrations were obtained from the following source: EPA, Interactive Map of Air Quality Monitors. Daily Data Download. SO2 - Active: Los Angeles-North Main Street. Available: https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors. Accessed 6/18/2024.
[7] The background concentration is the highest of the three years unless otherwise noted.
[8] For the 1-hour NAAQS, the background NO2 concentration is the 3-year average of the annual 98th percentile of 1-hour daily maximum concentrations.
[9] For the 1-hour NAAQS, the background SO2 concentration is the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations.
[10] The concentration in micrograms per cubic meter (ug/m3) is calculated as follows: ug/m3 = ppm x MW / 0.0244. The molecular weights (MW) are 28.01 for CO, 46.0055 for NO2, and 64.066 for SO2.

Table C-31
Dispersion Modeling Results for Attainment Criteria Pollutants

Pollutant	Averaging Period	AERMOD Project Increment (ug/m3) [1]	Background Concentration (ug/m3)	Total Concentration (ug/m3)	AAQS (ug/m3) [2]	Exceedance?	UTM E (m)	UTM N (m)
NO2	1-Hour CAAQS	3.5	107	110.5	339	No	360173	3800689
	1-Hour NAAQS	3.5	62	65.5	188	No	360173	3800689
	Annual	0.3	19	19.3	57	No	359930	3800691
PM10	24-Hour NAAQS [3]	0.9	47	47.9	150	No	360865	3798554
SO2	1-Hour CAAQS	4.5	20	24.5	655	No	360173	3800689
	1-Hour NAAQS	4.5	5.5	10.0	196	No	360173	3800689
	24-Hour	2.3	6.0	8.3	105	No	360173	3800689
CO	1-Hour	9.5	1,722	1,731.5	23,000	No	360173	3800689
	8-Hour	5.9	804	809.9	10,000	No	360173	3800689
H2S	1-Hour	0.1	Not Available	0.1	42	No	360173	3800689

[1] Each concentration is the highest modeled project increment concentration over five years of meteorological data at any receptor on or outside the facility property line.
[2] The displayed AAQS is the most stringent of the CAAQS and NAAQS unless specifically indicated under Averaging Period.
[3] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment and nonattainment pollutant.

Table C-32
Dispersion Modeling Results for Nonattainment Criteria Pollutants

Pollutant	Averaging Period	AERMOD Project Increment (ug/m3) [1]	Significant Change Threshold (ug/m3)	Exceedance?	UTM E (m)	UTM N (m)
PM10	24-Hour [2]	0.9	2.5	No	360865	3798554
	Annual	0.1	1	No	359930	3800691
PM2.5	24-Hour	0.9	2.5	No	360865	3798554
	Annual	0.1	1	No	359930	3800691

[1] Each concentration is the highest modeled project increment concentration over five years of meteorological data at any receptor on or outside the facility property line.
[2] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment and nonattainment pollutant.

Table C-33
Health Risk Assessment Results

Health Value	Receptor Type	Maximum Project Increment	Significance Threshold [1]	Exceedance?	UTM E (m)	UTM N (m)
Individual Cancer Risk	Resident	1.1E-07	1.0E-05	No	359100	3801300
Individual Cancer Risk	Worker	1.4E-08	1.0E-05	No	359950	3801050
Chronic Hazard Index	Resident	0.002	1.0	No	359100	3801300
Chronic Hazard Index	Worker	0.005	1.0	No	359950	3801050
Acute Hazard Index	Resident	0.003	1.0	No	359100	3801200
Acute Hazard Index	Worker	0.02	1.0	No	360173	3800689

[1] Source: SCAQMD, 2023. South Coast AQMD Air Quality Significance Thresholds. March. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25.

APPENDIX D

Construction Emission Calculations

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CalEEMod Output File for Construction Emissions

Table D-1

Mean Construction Vehicle Weight on SCL Access Road

Construction Phase	Peak Day One-Way Trips		Average Worker Vehicle Weight (tons) [1]	Average Truck Weight (tons) [2,3]			Mean Vehicle Weight (tons)
	Workers	Trucks		Empty	Loaded	Average	
Trenching	24	0	2	n/a	n/a	n/a	2
Concrete Pour	24	24	2	13	33	23	12.5
Flare and Blower Construction	24	20	2	17.5	40	28.75	14.2

[1] Source: AP-42 Section 13.2.2 (Unpaved Roads). November, 2006. Page 13.2.2-6. Website: https://www.epa.gov/sites/default/files/2020-10/documents/13.2.2_unpaved_roads.pdf. Accessed December 2024.

[2] Source for semi truck (Flare and Blower Construction): OnSite Truck & Equipment Repair. https://www.onsitetruckaz.com/post/how-much-does-a-semi-truck-weigh-ultimate-guide-2022. Accessed December 2024.

[3] Source for concrete truck (Concrete Pour): Texas Aggregates and Concrete Association. https://www.tx-taca.org/files/Concrete-and-cement-faq.pdf. Accessed December 2024.

Table D-2

Unpaved Road Dust Emission Factors

Construction Phase	Equation Constant, k (lb/VMT) [1]		Surface Material Silt Content, s (%) [2]	Mean Vehicle Weight, W (tons)	Dust Control Reduction (%) [3]	Controlled Emission Factor (lb/VMT) [4]	
	PM10	PM2.5				PM10	PM2.5
Trenching	1.5	0.15	6.4	2	55	0.319	0.032
Concrete Pour	1.5	0.15	6.4	12.5	55	0.729	0.073
Flare and Blower Construction	1.5	0.15	6.4	14.2	55	0.771	0.077

[1] Source: AP-42 Section 13.2.2. Table 13.2.2-2. Industrial Roads (Equation 1a).

[2] Source: AP-42 Section 13.2.2. Table 13.2.2-1. Municipal solid waste landfills. Mean silt content.

[3] Source: CalEEMod Version 2022.1.1.29. Assumes twice-daily watering of unpaved roads.

[4] Uncontrolled Emission Factor = $k(s/12)^{0.9}(W/3)^{0.45}$. Source: AP-42 Section 13.2.2. Equation 1a. The uncontrolled emission factor was multiplied by [1-dust control reduction %] to obtain the controlled emission factor.

Table D-3

Peak Day Unpaved Access Road Dust Emissions During Construction

Construction Phase	Peak Day One-Way Trips (trips/day)			Unpaved Trip Distance (mi/trip)	Peak Day Unpaved VMT (VMT/day)	Controlled Emission Factor (lb/VMT)		Peak Day Unpaved Road Dust Emissions (lb/day)	
	Workers	Trucks	Total [1]			PM10	PM2.5	PM10	PM2.5
Trenching	24	0	24	0.85	20.5	0.319	0.032	6.5	0.7
Concrete Pour	24	24	48	0.85	40.9	0.729	0.073	29.8	3.0
Flare and Blower Construction	24	20	44	0.85	37.5	0.771	0.077	28.9	2.9

[1] AP-42 Section 13.2.2. Equation 1a applies to the combined vehicle mix using the road, not to individual vehicle categories.

Table D-4

Peak Day Construction Emissions During Trenching Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Dust from Material Movement	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	0.00E+00	4.23E-04	4.23E-04
Worker Vehicles	1.21E-01	1.08E-01	1.19E-01	1.92E+00	0.00E+00	0.00E+00	3.66E-01	3.66E-01	0.00E+00	8.59E-02	8.59E-02
Unpaved Access Road Dust	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E+00	6.53E+00	0.00E+00	6.53E-01	6.53E-01
Total	**1.16E+00**	**9.77E-01**	**8.17E+00**	**1.25E+01**	**1.99E-02**	**3.28E-01**	**6.90E+00**	**7.23E+00**	**3.02E-01**	**7.40E-01**	**1.04E+00**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29 except Unpaved Access Road Dust, which was calculated manually using AP-42 Section 13.2.2.

Table D-5

Peak Day Onsite Construction Emissions During Trenching Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Dust from Material Movement	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	2.80E-03	0.00E+00	4.23E-04	4.23E-04
Worker Vehicles	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total	**1.04E+00**	**8.69E-01**	**8.05E+00**	**1.06E+01**	**1.99E-02**	**3.28E-01**	**2.80E-03**	**3.31E-01**	**3.02E-01**	**4.23E-04**	**3.02E-01**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-6

Total Construction GHG Emissions During Trenching Phase (MT)

Source [1]	CO_2T	CH_4	N_2O	R	CO_2e
Construction Equipment	1.91E+00	7.74E-05	1.55E-05	0.00E+00	1.91E+00
Trucks	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Worker Vehicles	3.37E-01	1.47E-05	1.18E-05	5.56E-04	3.42E-01
Total	**2.25E+00**	**9.21E-05**	**2.73E-05**	**5.56E-04**	**2.26E+00**

Legend: CO2T = carbon dioxide total; CH4 = methane; N2O = nitrous oxide; R = refrigerants; CO2e = carbon dioxide equivalent; MT = metric tons.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-7

Peak Day Construction Emissions During Concrete Pour Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Trucks	1.31E-01	3.77E-02	1.81E+00	8.68E-01	8.11E-03	1.41E-02	7.73E-01	7.87E-01	1.41E-02	1.29E-01	1.43E-01
Worker Vehicles	1.21E-01	1.08E-01	1.19E-01	1.92E+00	0.00E+00	0.00E+00	3.66E-01	3.66E-01	0.00E+00	8.59E-02	8.59E-02
Unpaved Access Road Dust	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E+01	2.98E+01	0.00E+00	2.98E+00	2.98E+00
Total	**1.29E+00**	**1.01E+00**	**9.97E+00**	**1.34E+01**	**2.80E-02**	**3.42E-01**	**3.09E+01**	**3.13E+01**	**3.16E-01**	**3.20E+00**	**3.51E+00**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29 except Unpaved Access Road Dust, which was calculated manually using AP-42 Section 13.2.2.

Table D-8

Peak Day Onsite Construction Emissions During Concrete Pour Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Trucks	3.40E-02	1.54E-02	3.40E-01	2.55E-01	5.45E-04	3.17E-05	4.77E-01	4.77E-01	3.17E-05	4.76E-02	4.77E-02
Worker Vehicles	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total	**1.07E+00**	**8.84E-01**	**8.39E+00**	**1.09E+01**	**2.04E-02**	**3.28E-01**	**4.77E-01**	**8.05E-01**	**3.02E-01**	**4.76E-02**	**3.50E-01**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-9

Total Construction GHG Emissions During Concrete Pour Phase (MT)

Source [1]	CO_2T	CH_4	N_2O	R	CO_2e
Construction Equipment	9.54E-01	3.87E-05	7.74E-06	0.00E+00	9.57E-01
Trucks	5.28E-01	3.73E-05	8.30E-05	5.03E-04	5.54E-01
Worker Vehicles	1.69E-01	7.34E-06	5.90E-06	2.78E-04	1.71E-01
Total	**1.65E+00**	**8.33E-05**	**9.67E-05**	**7.81E-04**	**1.68E+00**

Legend: CO2T = carbon dioxide total; CH4 = methane; N2O = nitrous oxide; R = refrigerants; CO2e = carbon dioxide equivalent; MT = metric tons.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-10

Peak Day Construction Emissions During Flare and Blower Construction Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Trucks	1.05E+00	1.36E-01	1.90E+01	6.05E+00	1.11E-01	2.20E-01	5.03E+00	5.25E+00	2.20E-01	1.31E+00	1.53E+00
Worker Vehicles	1.21E-01	1.08E-01	1.32E-01	1.92E+00	0.00E+00	0.00E+00	3.66E-01	3.66E-01	0.00E+00	8.59E-02	8.59E-02
Unpaved Access Road Dust	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E+01	2.89E+01	0.00E+00	2.89E+00	2.89E+00
Total	**2.21E+00**	**1.11E+00**	**2.72E+01**	**1.86E+01**	**1.31E-01**	**5.49E-01**	**3.43E+01**	**3.48E+01**	**5.23E-01**	**4.28E+00**	**4.81E+00**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29 except Unpaved Access Road Dust, which was calculated manually using AP-42 Section 13.2.2.

Table D-11

Peak Day Onsite Construction Emissions During Flare and Blower Construction Phase (lb/day)

Source [1]	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T
Construction Equipment	1.04E+00	8.69E-01	8.05E+00	1.06E+01	1.99E-02	3.28E-01	0.00E+00	3.28E-01	3.02E-01	0.00E+00	3.02E-01
Trucks	2.83E-02	1.28E-02	2.96E-01	2.19E-01	4.54E-04	2.65E-05	3.98E-01	3.98E-01	2.65E-05	3.97E-02	3.97E-02
Worker Vehicles	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total	**1.07E+00**	**8.82E-01**	**8.34E+00**	**1.08E+01**	**2.03E-02**	**3.28E-01**	**3.98E-01**	**7.26E-01**	**3.02E-01**	**3.97E-02**	**3.42E-01**

Legend: TOG = total organic gases; ROG = reactive organic gases; NOx = nitrogen oxides; CO = carbon monoxide; SO2 = sulfur dioxide; PM10 = particulate matter less than 10 microns; PM10E = PM10 exhaust; PM10D = PM10 dust, tire wear, and brake wear; PM10T = PM10 total; PM2.5 = particulate matter less than 2.5 microns; PM2.5E = PM2.5 exhaust; PM2.5D = PM2.5 dust, tire wear, and brake wear; PM2.5T = PM2.5 total.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-12

Total Construction GHG Emissions During Flare and Blower Construction Phase (MT)

Source [1]	CO_2T	CH_4	N_2O	R	CO_2e
Construction Equipment	8.21E+01	3.33E-03	6.66E-04	0.00E+00	8.23E+01
Trucks	6.62E+02	3.12E-02	1.04E-01	6.76E-01	6.94E+02
Worker Vehicles	1.45E+01	6.32E-04	5.08E-04	2.39E-02	1.47E+01
Total	**7.58E+02**	**3.51E-02**	**1.05E-01**	**7.00E-01**	**7.91E+02**

Legend: CO2T = carbon dioxide total; CH4 = methane; N2O = nitrous oxide; R = refrigerants; CO2e = carbon dioxide equivalent; MT = metric tons.

[1] Emissions were calculated by CalEEMod v. 2022.1.1.29.

Table D-13

Peak Day Construction Emissions by Phase (lb/day)

Construction Phase	NOx	VOC	PM10	PM2.5	SOx	CO
Trenching	8.17	0.98	7.23	1.04	0.02	12.52
Concrete Pour	9.97	1.01	31.29	3.51	0.03	13.39
Flare and Blower Construction	27.18	1.11	34.85	4.81	0.13	18.56
Maximum Emissions	**27.18**	**1.11**	**34.85**	**4.81**	**0.13**	**18.56**

Table D-14

Peak Day Construction Emissions by Source

Source [1]	NOx (lb/day)	VOC (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)	CO (lb/day)
Construction Equipment	8.0	0.9	0.3	0.3	0.0	10.6
Trucks	19.0	0.1	0.2	0.2	0.1	6.0
Worker Vehicles	0.1	0.1	0.0	0.0	0.0	1.9
Fugitive Dust [2]	0.0	0.0	34.3	4.3	0.0	0.0
Total Emissions	**27.2**	**1.1**	**34.8**	**4.8**	**0.1**	**18.6**
Significance Thresholds	100	75	150	55	150	550
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

[1] The peak day emissions would occur during the Flare and Blower Construction phase for all pollutants. There would be no dust from material movement during this phase.

[2] Fugitive dust includes tire wear, brake wear, paved and unpaved road dust, and dust from trucks driving on the 1-acre construction site.

Table D-15

Peak Day On-Site Construction Emissions by Phase (lb/day)

Construction Phase	NOx	PM10	PM2.5	CO
Trenching	8.05	0.33	0.30	10.60
Concrete Pour	8.39	0.81	0.35	10.85
Flare and Blower Construction	8.34	0.73	0.34	10.82
Maximum Emissions	**8.39**	**0.81**	**0.35**	**10.85**

Table D-16

Peak Day On-Site Construction Emissions by Source

Source [1]	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	CO (lb/day)
Construction Equipment	8.0	0.3	0.3	10.6
Trucks	0.3	0.0	0.0	0.3
Worker Vehicles	0.0	0.0	0.0	0.0
Fugitive Dust [2]	0.0	0.5	0.0	0.0
Total Emissions	**8.4**	**0.8**	**0.3**	**10.9**
LSTs	173	51	18	2,500
Exceeds Threshold?	**No**	**No**	**No**	**No**

[1] The peak day on-site emissions would occur during the Concrete Pour phase for all pollutants. The access road is considered off-site because it is outside the 1-acre construction area.

[2] Fugitive dust includes dust from trucks driving on the 1-acre construction site.

Table D-17

Total Construction GHG Emissions by Source

Source	CO_2 (MT)	CH_4 (MT)	N_2O (MT)	R (MT) [1]	CO_2e (MT) [2]
Construction Equipment	85	0.00	0.00	0.00	85
Trucks	662	0.03	0.10	0.68	695
Worker Vehicles	15	0.00	0.00	0.02	15
Total Emissions	**762**	**0.04**	**0.10**	**0.70**	**795**
Total Emissions Amortized over 30 Years (per year)					**27**

Legend: CO2 = carbon dioxide; CH4 = methane; N2O = nitrous oxide; R = refrigerants; CO2e = carbon dioxide equivalent; MT = metric tons.

[1] Refrigerants (some containing HFCs) are fugitive losses from air conditioning and refrigeration systems.

[2] CalEEMod uses GWPs from IPCC's (2007) Fourth Assessment Report, consistent with the statewide GHG emissions reporting protocol.

SCL Construction Detailed Report

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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	SCL Construction
Construction Start Date	7/1/2025
Lead Agency	South Coast AQMD
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	16.0
Location	34.334840990652836, -118.51961754634866
County	Los Angeles-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3757
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
General Light Industry	1.00	1000sqft	1.00	1,000	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.	2.21	1.11	26.5	18.6	0.13	0.55	5.40	5.95	0.52	1.39	1.92	—	19,455	19,455	0.90	2.69	41.6	20,320
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.20	1.11	27.2	18.3	0.13	0.55	5.40	5.95	0.52	1.39	1.92	—	19,436	19,436	0.90	2.69	1.08	20,260
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.53	0.27	6.55	4.43	0.03	0.13	1.26	1.40	0.13	0.33	0.45	—	4,604	4,604	0.21	0.63	4.24	4,802
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.10	0.05	1.20	0.81	0.01	0.02	0.23	0.25	0.02	0.06	0.08	—	762	762	0.04	0.10	0.70	795

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.21	1.11	26.5	18.6	0.13	0.55	5.40	5.95	0.52	1.39	1.92	—	19,455	19,455	0.90	2.69	41.6	20,320

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.20	1.11	27.2	18.3	0.13	0.55	5.40	5.95	0.52	1.39	1.92	—	19,436	19,436	0.90	2.69	1.08	20,260
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.53	0.27	6.55	4.43	0.03	0.13	1.26	1.40	0.13	0.33	0.45	—	4,604	4,604	0.21	0.63	4.24	4,802
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.10	0.05	1.20	0.81	0.01	0.02	0.23	0.25	0.02	0.06	0.08	—	762	762	0.04	0.10	0.70	795

3. Construction Emissions Details

3.1. Flare and Blower Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	8.05	10.6	0.02	0.33	—	0.33	0.30	—	0.30	—	2,103	2,103	0.09	0.02	—	2,111
Onsite truck	0.03	0.01	0.28	0.21	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	—	36.0	36.0	0.01	0.01	< 0.005	38.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	8.05	10.6	0.02	0.33	—	0.33	0.30	—	0.30	—	2,103	2,103	0.09	0.02	—	2,111
Onsite truck	0.03	0.01	0.30	0.22	< 0.005	< 0.005	0.40	0.40	< 0.005	0.04	0.04	—	36.6	36.6	0.01	0.01	< 0.005	38.7

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.90	2.50	< 0.005	0.08	—	0.08	0.07	—	0.07	—	496	496	0.02	< 0.005	—	497
Onsite truck	0.01	< 0.005	0.07	0.05	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	8.54	8.54	< 0.005	< 0.005	< 0.005	9.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.35	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.1	82.1	< 0.005	< 0.005	—	82.3
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	1.41	1.41	< 0.005	< 0.005	< 0.005	1.50
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.92	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	387	387	0.02	0.01	1.42	392
Vendor	1.02	0.12	18.0	5.83	0.11	0.22	4.63	4.86	0.22	1.27	1.49	—	16,929	16,929	0.79	2.65	40.2	17,778
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	0.12	0.11	0.13	1.62	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	367	367	0.02	0.01	0.04	371
Vendor	1.02	0.12	18.7	5.84	0.11	0.22	4.63	4.86	0.22	1.27	1.49	—	16,929	16,929	0.79	2.65	1.04	17,740
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	0.03	0.03	0.03	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	87.6	87.6	< 0.005	< 0.005	0.14	88.8
Vendor	0.24	0.03	4.48	1.38	0.03	0.05	1.08	1.14	0.05	0.30	0.35	—	3,989	3,989	0.19	0.62	4.09	4,184
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	0.02	14.7
Vendor	0.04	0.01	0.82	0.25	< 0.005	0.01	0.20	0.21	0.01	0.05	0.06	—	660	660	0.03	0.10	0.68	693
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Concrete Pour (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	8.05	10.6	0.02	0.33	—	0.33	0.30	—	0.30	—	2,103	2,103	0.09	0.02	—	2,111
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.03	0.02	0.34	0.25	< 0.005	< 0.005	0.48	0.48	< 0.005	0.05	0.05	—	43.2	43.2	0.02	0.01	0.01	45.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 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	0.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.95	0.95	< 0.005	< 0.005	—	0.96
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.92	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	387	387	0.02	0.01	1.42	392
Vendor	0.10	0.02	1.47	0.61	0.01	0.01	0.30	0.31	0.01	0.08	0.10	—	1,119	1,119	0.07	0.18	2.57	1,176
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	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
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. Trenching (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	8.05	10.6	0.02	0.33	—	0.33	0.30	—	0.30	—	2,103	2,103	0.09	0.02	—	2,111
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 Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.5	11.5	< 0.005	< 0.005	—	11.6
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.91	1.91	< 0.005	< 0.005	—	1.91
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	0.12	0.11	0.12	1.92	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	387	387	0.02	0.01	1.42	392
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	—	2.04	2.04	< 0.005	< 0.005	< 0.005	2.07
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	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.34
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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Flare and Blower Construction	Building Construction	7/4/2025	10/31/2025	5.00	86.0	—
Concrete Pour	Paving	7/3/2025	7/3/2025	5.00	1.00	—
Trenching	Trenching	7/1/2025	7/2/2025	5.00	2.00	—

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
Flare and Blower Construction	Cranes	Diesel	Average	1.00	8.00	225	0.29
Flare and Blower Construction	Forklifts	Diesel	Average	1.00	8.00	125	0.20
Flare and Blower Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	90.0	0.37
Flare and Blower Construction	Excavators	Diesel	Average	1.00	8.00	164	0.38
Flare and Blower Construction	Aerial Lifts	Diesel	Average	1.00	8.00	84.0	0.31
Flare and Blower Construction	Rubber Tired Loaders	Diesel	Average	1.00	8.00	24.0	0.36
Concrete Pour	Cranes	Diesel	Average	1.00	8.00	225	0.29
Concrete Pour	Forklifts	Diesel	Average	1.00	8.00	125	0.20
Concrete Pour	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	90.0	0.37
Concrete Pour	Excavators	Diesel	Average	1.00	8.00	164	0.38

Concrete Pour	Aerial Lifts	Diesel	Average	1.00	8.00	84.0	0.31
Concrete Pour	Rubber Tired Loaders	Diesel	Average	1.00	8.00	24.0	0.36
Trenching	Cranes	Diesel	Average	1.00	8.00	225	0.29
Trenching	Forklifts	Diesel	Average	1.00	8.00	125	0.20
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	90.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	164	0.38
Trenching	Aerial Lifts	Diesel	Average	1.00	8.00	84.0	0.31
Trenching	Rubber Tired Loaders	Diesel	Average	1.00	8.00	24.0	0.36

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Trenching	—	—	—	—
Trenching	Worker	24.0	21.6	LDA,LDT1,LDT2
Trenching	Vendor	0.00	10.2	HHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	0.03	HHDT
Flare and Blower Construction	—	—	—	—
Flare and Blower Construction	Worker	24.0	21.6	LDA,LDT1,LDT2
Flare and Blower Construction	Vendor	20.0	250	HHDT
Flare and Blower Construction	Hauling	0.00	20.0	HHDT
Flare and Blower Construction	Onsite truck	20.0	0.03	HHDT
Concrete Pour	—	—	—	—
Concrete Pour	Worker	24.0	21.6	LDA,LDT1,LDT2
Concrete Pour	Vendor	24.0	13.3	HHDT
Concrete Pour	Hauling	0.00	20.0	HHDT
Concrete Pour	Onsite truck	24.0	0.03	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%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Concrete Pour	0.00	0.00	0.00	0.00	0.00
Trenching	136	136	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005

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	17.5	annual days of extreme heat
Extreme Precipitation	8.30	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	10.6	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	95.3
AQ-PM	51.6
AQ-DPM	12.8
Drinking Water	83.1
Lead Risk Housing	13.4
Pesticides	7.17
Toxic Releases	30.4
Traffic	95.1
Effect Indicators	—

CleanUp Sites	17.1
Groundwater	0.00
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	33.2
Solid Waste	97.2
Sensitive Population	—
Asthma	49.0
Cardio-vascular	44.0
Low Birth Weights	0.80
Socioeconomic Factor Indicators	—
Education	33.9
Housing	39.7
Linguistic	33.3
Poverty	10.4
Unemployment	21.1

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	90.77377133
Employed	74.38727063
Median HI	81.84267933
Education	—
Bachelor's or higher	83.65199538
High school enrollment	100
Preschool enrollment	26.78044399
Transportation	—

Auto Access	82.44578468
Active commuting	24.49634287
Social	—
2-parent households	54.20248941
Voting	58.36006673
Neighborhood	—
Alcohol availability	97.0101373
Park access	60.8494803
Retail density	15.71923521
Supermarket access	6.326190171
Tree canopy	69.43410753
Housing	—
Homeownership	92.2751187
Housing habitability	86.60336199
Low-inc homeowner severe housing cost burden	32.47786475
Low-inc renter severe housing cost burden	74.33594251
Uncrowded housing	92.9038881
Health Outcomes	—
Insured adults	93.45566534
Arthritis	34.9
Asthma ER Admissions	48.8
High Blood Pressure	30.8
Cancer (excluding skin)	14.0
Asthma	88.8
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	68.2
Diagnosed Diabetes	58.5
Life Expectancy at Birth	66.8

Cognitively Disabled	74.6
Physically Disabled	74.5
Heart Attack ER Admissions	67.7
Mental Health Not Good	87.0
Chronic Kidney Disease	64.9
Obesity	83.6
Pedestrian Injuries	85.7
Physical Health Not Good	76.2
Stroke	58.2
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	87.1
No Leisure Time for Physical Activity	82.7
Climate Change Exposures	—
Wildfire Risk	55.0
SLR Inundation Area	0.0
Children	83.0
Elderly	27.3
English Speaking	63.7
Foreign-born	70.8
Outdoor Workers	56.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	79.9
Traffic Density	97.9
Traffic Access	23.0
Other Indices	—
Hardship	25.5
Other Decision Support	—

2016 Voting	43.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	30.0
Healthy Places Index Score for Project Location (b)	78.0
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	Approximate 1 acre construction site.
Construction: Construction Phases	Conservatively assume all concrete is poured in one day to capture peak day concrete trucks. Conservatively assume all trenching is done in two days to capture peak day fugitive dust (excavation the first day, soil replacement the second day).
Construction: Off-Road Equipment	Assume all equipment runs 8 hours per day for the entire construction period.
Construction: Trips and VMT	Assume all trucks are HHDT. Added 3.1 miles to CalEEMod default trip lengths for workers and concrete trucks to account for the SCL site access road.
Construction: Dust From Material Movement	Account for trenching as imported and exported material but with no truck haul trips.

Construction: On-Road Fugitive Dust	Access road contains 4500 feet of unpaved compact base material.

APPENDIX E

Air Quality Impact Analysis and Health Risk Assessment Technical Report

Air Quality Impact Analysis and Health Risk Assessment for the Flare Capacity Expansion Project at Sunshine Canyon Landfill

February 7, 2025

Prepared for:

South Coast AQMD

Prepared by:

Castle Environmental Consulting, LLC

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Attachment 1. Criteria Pollutant Concentration Increments Predicted by AERMOD at All Modeled Receptors

Attachment 2. Health Risk Increments Predicted by HARP2 at All Modeled Receptors

1.0 Executive Summary

This air quality impact analysis (AQIA) and health risk assessment (HRA) was prepared to analyze the air quality and health risk impacts of the proposed Flare Capacity Expansion Project (Proposed Project) at Sunshine Canyon Landfill (SCL). The Proposed Project would increase the number of operating landfill gas (LFG) flares from five to seven and would increase the permitted site-wide LFG combustion limit from 16,100 standard cubic feet per minute (scfm) to 33,334 scfm (at 50% methane [CH4], averaged over 24 hours).

Both the AQIA and HRA evaluated the Proposed Project's emissions increment relative to the *Final Subsequent Environmental Impact Report, Sunshine Canyon Landfill*, certified by the City of Los Angeles on December 8, 1999, and herein referred to as the 1999 Final SEIR (City of Los Angeles, 1999). The emissions increment is defined as the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR.

The AQIA estimated maximum ambient concentrations of nitrogen dioxide (NO2), particulate matter with an aerodynamic diameter of less than 10 microns (PM10), particulate matter with an aerodynamic diameter of less than 2.5 microns (PM2.5), sulfur dioxide (SO2), carbon monoxide (CO), and hydrogen sulfide (H2S). The HRA evaluated individual cancer risk, chronic non-cancer hazard index (HI), and acute non-cancer HI associated with emissions of toxic air contaminants (TACs).

Table 1 presents the AQIA results for the attainment pollutants, which are pollutants that currently meet the ambient air quality standards (AAQS) in the air basin where the Proposed Project is located. The results in Table 1 show that the Proposed Project would not cause an exceedance of an AAQS for any attainment pollutant.

Table 1. AQIA Results for Attainment Pollutants

Pollutant	Averaging Period	Total Concentration (ug/m³)	AAQS (ug/m3)	Exceedance?
NO2	1-Hour CAAQS	110.5	339	No
	1-Hour NAAQS	65.5	188	No
	Annual	19.3	57	No
PM10	24-Hour NAAQS	47.9	150	No
SO2	1-Hour CAAQS	24.5	655	No
	1-Hour NAAQS	10.0	196	No
	24-Hour	8.3	105	No
CO	1-Hour	1,731.5	23,000	No
	8-Hour	809.9	10,000	No
H2S	1-Hour	0.1	42	No

Legend: ug/m3 = micrograms per cubic meter; AAQS = ambient air quality standard; NAAQS = national ambient air quality standard; CAAQS = California ambient air quality standard.

Table 2 presents the AQIA results for the nonattainment pollutants, which are pollutants that currently do not consistently meet the AAQS in the air basin where the Proposed Project is located. The results in Table 2 show that the Proposed Project would not cause an exceedance of a significant change threshold for any nonattainment pollutant.

Table 2. AQIA Results for Nonattainment Pollutants

Pollutant	Averaging Period	Proposed Project Concentration Increment (ug/m3) [1]	Significant Change Threshold (ug/m3)	Exceedance?
PM10	24-Hour [1]	0.9	2.5	No
	Annual	0.1	1	No
PM2.5	24-Hour	0.9	2.5	No
	Annual	0.1	1	No

Legend: ug/m3 = micrograms per cubic meter.
Notes:
[1] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment pollutant (Table 1) and a nonattainment pollutant (Table 2).

Table 3 presents the HRA results associated with the Proposed Project operation. The results in Table 3 show that all health risk increments associated with the Proposed Project operation would be well below the South Coast AQMD's significance thresholds.

Table 3. Health Risk Assessment Results

Health Risk Category	Receptor Type	Maximum Proposed Project Increment	Significance Threshold	Exceedance?
Individual Cancer Risk (per million)	Resident	0.11	10	No
	Worker	0.014	10	No
Chronic Hazard Index	Resident	0.002	1.0	No
	Worker	0.005	1.0	No
Acute Hazard Index	Resident	0.003	1.0	No
	Worker	0.02	1.0	No

2.0 Introduction

This AQIA and HRA was prepared to analyze the air quality and health risk impacts of the proposed Flare Capacity Expansion Project (Proposed Project) at Sunshine Canyon Landfill (SCL). The Proposed Project would increase the number of operating landfill gas (LFG) flares from five to seven and would increase the permitted site-wide LFG combustion limit from 16,100 standard cubic feet per minute (scfm) to 33,334 scfm (at 50% methane [CH4], averaged over 24 hours).

Both the AQIA and HRA evaluated the Proposed Project's emissions increment relative to the 1999 Final SEIR. The emissions increment is defined as the maximum potential flare emissions under the Proposed Project

minus the maximum potential flare emissions under the 1999 Final SEIR.

For the AQIA, ambient concentrations of criteria pollutants were predicted at and beyond the SCL property line using an air dispersion model. The modeled criteria pollutants included NO2, PM10, PM2.5, SO2, CO, and H2S. Maximum predicted pollutant concentrations for averaging periods ranging from one hour to one year, depending on the pollutant, were compared with ambient air quality standards (AAQS) and significance thresholds published by the South Coast AQMD.

The HRA evaluated three categories of health risks: individual cancer risk, chronic non-cancer HI, and acute non-cancer HI. Risks were calculated for residential receptors as well as off-site and non-SCL on-site worker receptors. The cancer risk assessment considered extended TAC exposure durations of 30 years for residential receptors and 25 years for worker receptors. The chronic HI assessment considered long-term residential and offsite worker exposures based on maximum annual TAC emissions. The acute HI assessment considered short-term exposures based on peak hourly TAC emissions.

3.0 Background

SCL is a Class III municipal solid waste (MSW) landfill located on 1,036 acres at 14747 San Fernando Road in Sylmar, California. Browning-Ferris Industries of California, Inc. (BFIC) owns and operates SCL. SCL currently receives about 9,000 tons of municipal refuse daily, or about 2.5 million tons per year. SCL is permitted to receive up to 12,100 tons of refuse daily.

Decomposition of MSW results in the production of LFG. As required under Title 40 Code of Federal Regulations (CFR) and South Coast AQMD Rule 1150.1, BFIC currently operates five existing enclosed LFG flares at SCL as part of SCL's gas collection and control system. The flares control emissions of CH4, odors, and TACs present in the uncombusted LFG. They act as backup to a landfill gas-to-energy plant owned and operated by Sunshine Gas Producers (SGP). SGP owns first rights to the LFG collected at SCL and operates as a separate business entity from SCL.

The five existing SCL flares operate pursuant to a Title V permit that was issued to BFIC by the South Coast AQMD in 2017. Table 4 shows the current Title V LFG combustion limits for the individual existing flares and the current Title V site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours). The site-wide limit, which applies to the total LFG combusted by the existing SCL flares and the SGP facility, is substantially less than the sum of the rated capacities of the individual existing SCL flares.

The Proposed Project would include construction and operation of two additional enclosed LFG flares and two additional 300-horsepower (hp) electric LFG blowers at SCL. The Proposed Project would also increase the permitted site-wide LFG combustion limit from 16,100 scfm to 33,334 scfm (at 50% CH4, averaged over 24 hours). Figure 1 shows the SCL property line and locations of the five existing and two proposed flares over an aerial image of the project area. Figure 2 shows a closeup of the main flare pad containing existing Flares 9, 10, and 11 and proposed Flares 12 and 13. Depending on the final design, the ultimate locations for Flares 12 and 13 may move slightly (a few meters, at most) from the locations shown in Figure 2. Such minor changes in the final flare locations are not expected to appreciably change the results of the AQIA and HRA.

Table 4. Current Permitted LFG Combustion Limits

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Maximum LFG Combustion Limit (scfm)	Maximum Heat Input (MMBtu/hr) [3]
Flare 1	537983	G19108	4,167	105
Flare 3	537984	G19109	4,167	105
Flare 9	526972	G45944	5,000	152
Flare 10	541300	G45946	5,000	152
Flare 11	570952	G44479	5,000	152
Site-Wide Limit [1]			16,100 [2]	n/a

Legend: n/a = not applicable (i.e., no permit limit); scfm = standard cubic feet per minute; MMBtu/hr = million British thermal units (Btu) per hour.
Source: Title V Facility Permit to Operate. Facility ID 049111. Revision #14. May 15, 2018.
Notes:
[1] The site-wide limit is less than the sum of the individual flare limits.
[2] The site-wide limit is at 50% CH4, calculated over a 24-hour period. It includes the sum of LFG sent to the SCL flares and the SGP facility.
[3] Flares 1 and 3 are permitted to 105 MMBtu/hr based on the LFG lower heating value (LHV), while Flares 9, 10, and 11 were permitted to 152 MMBtu/hr based on the LFG higher heating value (HHV).

Table 5 shows the proposed LFG combustion limits for the Proposed Project. The addition of two new flares, Flares 12 and 13, and an increase in the site-wide LFG combustion limit to 33,334 scfm (at 50% CH4) would enable the seven flares to combust all of the future peak LFG flow of 32,392 scfm projected to be reached in 2038. The SCL flares need to be able to handle all the LFG flow for situations when the SGP facility is offline for maintenance or other reasons.

Table 5. Proposed LFG Combustion Limits

Abatement Device	AQMD Application No. (A/N)	AQMD Permit No.	Maximum LFG Combustion Limit (scfm) [1]	Maximum Heat Input (MMBtu/hr) [2]
Flare 1	537983	G19108	4,167	117
Flare 3	537984	G19109	4,167	117
Flare 9	526972	G45944	5,000	152
Flare 10	541300	G45946	5,000	152
Flare 11	570952	G44479	5,000	152
Flare 12 [4]	598016	Pending	5,000	152
Flare 13 [4]	Pending	Pending	5,000	152
Site-Wide Limit			33,334 [3]	994

Legend: scfm = standard cubic feet per minute; MMBtu/hr = million British thermal units (Btu) per hour.
Notes:
[1] There would be no change in permit limits for the individual existing Flares 1, 3, 9, 10, and 11.
[2] The values displayed for rated heat input are based on the higher heating value (HHV). The values for Flares 1 and 3 were converted from LHV (as reported in Table 4) to HHV by dividing LHV by 0.90 (API, 2021).

[3] At 50% CH4, averaged over 24 hours. This value represents the total capacity of the five existing and two proposed flares.

[4] Proposed new flare. This study assumed the proposed new flares would be the same model as existing Flares 9, 10, and 11 except the proposed new flares would have 70-foot-tall stacks instead of 50-foot-tall stacks.



Figure 1. SCL Property Line and Flare Locations

Note: Flares 1, 3, 9, 10, and 11 are existing; Flare 12 and 13 are proposed.

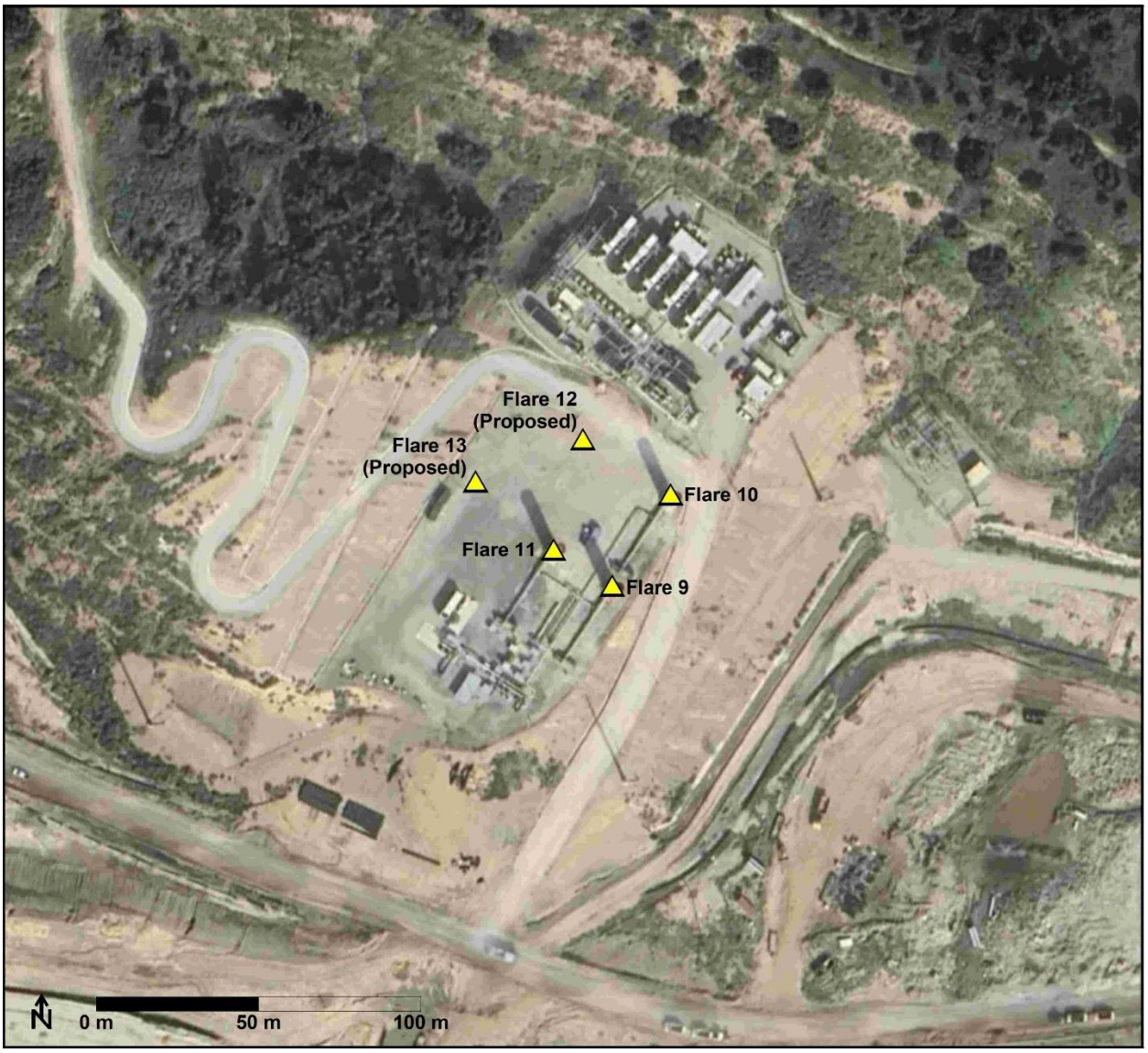


Figure 2. Locations of Existing Flares 9, 10, and 11 and Proposed Flares 12 and 13

4.0 Dispersion Modeling Approach

This section describes the methods that were followed to complete the air dispersion modeling elements of the AQIA and HRA. The modeling methodologies followed the federal Guideline on Air Quality Models (40 CFR Part 51, Appendix W; November 29, 2024) and the South Coast AQMD Modeling Guidance for AERMOD (South Coast AQMD, 2024).

4.1 Dispersion Model Selection

The air dispersion model selected for the air quality modeling analyses was the American Meteorological Society (AMS)/EPA Regulatory Model (AERMOD), version 24142 (U.S. EPA, 2024d). AERMOD is a state-of-the-art model that allows for modeling of complex emission sources. A primary enhancement of AERMOD over earlier models is the more realistic handling of plume dispersion in both stable and convective conditions within the planetary boundary layer. Plumes encountering terrain are simulated to move more

realistically either over or around terrain features. To properly represent dispersion processes, the meteorological data input requirements for AERMOD are more rigorous as compared to previous models.

4.2 Pollutants and Averaging Times

For the AQIA, the following pollutants and averaging times were modeled in AERMOD:

- NO2: 1-hour and annual average concentrations.
- PM10: 24-hour and annual average concentrations.
- PM2.5: 24-hour and annual average concentrations.
- SO2: 1-hour and 24-hour average concentrations.
- CO: 1-hour and 8-hour average concentrations.
- H2S: 1-hour average concentrations.

The modeled pollutants and averaging times align with the criteria pollutant ambient concentration thresholds discussed in Section 5.2. In all cases, each modeled 1-hour, 8-hour, 24-hour, and annual concentration selected for comparison to a AAQS or significance threshold was the highest modeled offsite concentration over the entire 5-year meteorological data period. This approach was conservative for comparisons to the NO2 1-hour national ambient air quality standard (NAAQS), PM10 24-hour NAAQS, and SO2 1-hour NAAQS because compliance with each of these standards is based on less than the highest overall concentration (see Section 5.2 for more detail).

For the HRA, TACs were modeled in AERMOD as a single surrogate pollutant with a "unit" emission rate of 1 gram per second (g/s). AERMOD modeled "period" average unit concentrations (i.e., a single concentration at each modeled receptor averaged over all five years of meteorological data) for use in the determination of cancer risk and chronic HIs, and maximum 1-hour average unit concentrations for use in the determination of acute HIs. The individual TAC emission rates were applied to the unit concentrations in the post-AERMOD health risk calculations, as discussed in Section 6.3.

4.3 Meteorological Data

Meteorological data from the Van Nuys Airport (KVNY), located about 13 kilometers (km) to the south-southeast of SCL, were used in AERMOD to simulate the dispersion of the Proposed Project flare emissions. The data set has five consecutive years of historic hourly meteorological data for the period January 1, 2016 through December 31, 2020. The KVNY data were processed for dispersion model use by South Coast AQMD staff using the AERMET processor, version 22112 (EPA, 2022). The processed meteorological data are available on South Coast AQMD's website (South Coast AQMD, 2024).

In selecting the most representative meteorological station, South Coast AQMD staff looked at the meteorological stations within the Proposed Project's vicinity. Figure 3 shows the locations of three stations considered by the AQMD – KVNY, the Hollywood Burbank Airport (KBUR), and Santa Clarita (SCLR) – along with wind roses generated from their respective 5-year hourly meteorological data sets. SCL is located in an elevated area with complex terrain and experiences winds with higher speeds. KBUR is heavily influenced by the mountain range to the northeast that channels the winds in a northwesterly direction that is not representative of SCL. Both SCLR and KVNY are located in valley areas. However, SCLR has a larger proportion of low wind speeds, which is not representative of the wind conditions at SCL. Therefore, KVNY was selected as the most representative meteorological station.

Figure 4 shows a larger wind rose of the 5-year meteorological data from KVNY. Each "petal" on the wind rose indicates the frequency of winds blowing *from* the indicated direction, by wind speed category. For example, the wind rose shows that the wind blows from the due north (i.e., toward the south) about 4 percent of the time, and the most common wind speed from that direction (shown in blue) is between 5 and 10 meters per second (mps or m/s), or between 11 and 22 miles per hour (mph). The figure shows that the most common wind direction at KVNY is from the southeast.

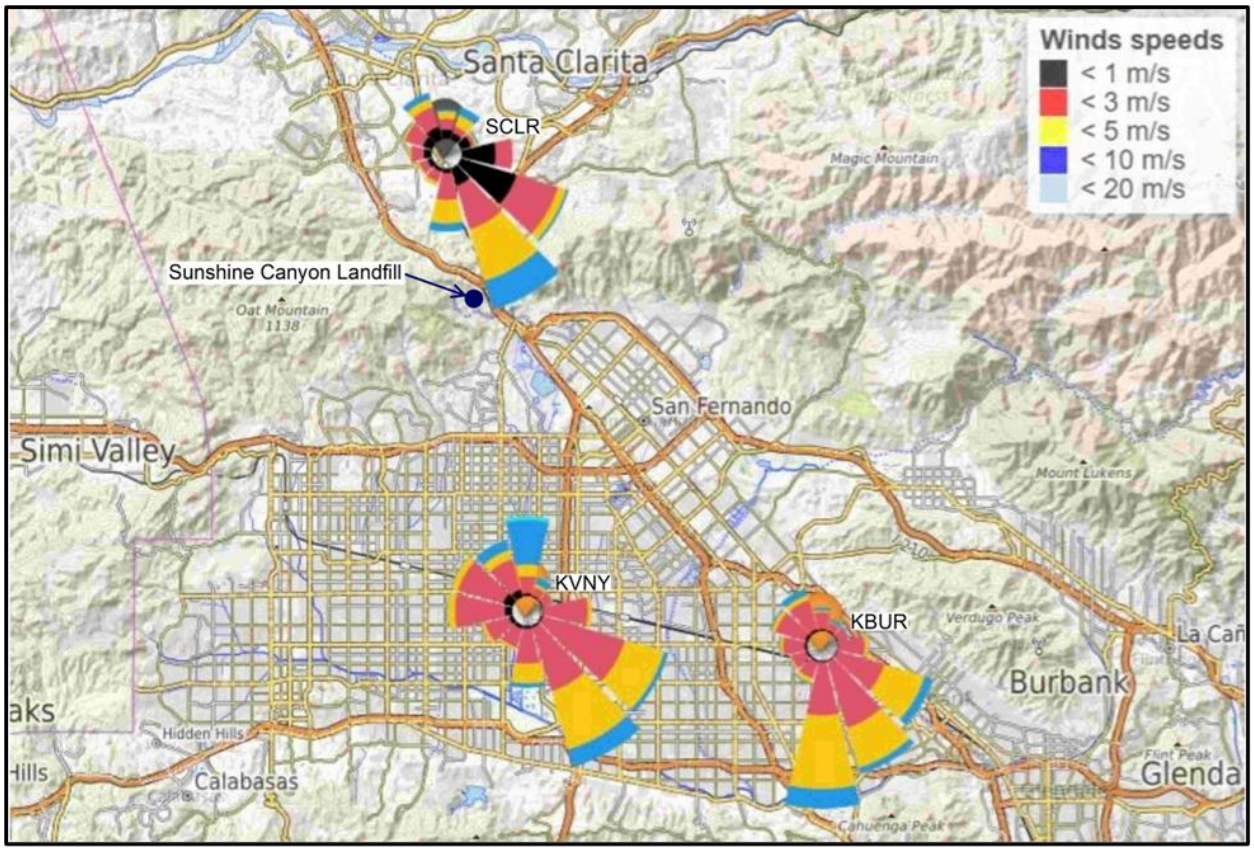


Figure 3. Locations of Meteorological Data Stations in Relation to SCL

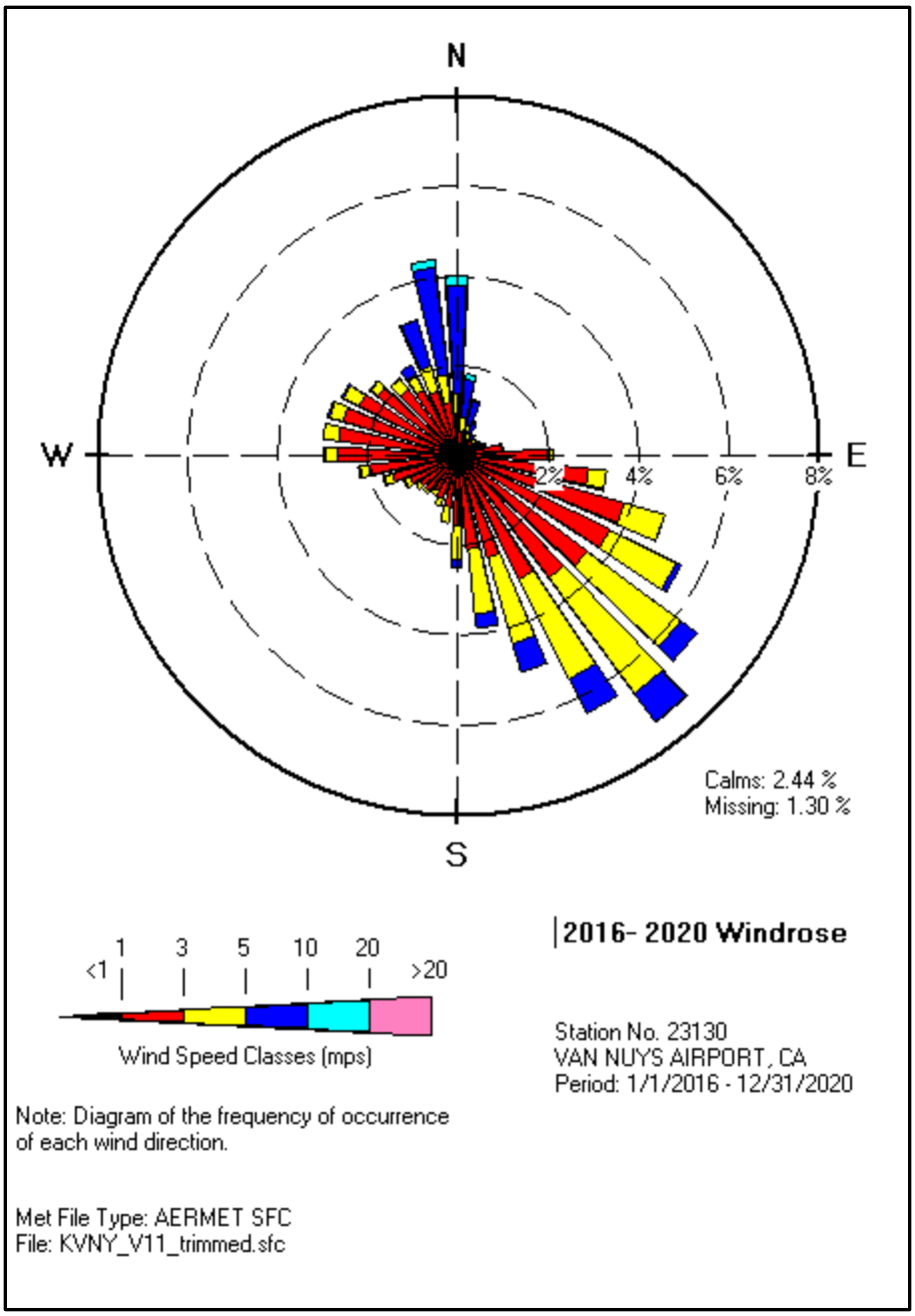


Figure 4. Van Nuys Airport (KVNY) Wind Rose, 2016-2020
Legend: mps = meters per second.

4.4 Model Options

The following AERMOD options were selected in accordance with South Coast AQMD guidance (South Coast AQMD, 2024):

- Regulatory default option:
  - Stack-tip downwash.
  - Accounts for elevated terrain effects.

  - Uses calms processing routine.
  - Uses missing data processing routine.
- No exponential decay.
- No dry deposition.
- No wet deposition.
- Urban dispersion with a Los Angeles County population of 9,663,345.
- No flagpole receptor heights (i.e., concentrations were calculated at ground-level).
- Ambient Ratio Method 2 (ARM2) to convert NOx to NO2, with default upper and lower limits on the NO2/NOx ambient ratio of 0.9 and 0.5, respectively.

Furthermore, because some modeled receptors were lower and some higher than the base elevation of the modeled flares, AERMOD was run twice – once using the regulatory default option (as indicated in the above bullets) and a second time using the non-default flat terrain option, consistent with South Coast AQMD's modeling guidance. The maximum ground-level concentration from both runs was selected at each receptor for both the AQIA and the HRA.

4.5 Source Parameters

The AERMOD source parameters are presented in Table 6. Each of the seven flares (five existing and two proposed) was modeled as a point source with vertical exhaust. Stack release parameters were provided by SCL staff. The stack heights for proposed Flares 12 and 13 would be 70 feet, which is 20 feet higher than the existing flares. The stack base elevations for Flares 1 and 3 were determined using AERMAP version 18081 (U.S. EPA, 2018) and 1 arc-second National Elevation Dataset (NED) terrain data from the U.S. Geological Survey (USGS) (available: https://apps.nationalmap.gov/downloader/). Flares 9, 10, 11, 12, and 13 would all be located on the same flare pad at an elevation of 1,900 feet (579.12 m); therefore, the elevations for those flares were manually set in AERMOD at 579.12 m because AERMAP was not able to estimate elevations at that level of precision.

Table 6. AERMOD Source Parameters

Source ID	UTM Easting (X) (m)	UTM Northing (Y) (m)	Stack Base Elevation (m)	Stack Height (ft)	Stack Exit Temperature (°F)	Stack Exit Velocity (ft/sec)	Stack Diameter (ft)
Flare 1	360942	3798660	565.38	50	1,600	24.9	12.6
Flare 3	359516	3799162	679.17	50	1,600	24.9	12.6
Flare 9	360237	3800322	579.12	50	1,600	34.6	12.6
Flare 10	360255	3800350	579.12	50	1,600	34.6	12.6
Flare 11	360219	3800333	579.12	50	1,600	34.6	12.6
Flare 12 [1]	360228	3800367	579.12	70	1,600	34.6	12.6
Flare 13 [1]	360195	3800354	579.12	70	1,600	34.6	12.6

Legend: UTM = Universal Transverse Mercator coordinate system; m = meter(s); ft = feet; °F = degrees Fahrenheit; ft/sec = feet per second.
Notes:
[1] Proposed new flare.

4.6 Building Downwash

The BPIP-PRIME model, version 04274 (U.S. EPA, 2004), was used to calculate direction-specific building

downwash effects for use in AERMOD. Building downwash occurs when the aerodynamic properties of a building or structure affect the emissions plume from a nearby point source. The dimensions of eight structures potentially within about 5 building widths of Flares 9, 10, 11, 12, and 13 were included as input to the model. BPIP-PRIME determined that none of the structures would be close enough to contribute to building downwash. Therefore, AERMOD was run with no building downwash effects.

4.7 Receptors

Residential neighborhoods have encroached upon the SCL since its opening in 1958. The closest homes are to the south and southeast, as close as 200 meters from Flare 1. Other homes are more distant, more than 2,000 meters north and northwest of the SCL. The immediate vicinity is largely unoccupied, with a wastewater plant and other industrial facilities scattered in non-residential areas.

A Cartesian receptor grid was developed for the AQIA in accordance with South Coast AQMD Modeling Guidance for AERMOD:

- Receptors were spaced approximately 50 meters apart along the entire SCL property line.
- Fine grid receptors were spaced every 50 meters out to 500 meters from the property line.
- Medium grid receptors were spaced every 100 meters from 500 meters to 1 kilometer (km) from the SCL property line.
- Coarse grid receptors were spaced every 250 meters from 1 km to 5 km from the property line.

The above-described nested receptor grid resulted in 4,884 receptors. The AQIA receptor grid is shown in Figure 5 (the outermost receptors were cropped from the figure to enable better resolution near SCL). Receptor elevations were determined using AERMAP and 1 arc-second NED terrain data. The receptor grid was adequate in density and extent to determine maximum ambient criteria pollutant concentrations at or beyond the SCL property line.

The HRA used the same receptor grid described above for the AQIA, except the HRA modeled additional worker receptors placed within the SGP LFG-to-energy facility and within a Southern California Edison (SCE) substation located on SCL property. (These additional receptors were not modeled for the AQIA because they are not publicly accessible and therefore are not considered ambient air with respect to criteria pollutant concentrations). These additional HRA worker receptors are shown in Figure 6. The HRA receptor grid was adequate in density and extent to determine maximum TAC concentrations at residential and worker locations in the surrounding communities and at worker locations within the onsite non-SCL facilities.

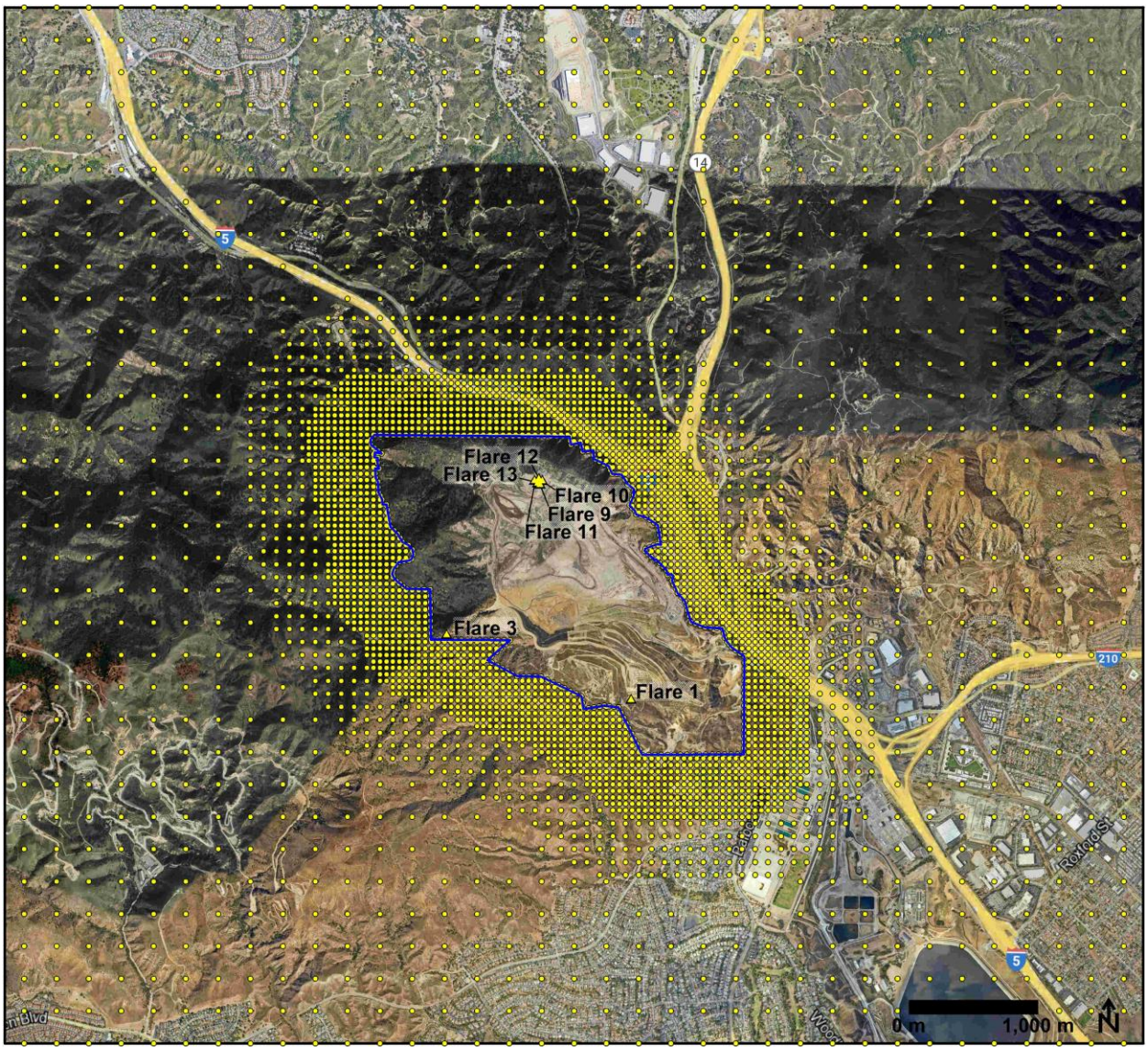


Figure 5. AERMOD Receptor Grid for the AQIA

Note: Outermost receptors were cropped from the figure to enable better resolution near SCL.

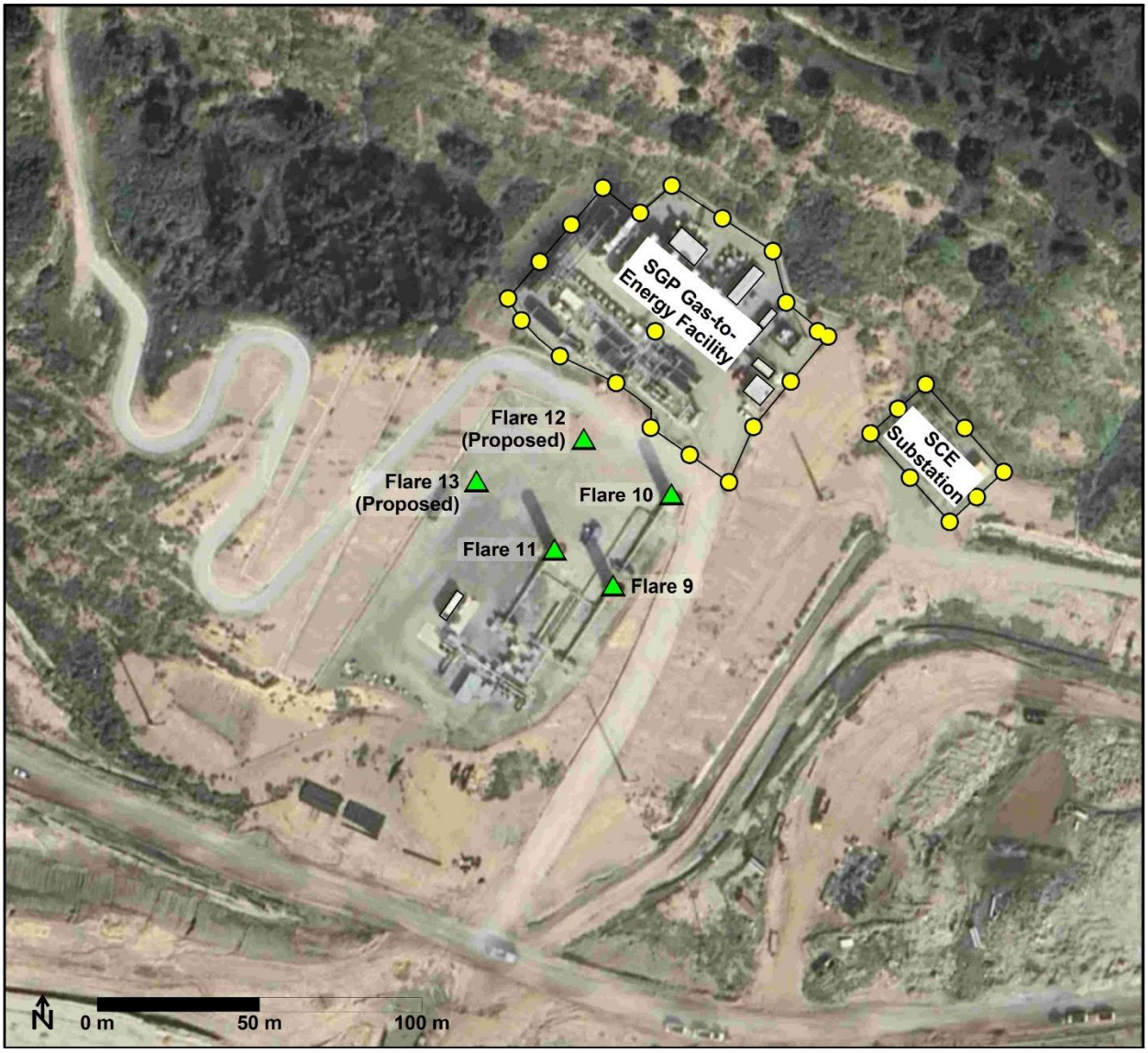


Figure 6. Additional On-Site Non-SCL Worker Receptors for the HRA

5.0 Air Quality Impact Analysis

5.1 Modeled Emission Rates

The AQIA modeled the criteria pollutant emissions increments (i.e., increases) associated with operation of the Proposed Project flares. The emissions increments represent the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR. The maximum potential flare emissions under the 1999 Final SEIR are also referred to as the baseline emissions.

The baseline peak day emissions associated with the operation of existing flares are presented in Table 7. The AQIA modeled peak day emissions, converted to g/s, to predict maximum 24-hour and annual ambient concentrations. Therefore, only the pollutants modeled for 24-hour and annual concentrations (i.e., NOx, PM10, PM2.5, and SOx) are included in the table. The baseline peak day emissions reflect the

five existing flares operating at their most restrictive current Title V permit limit, which is the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours). The current Title V permit is based on the air quality analysis in the 1999 Final SEIR and therefore is appropriate for baseline emissions. Note that the current Title V site-wide LFG combustion limit results in baseline peak day flare emissions that are less than the current Title V emission limits for the individual flares[1]. This approach to determining baseline emissions is conservative because it would result in a lower baseline, and therefore, a higher emissions increment from the Proposed Project relative to the baseline.

The baseline peak hourly emissions associated with the existing flares are presented in Table 8. The AQIA modeled peak hourly emissions, converted to g/s, to predict maximum 1-hour and 8-hour ambient concentrations. Therefore, only the pollutants modeled for 1-hour and 8-hour concentrations (i.e., NOx, SOx, CO, and H2S) are included in Table 8. Unlike the baseline peak day emissions discussed in the preceding paragraph, the baseline peak hourly emissions from the existing flares are not restricted by the site-wide limits in the current Title V permit because the site-wide limits are based on 24-hour averages. Therefore, the baseline peak hourly emissions reflect the existing flares operating at their rated LFG input capacities, which are 4,167 scfm for Flares 1 and 3, and 5,000 scfm for Flares 9, 10, and 11.

Table 7. Baseline Criteria Pollutant Peak Day Emissions

Source ID	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)
FLARE1	120.1	28.3	28.3	73.8
FLARE3	99.4	26.5	26.5	62.9
FLARE9	62.9	24.8	24.8	125.9
FLARE10	62.9	24.8	24.8	125.9
FLARE11	62.9	24.8	24.8	125.9
Total	**408.2**	**129.2**	**129.2**	**514.4**

Notes:

[1] Only those pollutants modeled for 24-hour or annual concentrations are included in the table.

[2] Baseline peak day emissions represent the maximum potential flare emissions under the 1999 Final SEIR. The emissions reflect the existing flares operating at their most restrictive current Title V permit limit, which is the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours) for the pollutants included in the table.

[2] Baseline peak day emissions were apportioned to the flares using each flare's Title V emission factors, assuming all flares would operate at the same percent of rated capacity. The rated capacities are the same as the maximum LFG combustion limits shown in Table 4.

[1] The current Title V emission limits for individual Flares 1, 3, 9, 10, and 11 are shown in Table 9. Although Table 9 shows the emissions for the Proposed Project, the emissions shown for Flares 1, 3, 9, 10, and 11 are the same as individual flare limits in the current Title V permit.

Table 8. Baseline Criteria Pollutant Peak Hourly Emissions

Source ID	NOx (lb/hr)	SOx (lb/hr)	CO (lb/hr)	H2S (lb/hr)
FLARE1	7.25	4.46	4.33	0.085
FLARE3	6.00	3.80	4.10	0.085
FLARE9	3.80	7.60	9.12	0.102
FLARE10	3.80	7.60	9.12	0.102
FLARE11	3.80	7.60	9.12	0.102
Total	**24.65**	**31.06**	**35.79**	**0.476**

Notes:

[1] Only those pollutants modeled for 1-hour or 8-hour concentrations are included in the table.

[2] Baseline peak hourly emissions reflect the existing flares operating at their rated LFG input capacities, which are 4,167 scfm for Flares 1 and 3, and 5,000 scfm for Flares 9, 10, and 11.

[2] Baseline peak hourly emissions of NOx, SOx, and CO were obtained from the current Title V permit. Baseline peak hourly H2S emissions were calculated as described for TACs in Section 6.1.

The criteria pollutant peak day and peak hourly emissions under the Proposed Project are presented in Tables 9 and 10, respectively. The proposed peak day and peak hourly emissions reflect all five existing flares and two proposed new flares operating at their maximum LFG combustion capacities, which would total 33,334 scfm (at 50% CH4). The proposed emissions for existing Flares 1, 3, 9, 10, and 11 are the same as the current Title V emission limits for the individual flares. As a result, the proposed peak day emissions for the existing flares would be higher than the baseline emissions because the baseline peak day emissions are constrained by the current Title V site-wide combustion limit of 16,100 scfm at 50% CH4. However, the proposed peak hourly emissions for the existing flares would be the same as the baseline peak hourly emissions because both are based on the flare LFG combustion capacities which would not change.

The proposed emissions for new Flares 12 and 13 were developed by South Coast AQMD engineers and reflect a combination of flare design specifications and compliance with Rules 1118.1 and Rule 1303. This AQIA conservatively assumed that all seven flares would operate continuously at their proposed emission limits even though in practice a substantial portion of the collected LFG would be diverted to the SGP facility except when the SGP facility is temporarily off-line.

Table 9. Proposed Project Criteria Pollutant Peak Day Emissions

Source ID [1]	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)
FLARE1	174.0	41.0	41.0	107.0
FLARE3	144.0	38.4	38.4	91.2
FLARE9	91.2	36.0	36.0	182.4
FLARE10	91.2	36.0	36.0	182.4
FLARE11	91.2	36.0	36.0	182.4
FLARE12 [2]	91.2	36.0	36.0	103.4
FLARE13 [2]	91.2	36.0	36.0	103.4
Total	**774.0**	**259.4**	**259.4**	**952.2**

Notes:

[1] Proposed project peak day emissions represent the maximum potential flare emissions under the Proposed Project. The emissions reflect the five existing and two proposed flares operating at their LFG combustion rated capacities, which total 33,334 scfm (at 50% CH4).

[2] Proposed new flare.

Table 10. Proposed Project Criteria Pollutant Peak Hourly Emissions

Source ID	NOx (lb/hr)	SOx (lb/hr)	CO (lb/hr)	H2S (lb/hr)
FLARE1	7.25	4.46	4.33	0.085
FLARE3	6.00	3.80	4.10	0.085
FLARE9	3.80	7.60	9.12	0.102
FLARE10	3.80	7.60	9.12	0.102
FLARE11	3.80	7.60	9.12	0.102
FLARE12 [2]	3.80	4.31	9.12	0.102
FLARE13 [2]	3.80	4.31	9.12	0.102
Total	**32.25**	**39.68**	**54.03**	**0.679**

Notes:

[1] Proposed project peak hourly emissions represent the maximum potential flare emissions under the Proposed Project. The emissions reflect the five existing and two proposed flares operating at their LFG combustion rated capacities, which total 33,334 scfm (at 50% CH4).

[2] Proposed new flare.

The criteria pollutant peak day emissions increments associated with the Proposed Project operation are presented in Table 11. These emissions, converted to units of g/s, were modeled in AERMOD to predict maximum 24-hour and annual ambient pollutant concentrations. The emissions increments were determined by subtracting the baseline peak day emissions in Table 7 from the Proposed Project peak day emissions in Table 9. The non-zero peak day emissions increments for the existing flares (Flares 1, 3, 9, 10, and 11) in Table 11 result from the baseline emissions being restricted by the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours) in the current Title V permit. Consequently, the baseline emissions are lower than the proposed emissions for the existing flares, resulting in positive emissions increments. The peak day emissions increments for the proposed new flares (Flares 12 and 13) would be equal to the total proposed peak day emissions from the proposed new flares because there would be no baseline emissions to subtract.

The criteria pollutant peak hourly emissions increments associated with the Proposed Project operation are presented in Table 12. These emissions, converted to units of g/s, were modeled in AERMOD to predict maximum 1-hour and 8-hour ambient pollutant concentrations. The emissions increments were determined by subtracting the baseline peak hourly emissions in Table 8 from the Proposed Project peak hourly emissions in Table 10. Unlike the baseline peak day emissions discussed in the preceding paragraph, the baseline peak hourly emissions from the existing flares are not restricted by the site-wide limits in the current Title V permit because the site-wide limits are based on 24-hour averages. Therefore, for peak hourly emissions, both the baseline and proposed emissions from the existing flares (Flares 1, 3, 9, 10, and 11) are based on maximum flare capacity which would not change due to the Proposed Project. As a result, there would be no change in peak hourly emissions from existing Flares 1, 3, 9, 10, and 11, and their emissions increments would be zero. The peak hourly emissions increments for the proposed new flares (Flares 12 and 13) would be equal to the total proposed peak hourly emissions from these flares because there would be no baseline emissions to subtract.

The flare emission calculations for the baseline, Proposed Project, and emissions increment scenarios are included in Appendix C of the SEIR.

Table 11. Proposed Project Criteria Pollutant Peak Day Emissions Increments Modeled in the AQIA

Source ID [1]	NOx (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)	SOx (lb/day)
FLARE1	53.9	12.7	12.7	33.2
FLARE3	44.6	11.9	11.9	28.3
FLARE9	28.3	11.2	11.2	56.5
FLARE10	28.3	11.2	11.2	56.5
FLARE11	28.3	11.2	11.2	56.5
FLARE12 [2]	91.2	36.0	36.0	103.4
FLARE13 [2]	91.2	36.0	36.0	103.4
Total	**365.8**	**130.2**	**130.2**	**437.8**

Notes:
[1] The peak day emissions increments equal the peak day flare emissions under the Proposed Project (Table 9) minus the peak day flare emissions under the 1999 Final SEIR (Table 7). Emissions were converted to grams per second (g/s) and modeled in AERMOD to predict maximum 24-hour and annual concentrations. Only those pollutants with 24-hour or annual ambient concentration thresholds are shown in the table.
[2] Proposed new flare.

Table 12. Proposed Project Criteria Pollutant Peak Hourly Emissions Increments Modeled in the AQIA

Source ID [1]	NOx (lb/hr)	SOx (lb/hr)	CO (lb/hr)	H2S (lb/hr)
FLARE1	0.00	0.00	0.00	0.000
FLARE3	0.00	0.00	0.00	0.000
FLARE9	0.00	0.00	0.00	0.000
FLARE10	0.00	0.00	0.00	0.000
FLARE11	0.00	0.00	0.00	0.000
FLARE12 [2]	3.80	4.31	9.12	0.102
FLARE13 [2]	3.80	4.31	9.12	0.102
Total	**7.60**	**8.62**	**18.24**	**0.204**

Notes:
[1] The peak hourly emissions increments equal the peak hourly flare emissions under the Proposed Project (Table 10) minus the peak hourly flare emissions under the 1999 Final SEIR (Table 8). Emissions were converted to grams per second (g/s) and modeled in AERMOD to predict maximum 1-hour and 8-hour concentrations. Only those pollutants with 1-hour or 8-hour ambient concentration thresholds are shown in the table. There would be no change in peak hourly emissions from existing Flares 1, 3, 9, 10, and 11; therefore, their emissions increments would be zero.
[2] Proposed new flare.

5.2 Ambient Air Quality Standards and Significant Change Thresholds

For the attainment pollutants, air dispersion modeling was completed to demonstrate compliance with the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The pollutants currently designated as attainment of these standards are NO2, PM10 (for the NAAQS but not the CAAQS), SO2, CO, H2S (unclassified but treated as an attainment pollutant for the significance criteria), lead, and sulfates.

Table 13 shows the current CAAQS and NAAQS for the attainment pollutants modeled in this AQIA. The units are expressed as micrograms per cubic meter (ug/m3), which are the standard units for dispersion model output.

Lead and sulfates were screened out of the AQIA. Lead was not modeled because the Proposed Project would not generate substantial quantities of lead emissions. Sulfates were not modeled because the sulfur present in the uncombusted LFG was assumed to be converted to SO2 and H2S for comparison to the SO2 and H2S standards. However, post modeling analysis shows that assuming complete conversion of LFG sulfur to sulfates would also demonstrate compliance with the sulfates CAAQS.

Table 13. Ambient Air Quality Standards for Attainment Pollutants

Pollutant	Averaging Period	CAAQS (ug/m3) [1]	NAAQS (ug/m3) [2]
NO2	1-Hour	339	188 [3]
	Annual	57	100
PM10	24-Hour	n/a [4]	150 [5]
SO2	1-Hour	655	196 [6]
	24-Hour	105	None
CO	1-Hour	23,000	40,000 [7]
	8-Hour	10,000	10,000 [7]
H2S	1-Hour	42	None

Legend: ug/m3 = micrograms per cubic meter.
Notes:
[1] Source CARB, 2024.
[2] Source: EPA, 2024.
[3] 98th percentile of 1-hour daily maximum concentrations, averaged over 3 years.
[4] PM10 is attainment only for the NAAQS; therefore, the CAAQS is not shown.
[5] Not to be exceeded more than once per year on average over 3 years.
[6] 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years.
[7] Not to be exceeded more than once per year.

Because the AAQS are absolute thresholds, it was necessary to compare absolute pollutant concentrations to the AAQS for making impact determinations. An absolute pollutant concentration equals the modeled Proposed Project concentration increment plus the background pollutant concentration. The background concentration represents the contribution to the total ambient pollutant concentration from all other emissions sources in the region except the sources being modeled.

In accordance with South Coast AQMD modeling guidance, the background concentrations were obtained from the last three available years of monitoring data from nearby representative monitoring stations. Table 14 shows the background concentrations for the attainment pollutants. H2S is not monitored in the project area; therefore, no background concentration was determined for H2S. The modeled project H2S concentration increments were compared directly to the CAAQS without adding a background concentration.

Table 14. Background Concentrations of Attainment Pollutants

Pollutant	Averaging Period	Unit of Measure	Monitored Concentration [1,2]			Background Concentration [7]	
			2021	2022	2023	(Unit of Measure)	(µg/m3) [11]
NO2	1-Hour CAAQS	ppb	56.9	51.5	40.4	56.9	107
	1-Hour NAAQS	ppb	35.2 [3]	33.3 [3]	30.2 [3]	32.9 [8]	62
	Annual	ppb	9.9	9.1	8.4	9.9	19
PM10	24-Hour	ug/m3	47	36	41	47	47
SO2	1-Hour CAAQS	ppb	2.2 [4]	6.5 [4]	7.7 [4]	7.7	20
	1-Hour NAAQS	ppb	2.0 [4,5]	2.3 [4,5]	2.0 [4,5]	2.1 [9]	5.5
	24-Hour	ppb	1.2 [4,6]	1.2 [4,6]	2.3 [4,6]	2.3	6
CO	1-Hour	ppm	1	1.5	1.1	1.5	1,722
	8-Hour	ppm	0.7	0.6	0.6	0.7	804
H2S	1-Hour	ppb	Not Available	Not Available	Not Available	Not Available	Not Available [10]

Legend: "Not Available" means the pollutant is not monitored in the air basin; ug/m3 = micrograms per cubic meter; ppm = parts per million by volume; ppb = parts per billion by volume.
Source: SCAQMD, 2024b.
Notes:

[1] Flares 3, 9, 10, 11, 12, and 13 are/would be located in Source-Receptor Area (SRA) 13 (Santa Clarita Valley). Flare 1 is located in SRA 6 (West San Fernando Valley). Therefore, monitoring data from SRA 13 were used for background concentrations unless otherwise noted.

[2] Each displayed concentration is the highest monitored concentration in the indicated year unless otherwise noted.

[3] 98th percentile of 1-hour daily maximum concentrations; used for the NAAQS background concentration.

[4] SO2 was not monitored in SRA 13; therefore, the displayed concentration was obtained from the nearest station that monitors SO2: SRA 1 (Central LA).

[5] 99th percentile of 1-hour daily maximum concentrations; used for the NAAQS background concentration.

[6] 24-hour SO2 concentrations were obtained from the following source: EPA, 2024b.

[7] The background concentration is the highest of the three years unless otherwise noted.

[8] For the 1-hour NAAQS, the background NO2 concentration is the 3-year average of the annual 98th percentile of 1-hour daily maximum concentrations.

[9] For the 1-hour NAAQS, the background SO2 concentration is the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations.

[10] There is no background H2S monitor in the project vicinity.

[11] The concentration in micrograms per cubic meter (ug/m3) is calculated as follows: ug/m3 = ppm x MW / 0.0244. The molecular weights (MW) are 28.01 for CO, 46.0055 for NO2, and 64.066 for SO2.

For the nonattainment pollutants, PM10 and PM2.5, air dispersion modeling was completed to demonstrate compliance with South Coast AQMD's significant change thresholds shown in Table 15. These thresholds define the increases in ambient concentrations that would be considered significant under CEQA, given that the region already exceeds the AAQS for those pollutants. Because the significant change thresholds are relative, rather than absolute, the modeled Proposed Project concentration increments were compared directly to the significance change thresholds without adding background concentrations. Because PM10 is in attainment of the NAAQS but nonattainment for the CAAQS, it was modeled both as an attainment pollutant, for comparison to the NAAQS, and as nonattainment pollutant, for comparison to the South Coast AQMD's significant change thresholds.

Table 15. Significant Change Thresholds for Nonattainment Pollutants

Pollutant	Averaging Period	Significant Change Threshold (ug/m3) [1]
PM10	24-Hour	2.5
	Annual	1
PM2.5	24-Hour	2.5
	Annual	1

Source: South Coast AQMD, 2023.
Notes:
[1] The thresholds correspond to project operation (as opposed to construction).

6.0 Health Risk Assessment

6.1 Modeled Emission Rates

The HRA modeled the TAC emissions increments associated with operation of the Proposed Project flares. The HRA conservatively assumed that all seven flares would operate continuously at their LFG combustion capacities, which total 33,334 scfm (at 50% CH4), even though in practice a substantial portion of the collected LFG would be diverted to the SGP facility except when the SGP facility is temporarily off-line. The modeled TACs included compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025), which is more comprehensive than the TACs required for analysis under South Coast AQMD Rule 1401.

Tables 16 and 17 present the modeled annual and peak hourly TAC emissions increments, respectively, for each flare. The emissions increments represent the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR. The maximum potential flare emissions under the 1999 Final SEIR are also referred to as the baseline emissions. Due to the large table sizes, the baseline and Proposed Project TAC emissions by flare (i.e., before being subtracted to determine the emissions increments) are included in Appendix C of the SEIR. Appendix C includes detailed TAC emission calculation tables for the baseline, Proposed Project, and emissions increment scenarios.

The non-zero annual TAC emissions increments for the existing flares (Flares 1, 3, 9, 10, and 11) in Table 16 result from the baseline emissions being restricted by the site-wide LFG combustion limit of 16,100 scfm (at 50% CH4, averaged over 24 hours) in the current Title V permit. Consequently, the baseline emissions are lower than the proposed emissions for the existing flares, resulting in positive emissions increments. The annual TAC emissions increments for the proposed new flares (Flares 12 and 13) would be equal to the total proposed annual emissions from the proposed new flares because there would be no baseline emissions to subtract.

Unlike the baseline annual TAC emissions discussed in the preceding paragraph, the baseline peak hourly TAC emissions from the existing flares are not restricted by the site-wide limits in the current Title V permit because the site-wide limits are based on 24-hour averages. Therefore, for peak hourly emissions, both the baseline and proposed TAC emissions from the existing flares (Flares 1, 3, 9, 10, and 11) are based on maximum flare capacity which would not change. As a result, there would be no change in peak hourly

TAC emissions from existing Flares 1, 3, 9, 10, and 11, and their emissions increments (shown in Table 17) would be zero. The peak hourly TAC emissions increments for the proposed new flares (Flares 12 and 13) would be equal to the total proposed peak hourly emissions from the proposed new flares because there would be no baseline emissions to subtract.

The TAC emissions associated with the flares include LFG constituents and combustion products. The TAC emission calculation tables in Appendix C identify the specific TACs that are LFG constituents versus combustion products. The TAC emissions of LFG constituents were calculated using AP-42 Section 2.4 (Municipal Solid Waste Landfills), Equation 4 (EPA, 2024c). The flares act as abatement devices for TACs that otherwise would be emitted in much greater quantities in fugitive LFG releases. Specifically, the emission calculation methodology assumed that toxic organic compounds present in the inlet LFG would be reduced by 98 percent through flare combustion, as required by South Coast AQMD Rule 1150.1. Mercury present in the inlet LFG was assumed to pass through the flares unabated; hence, the destruction efficiency for mercury was assumed to be zero. Inlet LFG concentrations were obtained from a combination of onsite LFG test data and default concentrations from Table 2.4.1 of AP-42 Section 2.4. The default concentrations were used only for TACs that were not included in the onsite LFG test data.

The onsite LFG test data were obtained from the monthly LFG sampling program conducted at SCL pursuant to South Coast AQMD Rule 1150.1. Three inlet LFG samples are taken at SCL each month: one upstream of Flare 1, one upstream of Flare 3, and one upstream of Flares 9, 10, and 11. Test results from the 12 most recent months of sampling at the time of analysis, May 2023 through April 2024, were used in the emission calculations. Non-detects were assumed to be present in the LFG at 1/2 the method detection limit (MDL). For each TAC where onsite test data were available, the annual average LFG concentration was determined by selecting the highest annual average (i.e., 12-month average) concentration of the three tested sample streams. The annual average LFG concentrations were used in the calculation of maximum annual emission rates. The maximum LFG concentration was determined by selecting the highest sample result of any LFG stream in any month in the 12-month sampling period. The maximum LFG concentrations were used in the calculation of maximum hourly emission rates.

The TAC emissions of combustion products were calculated using emission factors from AP-42 Section 1.4 (Natural Gas Combustion), Table 1.4-3 (U.S. EPA, 1998). Consistent with South Coast AQMD assumptions in the development of the Flare 12 permit conditions, the calculations assumed an LFG CH4 content of 50 percent by volume (U.S. EPA, 2024e). Emission factors based on the MDL, as reported in AP-42, were used at 1/2 the MDL. In accordance with AP-42, emissions of hydrogen chloride, also a combustion product, were calculated using Equation 4 of AP-42 Section 2.4, a default ionic chlorine LFG concentration of 42 ppmv, and no abatement.

Because NO2, SO2, and CO are included in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values, these three criteria pollutants are also included in Tables 16 and 17 and were included in the health risk assessment.

Table 16. Proposed Project TAC Annual Emissions Increments Modeled in the HRA

	Change in Annual Emissions (lb/yr) [2]							
Toxic Air Contaminant [1]	**Flare 1**	**Flare 3**	**Flare 9**	**Flare 10**	**Flare 11**	**Flare 12 [3]**	**Flare 13 [3]**	**Total**
Acrylonitrile	1.20E+01	1.20E+01	1.44E+01	1.44E+01	1.44E+01	4.63E+01	4.63E+01	1.60E+02
Benz(a)anthracene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzene	6.74E+00	6.74E+00	8.09E+00	8.09E+00	8.09E+00	2.61E+01	2.61E+01	8.99E+01
Benzo(a)pyrene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03
Benzo(b)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzo(k)fluoranthene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Benzyl chloride	9.07E-02	9.07E-02	1.09E-01	1.09E-01	1.09E-01	3.51E-01	3.51E-01	1.21E+00
Carbon disulfide	4.43E-01	4.43E-01	5.31E-01	5.31E-01	5.31E-01	1.71E+00	1.71E+00	5.91E+00
Carbon monoxide	1.50E+04	1.42E+04	3.15E+04	3.15E+04	3.15E+04	7.99E+04	7.99E+04	2.84E+05
Carbon tetrachloride	1.38E-01	1.38E-01	1.65E-01	1.65E-01	1.65E-01	5.33E-01	5.33E-01	1.84E+00
Carbonyl sulfide	6.45E-01	6.45E-01	7.74E-01	7.74E-01	7.74E-01	2.50E+00	2.50E+00	8.61E+00
Chlorobenzene	3.60E-01	3.60E-01	4.32E-01	4.32E-01	4.32E-01	1.39E+00	1.39E+00	4.80E+00
Chloroform	6.41E-02	6.41E-02	7.69E-02	7.69E-02	7.69E-02	2.48E-01	2.48E-01	8.55E-01
Chrysene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Dibenzo(a,h)anthracene	2.04E-04	2.04E-04	2.44E-04	2.44E-04	2.44E-04	7.88E-04	7.88E-04	2.72E-03
1,1-Dichloroethane	8.45E-02	8.45E-02	1.01E-01	1.01E-01	1.01E-01	3.27E-01	3.27E-01	1.13E+00
7,12-Dimethylbenz(a)anthracene	2.72E-03	2.72E-03	3.26E-03	3.26E-03	3.26E-03	1.05E-02	1.05E-02	3.62E-02
Ethyl benzene	1.75E+01	1.75E+01	2.10E+01	2.10E+01	2.10E+01	6.77E+01	6.77E+01	2.33E+02
Ethyl chloride	3.00E+00	3.00E+00	3.60E+00	3.60E+00	3.60E+00	1.16E+01	1.16E+01	4.01E+01
Ethylene dibromide	1.01E-01	1.01E-01	1.21E-01	1.21E-01	1.21E-01	3.91E-01	3.91E-01	1.35E+00
Ethylene dichloride	3.30E+00	3.30E+00	3.96E+00	3.96E+00	3.96E+00	1.28E+01	1.28E+01	4.41E+01
Formaldehyde	2.55E+01	2.55E+01	3.06E+01	3.06E+01	3.06E+01	9.86E+01	9.86E+01	3.40E+02
Hexane	6.32E+02	6.32E+02	7.58E+02	7.58E+02	7.58E+02	2.44E+03	2.44E+03	8.42E+03
Hydrogen chloride	2.74E+03	2.74E+03	3.29E+03	3.29E+03	3.29E+03	1.06E+04	1.06E+04	3.66E+04
Hydrogen sulfide	2.06E+02	2.06E+02	2.47E+02	2.47E+02	2.47E+02	7.98E+02	7.98E+02	2.75E+03
Indeno(1,2,3-cd)pyrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Isopropyl alcohol	1.08E+02	1.08E+02	1.29E+02	1.29E+02	1.29E+02	4.17E+02	4.17E+02	1.44E+03
Mercury	1.04E-01	1.04E-01	1.25E-01	1.25E-01	1.25E-01	4.03E-01	4.03E-01	1.39E+00
Methyl chloroform	1.00E-01	1.00E-01	1.20E-01	1.20E-01	1.20E-01	3.88E-01	3.88E-01	1.34E+00
Methyl ethyl	1.83E+01	1.83E+01	2.20E+01	2.20E+01	2.20E+01	7.10E+01	7.10E+01	2.45E+02

ketone								
3-Methylcholanthrene	3.06E-04	3.06E-04	3.67E-04	3.67E-04	3.67E-04	1.18E-03	1.18E-03	4.08E-03
Methylene chloride	1.92E+00	1.92E+00	2.30E+00	2.30E+00	2.30E+00	7.42E+00	7.42E+00	2.56E+01
Naphthalene	2.07E-01	2.07E-01	2.48E-01	2.48E-01	2.48E-01	8.02E-01	8.02E-01	2.76E+00
Nitrogen dioxide	1.97E+04	1.63E+04	1.03E+04	1.03E+04	1.03E+04	3.33E+04	3.33E+04	1.34E+05
p-Dichlorobenzene	1.38E+00	1.38E+00	1.66E+00	1.66E+00	1.66E+00	5.35E+00	5.35E+00	1.84E+01
Perchloroethylene	2.15E+00	2.15E+00	2.58E+00	2.58E+00	2.58E+00	8.33E+00	8.33E+00	2.87E+01
Sulfur dioxide	1.21E+04	1.03E+04	2.06E+04	2.06E+04	2.06E+04	3.77E+04	3.77E+04	1.60E+05
Tetrachloroethane	6.61E+00	6.61E+00	7.93E+00	7.93E+00	7.93E+00	2.56E+01	2.56E+01	8.82E+01
Toluene	2.95E+01	2.95E+01	3.54E+01	3.54E+01	3.54E+01	1.14E+02	1.14E+02	3.93E+02
Trichloroethene	8.73E-01	8.73E-01	1.05E+00	1.05E+00	1.05E+00	3.38E+00	3.38E+00	1.16E+01
Vinyl chloride	1.96E-01	1.96E-01	2.35E-01	2.35E-01	2.35E-01	7.59E-01	7.59E-01	2.62E+00
Vinylidene chloride	6.94E-02	6.94E-02	8.33E-02	8.33E-02	8.33E-02	2.69E-01	2.69E-01	9.26E-01
Xylenes	2.23E+01	2.23E+01	2.68E+01	2.68E+01	2.68E+01	8.64E+01	8.64E+01	2.98E+02

Legend: lb/yr = pounds per year.

Notes:

[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).

[2] The emissions increments equal the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR.

[3] Flares 12 and 13 would be proposed new flares.

Table 17. Proposed Project TAC Peak Hourly Emissions Increments Modeled in the HRA

	Change in Peak Hour Emissions (lb/hr) [2]							
Toxic Air Contaminant [1]	**Flare 1**	**Flare 3**	**Flare 9**	**Flare 10**	**Flare 11**	**Flare 12 [3]**	**Flare 13 [3]**	**Total**
Acrylonitrile	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03	5.29E-03	1.06E-02
Benz(a)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-03	6.95E-03	1.39E-02
Benzo(a)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-08	9.00E-08	1.80E-07
Benzo(b)fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Benzo(k)fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Benzyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	4.01E-05	8.01E-05
Carbon disulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	3.49E-04	6.99E-04
Carbon monoxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E+00	9.12E+00	1.82E+01
Carbon tetrachloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	6.08E-05	1.22E-04
Carbonyl sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-04	3.80E-04	7.60E-04
Chlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	3.33E-04	6.66E-04
Chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	2.83E-05	5.67E-05
Chrysene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Dibenzo(a,h)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-08	9.00E-08	1.80E-07
1,1-Dichloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	1.03E-04	2.07E-04
7,12-Dimethylbenz(a)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06	1.20E-06	2.40E-06
Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-03	7.73E-03	1.55E-02
Ethyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	1.33E-03	2.65E-03
Ethylene dibromide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	4.46E-05	8.92E-05
Ethylene dichloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	2.82E-03	5.64E-03
Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	1.13E-02	2.25E-02
Hexane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-01	2.79E-01	5.58E-01
Hydrogen chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+00	1.21E+00	2.43E+00
Hydrogen sulfide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-01	1.02E-01	2.04E-01
Indeno(1,2,3-cd)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Isopropyl alcohol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-02	4.75E-02	9.51E-02
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	4.60E-05	9.20E-05
Methyl chloroform	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	1.83E-04	3.66E-04
Methyl ethyl	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-03	8.10E-03	1.62E-02

ketone								
3-Methylcholanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-07	1.35E-07	2.70E-07
Methylene chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	1.75E-03	3.49E-03
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	9.15E-05	1.83E-04
Nitrogen dioxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E+00	3.80E+00	7.60E+00
p-Dichlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	1.31E-03	2.61E-03
Perchloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	2.16E-03	4.32E-03
Sulfur dioxide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E+00	4.31E+00	8.62E+00
Tetrachloroethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	2.92E-03	5.84E-03
Toluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-02	2.67E-02	5.35E-02
Trichloroethene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-04	6.94E-04	1.39E-03
Vinyl chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	2.05E-04	4.09E-04
Vinylidene chloride	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	3.07E-05	6.13E-05
Xylenes	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-02	2.23E-02	4.45E-02

Legend: lb/hr = pounds per hour.

Notes:

[1] Includes compounds listed in the Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values (CARB, 2025).

[2] The emissions increments equal the maximum potential flare emissions under the Proposed Project minus the maximum potential flare emissions under the 1999 Final SEIR. There would be no change in peak hour emissions from existing Flares 1, 3, 9, 10, and 11; therefore, their emissions increments would be zero.

[3] Flares 12 and 13 would be proposed new flares.

6.2 HRA Significance Thresholds

For TACs, an HRA was completed and compared against the South Coast AQMD's CEQA significance thresholds (South Coast AQMD, 2023) that are shown in Table 18. The investigated health risk categories for the Proposed Project are defined in the following paragraphs.

Individual cancer risk is the additional chance for a person to contract cancer from long-term exposure to Proposed Project emissions via inhalation and, where applicable, noninhalation exposure pathways. The HRA assumed exposure durations of 30 years for residents and 25 years for off-site workers. An estimated cancer risk below 10 in a million indicates that significant carcinogenic health effects under CEQA are not expected from the Proposed Project.[2]

Population cancer burden is the expected number of additional cancer cases in the exposed population in areas where the individual cancer risk from the Proposed Project is greater than or equal to 1 in a million (the "zone of impact") based on a 70-year lifetime residential exposure. An estimated cancer burden below 0.5 excess cancer cases indicates that significant population cancer burden is not expected.

The chronic HI evaluates the potential for non-cancer adverse health impacts from long-term exposure to

[2] The proposed new flares (Flares 12 and 13) would also be subject to a cancer risk threshold of 10 in a million for air permitting purposes, per South Coast AQMD Rule 1401(d)(1)(B). This threshold applies to permit units constructed with Best Available Control Technology for Toxics (T-BACT), which describes the proposed new flares.

Proposed Project emissions. Chronic HI is determined by dividing the annual exposure at the receptor by the chronic reference exposure level (REL, defined as the level at which no adverse noncancer health effects are anticipated even in sensitive members of the general population under specified exposure scenarios). A chronic HI below 1.0 indicates that significant adverse noncancer health effects from long-term exposure are not expected.

The acute HI evaluates the potential for non-cancer adverse health impacts from short-term exposure to Project emissions. It is a ratio of maximum 1-hour average concentrations of TACs in the air to established acute RELs. An acute HI below 1.0 indicates that significant adverse non-cancer health effects from short-term exposure are not expected.

Table 18. South Coast AQMD's CEQA Significance Thresholds for TACs

Health Risk Category	Significance Threshold
Maximum Incremental Cancer Risk	≥ 10 in 1 million
Cancer Burden	> 0.5 excess cancer cases (in areas ≥ 1 in 1 million)
Chronic Hazard Index	≥ 1.0 (project increment)
Acute Hazard Index	≥ 1.0 (project increment)

Source: South Coast AQMD's CEQA Air Quality Significance Thresholds (South Coast AQMD, 2023).

6.3 HRA Calculation Methodology

The HRA was performed in accordance with the California Office of Environmental Health Hazard Assessment (OEHHA) Risk Assessment Guidelines (OEHHA, 2015) and South Coast AQMD supplemental guidelines for preparing risk assessments (South Coast AQMD, 2020). All health risks were calculated using the Hot Spots Analysis & Reporting Program (HARP2) Air Dispersion Modeling and Risk Tool, version 22118 (CARB, 2022). As input, HARP2 used (a) unit concentrations from the flare emissions predicted by AERMOD at each modeled grid receptor, and (b) the flare TAC emissions increments listed in Tables 16 and 17. Period average unit concentrations and annual TAC emissions increments were used for cancer risk and chronic HI calculations. Maximum 1-hour unit concentrations and peak hourly TAC emissions increments were used for acute HI calculations.

Cancer risk values for residential receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, dermal contact, and mother's milk ingestion. Residential receptors were assumed to be exposed 24 hours per day, 350 days per year, for 30 years, starting in the 3rd trimester before birth and continuing until age 30. Per OEHHA guidance, a fraction-at-home (FAH) factor of 0.73 was applied once the receptor reaches age 16 until age 30 to account for an average time away from home (at school, work, etc.) of 6.5 hours per day. Exposures were determined using the CARB Risk Management Policy (RMP) Derived method. The RMP Derived method evaluates inhalation exposures with high end (95th percentile) breathing rates for children from the 3rd trimester through age 2, and 80th percentile breathing rates for all other ages. A controlled deposition rate of 0.02 meters per second (m/s) was used for multipathway pollutants. Multipathway pollutants are TACs where exposure would occur not only via inhalation but also via noninhalation pathways. In this study, the multipathway pollutants include benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, 7,12-dimethylbenz(a)anthracene, indeno(1,2,3-cd)pyrene, mercury, and 3-methylcholanthrene.

Cancer risk values for worker receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, and dermal contact. Off-site workers were assumed to be exposed 8 hours per day, 250 days per year, for 25 years. The worker is assumed to be age 16 or older during the entire

exposure period. Exposures were determined using the OEHHA derived method. The OEHHA Derived method uses high end exposure parameters for the top two exposure pathways (one of which is nearly always inhalation) and mean exposure parameters for the remaining pathways (SCAQMD, 2020). A deposition rate of 0.02 m/s was used for multipathway pollutants.

Chronic HI values for residential receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, dermal contact, and mother's milk ingestion. Chronic HI values for worker receptors were calculated for the mandatory exposure pathways of inhalation, soil ingestion, and dermal contact. OEHHA currently does not adjust exposure duration for HI values. The HI calculation used the OEHHA derived method, which, for non-cancer chronic assessments, uses high end exposures for the top three exposure pathways. A controlled deposition rate of 0.02 m/s was used for multipathway pollutants.

Acute HI values for all receptors were calculated for the inhalation pathway using maximum 1-hour TAC concentrations. Because of the short exposure duration, the acute HI does not consider noninhalation exposure pathways.

HARP2 calculated health risk values at each of the receptor grid points modeled in AERMOD. The locations of the maximally exposed individuals (MEIs) were selected from the HARP2 output. For each health risk value, the residential MEI corresponded to the modeled grid receptor with the highest result near existing residences. The worker MEI for cancer risk and chronic HI corresponded to the modeled grid receptor with the highest result near existing offsite businesses, residences, or on-site non-SCL facilities. Because a worker could be at any single location for an hour, the worker MEI for acute HI corresponded to the modeled grid receptor with the highest result anywhere at or beyond the SCL property line or near on-site non-SCL facilities.

7.0 Results

7.1 Air Quality Impact Analysis

Table 19 presents the maximum modeled off-site ambient concentrations of attainment pollutants associated with operation of the seven flares under the Proposed Project. For each pollutant and averaging period, the table compares the predicted total concentration to the most stringent AAQS and identifies the maximum impact location in Universal Transverse Mercator (UTM) coordinates. Figure 7 shows the locations of the maximum pollutant concentrations over a map of the project area.

The total concentration values (fifth column in Table 19), which are compared to the AAQS, equal the sum of the Proposed Project concentration increments (third column) and the background concentrations (fourth column). The Proposed Project concentration increments represent the maximum ambient pollutant concentrations predicted by AERMOD when modeling the emissions increments in Tables 11 and 12. Therefore, the Proposed Project concentration increments represent the increases in pollutant concentrations associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR.

Note that for H2S, there is no ambient monitoring station in the vicinity of the Proposed Project; therefore, no background concentration was added to the modeled result. The modeled H2S concentration increment of 0.1 ug/m3 is less than one percent of the AAQS; therefore, air quality impacts related to H2S emissions are considered less than significant.

The results in Table 19 show that the Proposed Project would not cause an exceedance of an AAQS for

any attainment pollutant during operation.

Table 19. AQIA Results for Attainment Pollutants

Pollutant	Averaging Period	Proposed Project Concentration Increment (ug/m3) [1]	Background Concentration (ug/m3)	Total Concentration (ug/m3)	AAQS (ug/m3) [2]	Exceed-ance?	UTM E (m)	UTM N (m)
NO2	1-Hour CAAQS	3.5	107	110.5	339	No	360173	3800689
	1-Hour NAAQS	3.5	62	65.5	188	No	360173	3800689
	Annual	0.3	19	19.3	57	No	359930	3800691
PM10	24-Hour NAAQS [3]	0.9	47	47.9	150	No	360865	3798554
SO2	1-Hour CAAQS	4.5	20	24.5	655	No	360173	3800689
	1-Hour NAAQS	4.5	5.5	10.0	196	No	360173	3800689
	24-Hour	2.3	6.0	8.3	105	No	360173	3800689
CO	1-Hour	9.5	1,722	1,731.5	23,000	No	360173	3800689
	8-Hour	5.9	804	809.9	10,000	No	360173	3800689
H2S	1-Hour	0.1	Not Available	0.1	42	No	360173	3800689

Legend: ug/m3 = micrograms per cubic meter; AAQS = ambient air quality standard; UTM = Universal Transverse Mercator; NAAQS = national ambient air quality standard; CAAQS = California ambient air quality standard.
Notes:

[1] Each displayed concentration increment is the highest modeled concentration over five years of meteorological data at any receptor on or outside the facility property line. The concentration increment represents the increase in pollutant concentration associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR.

[2] The displayed AAQS is the most stringent of the CAAQS and NAAQS unless specifically indicated under Averaging Period.

[3] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment pollutant (Table 19) and a nonattainment pollutant (Table 20).

Table 20 presents the maximum modeled off-site ambient concentration increments of nonattainment pollutants associated with operation of the seven flares under the Proposed Project. The table compares the Proposed Project concentration increments to the South Coast AQMD significant change thresholds and identifies the maximum impact locations in UTM coordinates. The Proposed Project concentration increments represent the maximum ambient pollutant concentrations predicted by AERMOD when modeling the emissions increments in Tables 11 and 12. Therefore, the Proposed Project concentration increments represent the increase in pollutant concentrations associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR. Figure 7 shows the locations of the maximum pollutant concentration increments over a map of the project area.

The results in Table 20 show that the Proposed Project would not cause an exceedance of a significant change threshold for any nonattainment pollutant.

Table 20. AQIA Results for Nonattainment Pollutants

Pollutant	Averaging Period	Proposed Project Concentration Increment (ug/m3) [1]	Significant Change Threshold (ug/m3)	Exceedance?	UTM E (m)	UTM N (m)
PM10	24-Hour [2]	0.9	2.5	No	360865	3798554
	Annual	0.1	1	No	359930	3800691
PM2.5	24-Hour	0.9	2.5	No	360865	3798554
	Annual	0.1	1	No	359930	3800691

Legend: ug/m3 = micrograms per cubic meter; UTM = Universal Transverse Mercator.

Notes:

[1] Each displayed concentration increment is the highest modeled concentration over five years of meteorological data at any receptor on or outside the facility property line. The concentration increment represents the increase in pollutant concentration associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR.

[2] PM10 is attainment for the 24-hour NAAQS but nonattainment for the 24-hour CAAQS. Therefore, 24-hour PM10 was modeled both as an attainment pollutant (Table 19) and a nonattainment pollutant (Table 20).

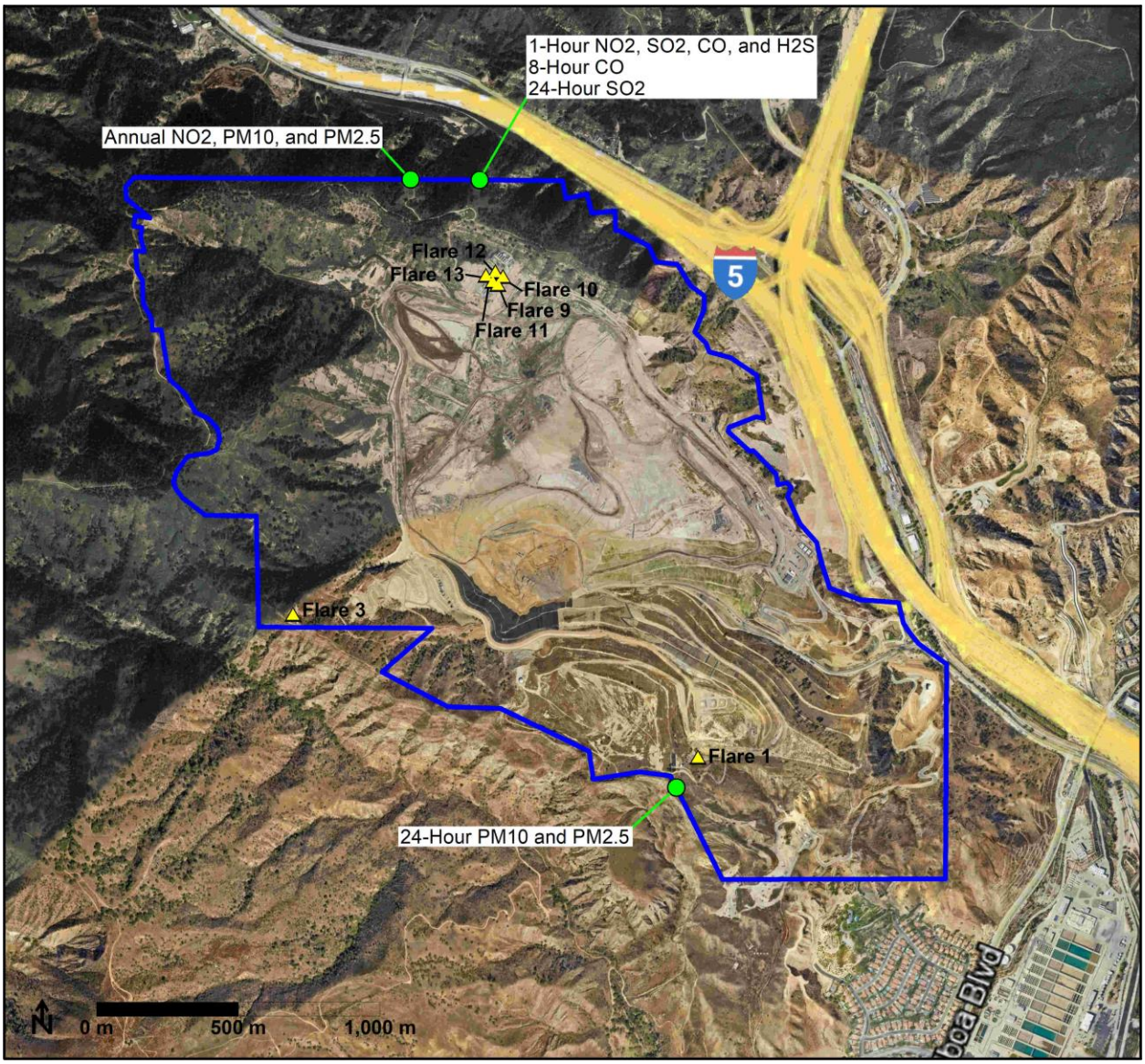


Figure 7. Locations of Maximum Pollutant Concentration Increments

Attachment 1 of this technical report lists the Proposed Project pollutant concentration increments predicted by AERMOD (without adding the background concentrations) for all modeled receptors. The AERMOD modeling files for the AQIA are available upon request to the South Coast AQMD.

7.2 Health Risk Assessment

Table 21 presents the maximum HRA results associated with operation of the seven flares under the Proposed Project. For each health risk category and receptor type, the table compares the maximum Proposed Project increment to the South Coast AQMD threshold and identifies the MEI location in UTM coordinates. The maximum Proposed Project increments represent the maximum health risks predicted by HARP2 when modeling the TAC emissions increments in Tables 16 and 17. Therefore, the maximum Proposed Project increments represent the increase in health risks associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR. Figure 8 shows the locations of the maximum health risk

increments over a map of the project area.

The results in Table 21 show that all health risk increments associated with the Proposed Project operation would be well below the South Coast AQMD's CEQA significance thresholds. Specifically, the maximum individual cancer risk associated with the Proposed Project operation would be 0.11 in a million, at a residential receptor. This risk value would be much less than the significance threshold of 10 in a million. The maximum chronic HI of 0.005, at a worker receptor, would be much less than the threshold of 1.0. The maximum acute HI of 0.02, at a worker receptor, would be much less than the threshold of 1.0.

Table 21. Health Risk Assessment Results

Health Risk Category	Receptor Type	Maximum Proposed Project Increment [1]	Significance Threshold	Exceedance?	UTM E (m)	UTM N (m)
Individual Cancer Risk (per million)	Resident	0.11	10	No	359100	3801300
	Worker	0.014	10	No	359950	3801050
Chronic Hazard Index	Resident	0.002	1.0	No	359100	3801300
	Worker	0.005	1.0	No	359950	3801050
Acute Hazard Index	Resident	0.003	1.0	No	359100	3801200
	Worker	0.02	1.0	No	360173	3800689

Legend: UTM = Universal Transverse Mercator.

Notes:

[1] The maximum Proposed Project increment represents the increase in health risk associated with the seven flares (five existing flares and two proposed flares) operating at their proposed new limits relative to the five existing flares operating under the 1999 Final SEIR.

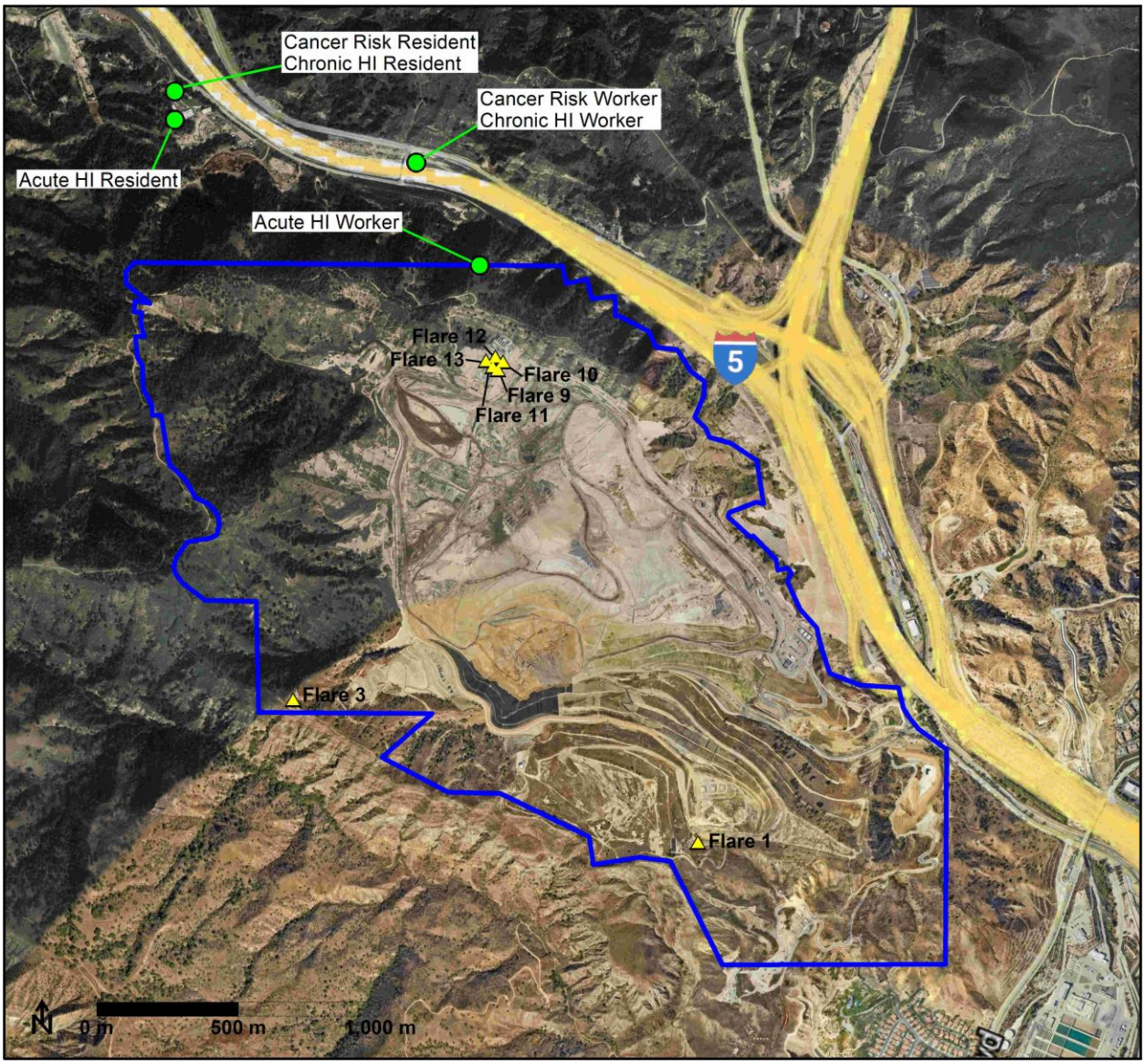


Figure 8. Locations of Maximum Health Risk Increments

According to South Coast AQMD risk assessment guidance, cancer burden should be quantified for the population living within the 1 in a million individual cancer risk contour, based on a 70-year lifetime exposure period. However, the HRA analysis showed that no offsite receptor would have a 70-year cancer risk increment greater than or equal to 1 in a million. Therefore, the cancer burden was not calculated.

Attachment 2 of this technical report lists the Proposed Project health risk increments predicted by HARP2 for all modeled receptors. The AERMOD and HARP2 modeling files for the HRA are available upon request to the South Coast AQMD.

8.0 Conclusions

This AQIA evaluated the Proposed Project's localized impacts on ambient criteria pollutant concentrations

during operation. The AQIA determined that the Proposed Project operation would not exceed the AAQS for attainment pollutants and would not exceed the significant change thresholds for nonattainment pollutants.

This HRA also evaluated the Proposed Project's health risk impacts associated with operational TAC emissions. The HRA determined that the Proposed Project operation would not exceed the significance thresholds for cancer risk and noncancer health effects at any residential receptor, offsite worker receptor, or onsite worker receptor at a non-SCL facility.

9.0 References

American Petroleum Institute (API), 2021. Compendium of Greenhouse Gas Emissions Methodologies for the Natural Gas and Oil Industry. November. Section A.1.3, Page A-4. Website: https://www.api.org/-/media/files/policy/esg/ghg/2021-api-ghg-compendium-110921.pdf. Accessed December 2024.

CARB, 2022. HARP Air Dispersion Modeling and Risk Tool (dated 22118). April 28. Available: https://ww2.arb.ca.gov/resources/documents/harp-air-dispersion-modeling-and-risk-tool. Accessed June 2024.

CARB, 2024. Table of Ambient Air Quality Standards. July 16. Available: https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf. Accessed December 2024.

CARB, 2025. Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. January 7. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable01072025v2.pdf. Accessed January 2025.

City of Los Angeles, 1999. *Final Subsequent Environmental Impact Report, Sunshine Canyon Landfill*. State Clearinghouse Number 92041052. SEIR 91-0377-ZC /GPA. Department of City Planning. June 1998. Certified December 8, 1999.

OEHHA 2015. *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February. Available: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed August 2024.

South Coast AQMD, 2020. *AB 2588 and Rule 1402 Supplemental Guidelines (Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act)*. October. Available: https://www.aqmd.gov/docs/default-source/planning/risk-assessment/forms-and-guidelines/ab-2588-supplemental-guidelines.pdf?sfvrsn=19. Accessed August 2024.

South Coast AQMD, 2023. South Coast AQMD Air Quality Significance Thresholds. March. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/south-coast-aqmd-air-quality-significance-thresholds.pdf?sfvrsn=25. Accessed August 2024.

South Coast AQMD, 2024. South Coast AQMD Modeling Guidance for AERMOD. Available: https://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance. Accessed December 2024.

South Coast AQMD, 2024b. Historical Data by Year. 2021, 2022, and 2023 Air Quality Data Tables. Available: https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year. Accessed June 2024.

South Coast AQMD, 2024c. Health Risk Assessment Tool and AERMOD-Ready Meteorological Data Files. Available: https://www.aqmd.gov/assets/aermet/AERMET_files_And_HRA_Tool.html. Accessed December 2024.

U.S. Environmental Protection Agency (EPA), 1998. *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)*. Section 1.4, Natural Gas Combustion. July. Available: https://www.epa.gov/sites/default/files/2020-09/documents/1.4_natural_gas_combustion.pdf. Accessed May 2024.

U.S. Environmental Protection Agency (EPA), 2004. Support Center for Regulatory Atmospheric Modeling (SCRAM). Air Quality Dispersion Modeling – Related Model Support Programs. BPIPPRM (v04274) - Regulatory. December 7. Available: https://www.epa.gov/scram/air-quality-dispersion-modeling-related-model-support-programs#bpipprm. Accessed June 2024.

U.S. Environmental Protection Agency (EPA), 2018. Support Center for Regulatory Atmospheric Modeling (SCRAM). Air Quality Dispersion Modeling – Related Model Support Programs. AERMAP – Version 18081. March 22. Available: https://www.epa.gov/scram/air-quality-dispersion-modeling-related-model-support-programs#aermap. Accessed June 2024.

U.S. Environmental Protection Agency (EPA), 2022. Support Center for Regulatory Atmospheric Modeling (SCRAM). Meteorological Processors and Accessory Programs. AERMET. Version 22112. April 22. https://www.epa.gov/scram/meteorological-processors-and-accessory-programs#aermet. Accessed December 2024.

U.S. Environmental Protection Agency (EPA), 2024. NAAQS Table. December 16. Primary standards. Available: https://www.epa.gov/criteria-air-pollutants/naaqs-table. Accessed December 2024.

U.S. Environmental Protection Agency (EPA), 2024b. Interactive Map of Air Quality Monitors. Daily Data Download. SO2 - Active: Los Angeles-North Main Street. Available: https://www.epa.gov/outdoor-air-quality-data/interactive-map-air-quality-monitors. Accessed June 2024.

U.S. Environmental Protection Agency (EPA), 2024c. *Compilation of Air Pollutant Emissions Factors from Stationary Sources (AP-42)*. Section 2.4, Municipal Solid Waste Landfills. August. Available: https://www.epa.gov/system/files/documents/2024-08/c2s4_2024_final_0.pdf. Accessed December 2024.

U.S. Environmental Protection Agency (EPA), 2024d. Support Center for Regulatory Atmospheric Modeling (SCRAM). Air Quality Dispersion Modeling - Preferred and Recommended Models. AERMOD Modeling System. Version 24142. November 20. Available: https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models#aermod. Accessed December 2024.

U.S. Environmental Protection Agency (EPA), 2024e. Basic Information about Landfill Gas. September 20. Website: https://www.epa.gov/lmop/basic-information-about-landfill-gas. Accessed December 2024.

Attachment 1

Criteria Pollutant Concentration Increments Predicted by AERMOD at All Modeled Receptors

Highlighted cells represent the maximum AERMOD modeled concentrations

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1	358957	3800698	8.63E-01	5.99E-02	9.34E-02	2.34E-02	9.34E-02	2.34E-02	1.08E+00	3.27E-01	2.30E+00	6.85E-01	2.57E-02
2	359006	3800698	9.05E-01	5.62E-02	8.79E-02	2.18E-02	8.79E-02	2.18E-02	1.13E+00	3.07E-01	2.41E+00	7.09E-01	2.70E-02
3	359054	3800698	9.48E-01	5.20E-02	8.32E-02	2.01E-02	8.32E-02	2.01E-02	1.19E+00	2.89E-01	2.53E+00	7.32E-01	2.82E-02
4	359103	3800697	9.86E-01	5.34E-02	8.72E-02	2.08E-02	8.72E-02	2.08E-02	1.24E+00	3.05E-01	2.63E+00	7.70E-01	2.94E-02
5	359152	3800697	1.02E+00	5.99E-02	1.01E-01	2.36E-02	1.01E-01	2.36E-02	1.28E+00	3.54E-01	2.73E+00	8.32E-01	3.05E-02
6	359200	3800696	1.06E+00	6.95E-02	1.21E-01	2.77E-02	1.21E-01	2.77E-02	1.33E+00	4.23E-01	2.82E+00	9.09E-01	3.15E-02
7	359249	3800696	1.09E+00	8.17E-02	1.46E-01	3.31E-02	1.46E-01	3.31E-02	1.36E+00	5.08E-01	2.90E+00	9.92E-01	3.24E-02
8	359298	3800696	1.11E+00	9.11E-02	1.63E-01	3.72E-02	1.63E-01	3.72E-02	1.39E+00	5.67E-01	2.95E+00	1.17E+00	3.30E-02
9	359346	3800695	1.11E+00	9.21E-02	1.63E-01	3.78E-02	1.63E-01	3.78E-02	1.40E+00	5.67E-01	2.97E+00	1.10E+00	3.32E-02
10	359395	3800695	1.10E+00	8.60E-02	1.49E-01	3.52E-02	1.49E-01	3.52E-02	1.39E+00	5.21E-01	2.94E+00	1.12E+00	3.29E-02
11	359443	3800695	1.24E+00	8.59E-02	1.46E-01	3.54E-02	1.46E-01	3.54E-02	1.56E+00	5.10E-01	3.31E+00	1.23E+00	3.70E-02
12	359492	3800694	1.39E+00	9.07E-02	1.50E-01	3.75E-02	1.50E-01	3.75E-02	1.75E+00	5.25E-01	3.71E+00	1.34E+00	4.14E-02
13	359541	3800694	1.53E+00	1.09E-01	1.72E-01	4.57E-02	1.72E-01	4.57E-02	1.93E+00	6.04E-01	4.09E+00	1.68E+00	4.57E-02
14	359589	3800693	1.85E+00	1.40E-01	2.21E-01	5.90E-02	2.21E-01	5.90E-02	2.33E+00	7.75E-01	4.94E+00	2.19E+00	5.52E-02
15	359638	3800693	2.21E+00	1.95E-01	3.10E-01	8.30E-02	3.10E-01	8.30E-02	2.78E+00	1.08E+00	5.90E+00	2.84E+00	6.59E-02
16	359687	3800693	2.56E+00	2.16E-01	3.63E-01	9.27E-02	3.63E-01	9.27E-02	3.22E+00	1.28E+00	6.84E+00	3.49E+00	7.64E-02
17	359735	3800692	2.75E+00	2.48E-01	4.68E-01	1.07E-01	4.68E-01	1.07E-01	3.46E+00	1.64E+00	7.33E+00	4.04E+00	8.19E-02
18	359784	3800692	3.10E+00	2.85E-01	5.76E-01	1.23E-01	5.76E-01	1.23E-01	3.89E+00	2.02E+00	8.26E+00	4.31E+00	9.23E-02
19	359833	3800692	2.78E+00	2.91E-01	5.43E-01	1.26E-01	5.43E-01	1.26E-01	3.50E+00	1.90E+00	7.41E+00	4.01E+00	8.28E-02
20	359881	3800691	2.48E+00	3.00E-01	5.62E-01	1.30E-01	5.62E-01	1.30E-01	3.13E+00	1.97E+00	6.62E+00	4.53E+00	7.40E-02
21	359930	3800691	2.90E+00	3.31E-01	6.17E-01	1.43E-01	6.17E-01	1.43E-01	3.64E+00	2.17E+00	7.72E+00	4.96E+00	8.63E-02
22	359979	3800690	2.58E+00	2.68E-01	3.75E-01	1.16E-01	3.75E-01	1.16E-01	3.24E+00	1.32E+00	6.87E+00	3.70E+00	7.68E-02
23	360027	3800690	1.99E+00	2.36E-01	3.37E-01	1.02E-01	3.37E-01	1.02E-01	2.51E+00	1.19E+00	5.32E+00	3.33E+00	5.94E-02
24	360076	3800690	2.02E+00	2.20E-01	3.56E-01	9.50E-02	3.56E-01	9.50E-02	2.54E+00	1.27E+00	5.38E+00	3.55E+00	6.01E-02
25	360124	3800689	3.00E+00	2.46E-01	4.33E-01	1.06E-01	4.33E-01	1.06E-01	3.77E+00	1.53E+00	7.99E+00	4.00E+00	8.93E-02
26	360173	3800689	3.54E+00	2.55E-01	6.49E-01	1.10E-01	6.49E-01	1.10E-01	4.46E+00	2.28E+00	9.45E+00	5.88E+00	1.06E-01
27	360222	3800688	2.83E+00	1.52E-01	3.83E-01	6.50E-02	3.83E-01	6.50E-02	3.56E+00	1.39E+00	7.53E+00	3.40E+00	8.42E-02
28	360270	3800688	1.89E+00	9.50E-02	2.23E-01	4.00E-02	2.23E-01	4.00E-02	2.38E+00	8.14E-01	5.05E+00	2.11E+00	5.64E-02
29	360319	3800688	1.79E+00	7.58E-02	1.58E-01	3.16E-02	1.58E-01	3.16E-02	2.25E+00	5.54E-01	4.77E+00	1.70E+00	5.33E-02
30	360368	3800687	1.63E+00	6.42E-02	1.51E-01	2.65E-02	1.51E-01	2.65E-02	2.05E+00	5.34E-01	4.35E+00	1.64E+00	4.86E-02
31	360416	3800687	1.50E+00	5.61E-02	1.54E-01	2.30E-02	1.54E-01	2.30E-02	1.89E+00	5.32E-01	4.00E+00	1.53E+00	4.48E-02
32	360465	3800687	1.27E+00	5.01E-02	1.54E-01	2.04E-02	1.54E-01	2.04E-02	1.60E+00	5.40E-01	3.39E+00	1.47E+00	3.78E-02
33	360471	3800655	1.32E+00	5.03E-02	1.54E-01	2.05E-02	1.54E-01	2.05E-02	1.66E+00	5.46E-01	3.51E+00	1.50E+00	3.93E-02
34	360477	3800624	1.63E+00	5.05E-02	1.47E-01	2.06E-02	1.47E-01	2.06E-02	2.05E+00	5.26E-01	4.35E+00	1.92E+00	4.86E-02
35	360514	3800632	1.65E+00	4.69E-02	1.59E-01	1.90E-02	1.59E-01	1.90E-02	2.07E+00	5.43E-01	4.39E+00	2.09E+00	4.90E-02
36	360551	3800640	1.58E+00	4.37E-02	1.67E-01	1.77E-02	1.67E-01	1.77E-02	1.98E+00	5.75E-01	4.21E+00	2.16E+00	4.70E-02
37	360559	3800606	1.61E+00	4.42E-02	1.93E-01	1.78E-02	1.93E-01	1.78E-02	2.02E+00	6.71E-01	4.29E+00	2.44E+00	4.80E-02
38	360568	3800572	1.53E+00	4.49E-02	2.05E-01	1.81E-02	2.05E-01	1.81E-02	1.92E+00	7.23E-01	4.07E+00	2.52E+00	4.55E-02
39	360609	3800576	1.39E+00	4.25E-02	1.91E-01	1.71E-02	1.91E-01	1.71E-02	1.75E+00	6.76E-01	3.71E+00	2.31E+00	4.15E-02
40	360650	3800580	1.29E+00	4.05E-02	1.74E-01	1.63E-02	1.74E-01	1.63E-02	1.62E+00	6.18E-01	3.43E+00	2.07E+00	3.84E-02
41	360651	3800545	1.35E+00	4.20E-02	1.59E-01	1.69E-02	1.59E-01	1.69E-02	1.69E+00	5.69E-01	3.59E+00	1.83E+00	4.01E-02
42	360666	3800509	1.30E+00	4.29E-02	1.78E-01	1.74E-02	1.78E-01	1.74E-02	1.63E+00	6.20E-01	3.47E+00	1.86E+00	3.88E-02
43	360700	3800492	1.26E+00	4.22E-02	1.82E-01	1.71E-02	1.82E-01	1.71E-02	1.58E+00	6.42E-01	3.36E+00	1.82E+00	3.75E-02
44	360734	3800474	1.16E+00	4.13E-02	1.77E-01	1.67E-02	1.77E-01	1.67E-02	1.46E+00	6.29E-01	3.09E+00	1.76E+00	3.46E-02
45	360769	3800457	1.11E+00	4.03E-02	1.65E-01	1.63E-02	1.65E-01	1.63E-02	1.40E+00	5.88E-01	2.97E+00	1.84E+00	3.32E-02
46	360782	3800429	1.10E+00	4.07E-02	1.77E-01	1.65E-02	1.77E-01	1.65E-02	1.39E+00	6.22E-01	2.94E+00	1.95E+00	3.29E-02
47	360794	3800400	1.11E+00	4.08E-02	1.83E-01	1.65E-02	1.83E-01	1.65E-02	1.40E+00	6.44E-01	2.97E+00	2.00E+00	3.32E-02
48	360831	3800396	1.06E+00	3.90E-02	1.74E-01	1.58E-02	1.74E-01	1.58E-02	1.33E+00	6.14E-01	2.82E+00	1.89E+00	3.15E-02
49	360868	3800393	1.00E+00	3.72E-02	1.65E-01	1.51E-02	1.65E-01	1.51E-02	1.26E+00	5.84E-01	2.67E+00	1.79E+00	2.98E-02
50	360893	3800355	9.73E-01	3.68E-02	1.57E-01	1.49E-02	1.57E-01	1.49E-02	1.22E+00	5.57E-01	2.59E+00	1.70E+00	2.90E-02
51	360917	3800317	9.64E-01	3.62E-02	1.42E-01	1.46E-02	1.42E-01	1.46E-02	1.21E+00	5.04E-01	2.57E+00	1.54E+00	2.87E-02
52	360940	3800299	9.39E-01	3.53E-02	1.32E-01	1.42E-02	1.32E-01	1.42E-02	1.18E+00	4.68E-01	2.50E+00	1.43E+00	2.80E-02
53	360964	3800281	9.01E-01	3.45E-02	1.21E-01	1.39E-02	1.21E-01	1.39E-02	1.13E+00	4.32E-01	2.40E+00	1.33E+00	2.68E-02
54	360964	3800235	8.70E-01	3.48E-02	1.18E-01	1.40E-02	1.18E-01	1.40E-02	1.09E+00	4.12E-01	2.32E+00	1.23E+00	2.59E-02
55	360947	3800195	9.03E-01	3.56E-02	1.35E-01	1.43E-02	1.35E-01	1.43E-02	1.13E+00	4.74E-01	2.41E+00	1.36E+00	2.69E-02
56	360931	3800155	8.82E-01	3.69E-02	1.47E-01	1.48E-02	1.47E-01	1.48E-02	1.11E+00	5.18E-01	2.35E+00	1.50E+00	2.63E-02
57	360950	3800135	8.44E-01	3.60E-02	1.43E-01	1.45E-02	1.43E-01	1.45E-02	1.06E+00	5.07E-01	2.25E+00	1.47E+00	2.52E-02
58	360970	3800116	8.28E-01	3.48E-02	1.39E-01	1.39E-02	1.39E-01	1.39E-02	1.04E+00	4.91E-01	2.21E+00	1.43E+00	2.47E-02
59	360981	3800085	8.15E-01	3.41E-02	1.34E-01	1.36E-02	1.34E-01	1.36E-02	1.02E+00	4.76E-01	2.17E+00	1.39E+00	2.43E-02
60	361019	3800074	7.69E-01	3.27E-02	1.28E-01	1.30E-02	1.28E-01	1.30E-02	9.64E-01	4.52E-01	2.05E+00	1.32E+00	2.29E-02
61	361057	3800063	7.25E-01	3.14E-02	1.22E-01	1.25E-02	1.22E-01	1.25E-02	9.09E-01	4.29E-01	1.93E+00	1.25E+00	2.16E-02
62	361088	3800043	6.90E-01	3.04E-02	1.16E-01	1.21E-02	1.16E-01	1.21E-02	8.65E-01	4.08E-01	1.84E+00	1.19E+00	2.06E-02
63	361118	3800023	6.71E-01	2.95E-02	1.10E-01	1.18E-02	1.10E-01	1.18E-02	8.42E-01	3.88E-01	1.79E+00	1.13E+00	2.00E-02
64	361149	3800003	6.52E-01	2.86E-02	1.05E-01	1.14E-02	1.05E-01	1.14E-02	8.18E-01	3.69E-01	1.74E+00	1.07E+00	1.94E-02
65	361155	3799965	6.54E-01	2.82E-02	9.83E-02	1.12E-02	9.83E-02	1.12E-02	8.20E-01	3.47E-01	1.74E+00	1.02E+00	1.95E-02
66	361161	3799927	6.28E-01	2.78E-02	9.06E-02	1.10E-02	9.06E-02	1.10E-02	7.87E-01	3.20E-01	1.67E+00	9.49E-01	1.87E-02
67	361166	3799889	5.94E-01	2.73E-02	8.50E-02	1.08E-02	8.50E-02	1.08E-02	7.44E-01	2.98E-01	1.58E+00	8.68E-01	1.77E-02
68	361172	3799851	5.87E-01	2.68E-02	8.19E-02	1.06E-02	8.19E-02	1.06E-02	7.36E-01	2.87E-01	1.57E+00	7.81E-01	1.75E-02
69	361147	3799857	6.04E-01	2.73E-02	8.38E-02	1.08E-02	8.38E-02	1.08E-02	7.57E-01	2.94E-01	1.61E+00	7.92E-01	1.80E-02
70	361115	3799844	6.10E-01	2.77E-02	8.40E-02	1.09E-02	8.40E-02	1.09E-02	7.65E-01	2.95E-01	1.63E+00	7.52E-01	1.82E-02
71	361083	3799832	6.27E-01	2.81E-02	8.33E-02	1.10E-02	8.33E-02	1.10E-02	7.87E-01	2.92E-01	1.67E+00	7.02E-01	1.87E-02
72	361051	3799820	6.42E-01	2.86E-02	8.15E-02	1.10E-02	8.15E-02	1.10E-02	8.06E-01	2.86E-01	1.71E+00	6.45E-01	1.91E-02
73	361048	3799804	6.31E-01	2.85E-02	7.85E-02	1.09E-02	7.85E-02	1.09E-02	7.91E-01	2.75E-01	1.68E+00	5.98E-01	1.88E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
74	361073	3799781	6.03E-01	2.79E-02	7.46E-02	1.06E-02	7.46E-02	1.06E-02	7.56E-01	2.61E-01	1.61E+00	5.58E-01	1.80E-02
75	361098	3799759	5.77E-01	2.73E-02	7.10E-02	1.04E-02	7.10E-02	1.04E-02	7.23E-01	2.48E-01	1.54E+00	5.21E-01	1.72E-02
76	361137	3799738	5.69E-01	2.65E-02	6.83E-02	1.01E-02	6.83E-02	1.01E-02	7.12E-01	2.38E-01	1.52E+00	5.01E-01	1.70E-02
77	361164	3799710	5.61E-01	2.60E-02	6.45E-02	9.93E-03	6.45E-02	9.93E-03	7.02E-01	2.25E-01	1.49E+00	4.60E-01	1.67E-02
78	361190	3799682	5.50E-01	2.56E-02	6.12E-02	9.77E-03	6.12E-02	9.77E-03	6.89E-01	2.13E-01	1.47E+00	4.24E-01	1.64E-02
79	361217	3799654	5.39E-01	2.52E-02	5.82E-02	9.64E-03	5.82E-02	9.64E-03	6.75E-01	2.02E-01	1.44E+00	3.98E-01	1.61E-02
80	361223	3799617	5.14E-01	2.51E-02	5.37E-02	9.58E-03	5.37E-02	9.58E-03	6.42E-01	1.86E-01	1.37E+00	3.62E-01	1.53E-02
81	361254	3799625	5.29E-01	2.48E-02	5.57E-02	9.49E-03	5.57E-02	9.49E-03	6.61E-01	1.93E-01	1.41E+00	3.76E-01	1.58E-02
82	361270	3799609	5.22E-01	2.46E-02	5.43E-02	9.44E-03	5.43E-02	9.44E-03	6.52E-01	1.88E-01	1.39E+00	3.64E-01	1.56E-02
83	361258	3799574	4.92E-01	2.47E-02	4.99E-02	9.45E-03	4.99E-02	9.45E-03	6.15E-01	1.72E-01	1.31E+00	3.35E-01	1.47E-02
84	361272	3799543	4.71E-01	2.46E-02	4.70E-02	9.39E-03	4.70E-02	9.39E-03	5.89E-01	1.62E-01	1.26E+00	3.18E-01	1.40E-02
85	361287	3799512	4.50E-01	2.45E-02	4.44E-02	9.35E-03	4.44E-02	9.35E-03	5.63E-01	1.52E-01	1.20E+00	3.04E-01	1.34E-02
86	361301	3799481	4.54E-01	2.45E-02	4.19E-02	9.31E-03	4.19E-02	9.31E-03	5.68E-01	1.43E-01	1.21E+00	2.94E-01	1.35E-02
87	361330	3799448	4.46E-01	2.43E-02	4.02E-02	9.25E-03	4.02E-02	9.25E-03	5.58E-01	1.37E-01	1.19E+00	2.81E-01	1.33E-02
88	361359	3799414	4.38E-01	2.41E-02	3.87E-02	9.19E-03	3.87E-02	9.19E-03	5.48E-01	1.31E-01	1.17E+00	2.69E-01	1.31E-02
89	361367	3799381	4.52E-01	2.41E-02	3.65E-02	9.19E-03	3.65E-02	9.19E-03	5.65E-01	1.23E-01	1.21E+00	2.62E-01	1.35E-02
90	361375	3799348	4.64E-01	2.42E-02	3.45E-02	9.20E-03	3.45E-02	9.20E-03	5.80E-01	1.18E-01	1.24E+00	2.61E-01	1.38E-02
91	361391	3799301	4.72E-01	2.42E-02	3.25E-02	9.20E-03	3.25E-02	9.20E-03	5.90E-01	1.11E-01	1.26E+00	2.71E-01	1.41E-02
92	361406	3799255	4.77E-01	2.42E-02	3.23E-02	9.20E-03	3.23E-02	9.20E-03	5.96E-01	1.09E-01	1.27E+00	2.78E-01	1.42E-02
93	361442	3799241	4.50E-01	2.40E-02	3.18E-02	9.13E-03	3.18E-02	9.13E-03	5.63E-01	1.07E-01	1.20E+00	2.60E-01	1.34E-02
94	361478	3799227	4.25E-01	2.37E-02	3.15E-02	9.06E-03	3.15E-02	9.06E-03	5.32E-01	1.05E-01	1.13E+00	2.43E-01	1.27E-02
95	361513	3799214	4.02E-01	2.35E-02	3.19E-02	9.00E-03	3.19E-02	9.00E-03	5.02E-01	1.06E-01	1.07E+00	2.29E-01	1.20E-02
96	361558	3799210	3.83E-01	2.32E-02	3.31E-02	8.93E-03	3.31E-02	8.93E-03	4.78E-01	1.10E-01	1.02E+00	2.21E-01	1.14E-02
97	361603	3799207	3.90E-01	2.30E-02	3.42E-02	8.87E-03	3.42E-02	8.87E-03	4.87E-01	1.14E-01	1.04E+00	2.19E-01	1.16E-02
98	361648	3799204	3.95E-01	2.28E-02	3.52E-02	8.82E-03	3.52E-02	8.82E-03	4.92E-01	1.17E-01	1.05E+00	2.17E-01	1.18E-02
99	361656	3799168	3.84E-01	2.28E-02	3.38E-02	8.84E-03	3.38E-02	8.84E-03	4.79E-01	1.12E-01	1.02E+00	2.15E-01	1.15E-02
100	361665	3799132	3.73E-01	2.29E-02	3.27E-02	8.85E-03	3.27E-02	8.85E-03	4.65E-01	1.10E-01	9.94E-01	2.23E-01	1.11E-02
101	361685	3799101	3.64E-01	2.29E-02	3.28E-02	8.86E-03	3.28E-02	8.86E-03	4.54E-01	1.10E-01	9.71E-01	2.29E-01	1.09E-02
102	361701	3799080	3.59E-01	2.29E-02	3.28E-02	8.86E-03	3.28E-02	8.86E-03	4.48E-01	1.10E-01	9.58E-01	2.32E-01	1.07E-02
103	361718	3799060	3.55E-01	2.30E-02	3.29E-02	8.87E-03	3.29E-02	8.87E-03	4.42E-01	1.10E-01	9.45E-01	2.35E-01	1.06E-02
104	361751	3799036	3.51E-01	2.29E-02	3.30E-02	8.86E-03	3.30E-02	8.86E-03	4.38E-01	1.11E-01	9.36E-01	2.35E-01	1.05E-02
105	361784	3799012	3.48E-01	2.29E-02	3.32E-02	8.86E-03	3.32E-02	8.86E-03	4.33E-01	1.11E-01	9.27E-01	2.35E-01	1.04E-02
106	361817	3798988	3.44E-01	2.29E-02	3.34E-02	8.86E-03	3.34E-02	8.86E-03	4.28E-01	1.12E-01	9.17E-01	2.36E-01	1.03E-02
107	361817	3798940	3.27E-01	2.31E-02	3.49E-02	8.91E-03	3.49E-02	8.91E-03	4.07E-01	1.16E-01	8.72E-01	2.48E-01	9.74E-03
108	361817	3798893	3.24E-01	2.33E-02	3.64E-02	8.96E-03	3.64E-02	8.96E-03	4.04E-01	1.21E-01	8.65E-01	2.60E-01	9.66E-03
109	361816	3798846	3.36E-01	2.35E-02	3.78E-02	9.02E-03	3.78E-02	9.02E-03	4.18E-01	1.26E-01	8.95E-01	2.69E-01	1.00E-02
110	361816	3798799	3.45E-01	2.37E-02	3.90E-02	9.07E-03	3.90E-02	9.07E-03	4.29E-01	1.30E-01	9.19E-01	2.78E-01	1.03E-02
111	361816	3798751	3.51E-01	2.39E-02	4.01E-02	9.12E-03	4.01E-02	9.12E-03	4.38E-01	1.34E-01	9.37E-01	2.89E-01	1.05E-02
112	361816	3798704	3.56E-01	2.41E-02	4.09E-02	9.16E-03	4.09E-02	9.16E-03	4.43E-01	1.37E-01	9.49E-01	2.98E-01	1.06E-02
113	361815	3798657	3.58E-01	2.42E-02	4.16E-02	9.19E-03	4.16E-02	9.19E-03	4.46E-01	1.39E-01	9.56E-01	3.07E-01	1.07E-02
114	361815	3798610	3.59E-01	2.43E-02	4.21E-02	9.21E-03	4.21E-02	9.21E-03	4.46E-01	1.41E-01	9.57E-01	3.14E-01	1.07E-02
115	361815	3798563	3.57E-01	2.43E-02	4.24E-02	9.22E-03	4.24E-02	9.22E-03	4.44E-01	1.42E-01	9.53E-01	3.19E-01	1.07E-02
116	361815	3798515	3.54E-01	2.43E-02	4.26E-02	9.22E-03	4.26E-02	9.22E-03	4.40E-01	1.42E-01	9.44E-01	3.24E-01	1.06E-02
117	361814	3798468	3.50E-01	2.42E-02	4.26E-02	9.21E-03	4.26E-02	9.21E-03	4.35E-01	1.42E-01	9.32E-01	3.27E-01	1.04E-02
118	361814	3798421	3.44E-01	2.42E-02	4.25E-02	9.20E-03	4.25E-02	9.20E-03	4.27E-01	1.42E-01	9.16E-01	3.29E-01	1.02E-02
119	361814	3798374	3.37E-01	2.41E-02	4.23E-02	9.18E-03	4.23E-02	9.18E-03	4.18E-01	1.41E-01	8.97E-01	3.29E-01	1.00E-02
120	361814	3798326	3.29E-01	2.40E-02	4.19E-02	9.16E-03	4.19E-02	9.16E-03	4.08E-01	1.40E-01	8.76E-01	3.29E-01	9.79E-03
121	361813	3798279	3.24E-01	2.39E-02	4.15E-02	9.13E-03	4.15E-02	9.13E-03	4.02E-01	1.38E-01	8.63E-01	3.27E-01	9.65E-03
122	361813	3798232	3.20E-01	2.37E-02	4.11E-02	9.10E-03	4.11E-02	9.10E-03	3.97E-01	1.36E-01	8.52E-01	3.29E-01	9.52E-03
123	361764	3798232	3.25E-01	2.40E-02	4.01E-02	9.21E-03	4.01E-02	9.21E-03	4.05E-01	1.33E-01	8.68E-01	3.38E-01	9.70E-03
124	361715	3798232	3.34E-01	2.44E-02	3.90E-02	9.33E-03	3.90E-02	9.33E-03	4.15E-01	1.30E-01	8.89E-01	3.46E-01	9.94E-03
125	361666	3798231	3.40E-01	2.48E-02	3.96E-02	9.46E-03	3.96E-02	9.46E-03	4.22E-01	1.38E-01	9.06E-01	3.52E-01	1.01E-02
126	361617	3798231	3.44E-01	2.52E-02	4.20E-02	9.61E-03	4.20E-02	9.61E-03	4.27E-01	1.46E-01	9.17E-01	3.56E-01	1.02E-02
127	361568	3798231	3.68E-01	2.57E-02	4.46E-02	9.78E-03	4.46E-02	9.78E-03	4.59E-01	1.55E-01	9.81E-01	3.57E-01	1.10E-02
128	361519	3798231	4.08E-01	2.62E-02	4.75E-02	9.96E-03	4.75E-02	9.96E-03	5.09E-01	1.64E-01	1.09E+00	3.57E-01	1.22E-02
129	361470	3798231	4.46E-01	2.67E-02	5.07E-02	1.02E-02	5.07E-02	1.02E-02	5.58E-01	1.75E-01	1.19E+00	3.63E-01	1.33E-02
130	361421	3798231	4.82E-01	2.74E-02	5.65E-02	1.04E-02	5.65E-02	1.04E-02	6.02E-01	1.99E-01	1.28E+00	3.85E-01	1.44E-02
131	361372	3798231	5.12E-01	2.81E-02	6.66E-02	1.06E-02	6.66E-02	1.06E-02	6.40E-01	2.34E-01	1.37E+00	4.27E-01	1.53E-02
132	361323	3798231	5.36E-01	2.90E-02	7.99E-02	1.10E-02	7.99E-02	1.10E-02	6.69E-01	2.77E-01	1.43E+00	4.66E-01	1.60E-02
133	361273	3798230	5.51E-01	3.03E-02	9.90E-02	1.14E-02	9.90E-02	1.14E-02	6.89E-01	3.35E-01	1.47E+00	5.02E-01	1.64E-02
134	361224	3798230	5.58E-01	3.21E-02	1.28E-01	1.19E-02	1.28E-01	1.19E-02	6.97E-01	4.20E-01	1.49E+00	5.41E-01	1.66E-02
135	361175	3798230	5.71E-01	3.48E-02	1.71E-01	1.27E-02	1.71E-01	1.27E-02	7.14E-01	5.39E-01	1.52E+00	5.91E-01	1.70E-02
136	361126	3798230	5.76E-01	3.87E-02	2.20E-01	1.39E-02	2.20E-01	1.39E-02	7.20E-01	6.75E-01	1.54E+00	6.43E-01	1.72E-02
137	361077	3798230	5.71E-01	4.42E-02	2.48E-01	1.52E-02	2.48E-01	1.52E-02	7.14E-01	7.55E-01	1.52E+00	6.95E-01	1.70E-02
138	361028	3798230	5.82E-01	5.09E-02	2.33E-01	1.70E-02	2.33E-01	1.70E-02	7.28E-01	7.21E-01	1.55E+00	7.47E-01	1.74E-02
139	361008	3798270	5.97E-01	5.41E-02	2.38E-01	1.79E-02	2.38E-01	1.79E-02	7.46E-01	7.24E-01	1.59E+00	7.69E-01	1.78E-02
140	360987	3798311	6.12E-01	5.70E-02	2.55E-01	1.87E-02	2.55E-01	1.87E-02	7.65E-01	7.42E-01	1.63E+00	7.92E-01	1.82E-02
141	360967	3798351	6.27E-01	5.90E-02	2.61E-01	1.92E-02	2.61E-01	1.92E-02	7.84E-01	7.59E-01	1.67E+00	8.16E-01	1.87E-02
142	360947	3798392	6.43E-01	5.99E-02	2.41E-01	1.95E-02	2.41E-01	1.95E-02	8.04E-01	7.10E-01	1.71E+00	8.41E-01	1.92E-02
143	360926	3798432	6.59E-01	5.78E-02	1.85E-01	1.90E-02	1.85E-01	1.90E-02	8.24E-01	5.68E-01	1.76E+00	8.67E-01	1.96E-02
144	360906	3798473	6.75E-01	5.60E-02	1.59E-01	1.85E-02	1.59E-01	1.85E-02	8.45E-01	5.23E-01	1.80E+00	8.94E-01	2.01E-02
145	360886	3798513	6.97E-01	7.03E-02	3.89E-01	2.24E-02	3.89E-01	2.24E-02	8.72E-01	1.02E+00	1.86E+00	9.23E-01	2.08E-02
146	360865	3798554	7.16E-01	8.15E-02	8.60E-01	2.55E-02	8.60E-01	2.55E-02	8.96E-01	2.26E+00	1.91E+00	9.52E-01	2.13E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
147	360845	3798594	7.33E-01	6.72E-02	1.96E-01	2.18E-02	1.96E-01	2.18E-02	9.18E-01	5.64E-01	1.95E+00	9.82E-01	2.18E-02
148	360808	3798599	7.54E-01	5.11E-02	1.60E-01	1.77E-02	1.60E-01	1.77E-02	9.45E-01	5.69E-01	2.01E+00	1.03E+00	2.25E-02
149	360771	3798603	7.73E-01	4.67E-02	1.60E-01	1.67E-02	1.60E-01	1.67E-02	9.68E-01	5.70E-01	2.06E+00	1.07E+00	2.30E-02
150	360735	3798608	7.90E-01	4.74E-02	1.59E-01	1.70E-02	1.59E-01	1.70E-02	9.89E-01	5.65E-01	2.11E+00	1.10E+00	2.35E-02
151	360694	3798601	7.96E-01	4.57E-02	1.62E-01	1.70E-02	1.62E-01	1.70E-02	9.98E-01	5.81E-01	2.12E+00	1.12E+00	2.37E-02
152	360654	3798595	8.03E-01	4.48E-02	1.77E-01	1.71E-02	1.77E-01	1.71E-02	1.01E+00	6.35E-01	2.14E+00	1.12E+00	2.39E-02
153	360614	3798588	8.04E-01	4.51E-02	1.91E-01	1.75E-02	1.91E-01	1.75E-02	1.01E+00	6.85E-01	2.14E+00	1.10E+00	2.40E-02
154	360574	3798582	7.81E-01	4.78E-02	2.03E-01	1.85E-02	2.03E-01	1.85E-02	9.79E-01	7.27E-01	2.08E+00	1.06E+00	2.33E-02
155	360566	3798631	8.11E-01	5.01E-02	2.09E-01	1.91E-02	2.09E-01	1.91E-02	1.02E+00	7.52E-01	2.16E+00	1.10E+00	2.42E-02
156	360559	3798680	8.35E-01	5.62E-02	2.17E-01	2.09E-02	2.17E-01	2.09E-02	1.05E+00	7.78E-01	2.23E+00	1.13E+00	2.49E-02
157	360514	3798702	8.72E-01	5.83E-02	2.32E-01	2.18E-02	2.32E-01	2.18E-02	1.09E+00	8.32E-01	2.32E+00	1.23E+00	2.60E-02
158	360470	3798723	9.12E-01	5.61E-02	2.44E-01	2.14E-02	2.44E-01	2.14E-02	1.14E+00	8.76E-01	2.43E+00	1.37E+00	2.72E-02
159	360425	3798745	9.38E-01	5.63E-02	2.60E-01	2.16E-02	2.60E-01	2.16E-02	1.18E+00	9.36E-01	2.50E+00	1.50E+00	2.80E-02
160	360380	3798767	9.34E-01	5.61E-02	2.83E-01	2.17E-02	2.83E-01	2.17E-02	1.17E+00	1.02E+00	2.49E+00	1.61E+00	2.78E-02
161	360336	3798788	9.58E-01	5.65E-02	3.03E-01	2.19E-02	3.03E-01	2.19E-02	1.20E+00	1.09E+00	2.55E+00	1.70E+00	2.85E-02
162	360291	3798810	9.78E-01	5.59E-02	3.10E-01	2.17E-02	3.10E-01	2.17E-02	1.23E+00	1.11E+00	2.61E+00	1.75E+00	2.91E-02
163	360247	3798832	9.85E-01	6.02E-02	3.29E-01	2.33E-02	3.29E-01	2.33E-02	1.23E+00	1.17E+00	2.63E+00	1.80E+00	2.93E-02
164	360200	3798833	9.76E-01	6.22E-02	3.19E-01	2.42E-02	3.19E-01	2.42E-02	1.22E+00	1.14E+00	2.60E+00	1.81E+00	2.91E-02
165	360154	3798834	1.02E+00	5.52E-02	2.95E-01	2.16E-02	2.95E-01	2.16E-02	1.28E+00	1.05E+00	2.73E+00	1.68E+00	3.05E-02
166	360108	3798836	1.03E+00	5.05E-02	2.65E-01	1.98E-02	2.65E-01	1.98E-02	1.29E+00	9.38E-01	2.74E+00	1.50E+00	3.06E-02
167	360061	3798837	1.02E+00	4.83E-02	2.33E-01	1.89E-02	2.33E-01	1.89E-02	1.28E+00	8.23E-01	2.73E+00	1.33E+00	3.05E-02
168	360022	3798857	1.03E+00	4.79E-02	2.03E-01	1.86E-02	2.03E-01	1.86E-02	1.29E+00	7.11E-01	2.73E+00	1.38E+00	3.06E-02
169	359984	3798878	9.87E-01	4.50E-02	2.06E-01	1.73E-02	2.06E-01	1.73E-02	1.24E+00	7.43E-01	2.63E+00	1.44E+00	2.94E-02
170	359945	3798898	9.33E-01	4.26E-02	2.29E-01	1.63E-02	2.29E-01	1.63E-02	1.17E+00	8.26E-01	2.49E+00	1.66E+00	2.78E-02
171	359907	3798919	9.30E-01	4.09E-02	2.47E-01	1.55E-02	2.47E-01	1.55E-02	1.17E+00	8.85E-01	2.48E+00	1.81E+00	2.77E-02
172	359868	3798939	9.54E-01	3.93E-02	2.53E-01	1.48E-02	2.53E-01	1.48E-02	1.20E+00	9.04E-01	2.54E+00	1.87E+00	2.84E-02
173	359829	3798960	1.00E+00	4.13E-02	2.50E-01	1.53E-02	2.50E-01	1.53E-02	1.25E+00	8.85E-01	2.67E+00	1.93E+00	2.98E-02
174	359865	3798990	9.84E-01	4.16E-02	2.65E-01	1.55E-02	2.65E-01	1.55E-02	1.23E+00	9.43E-01	2.62E+00	1.96E+00	2.93E-02
175	359900	3799021	1.02E+00	4.21E-02	2.66E-01	1.57E-02	2.66E-01	1.57E-02	1.28E+00	9.53E-01	2.72E+00	1.90E+00	3.04E-02
176	359936	3799052	9.92E-01	4.18E-02	2.33E-01	1.56E-02	2.33E-01	1.56E-02	1.24E+00	8.39E-01	2.64E+00	1.44E+00	2.96E-02
177	359971	3799083	1.11E+00	4.43E-02	2.21E-01	1.66E-02	2.21E-01	1.66E-02	1.40E+00	8.02E-01	2.97E+00	1.42E+00	3.32E-02
178	360007	3799114	1.22E+00	4.71E-02	2.23E-01	1.77E-02	2.23E-01	1.77E-02	1.53E+00	8.05E-01	3.25E+00	1.46E+00	3.63E-02
179	359959	3799114	1.10E+00	4.44E-02	2.31E-01	1.65E-02	2.31E-01	1.65E-02	1.37E+00	8.34E-01	2.92E+00	1.47E+00	3.26E-02
180	359912	3799114	1.06E+00	4.22E-02	2.49E-01	1.56E-02	2.49E-01	1.56E-02	1.34E+00	8.96E-01	2.84E+00	1.53E+00	3.17E-02
181	359865	3799115	1.15E+00	4.04E-02	2.55E-01	1.48E-02	2.55E-01	1.48E-02	1.45E+00	9.10E-01	3.07E+00	1.67E+00	3.43E-02
182	359818	3799115	1.16E+00	3.97E-02	2.39E-01	1.44E-02	2.39E-01	1.44E-02	1.46E+00	8.43E-01	3.10E+00	1.78E+00	3.47E-02
183	359771	3799115	1.05E+00	3.98E-02	2.26E-01	1.42E-02	2.26E-01	1.42E-02	1.32E+00	8.06E-01	2.81E+00	1.78E+00	3.14E-02
184	359724	3799115	9.60E-01	4.02E-02	2.13E-01	1.42E-02	2.13E-01	1.42E-02	1.20E+00	7.54E-01	2.56E+00	1.61E+00	2.86E-02
185	359677	3799116	8.91E-01	4.17E-02	1.87E-01	1.46E-02	1.87E-01	1.46E-02	1.12E+00	6.58E-01	2.38E+00	1.50E+00	2.66E-02
186	359630	3799116	8.43E-01	4.44E-02	2.13E-01	1.54E-02	2.13E-01	1.54E-02	1.06E+00	7.71E-01	2.25E+00	1.51E+00	2.51E-02
187	359583	3799116	8.98E-01	3.85E-02	2.39E-01	1.35E-02	2.39E-01	1.35E-02	1.13E+00	8.60E-01	2.39E+00	1.53E+00	2.68E-02
188	359536	3799117	9.87E-01	3.26E-02	2.48E-01	1.16E-02	2.48E-01	1.16E-02	1.24E+00	8.89E-01	2.63E+00	1.62E+00	2.94E-02
189	359489	3799117	1.03E+00	3.12E-02	2.49E-01	1.11E-02	2.49E-01	1.11E-02	1.30E+00	8.88E-01	2.76E+00	1.66E+00	3.08E-02
190	359442	3799117	1.04E+00	3.33E-02	2.18E-01	1.14E-02	2.18E-01	1.14E-02	1.31E+00	7.77E-01	2.78E+00	1.38E+00	3.10E-02
191	359395	3799118	1.01E+00	3.37E-02	2.00E-01	1.14E-02	2.00E-01	1.14E-02	1.26E+00	7.10E-01	2.69E+00	1.28E+00	3.00E-02
192	359394	3799166	1.01E+00	4.21E-02	2.22E-01	1.39E-02	2.22E-01	1.39E-02	1.27E+00	7.80E-01	2.69E+00	1.56E+00	3.01E-02
193	359393	3799215	1.04E+00	6.87E-02	2.08E-01	2.17E-02	2.08E-01	2.17E-02	1.30E+00	7.25E-01	2.77E+00	1.41E+00	3.09E-02
194	359392	3799264	1.08E+00	8.02E-02	1.94E-01	2.51E-02	1.94E-01	2.51E-02	1.36E+00	6.74E-01	2.89E+00	1.34E+00	3.23E-02
195	359391	3799312	1.11E+00	8.59E-02	1.64E-01	2.68E-02	1.64E-01	2.68E-02	1.39E+00	5.70E-01	2.95E+00	1.10E+00	3.29E-02
196	359390	3799361	1.09E+00	8.41E-02	1.43E-01	2.63E-02	1.43E-01	2.63E-02	1.37E+00	4.95E-01	2.92E+00	1.17E+00	3.26E-02
197	359389	3799410	1.05E+00	7.83E-02	1.27E-01	2.45E-02	1.27E-01	2.45E-02	1.31E+00	4.49E-01	2.79E+00	1.23E+00	3.12E-02
198	359388	3799458	9.63E-01	7.15E-02	1.16E-01	2.25E-02	1.16E-01	2.25E-02	1.21E+00	4.08E-01	2.57E+00	1.24E+00	2.87E-02
199	359387	3799507	8.44E-01	6.50E-02	1.21E-01	2.06E-02	1.21E-01	2.06E-02	1.06E+00	4.22E-01	2.25E+00	1.21E+00	2.52E-02
200	359342	3799508	7.16E-01	6.94E-02	9.57E-02	2.18E-02	9.57E-02	2.18E-02	8.98E-01	3.32E-01	1.91E+00	1.05E+00	2.13E-02
201	359297	3799509	7.83E-01	7.55E-02	1.07E-01	2.35E-02	1.07E-01	2.35E-02	9.82E-01	3.71E-01	2.09E+00	1.00E+00	2.33E-02
202	359253	3799510	8.23E-01	8.22E-02	1.08E-01	2.55E-02	1.08E-01	2.55E-02	1.03E+00	3.71E-01	2.20E+00	1.04E+00	2.45E-02
203	359208	3799511	8.45E-01	8.30E-02	9.18E-02	2.58E-02	9.18E-02	2.58E-02	1.06E+00	3.14E-01	2.25E+00	8.54E-01	2.52E-02
204	359181	3799531	8.62E-01	8.22E-02	8.88E-02	2.55E-02	8.88E-02	2.55E-02	1.08E+00	2.91E-01	2.30E+00	7.94E-01	2.57E-02
205	359155	3799551	8.44E-01	7.92E-02	8.42E-02	2.47E-02	8.42E-02	2.47E-02	1.06E+00	2.74E-01	2.25E+00	7.42E-01	2.52E-02
206	359128	3799571	8.31E-01	7.58E-02	7.77E-02	2.36E-02	7.77E-02	2.36E-02	1.04E+00	2.50E-01	2.22E+00	6.71E-01	2.48E-02
207	359105	3799603	8.67E-01	7.52E-02	7.45E-02	2.35E-02	7.45E-02	2.35E-02	1.09E+00	2.15E-01	2.31E+00	5.42E-01	2.58E-02
208	359095	3799628	8.61E-01	7.52E-02	7.37E-02	2.35E-02	7.37E-02	2.35E-02	1.08E+00	1.88E-01	2.30E+00	4.42E-01	2.57E-02
209	359107	3799663	8.82E-01	7.42E-02	7.00E-02	2.33E-02	7.00E-02	2.33E-02	1.10E+00	1.78E-01	2.35E+00	4.22E-01	2.63E-02
210	359126	3799690	8.96E-01	7.33E-02	6.58E-02	2.30E-02	6.58E-02	2.30E-02	1.12E+00	1.81E-01	2.39E+00	4.39E-01	2.67E-02
211	359145	3799718	9.26E-01	7.03E-02	6.20E-02	2.22E-02	6.20E-02	2.22E-02	1.16E+00	1.75E-01	2.47E+00	4.41E-01	2.76E-02
212	359184	3799723	9.62E-01	6.95E-02	6.40E-02	2.19E-02	6.40E-02	2.19E-02	1.21E+00	1.82E-01	2.56E+00	4.94E-01	2.87E-02
213	359223	3799729	9.80E-01	6.94E-02	6.56E-02	2.19E-02	6.56E-02	2.19E-02	1.23E+00	1.87E-01	2.61E+00	5.23E-01	2.92E-02
214	359247	3799741	9.96E-01	6.81E-02	6.47E-02	2.16E-02	6.47E-02	2.16E-02	1.25E+00	1.86E-01	2.65E+00	5.41E-01	2.97E-02
215	359258	3799780	1.04E+00	6.45E-02	6.46E-02	2.06E-02	6.46E-02	2.06E-02	1.30E+00	2.01E-01	2.77E+00	4.87E-01	3.09E-02
216	359251	3799815	1.00E+00	6.25E-02	7.07E-02	2.01E-02	7.07E-02	2.01E-02	1.26E+00	2.21E-01	2.67E+00	5.02E-01	2.99E-02
217	359220	3799850	8.12E-01	6.02E-02	6.83E-02	1.95E-02	6.83E-02	1.95E-02	1.02E+00	2.24E-01	2.16E+00	5.30E-01	2.42E-02
218	359175	3799871	7.79E-01	5.79E-02	6.85E-02	1.88E-02	6.85E-02	1.88E-02	9.76E-01	2.23E-01	2.08E+00	5.21E-01	2.32E-02
219	359156	3799904	7.99E-01	5.71E-02	7.02E-02	1.87E-02	7.02E-02	1.87E-02	1.00E+00	2.28E-01	2.13E+00	5.52E-01	2.38E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
220	359138	3799936	7.71E-01	5.54E-02	6.82E-02	1.83E-02	6.82E-02	1.83E-02	9.66E-01	2.36E-01	2.06E+00	5.68E-01	2.30E-02
221	359109	3799962	7.44E-01	5.33E-02	6.94E-02	1.77E-02	6.94E-02	1.77E-02	9.33E-01	2.39E-01	1.98E+00	5.36E-01	2.22E-02
222	359081	3799988	7.58E-01	5.22E-02	7.01E-02	1.74E-02	7.01E-02	1.74E-02	9.51E-01	2.41E-01	2.02E+00	5.23E-01	2.26E-02
223	359074	3800032	7.41E-01	5.18E-02	7.13E-02	1.75E-02	7.13E-02	1.75E-02	9.28E-01	2.44E-01	1.97E+00	5.36E-01	2.21E-02
224	359067	3800075	7.14E-01	5.09E-02	6.64E-02	1.74E-02	6.64E-02	1.74E-02	8.95E-01	2.27E-01	1.90E+00	5.55E-01	2.13E-02
225	359059	3800118	7.58E-01	5.19E-02	7.30E-02	1.80E-02	7.30E-02	1.80E-02	9.50E-01	2.49E-01	2.02E+00	7.23E-01	2.26E-02
226	359052	3800162	7.10E-01	5.23E-02	8.26E-02	1.84E-02	8.26E-02	1.84E-02	8.90E-01	2.82E-01	1.89E+00	8.57E-01	2.11E-02
227	359021	3800162	6.75E-01	5.17E-02	8.01E-02	1.81E-02	8.01E-02	1.81E-02	8.46E-01	2.73E-01	1.80E+00	8.31E-01	2.01E-02
228	359019	3800199	6.58E-01	5.25E-02	8.50E-02	1.86E-02	8.50E-02	1.86E-02	8.24E-01	2.89E-01	1.75E+00	9.02E-01	1.96E-02
229	359004	3800227	6.26E-01	5.24E-02	8.22E-02	1.87E-02	8.22E-02	1.87E-02	7.85E-01	2.78E-01	1.67E+00	8.74E-01	1.87E-02
230	358990	3800255	6.17E-01	5.18E-02	7.51E-02	1.86E-02	7.51E-02	1.86E-02	7.73E-01	2.53E-01	1.65E+00	7.90E-01	1.84E-02
231	358988	3800296	5.81E-01	5.19E-02	7.24E-02	1.88E-02	7.24E-02	1.88E-02	7.28E-01	2.46E-01	1.55E+00	6.81E-01	1.73E-02
232	358986	3800337	5.56E-01	5.30E-02	7.71E-02	1.94E-02	7.71E-02	1.94E-02	6.97E-01	2.63E-01	1.48E+00	6.27E-01	1.66E-02
233	358968	3800366	5.86E-01	5.45E-02	8.13E-02	2.01E-02	8.13E-02	2.01E-02	7.34E-01	2.77E-01	1.56E+00	6.41E-01	1.75E-02
234	358965	3800402	6.21E-01	5.66E-02	8.50E-02	2.11E-02	8.50E-02	2.11E-02	7.78E-01	2.90E-01	1.65E+00	7.52E-01	1.85E-02
235	358962	3800438	6.28E-01	5.94E-02	9.04E-02	2.25E-02	9.04E-02	2.25E-02	7.88E-01	3.09E-01	1.68E+00	8.58E-01	1.87E-02
236	358994	3800438	6.32E-01	5.85E-02	8.56E-02	2.21E-02	8.56E-02	2.21E-02	7.92E-01	2.94E-01	1.68E+00	8.17E-01	1.88E-02
237	358980	3800483	6.74E-01	6.31E-02	9.52E-02	2.42E-02	9.52E-02	2.42E-02	8.44E-01	3.31E-01	1.80E+00	9.28E-01	2.01E-02
238	358984	3800522	7.52E-01	6.19E-02	8.95E-02	2.38E-02	8.95E-02	2.38E-02	9.42E-01	3.10E-01	2.01E+00	8.09E-01	2.24E-02
239	358956	3800526	7.31E-01	6.37E-02	9.37E-02	2.45E-02	9.37E-02	2.45E-02	9.16E-01	3.25E-01	1.95E+00	8.66E-01	2.18E-02
240	358960	3800565	7.94E-01	6.16E-02	9.38E-02	2.38E-02	9.38E-02	2.38E-02	9.95E-01	3.24E-01	2.12E+00	7.53E-01	2.37E-02
241	358987	3800560	8.15E-01	6.05E-02	9.29E-02	2.33E-02	9.29E-02	2.33E-02	1.02E+00	3.21E-01	2.17E+00	7.32E-01	2.43E-02
242	359013	3800555	8.38E-01	5.63E-02	8.70E-02	2.15E-02	8.70E-02	2.15E-02	1.05E+00	3.01E-01	2.23E+00	6.40E-01	2.50E-02
243	358985	3800578	8.37E-01	6.00E-02	9.37E-02	2.31E-02	9.37E-02	2.31E-02	1.05E+00	3.24E-01	2.23E+00	7.21E-01	2.49E-02
244	358957	3800601	8.31E-01	6.04E-02	9.46E-02	2.33E-02	9.46E-02	2.33E-02	1.04E+00	3.27E-01	2.22E+00	7.27E-01	2.48E-02
245	358929	3800623	8.21E-01	5.99E-02	9.37E-02	2.32E-02	9.37E-02	2.32E-02	1.03E+00	3.23E-01	2.19E+00	7.14E-01	2.45E-02
246	358927	3800664	8.37E-01	5.98E-02	9.34E-02	2.32E-02	9.34E-02	2.32E-02	1.05E+00	3.22E-01	2.23E+00	6.89E-01	2.50E-02
247	360900	3797750	4.69E-01	3.95E-02	1.57E-01	1.47E-02	1.57E-01	1.47E-02	5.85E-01	5.02E-01	1.25E+00	7.21E-01	1.40E-02
248	360950	3797750	4.56E-01	4.03E-02	1.60E-01	1.48E-02	1.60E-01	1.48E-02	5.69E-01	5.02E-01	1.22E+00	7.12E-01	1.36E-02
249	361000	3797750	4.47E-01	4.06E-02	1.58E-01	1.47E-02	1.58E-01	1.47E-02	5.58E-01	4.92E-01	1.19E+00	6.96E-01	1.33E-02
250	361050	3797750	4.56E-01	3.99E-02	1.56E-01	1.44E-02	1.56E-01	1.44E-02	5.69E-01	4.79E-01	1.22E+00	6.75E-01	1.36E-02
251	361100	3797750	4.58E-01	3.84E-02	1.46E-01	1.38E-02	1.46E-01	1.38E-02	5.71E-01	4.57E-01	1.22E+00	6.48E-01	1.36E-02
252	361150	3797750	4.52E-01	3.61E-02	1.48E-01	1.31E-02	1.48E-01	1.31E-02	5.64E-01	4.75E-01	1.21E+00	6.19E-01	1.35E-02
253	361200	3797750	4.46E-01	3.37E-02	1.51E-01	1.25E-02	1.51E-01	1.25E-02	5.57E-01	4.80E-01	1.19E+00	5.86E-01	1.33E-02
254	361250	3797750	4.41E-01	3.21E-02	1.48E-01	1.20E-02	1.48E-01	1.20E-02	5.50E-01	4.70E-01	1.18E+00	5.52E-01	1.31E-02
255	361300	3797750	4.30E-01	3.06E-02	1.39E-01	1.16E-02	1.39E-01	1.16E-02	5.37E-01	4.45E-01	1.15E+00	5.18E-01	1.28E-02
256	361350	3797750	4.32E-01	2.92E-02	1.27E-01	1.11E-02	1.27E-01	1.11E-02	5.39E-01	4.08E-01	1.15E+00	4.83E-01	1.29E-02
257	361400	3797750	4.27E-01	2.80E-02	1.12E-01	1.07E-02	1.12E-01	1.07E-02	5.33E-01	3.65E-01	1.14E+00	4.49E-01	1.27E-02
258	361450	3797750	4.23E-01	2.70E-02	9.78E-02	1.04E-02	9.78E-02	1.04E-02	5.28E-01	3.22E-01	1.13E+00	4.16E-01	1.26E-02
259	361500	3797750	4.20E-01	2.62E-02	8.44E-02	1.01E-02	8.44E-02	1.01E-02	5.23E-01	2.81E-01	1.12E+00	3.94E-01	1.25E-02
260	361550	3797750	4.11E-01	2.55E-02	7.27E-02	9.89E-03	7.27E-02	9.89E-03	5.13E-01	2.45E-01	1.10E+00	3.75E-01	1.23E-02
261	361600	3797750	3.98E-01	2.49E-02	6.26E-02	9.67E-03	6.26E-02	9.67E-03	4.96E-01	2.13E-01	1.06E+00	3.54E-01	1.19E-02
262	361650	3797750	3.81E-01	2.44E-02	5.41E-02	9.49E-03	5.41E-02	9.49E-03	4.75E-01	1.86E-01	1.02E+00	3.35E-01	1.14E-02
263	361700	3797750	3.61E-01	2.40E-02	4.92E-02	9.33E-03	4.92E-02	9.33E-03	4.50E-01	1.64E-01	9.62E-01	3.44E-01	1.08E-02
264	361750	3797750	3.43E-01	2.36E-02	4.67E-02	9.19E-03	4.67E-02	9.19E-03	4.27E-01	1.57E-01	9.14E-01	3.51E-01	1.02E-02
265	361800	3797750	3.27E-01	2.33E-02	4.43E-02	9.06E-03	4.43E-02	9.06E-03	4.07E-01	1.49E-01	8.71E-01	3.54E-01	9.73E-03
266	361850	3797750	3.08E-01	2.30E-02	4.20E-02	8.95E-03	4.20E-02	8.95E-03	3.83E-01	1.42E-01	8.21E-01	3.55E-01	9.18E-03
267	361900	3797750	2.88E-01	2.28E-02	3.99E-02	8.85E-03	3.99E-02	8.85E-03	3.58E-01	1.35E-01	7.67E-01	3.54E-01	8.57E-03
268	360800	3797800	4.97E-01	3.79E-02	1.46E-01	1.46E-02	1.46E-01	1.46E-02	6.20E-01	4.85E-01	1.32E+00	7.33E-01	1.48E-02
269	360850	3797800	4.84E-01	3.88E-02	1.54E-01	1.47E-02	1.54E-01	1.47E-02	6.04E-01	5.00E-01	1.29E+00	7.40E-01	1.44E-02
270	360900	3797800	4.77E-01	4.00E-02	1.61E-01	1.49E-02	1.61E-01	1.49E-02	5.95E-01	5.12E-01	1.27E+00	7.37E-01	1.42E-02
271	360950	3797800	4.62E-01	4.10E-02	1.64E-01	1.50E-02	1.64E-01	1.50E-02	5.76E-01	5.14E-01	1.23E+00	7.26E-01	1.38E-02
272	361000	3797800	4.63E-01	4.14E-02	1.64E-01	1.49E-02	1.64E-01	1.49E-02	5.77E-01	5.07E-01	1.23E+00	7.07E-01	1.38E-02
273	361050	3797800	4.69E-01	4.06E-02	1.61E-01	1.45E-02	1.61E-01	1.45E-02	5.86E-01	4.92E-01	1.25E+00	6.83E-01	1.40E-02
274	361100	3797800	4.68E-01	3.88E-02	1.49E-01	1.39E-02	1.49E-01	1.39E-02	5.85E-01	4.79E-01	1.25E+00	6.55E-01	1.40E-02
275	361150	3797800	4.60E-01	3.63E-02	1.55E-01	1.31E-02	1.55E-01	1.31E-02	5.74E-01	4.96E-01	1.23E+00	6.23E-01	1.37E-02
276	361200	3797800	4.57E-01	3.39E-02	1.57E-01	1.26E-02	1.57E-01	1.26E-02	5.70E-01	4.98E-01	1.22E+00	5.88E-01	1.36E-02
277	361250	3797800	4.49E-01	3.21E-02	1.52E-01	1.20E-02	1.52E-01	1.20E-02	5.60E-01	4.81E-01	1.20E+00	5.52E-01	1.34E-02
278	361300	3797800	4.44E-01	3.05E-02	1.40E-01	1.15E-02	1.40E-01	1.15E-02	5.54E-01	4.48E-01	1.18E+00	5.16E-01	1.32E-02
279	361350	3797800	4.43E-01	2.91E-02	1.25E-01	1.11E-02	1.25E-01	1.11E-02	5.53E-01	4.03E-01	1.18E+00	4.80E-01	1.32E-02
280	361400	3797800	4.35E-01	2.79E-02	1.09E-01	1.07E-02	1.09E-01	1.07E-02	5.43E-01	3.56E-01	1.16E+00	4.45E-01	1.30E-02
281	361450	3797800	4.34E-01	2.69E-02	9.37E-02	1.04E-02	9.37E-02	1.04E-02	5.41E-01	3.10E-01	1.16E+00	4.12E-01	1.29E-02
282	361500	3797800	4.27E-01	2.60E-02	8.02E-02	1.01E-02	8.02E-02	1.01E-02	5.33E-01	2.69E-01	1.14E+00	3.90E-01	1.27E-02
283	361550	3797800	4.16E-01	2.54E-02	6.86E-02	9.84E-03	6.86E-02	9.84E-03	5.19E-01	2.33E-01	1.11E+00	3.69E-01	1.24E-02
284	361600	3797800	4.00E-01	2.48E-02	5.89E-02	9.64E-03	5.89E-02	9.64E-03	4.99E-01	2.02E-01	1.07E+00	3.47E-01	1.19E-02
285	361650	3797800	3.80E-01	2.43E-02	5.10E-02	9.46E-03	5.10E-02	9.46E-03	4.74E-01	1.75E-01	1.01E+00	3.41E-01	1.13E-02
286	361700	3797800	3.58E-01	2.39E-02	4.82E-02	9.31E-03	4.82E-02	9.31E-03	4.46E-01	1.62E-01	9.54E-01	3.49E-01	1.07E-02
287	361750	3797800	3.39E-01	2.36E-02	4.56E-02	9.17E-03	4.56E-02	9.17E-03	4.22E-01	1.54E-01	9.04E-01	3.54E-01	1.01E-02
288	361800	3797800	3.21E-01	2.33E-02	4.32E-02	9.05E-03	4.32E-02	9.05E-03	3.99E-01	1.47E-01	8.55E-01	3.56E-01	9.56E-03
289	361850	3797800	3.00E-01	2.30E-02	4.10E-02	8.94E-03	4.10E-02	8.94E-03	3.74E-01	1.39E-01	8.00E-01	3.55E-01	8.94E-03
290	361900	3797800	2.78E-01	2.28E-02	3.88E-02	8.85E-03	3.88E-02	8.85E-03	3.46E-01	1.32E-01	7.41E-01	3.53E-01	8.29E-03
291	361950	3797800	2.70E-01	2.26E-02	3.94E-02	8.76E-03	3.94E-02	8.76E-03	3.35E-01	1.28E-01	7.21E-01	3.48E-01	8.06E-03
292	362000	3797800	2.66E-01	2.24E-02	4.03E-02	8.68E-03	4.03E-02	8.68E-03	3.30E-01	1.31E-01	7.10E-01	3.42E-01	7.94E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
293	362050	3797800	2.63E-01	2.22E-02	4.12E-02	8.61E-03	4.12E-02	8.61E-03	3.26E-01	1.34E-01	7.01E-01	3.35E-01	7.84E-03
294	360750	3797850	5.15E-01	3.75E-02	1.39E-01	1.47E-02	1.39E-01	1.47E-02	6.43E-01	4.75E-01	1.37E+00	7.50E-01	1.53E-02
295	360800	3797850	5.06E-01	3.84E-02	1.47E-01	1.47E-02	1.47E-01	1.47E-02	6.32E-01	4.89E-01	1.35E+00	7.54E-01	1.51E-02
296	360850	3797850	4.95E-01	3.94E-02	1.56E-01	1.48E-02	1.56E-01	1.48E-02	6.18E-01	5.07E-01	1.32E+00	7.58E-01	1.47E-02
297	360900	3797850	4.85E-01	4.05E-02	1.65E-01	1.50E-02	1.65E-01	1.50E-02	6.06E-01	5.22E-01	1.29E+00	7.53E-01	1.45E-02
298	360950	3797850	4.67E-01	4.18E-02	1.69E-01	1.52E-02	1.69E-01	1.52E-02	5.83E-01	5.26E-01	1.25E+00	7.39E-01	1.39E-02
299	361000	3797850	4.78E-01	4.22E-02	1.70E-01	1.51E-02	1.70E-01	1.51E-02	5.96E-01	5.23E-01	1.27E+00	7.18E-01	1.42E-02
300	361050	3797850	4.82E-01	4.13E-02	1.67E-01	1.47E-02	1.67E-01	1.47E-02	6.02E-01	5.06E-01	1.29E+00	6.91E-01	1.44E-02
301	361100	3797850	4.79E-01	3.93E-02	1.57E-01	1.40E-02	1.57E-01	1.40E-02	5.97E-01	5.03E-01	1.28E+00	6.60E-01	1.43E-02
302	361150	3797850	4.71E-01	3.65E-02	1.63E-01	1.32E-02	1.63E-01	1.32E-02	5.88E-01	5.19E-01	1.26E+00	6.26E-01	1.40E-02
303	361200	3797850	4.67E-01	3.41E-02	1.63E-01	1.26E-02	1.63E-01	1.26E-02	5.82E-01	5.16E-01	1.24E+00	5.89E-01	1.39E-02
304	361250	3797850	4.55E-01	3.22E-02	1.55E-01	1.20E-02	1.55E-01	1.20E-02	5.68E-01	4.90E-01	1.21E+00	5.52E-01	1.36E-02
305	361300	3797850	4.57E-01	3.04E-02	1.40E-01	1.15E-02	1.40E-01	1.15E-02	5.71E-01	4.47E-01	1.22E+00	5.14E-01	1.36E-02
306	361350	3797850	4.53E-01	2.90E-02	1.23E-01	1.10E-02	1.23E-01	1.10E-02	5.65E-01	3.96E-01	1.21E+00	4.77E-01	1.35E-02
307	361400	3797850	4.47E-01	2.77E-02	1.05E-01	1.06E-02	1.05E-01	1.06E-02	5.57E-01	3.44E-01	1.19E+00	4.41E-01	1.33E-02
308	361450	3797850	4.43E-01	2.67E-02	8.91E-02	1.03E-02	8.91E-02	1.03E-02	5.53E-01	2.97E-01	1.18E+00	4.07E-01	1.32E-02
309	361500	3797850	4.34E-01	2.59E-02	7.57E-02	1.00E-02	7.57E-02	1.00E-02	5.41E-01	2.55E-01	1.16E+00	3.85E-01	1.29E-02
310	361550	3797850	4.19E-01	2.52E-02	6.45E-02	9.80E-03	6.45E-02	9.80E-03	5.23E-01	2.20E-01	1.12E+00	3.63E-01	1.25E-02
311	361600	3797850	4.01E-01	2.47E-02	5.52E-02	9.61E-03	5.52E-02	9.61E-03	5.00E-01	1.91E-01	1.07E+00	3.40E-01	1.19E-02
312	361650	3797850	3.78E-01	2.43E-02	5.00E-02	9.44E-03	5.00E-02	9.44E-03	4.71E-01	1.68E-01	1.01E+00	3.46E-01	1.13E-02
313	361700	3797850	3.53E-01	2.39E-02	4.72E-02	9.29E-03	4.72E-02	9.29E-03	4.40E-01	1.59E-01	9.41E-01	3.52E-01	1.05E-02
314	361750	3797850	3.34E-01	2.36E-02	4.46E-02	9.16E-03	4.46E-02	9.16E-03	4.15E-01	1.51E-01	8.89E-01	3.55E-01	9.94E-03
315	361800	3797850	3.13E-01	2.33E-02	4.21E-02	9.04E-03	4.21E-02	9.04E-03	3.90E-01	1.44E-01	8.35E-01	3.56E-01	9.33E-03
316	361850	3797850	2.91E-01	2.30E-02	3.99E-02	8.94E-03	3.99E-02	8.94E-03	3.62E-01	1.36E-01	7.75E-01	3.55E-01	8.67E-03
317	361900	3797850	2.79E-01	2.28E-02	3.88E-02	8.85E-03	3.88E-02	8.85E-03	3.46E-01	1.29E-01	7.43E-01	3.51E-01	8.30E-03
318	361950	3797850	2.75E-01	2.26E-02	3.99E-02	8.76E-03	3.99E-02	8.76E-03	3.41E-01	1.30E-01	7.32E-01	3.45E-01	8.19E-03
319	362000	3797850	2.70E-01	2.24E-02	4.08E-02	8.69E-03	4.08E-02	8.69E-03	3.35E-01	1.33E-01	7.20E-01	3.38E-01	8.05E-03
320	362050	3797850	2.66E-01	2.22E-02	4.16E-02	8.62E-03	4.16E-02	8.62E-03	3.29E-01	1.36E-01	7.09E-01	3.30E-01	7.92E-03
321	362100	3797850	2.60E-01	2.21E-02	4.23E-02	8.56E-03	4.23E-02	8.56E-03	3.23E-01	1.39E-01	6.94E-01	3.23E-01	7.76E-03
322	360700	3797900	5.27E-01	3.75E-02	1.36E-01	1.49E-02	1.36E-01	1.49E-02	6.59E-01	4.87E-01	1.41E+00	8.00E-01	1.57E-02
323	360750	3797900	5.27E-01	3.79E-02	1.39E-01	1.48E-02	1.39E-01	1.48E-02	6.58E-01	4.78E-01	1.40E+00	7.62E-01	1.57E-02
324	360800	3797900	5.15E-01	3.89E-02	1.47E-01	1.48E-02	1.47E-01	1.48E-02	6.43E-01	4.91E-01	1.37E+00	7.75E-01	1.54E-02
325	360850	3797900	5.05E-01	4.01E-02	1.58E-01	1.49E-02	1.58E-01	1.49E-02	6.31E-01	5.13E-01	1.35E+00	7.77E-01	1.51E-02
326	360900	3797900	4.93E-01	4.14E-02	1.68E-01	1.51E-02	1.68E-01	1.51E-02	6.15E-01	5.32E-01	1.31E+00	7.69E-01	1.47E-02
327	360950	3797900	4.82E-01	4.26E-02	1.73E-01	1.54E-02	1.73E-01	1.54E-02	6.02E-01	5.38E-01	1.29E+00	7.52E-01	1.44E-02
328	361000	3797900	4.93E-01	4.31E-02	1.77E-01	1.53E-02	1.77E-01	1.53E-02	6.15E-01	5.40E-01	1.31E+00	7.28E-01	1.47E-02
329	361050	3797900	4.95E-01	4.21E-02	1.72E-01	1.49E-02	1.72E-01	1.49E-02	6.17E-01	5.21E-01	1.32E+00	6.99E-01	1.47E-02
330	361100	3797900	4.88E-01	3.97E-02	1.66E-01	1.41E-02	1.66E-01	1.41E-02	6.09E-01	5.29E-01	1.30E+00	6.65E-01	1.45E-02
331	361150	3797900	4.83E-01	3.66E-02	1.72E-01	1.33E-02	1.72E-01	1.33E-02	6.03E-01	5.43E-01	1.29E+00	6.28E-01	1.44E-02
332	361200	3797900	4.76E-01	3.42E-02	1.69E-01	1.26E-02	1.69E-01	1.26E-02	5.94E-01	5.32E-01	1.27E+00	5.89E-01	1.42E-02
333	361250	3797900	4.70E-01	3.21E-02	1.57E-01	1.20E-02	1.57E-01	1.20E-02	5.87E-01	4.96E-01	1.25E+00	5.50E-01	1.40E-02
334	361300	3797900	4.69E-01	3.03E-02	1.39E-01	1.15E-02	1.39E-01	1.15E-02	5.86E-01	4.43E-01	1.25E+00	5.11E-01	1.40E-02
335	361350	3797900	4.62E-01	2.88E-02	1.19E-01	1.10E-02	1.19E-01	1.10E-02	5.77E-01	3.84E-01	1.23E+00	4.73E-01	1.38E-02
336	361400	3797900	4.58E-01	2.76E-02	9.99E-02	1.06E-02	9.99E-02	1.06E-02	5.72E-01	3.30E-01	1.22E+00	4.36E-01	1.37E-02
337	361450	3797900	4.52E-01	2.66E-02	8.40E-02	1.03E-02	8.40E-02	1.03E-02	5.64E-01	2.82E-01	1.20E+00	4.01E-01	1.35E-02
338	361500	3797900	4.39E-01	2.58E-02	7.10E-02	9.99E-03	7.10E-02	9.99E-03	5.48E-01	2.41E-01	1.17E+00	3.79E-01	1.31E-02
339	361550	3797900	4.21E-01	2.52E-02	6.04E-02	9.77E-03	6.04E-02	9.77E-03	5.26E-01	2.08E-01	1.12E+00	3.56E-01	1.26E-02
340	361600	3797900	3.99E-01	2.47E-02	5.19E-02	9.58E-03	5.19E-02	9.58E-03	4.98E-01	1.79E-01	1.06E+00	3.42E-01	1.19E-02
341	361650	3797900	3.74E-01	2.42E-02	4.88E-02	9.42E-03	4.88E-02	9.42E-03	4.67E-01	1.65E-01	9.97E-01	3.50E-01	1.12E-02
342	361700	3797900	3.47E-01	2.39E-02	4.60E-02	9.28E-03	4.60E-02	9.28E-03	4.32E-01	1.56E-01	9.24E-01	3.55E-01	1.03E-02
343	361750	3797900	3.26E-01	2.36E-02	4.34E-02	9.15E-03	4.34E-02	9.15E-03	4.07E-01	1.48E-01	8.71E-01	3.57E-01	9.73E-03
344	361800	3797900	3.04E-01	2.33E-02	4.10E-02	9.04E-03	4.10E-02	9.04E-03	3.79E-01	1.40E-01	8.11E-01	3.56E-01	9.06E-03
345	361850	3797900	2.87E-01	2.30E-02	3.88E-02	8.94E-03	3.88E-02	8.94E-03	3.56E-01	1.33E-01	7.65E-01	3.53E-01	8.55E-03
346	361900	3797900	2.83E-01	2.28E-02	3.93E-02	8.85E-03	3.93E-02	8.85E-03	3.51E-01	1.28E-01	7.55E-01	3.48E-01	8.44E-03
347	361950	3797900	2.78E-01	2.26E-02	4.03E-02	8.77E-03	4.03E-02	8.77E-03	3.45E-01	1.32E-01	7.42E-01	3.41E-01	8.29E-03
348	362000	3797900	2.73E-01	2.25E-02	4.12E-02	8.70E-03	4.12E-02	8.70E-03	3.39E-01	1.35E-01	7.29E-01	3.33E-01	8.14E-03
349	362050	3797900	2.68E-01	2.23E-02	4.20E-02	8.64E-03	4.20E-02	8.64E-03	3.32E-01	1.38E-01	7.14E-01	3.25E-01	7.98E-03
350	362100	3797900	2.62E-01	2.22E-02	4.27E-02	8.58E-03	4.27E-02	8.58E-03	3.25E-01	1.40E-01	6.99E-01	3.26E-01	7.81E-03
351	362150	3797900	2.60E-01	2.20E-02	4.32E-02	8.53E-03	4.32E-02	8.53E-03	3.22E-01	1.42E-01	6.92E-01	3.28E-01	7.73E-03
352	360650	3797950	5.33E-01	3.78E-02	1.52E-01	1.52E-02	1.52E-01	1.52E-02	6.65E-01	5.46E-01	1.42E+00	8.48E-01	1.59E-02
353	360700	3797950	5.42E-01	3.78E-02	1.37E-01	1.50E-02	1.37E-01	1.50E-02	6.76E-01	4.83E-01	1.44E+00	8.07E-01	1.61E-02
354	360750	3797950	5.38E-01	3.83E-02	1.39E-01	1.49E-02	1.39E-01	1.49E-02	6.73E-01	4.79E-01	1.44E+00	7.85E-01	1.60E-02
355	360800	3797950	5.24E-01	3.94E-02	1.47E-01	1.48E-02	1.47E-01	1.48E-02	6.54E-01	4.93E-01	1.40E+00	7.96E-01	1.56E-02
356	360850	3797950	5.15E-01	4.09E-02	1.59E-01	1.50E-02	1.59E-01	1.50E-02	6.43E-01	5.18E-01	1.37E+00	7.95E-01	1.54E-02
357	360900	3797950	5.00E-01	4.24E-02	1.71E-01	1.53E-02	1.71E-01	1.53E-02	6.24E-01	5.42E-01	1.33E+00	7.84E-01	1.49E-02
358	360950	3797950	4.99E-01	4.36E-02	1.78E-01	1.56E-02	1.78E-01	1.56E-02	6.23E-01	5.51E-01	1.33E+00	7.65E-01	1.49E-02
359	361000	3797950	5.07E-01	4.42E-02	1.84E-01	1.56E-02	1.84E-01	1.56E-02	6.34E-01	5.59E-01	1.35E+00	7.38E-01	1.51E-02
360	361050	3797950	5.06E-01	4.30E-02	1.78E-01	1.51E-02	1.78E-01	1.51E-02	6.32E-01	5.35E-01	1.35E+00	7.05E-01	1.51E-02
361	361100	3797950	4.97E-01	4.02E-02	1.76E-01	1.42E-02	1.76E-01	1.42E-02	6.21E-01	5.58E-01	1.33E+00	6.69E-01	1.48E-02
362	361150	3797950	4.94E-01	3.67E-02	1.81E-01	1.34E-02	1.81E-01	1.34E-02	6.17E-01	5.68E-01	1.32E+00	6.29E-01	1.47E-02
363	361200	3797950	4.84E-01	3.43E-02	1.74E-01	1.26E-02	1.74E-01	1.26E-02	6.04E-01	5.46E-01	1.29E+00	5.89E-01	1.44E-02
364	361250	3797950	4.85E-01	3.21E-02	1.57E-01	1.20E-02	1.57E-01	1.20E-02	6.05E-01	4.96E-01	1.29E+00	5.48E-01	1.44E-02
365	361300	3797950	4.81E-01	3.02E-02	1.35E-01	1.14E-02	1.35E-01	1.14E-02	6.00E-01	4.33E-01	1.28E+00	5.07E-01	1.43E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
366	361350	3797950	4.73E-01	2.87E-02	1.13E-01	1.09E-02	1.13E-01	1.09E-02	5.90E-01	3.69E-01	1.26E+00	4.68E-01	1.41E-02
367	361400	3797950	4.69E-01	2.75E-02	9.41E-02	1.05E-02	9.41E-02	1.05E-02	5.85E-01	3.13E-01	1.25E+00	4.30E-01	1.40E-02
368	361450	3797950	4.59E-01	2.65E-02	7.86E-02	1.02E-02	7.86E-02	1.02E-02	5.73E-01	2.66E-01	1.22E+00	3.96E-01	1.37E-02
369	361500	3797950	4.43E-01	2.58E-02	6.62E-02	9.97E-03	6.62E-02	9.97E-03	5.52E-01	2.27E-01	1.18E+00	3.72E-01	1.32E-02
370	361550	3797950	4.21E-01	2.52E-02	5.63E-02	9.75E-03	5.63E-02	9.75E-03	5.26E-01	1.95E-01	1.12E+00	3.48E-01	1.26E-02
371	361600	3797950	3.96E-01	2.47E-02	5.07E-02	9.56E-03	5.07E-02	9.56E-03	4.95E-01	1.71E-01	1.06E+00	3.47E-01	1.18E-02
372	361650	3797950	3.68E-01	2.42E-02	4.76E-02	9.41E-03	4.76E-02	9.41E-03	4.59E-01	1.61E-01	9.82E-01	3.53E-01	1.10E-02
373	361700	3797950	3.40E-01	2.39E-02	4.48E-02	9.27E-03	4.48E-02	9.27E-03	4.24E-01	1.53E-01	9.07E-01	3.56E-01	1.01E-02
374	361750	3797950	3.18E-01	2.36E-02	4.22E-02	9.15E-03	4.22E-02	9.15E-03	3.96E-01	1.45E-01	8.47E-01	3.57E-01	9.46E-03
375	361800	3797950	2.95E-01	2.33E-02	3.99E-02	9.04E-03	3.99E-02	9.04E-03	3.67E-01	1.37E-01	7.87E-01	3.55E-01	8.80E-03
376	361850	3797950	2.92E-01	2.31E-02	3.88E-02	8.94E-03	3.88E-02	8.94E-03	3.63E-01	1.30E-01	7.79E-01	3.50E-01	8.70E-03
377	361900	3797950	2.87E-01	2.29E-02	3.99E-02	8.86E-03	3.99E-02	8.86E-03	3.57E-01	1.30E-01	7.66E-01	3.44E-01	8.57E-03
378	361950	3797950	2.81E-01	2.27E-02	4.08E-02	8.78E-03	4.08E-02	8.78E-03	3.49E-01	1.34E-01	7.50E-01	3.37E-01	8.38E-03
379	362000	3797950	2.76E-01	2.25E-02	4.17E-02	8.71E-03	4.17E-02	8.71E-03	3.42E-01	1.37E-01	7.35E-01	3.28E-01	8.21E-03
380	362050	3797950	2.69E-01	2.24E-02	4.24E-02	8.65E-03	4.24E-02	8.65E-03	3.34E-01	1.39E-01	7.18E-01	3.26E-01	8.02E-03
381	362100	3797950	2.67E-01	2.22E-02	4.30E-02	8.60E-03	4.30E-02	8.60E-03	3.31E-01	1.42E-01	7.11E-01	3.28E-01	7.95E-03
382	362150	3797950	2.66E-01	2.21E-02	4.34E-02	8.55E-03	4.34E-02	8.55E-03	3.29E-01	1.43E-01	7.08E-01	3.30E-01	7.91E-03
383	362200	3797950	2.63E-01	2.20E-02	4.37E-02	8.51E-03	4.37E-02	8.51E-03	3.26E-01	1.44E-01	7.02E-01	3.29E-01	7.85E-03
384	360600	3798000	5.52E-01	3.80E-02	1.70E-01	1.54E-02	1.70E-01	1.54E-02	6.90E-01	6.12E-01	1.47E+00	8.91E-01	1.65E-02
385	360650	3798000	5.49E-01	3.80E-02	1.51E-01	1.53E-02	1.51E-01	1.53E-02	6.86E-01	5.42E-01	1.46E+00	8.56E-01	1.64E-02
386	360700	3798000	5.56E-01	3.80E-02	1.38E-01	1.51E-02	1.38E-01	1.51E-02	6.94E-01	4.90E-01	1.48E+00	8.12E-01	1.66E-02
387	360750	3798000	5.50E-01	3.86E-02	1.38E-01	1.50E-02	1.38E-01	1.50E-02	6.87E-01	4.79E-01	1.47E+00	8.09E-01	1.64E-02
388	360800	3798000	5.33E-01	3.99E-02	1.46E-01	1.49E-02	1.46E-01	1.49E-02	6.66E-01	4.92E-01	1.42E+00	8.17E-01	1.59E-02
389	360850	3798000	5.24E-01	4.16E-02	1.60E-01	1.51E-02	1.60E-01	1.51E-02	6.55E-01	5.21E-01	1.40E+00	8.14E-01	1.56E-02
390	360900	3798000	5.05E-01	4.35E-02	1.75E-01	1.55E-02	1.75E-01	1.55E-02	6.31E-01	5.50E-01	1.35E+00	8.00E-01	1.51E-02
391	360950	3798000	5.16E-01	4.47E-02	1.82E-01	1.59E-02	1.82E-01	1.59E-02	6.45E-01	5.63E-01	1.38E+00	7.77E-01	1.54E-02
392	361000	3798000	5.22E-01	4.54E-02	1.92E-01	1.59E-02	1.92E-01	1.59E-02	6.52E-01	5.79E-01	1.39E+00	7.47E-01	1.56E-02
393	361050	3798000	5.17E-01	4.39E-02	1.84E-01	1.53E-02	1.84E-01	1.53E-02	6.46E-01	5.57E-01	1.38E+00	7.11E-01	1.54E-02
394	361100	3798000	5.11E-01	4.06E-02	1.88E-01	1.43E-02	1.88E-01	1.43E-02	6.38E-01	5.90E-01	1.36E+00	6.72E-01	1.52E-02
395	361150	3798000	5.05E-01	3.70E-02	1.90E-01	1.34E-02	1.90E-01	1.34E-02	6.31E-01	5.91E-01	1.35E+00	6.30E-01	1.51E-02
396	361200	3798000	4.98E-01	3.43E-02	1.78E-01	1.26E-02	1.78E-01	1.26E-02	6.22E-01	5.55E-01	1.33E+00	5.87E-01	1.48E-02
397	361250	3798000	4.99E-01	3.20E-02	1.55E-01	1.19E-02	1.55E-01	1.19E-02	6.23E-01	4.91E-01	1.33E+00	5.44E-01	1.49E-02
398	361300	3798000	4.91E-01	3.00E-02	1.30E-01	1.14E-02	1.30E-01	1.14E-02	6.13E-01	4.18E-01	1.31E+00	5.02E-01	1.46E-02
399	361350	3798000	4.85E-01	2.85E-02	1.07E-01	1.09E-02	1.07E-01	1.09E-02	6.06E-01	3.51E-01	1.29E+00	4.62E-01	1.45E-02
400	361400	3798000	4.78E-01	2.74E-02	8.78E-02	1.05E-02	8.78E-02	1.05E-02	5.97E-01	2.95E-01	1.28E+00	4.23E-01	1.43E-02
401	361450	3798000	4.64E-01	2.65E-02	7.31E-02	1.02E-02	7.31E-02	1.02E-02	5.79E-01	2.50E-01	1.24E+00	3.89E-01	1.38E-02
402	361500	3798000	4.44E-01	2.58E-02	6.16E-02	9.95E-03	6.16E-02	9.95E-03	5.55E-01	2.13E-01	1.18E+00	3.65E-01	1.32E-02
403	361550	3798000	4.20E-01	2.52E-02	5.27E-02	9.74E-03	5.27E-02	9.74E-03	5.24E-01	1.83E-01	1.12E+00	3.50E-01	1.25E-02
404	361600	3798000	3.91E-01	2.47E-02	4.93E-02	9.56E-03	4.93E-02	9.56E-03	4.88E-01	1.67E-01	1.04E+00	3.51E-01	1.17E-02
405	361650	3798000	3.61E-01	2.43E-02	4.62E-02	9.40E-03	4.62E-02	9.40E-03	4.50E-01	1.58E-01	9.62E-01	3.55E-01	1.08E-02
406	361700	3798000	3.32E-01	2.39E-02	4.35E-02	9.27E-03	4.35E-02	9.27E-03	4.13E-01	1.49E-01	8.84E-01	3.57E-01	9.88E-03
407	361750	3798000	3.07E-01	2.36E-02	4.10E-02	9.15E-03	4.10E-02	9.15E-03	3.83E-01	1.41E-01	8.19E-01	3.56E-01	9.15E-03
408	361800	3798000	3.01E-01	2.34E-02	3.87E-02	9.05E-03	3.87E-02	9.05E-03	3.74E-01	1.34E-01	8.03E-01	3.53E-01	8.98E-03
409	361850	3798000	2.97E-01	2.31E-02	3.93E-02	8.95E-03	3.93E-02	8.95E-03	3.68E-01	1.29E-01	7.91E-01	3.47E-01	8.84E-03
410	361900	3798000	2.91E-01	2.29E-02	4.04E-02	8.87E-03	4.04E-02	8.87E-03	3.61E-01	1.33E-01	7.76E-01	3.40E-01	8.67E-03
411	361950	3798000	2.84E-01	2.27E-02	4.13E-02	8.80E-03	4.13E-02	8.80E-03	3.52E-01	1.36E-01	7.56E-01	3.31E-01	8.45E-03
412	362000	3798000	2.77E-01	2.26E-02	4.21E-02	8.73E-03	4.21E-02	8.73E-03	3.44E-01	1.39E-01	7.39E-01	3.26E-01	8.26E-03
413	362050	3798000	2.74E-01	2.24E-02	4.27E-02	8.67E-03	4.27E-02	8.67E-03	3.40E-01	1.41E-01	7.31E-01	3.29E-01	8.16E-03
414	362100	3798000	2.73E-01	2.23E-02	4.32E-02	8.62E-03	4.32E-02	8.62E-03	3.39E-01	1.43E-01	7.28E-01	3.30E-01	8.14E-03
415	362150	3798000	2.71E-01	2.22E-02	4.36E-02	8.58E-03	4.36E-02	8.58E-03	3.36E-01	1.44E-01	7.23E-01	3.30E-01	8.07E-03
416	362200	3798000	2.68E-01	2.21E-02	4.38E-02	8.54E-03	4.38E-02	8.54E-03	3.32E-01	1.45E-01	7.14E-01	3.29E-01	7.98E-03
417	362250	3798000	2.64E-01	2.20E-02	4.39E-02	8.50E-03	4.39E-02	8.50E-03	3.27E-01	1.45E-01	7.03E-01	3.27E-01	7.85E-03
418	360600	3798050	5.66E-01	3.82E-02	1.70E-01	1.55E-02	1.70E-01	1.55E-02	7.07E-01	6.12E-01	1.51E+00	9.02E-01	1.69E-02
419	360650	3798050	5.65E-01	3.82E-02	1.50E-01	1.53E-02	1.50E-01	1.53E-02	7.07E-01	5.39E-01	1.51E+00	8.65E-01	1.69E-02
420	360700	3798050	5.70E-01	3.83E-02	1.40E-01	1.52E-02	1.40E-01	1.52E-02	7.12E-01	4.98E-01	1.52E+00	8.17E-01	1.70E-02
421	360750	3798050	5.61E-01	3.90E-02	1.38E-01	1.50E-02	1.38E-01	1.50E-02	7.01E-01	4.79E-01	1.50E+00	8.32E-01	1.67E-02
422	360800	3798050	5.45E-01	4.05E-02	1.45E-01	1.50E-02	1.45E-01	1.50E-02	6.81E-01	4.90E-01	1.45E+00	8.38E-01	1.62E-02
423	360850	3798050	5.33E-01	4.25E-02	1.60E-01	1.53E-02	1.60E-01	1.53E-02	6.66E-01	5.22E-01	1.42E+00	8.32E-01	1.59E-02
424	360900	3798050	5.22E-01	4.47E-02	1.77E-01	1.57E-02	1.77E-01	1.57E-02	6.52E-01	5.58E-01	1.39E+00	8.14E-01	1.55E-02
425	360950	3798050	5.33E-01	4.62E-02	1.88E-01	1.62E-02	1.88E-01	1.62E-02	6.66E-01	5.77E-01	1.42E+00	7.88E-01	1.59E-02
426	361000	3798050	5.36E-01	4.68E-02	2.00E-01	1.62E-02	2.00E-01	1.62E-02	6.69E-01	6.00E-01	1.43E+00	7.55E-01	1.60E-02
427	361050	3798050	5.27E-01	4.49E-02	1.89E-01	1.55E-02	1.89E-01	1.55E-02	6.59E-01	5.91E-01	1.41E+00	7.16E-01	1.57E-02
428	361100	3798050	5.24E-01	4.10E-02	2.00E-01	1.44E-02	2.00E-01	1.44E-02	6.55E-01	6.23E-01	1.40E+00	6.74E-01	1.56E-02
429	361150	3798050	5.14E-01	3.71E-02	1.98E-01	1.35E-02	1.98E-01	1.35E-02	6.42E-01	6.13E-01	1.37E+00	6.29E-01	1.53E-02
430	361200	3798050	5.14E-01	3.42E-02	1.79E-01	1.26E-02	1.79E-01	1.26E-02	6.43E-01	5.58E-01	1.37E+00	5.84E-01	1.53E-02
431	361250	3798050	5.11E-01	3.18E-02	1.50E-01	1.19E-02	1.50E-01	1.19E-02	6.39E-01	4.78E-01	1.36E+00	5.40E-01	1.52E-02
432	361300	3798050	5.01E-01	2.99E-02	1.22E-01	1.13E-02	1.22E-01	1.13E-02	6.25E-01	3.97E-01	1.33E+00	4.97E-01	1.49E-02
433	361350	3798050	4.97E-01	2.84E-02	9.91E-02	1.08E-02	9.91E-02	1.08E-02	6.21E-01	3.30E-01	1.33E+00	4.55E-01	1.48E-02
434	361400	3798050	4.86E-01	2.73E-02	8.12E-02	1.05E-02	8.12E-02	1.05E-02	6.06E-01	2.76E-01	1.30E+00	4.16E-01	1.45E-02
435	361450	3798050	4.68E-01	2.65E-02	6.77E-02	1.02E-02	6.77E-02	1.02E-02	5.84E-01	2.33E-01	1.25E+00	3.83E-01	1.39E-02
436	361500	3798050	4.44E-01	2.58E-02	5.72E-02	9.94E-03	5.72E-02	9.94E-03	5.54E-01	1.99E-01	1.18E+00	3.56E-01	1.32E-02
437	361550	3798050	4.16E-01	2.52E-02	5.12E-02	9.74E-03	5.12E-02	9.74E-03	5.19E-01	1.73E-01	1.11E+00	3.52E-01	1.24E-02
438	361600	3798050	3.84E-01	2.48E-02	4.79E-02	9.57E-03	4.79E-02	9.57E-03	4.80E-01	1.63E-01	1.03E+00	3.54E-01	1.15E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
439	361650	3798050	3.51E-01	2.44E-02	4.49E-02	9.41E-03	4.49E-02	9.41E-03	4.38E-01	1.54E-01	9.36E-01	3.57E-01	1.05E-02
440	361700	3798050	3.21E-01	2.40E-02	4.23E-02	9.27E-03	4.23E-02	9.27E-03	4.00E-01	1.46E-01	8.57E-01	3.57E-01	9.57E-03
441	361750	3798050	3.11E-01	2.37E-02	3.99E-02	9.16E-03	3.99E-02	9.16E-03	3.86E-01	1.38E-01	8.28E-01	3.54E-01	9.25E-03
442	361800	3798050	3.07E-01	2.34E-02	3.88E-02	9.06E-03	3.88E-02	9.06E-03	3.81E-01	1.30E-01	8.17E-01	3.50E-01	9.13E-03
443	361850	3798050	3.01E-01	2.32E-02	3.99E-02	8.97E-03	3.99E-02	8.97E-03	3.73E-01	1.31E-01	8.02E-01	3.43E-01	8.96E-03
444	361900	3798050	2.94E-01	2.30E-02	4.09E-02	8.89E-03	4.09E-02	8.89E-03	3.65E-01	1.35E-01	7.83E-01	3.35E-01	8.75E-03
445	361950	3798050	2.87E-01	2.28E-02	4.17E-02	8.81E-03	4.17E-02	8.81E-03	3.56E-01	1.38E-01	7.64E-01	3.26E-01	8.54E-03
446	362000	3798050	2.81E-01	2.27E-02	4.24E-02	8.75E-03	4.24E-02	8.75E-03	3.49E-01	1.40E-01	7.51E-01	3.29E-01	8.39E-03
447	362050	3798050	2.81E-01	2.25E-02	4.30E-02	8.70E-03	4.30E-02	8.70E-03	3.48E-01	1.42E-01	7.49E-01	3.31E-01	8.37E-03
448	362100	3798050	2.79E-01	2.24E-02	4.34E-02	8.65E-03	4.34E-02	8.65E-03	3.46E-01	1.44E-01	7.44E-01	3.31E-01	8.31E-03
449	362150	3798050	2.76E-01	2.23E-02	4.37E-02	8.60E-03	4.37E-02	8.60E-03	3.42E-01	1.45E-01	7.35E-01	3.30E-01	8.22E-03
450	362200	3798050	2.72E-01	2.22E-02	4.38E-02	8.57E-03	4.38E-02	8.57E-03	3.37E-01	1.45E-01	7.24E-01	3.28E-01	8.09E-03
451	362250	3798050	2.66E-01	2.21E-02	4.38E-02	8.53E-03	4.38E-02	8.53E-03	3.30E-01	1.45E-01	7.10E-01	3.25E-01	7.93E-03
452	360450	3798100	5.98E-01	3.83E-02	2.19E-01	1.58E-02	2.19E-01	1.58E-02	7.47E-01	7.84E-01	1.59E+00	1.03E+00	1.78E-02
453	360500	3798100	6.00E-01	3.85E-02	2.06E-01	1.58E-02	2.06E-01	1.58E-02	7.50E-01	7.41E-01	1.60E+00	9.67E-01	1.79E-02
454	360550	3798100	5.87E-01	3.85E-02	1.90E-01	1.57E-02	1.90E-01	1.57E-02	7.34E-01	6.82E-01	1.57E+00	9.41E-01	1.75E-02
455	360600	3798100	5.80E-01	3.85E-02	1.70E-01	1.56E-02	1.70E-01	1.56E-02	7.24E-01	6.11E-01	1.55E+00	9.13E-01	1.73E-02
456	360650	3798100	5.82E-01	3.84E-02	1.49E-01	1.54E-02	1.49E-01	1.54E-02	7.28E-01	5.34E-01	1.55E+00	8.73E-01	1.74E-02
457	360700	3798100	5.84E-01	3.85E-02	1.42E-01	1.52E-02	1.42E-01	1.52E-02	7.30E-01	5.06E-01	1.56E+00	8.40E-01	1.74E-02
458	360750	3798100	5.72E-01	3.92E-02	1.37E-01	1.51E-02	1.37E-01	1.51E-02	7.14E-01	4.80E-01	1.52E+00	8.57E-01	1.70E-02
459	360800	3798100	5.57E-01	4.10E-02	1.43E-01	1.51E-02	1.43E-01	1.51E-02	6.95E-01	4.85E-01	1.48E+00	8.60E-01	1.66E-02
460	360850	3798100	5.41E-01	4.34E-02	1.59E-01	1.55E-02	1.59E-01	1.55E-02	6.76E-01	5.20E-01	1.44E+00	8.50E-01	1.61E-02
461	360900	3798100	5.40E-01	4.60E-02	1.79E-01	1.61E-02	1.79E-01	1.61E-02	6.74E-01	5.63E-01	1.44E+00	8.29E-01	1.61E-02
462	360950	3798100	5.50E-01	4.79E-02	1.95E-01	1.65E-02	1.95E-01	1.65E-02	6.87E-01	5.96E-01	1.47E+00	7.99E-01	1.64E-02
463	361000	3798100	5.49E-01	4.83E-02	2.09E-01	1.66E-02	2.09E-01	1.66E-02	6.85E-01	6.24E-01	1.46E+00	7.62E-01	1.64E-02
464	361050	3798100	5.41E-01	4.59E-02	2.00E-01	1.58E-02	2.00E-01	1.58E-02	6.76E-01	6.29E-01	1.44E+00	7.20E-01	1.61E-02
465	361100	3798100	5.37E-01	4.13E-02	2.13E-01	1.45E-02	2.13E-01	1.45E-02	6.70E-01	6.58E-01	1.43E+00	6.75E-01	1.60E-02
466	361150	3798100	5.28E-01	3.72E-02	2.04E-01	1.35E-02	2.04E-01	1.35E-02	6.60E-01	6.29E-01	1.41E+00	6.28E-01	1.57E-02
467	361200	3798100	5.30E-01	3.41E-02	1.76E-01	1.25E-02	1.76E-01	1.25E-02	6.63E-01	5.51E-01	1.41E+00	5.81E-01	1.58E-02
468	361250	3798100	5.23E-01	3.16E-02	1.43E-01	1.18E-02	1.43E-01	1.18E-02	6.53E-01	4.57E-01	1.39E+00	5.35E-01	1.56E-02
469	361300	3798100	5.15E-01	2.97E-02	1.13E-01	1.12E-02	1.13E-01	1.12E-02	6.43E-01	3.73E-01	1.37E+00	4.90E-01	1.53E-02
470	361350	3798100	5.07E-01	2.83E-02	9.11E-02	1.08E-02	9.11E-02	1.08E-02	6.33E-01	3.07E-01	1.35E+00	4.48E-01	1.51E-02
471	361400	3798100	4.91E-01	2.73E-02	7.48E-02	1.04E-02	7.48E-02	1.04E-02	6.14E-01	2.57E-01	1.31E+00	4.14E-01	1.46E-02
472	361450	3798100	4.69E-01	2.65E-02	6.26E-02	1.02E-02	6.26E-02	1.02E-02	5.86E-01	2.18E-01	1.25E+00	3.79E-01	1.40E-02
473	361500	3798100	4.41E-01	2.59E-02	5.33E-02	9.95E-03	5.33E-02	9.95E-03	5.51E-01	1.86E-01	1.18E+00	3.57E-01	1.32E-02
474	361550	3798100	4.10E-01	2.53E-02	4.96E-02	9.75E-03	4.96E-02	9.75E-03	5.12E-01	1.69E-01	1.09E+00	3.54E-01	1.22E-02
475	361600	3798100	3.75E-01	2.49E-02	4.64E-02	9.58E-03	4.64E-02	9.58E-03	4.69E-01	1.59E-01	1.00E+00	3.56E-01	1.12E-02
476	361650	3798100	3.40E-01	2.45E-02	4.36E-02	9.43E-03	4.36E-02	9.43E-03	4.24E-01	1.50E-01	9.06E-01	3.57E-01	1.01E-02
477	361700	3798100	3.20E-01	2.41E-02	4.11E-02	9.29E-03	4.11E-02	9.29E-03	3.98E-01	1.42E-01	8.53E-01	3.56E-01	9.54E-03
478	361750	3798100	3.16E-01	2.38E-02	3.87E-02	9.17E-03	3.87E-02	9.17E-03	3.93E-01	1.34E-01	8.44E-01	3.52E-01	9.43E-03
479	361800	3798100	3.11E-01	2.35E-02	3.94E-02	9.07E-03	3.94E-02	9.07E-03	3.86E-01	1.30E-01	8.29E-01	3.46E-01	9.27E-03
480	361850	3798100	3.04E-01	2.33E-02	4.04E-02	8.98E-03	4.04E-02	8.98E-03	3.77E-01	1.33E-01	8.10E-01	3.38E-01	9.06E-03
481	361900	3798100	2.97E-01	2.31E-02	4.13E-02	8.90E-03	4.13E-02	8.90E-03	3.68E-01	1.37E-01	7.91E-01	3.29E-01	8.84E-03
482	361950	3798100	2.90E-01	2.29E-02	4.21E-02	8.83E-03	4.21E-02	8.83E-03	3.61E-01	1.39E-01	7.75E-01	3.28E-01	8.66E-03
483	362000	3798100	2.89E-01	2.27E-02	4.28E-02	8.77E-03	4.28E-02	8.77E-03	3.59E-01	1.42E-01	7.70E-01	3.31E-01	8.61E-03
484	362050	3798100	2.87E-01	2.26E-02	4.32E-02	8.72E-03	4.32E-02	8.72E-03	3.56E-01	1.43E-01	7.66E-01	3.32E-01	8.56E-03
485	362100	3798100	2.84E-01	2.25E-02	4.36E-02	8.67E-03	4.36E-02	8.67E-03	3.52E-01	1.44E-01	7.58E-01	3.31E-01	8.47E-03
486	362150	3798100	2.80E-01	2.24E-02	4.38E-02	8.63E-03	4.38E-02	8.63E-03	3.47E-01	1.45E-01	7.46E-01	3.29E-01	8.34E-03
487	362200	3798100	2.75E-01	2.23E-02	4.38E-02	8.59E-03	4.38E-02	8.59E-03	3.40E-01	1.45E-01	7.32E-01	3.26E-01	8.18E-03
488	362250	3798100	2.68E-01	2.22E-02	4.36E-02	8.56E-03	4.36E-02	8.56E-03	3.33E-01	1.45E-01	7.15E-01	3.22E-01	7.99E-03
489	360350	3798150	6.11E-01	3.74E-02	2.31E-01	1.55E-02	2.31E-01	1.55E-02	7.64E-01	8.26E-01	1.63E+00	1.19E+00	1.82E-02
490	360400	3798150	6.20E-01	3.82E-02	2.30E-01	1.58E-02	2.30E-01	1.58E-02	7.75E-01	8.22E-01	1.65E+00	1.13E+00	1.85E-02
491	360450	3798150	6.15E-01	3.87E-02	2.22E-01	1.59E-02	2.22E-01	1.59E-02	7.69E-01	7.95E-01	1.64E+00	1.05E+00	1.83E-02
492	360500	3798150	6.16E-01	3.90E-02	2.08E-01	1.60E-02	2.08E-01	1.60E-02	7.70E-01	7.48E-01	1.64E+00	9.71E-01	1.84E-02
493	360550	3798150	6.00E-01	3.89E-02	1.90E-01	1.59E-02	1.90E-01	1.59E-02	7.50E-01	6.84E-01	1.60E+00	9.55E-01	1.79E-02
494	360600	3798150	5.93E-01	3.87E-02	1.69E-01	1.57E-02	1.69E-01	1.57E-02	7.41E-01	6.10E-01	1.58E+00	9.24E-01	1.77E-02
495	360650	3798150	5.99E-01	3.86E-02	1.53E-01	1.55E-02	1.53E-01	1.55E-02	7.49E-01	5.45E-01	1.60E+00	8.80E-01	1.79E-02
496	360700	3798150	5.98E-01	3.87E-02	1.44E-01	1.53E-02	1.44E-01	1.53E-02	7.47E-01	5.14E-01	1.59E+00	8.67E-01	1.78E-02
497	360750	3798150	5.83E-01	3.94E-02	1.36E-01	1.52E-02	1.36E-01	1.52E-02	7.29E-01	4.83E-01	1.56E+00	8.81E-01	1.74E-02
498	360800	3798150	5.68E-01	4.15E-02	1.40E-01	1.52E-02	1.40E-01	1.52E-02	7.09E-01	4.79E-01	1.51E+00	8.81E-01	1.69E-02
499	360850	3798150	5.56E-01	4.42E-02	1.57E-01	1.58E-02	1.57E-01	1.58E-02	6.95E-01	5.14E-01	1.48E+00	8.67E-01	1.66E-02
500	360900	3798150	5.59E-01	4.74E-02	1.80E-01	1.64E-02	1.80E-01	1.64E-02	6.99E-01	5.66E-01	1.49E+00	8.42E-01	1.67E-02
501	360950	3798150	5.66E-01	4.97E-02	2.03E-01	1.69E-02	2.03E-01	1.69E-02	7.07E-01	6.16E-01	1.51E+00	8.08E-01	1.69E-02
502	361000	3798150	5.61E-01	5.01E-02	2.19E-01	1.70E-02	2.19E-01	1.70E-02	7.01E-01	6.48E-01	1.50E+00	7.68E-01	1.67E-02
503	361050	3798150	5.56E-01	4.69E-02	2.16E-01	1.60E-02	2.16E-01	1.60E-02	6.95E-01	6.72E-01	1.48E+00	7.22E-01	1.66E-02
504	361100	3798150	5.48E-01	4.14E-02	2.25E-01	1.46E-02	2.25E-01	1.46E-02	6.84E-01	6.92E-01	1.46E+00	6.74E-01	1.63E-02
505	361150	3798150	5.47E-01	3.72E-02	2.06E-01	1.34E-02	2.06E-01	1.34E-02	6.83E-01	6.36E-01	1.46E+00	6.25E-01	1.63E-02
506	361200	3798150	5.45E-01	3.38E-02	1.69E-01	1.25E-02	1.69E-01	1.25E-02	6.81E-01	5.32E-01	1.45E+00	5.76E-01	1.62E-02
507	361250	3798150	5.33E-01	3.13E-02	1.32E-01	1.17E-02	1.32E-01	1.17E-02	6.66E-01	4.28E-01	1.42E+00	5.28E-01	1.59E-02
508	361300	3798150	5.28E-01	2.95E-02	1.03E-01	1.12E-02	1.03E-01	1.12E-02	6.59E-01	3.45E-01	1.41E+00	4.83E-01	1.57E-02
509	361350	3798150	5.15E-01	2.83E-02	8.32E-02	1.08E-02	8.32E-02	1.08E-02	6.43E-01	2.84E-01	1.37E+00	4.47E-01	1.54E-02
510	361400	3798150	4.95E-01	2.74E-02	6.88E-02	1.04E-02	6.88E-02	1.04E-02	6.18E-01	2.39E-01	1.32E+00	4.11E-01	1.48E-02
511	361450	3798150	4.68E-01	2.66E-02	5.79E-02	1.02E-02	5.79E-02	1.02E-02	5.85E-01	2.03E-01	1.25E+00	3.74E-01	1.40E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
512	361500	3798150	4.36E-01	2.60E-02	5.15E-02	9.97E-03	5.15E-02	9.97E-03	5.45E-01	1.76E-01	1.16E+00	3.59E-01	1.30E-02
513	361550	3798150	4.01E-01	2.55E-02	4.80E-02	9.78E-03	4.80E-02	9.78E-03	5.01E-01	1.65E-01	1.07E+00	3.54E-01	1.20E-02
514	361600	3798150	3.64E-01	2.50E-02	4.50E-02	9.61E-03	4.50E-02	9.61E-03	4.55E-01	1.56E-01	9.71E-01	3.57E-01	1.09E-02
515	361650	3798150	3.30E-01	2.46E-02	4.24E-02	9.46E-03	4.24E-02	9.46E-03	4.10E-01	1.47E-01	8.79E-01	3.57E-01	9.82E-03
516	361700	3798150	3.27E-01	2.42E-02	3.99E-02	9.32E-03	3.99E-02	9.32E-03	4.06E-01	1.38E-01	8.71E-01	3.54E-01	9.73E-03
517	361750	3798150	3.22E-01	2.39E-02	3.88E-02	9.19E-03	3.88E-02	9.19E-03	4.00E-01	1.30E-01	8.57E-01	3.48E-01	9.58E-03
518	361800	3798150	3.15E-01	2.36E-02	3.99E-02	9.09E-03	3.99E-02	9.09E-03	3.91E-01	1.32E-01	8.39E-01	3.41E-01	9.38E-03
519	361850	3798150	3.07E-01	2.34E-02	4.09E-02	9.00E-03	4.09E-02	9.00E-03	3.81E-01	1.35E-01	8.19E-01	3.32E-01	9.15E-03
520	361900	3798150	3.01E-01	2.32E-02	4.18E-02	8.92E-03	4.18E-02	8.92E-03	3.74E-01	1.38E-01	8.02E-01	3.27E-01	8.97E-03
521	361950	3798150	2.97E-01	2.30E-02	4.25E-02	8.86E-03	4.25E-02	8.86E-03	3.69E-01	1.41E-01	7.93E-01	3.30E-01	8.86E-03
522	362000	3798150	2.96E-01	2.28E-02	4.30E-02	8.80E-03	4.30E-02	8.80E-03	3.67E-01	1.43E-01	7.89E-01	3.32E-01	8.81E-03
523	362050	3798150	2.93E-01	2.27E-02	4.34E-02	8.74E-03	4.34E-02	8.74E-03	3.63E-01	1.44E-01	7.81E-01	3.32E-01	8.72E-03
524	362100	3798150	2.89E-01	2.25E-02	4.37E-02	8.70E-03	4.37E-02	8.70E-03	3.58E-01	1.45E-01	7.69E-01	3.30E-01	8.60E-03
525	362150	3798150	2.83E-01	2.24E-02	4.37E-02	8.66E-03	4.37E-02	8.66E-03	3.51E-01	1.45E-01	7.55E-01	3.27E-01	8.44E-03
526	362200	3798150	2.77E-01	2.23E-02	4.36E-02	8.62E-03	4.36E-02	8.62E-03	3.43E-01	1.45E-01	7.38E-01	3.23E-01	8.24E-03
527	362250	3798150	2.69E-01	2.22E-02	4.34E-02	8.59E-03	4.34E-02	8.59E-03	3.34E-01	1.44E-01	7.18E-01	3.18E-01	8.02E-03
528	362300	3798150	2.61E-01	2.22E-02	4.30E-02	8.56E-03	4.30E-02	8.56E-03	3.24E-01	1.43E-01	6.96E-01	3.12E-01	7.78E-03
529	360300	3798200	6.31E-01	3.68E-02	2.31E-01	1.52E-02	2.31E-01	1.52E-02	7.89E-01	8.24E-01	1.68E+00	1.26E+00	1.88E-02
530	360350	3798200	6.29E-01	3.79E-02	2.35E-01	1.57E-02	2.35E-01	1.57E-02	7.87E-01	8.42E-01	1.68E+00	1.21E+00	1.88E-02
531	360400	3798200	6.37E-01	3.87E-02	2.33E-01	1.60E-02	2.33E-01	1.60E-02	7.97E-01	8.36E-01	1.70E+00	1.15E+00	1.90E-02
532	360450	3798200	6.34E-01	3.92E-02	2.25E-01	1.61E-02	2.25E-01	1.61E-02	7.92E-01	8.06E-01	1.69E+00	1.07E+00	1.89E-02
533	360500	3798200	6.32E-01	3.94E-02	2.10E-01	1.61E-02	2.10E-01	1.61E-02	7.90E-01	7.54E-01	1.69E+00	9.87E-01	1.88E-02
534	360550	3798200	6.16E-01	3.93E-02	1.91E-01	1.60E-02	1.91E-01	1.60E-02	7.70E-01	6.86E-01	1.64E+00	9.68E-01	1.84E-02
535	360600	3798200	6.07E-01	3.91E-02	1.68E-01	1.58E-02	1.68E-01	1.58E-02	7.58E-01	6.07E-01	1.62E+00	9.34E-01	1.81E-02
536	360650	3798200	6.16E-01	3.88E-02	1.56E-01	1.56E-02	1.56E-01	1.56E-02	7.70E-01	5.56E-01	1.64E+00	8.86E-01	1.84E-02
537	360700	3798200	6.11E-01	3.88E-02	1.46E-01	1.53E-02	1.46E-01	1.53E-02	7.64E-01	5.23E-01	1.63E+00	8.94E-01	1.82E-02
538	360750	3798200	5.98E-01	3.95E-02	1.36E-01	1.52E-02	1.36E-01	1.52E-02	7.47E-01	4.87E-01	1.59E+00	9.06E-01	1.78E-02
539	360800	3798200	5.78E-01	4.19E-02	1.36E-01	1.53E-02	1.36E-01	1.53E-02	7.22E-01	4.71E-01	1.54E+00	9.02E-01	1.72E-02
540	360850	3798200	5.75E-01	4.51E-02	1.53E-01	1.60E-02	1.53E-01	1.60E-02	7.19E-01	5.06E-01	1.53E+00	8.84E-01	1.71E-02
541	360900	3798200	5.79E-01	4.90E-02	1.80E-01	1.68E-02	1.80E-01	1.68E-02	7.23E-01	5.66E-01	1.54E+00	8.55E-01	1.72E-02
542	360950	3798200	5.82E-01	5.18E-02	2.11E-01	1.74E-02	2.11E-01	1.74E-02	7.27E-01	6.37E-01	1.55E+00	8.17E-01	1.73E-02
543	361000	3798200	5.72E-01	5.20E-02	2.29E-01	1.75E-02	2.29E-01	1.75E-02	7.15E-01	6.73E-01	1.53E+00	7.73E-01	1.71E-02
544	361050	3798200	5.71E-01	4.78E-02	2.34E-01	1.62E-02	2.34E-01	1.62E-02	7.13E-01	7.20E-01	1.52E+00	7.24E-01	1.70E-02
545	361100	3798200	5.60E-01	4.13E-02	2.36E-01	1.46E-02	2.36E-01	1.46E-02	7.00E-01	7.20E-01	1.49E+00	6.73E-01	1.67E-02
546	361150	3798200	5.65E-01	3.69E-02	2.03E-01	1.33E-02	2.03E-01	1.33E-02	7.06E-01	6.26E-01	1.51E+00	6.21E-01	1.68E-02
547	361200	3798200	5.58E-01	3.35E-02	1.57E-01	1.24E-02	1.57E-01	1.24E-02	6.97E-01	5.00E-01	1.49E+00	5.70E-01	1.66E-02
548	361250	3798200	5.47E-01	3.11E-02	1.19E-01	1.16E-02	1.19E-01	1.16E-02	6.83E-01	3.93E-01	1.46E+00	5.21E-01	1.63E-02
549	361300	3798200	5.38E-01	2.95E-02	9.35E-02	1.11E-02	9.35E-02	1.11E-02	6.73E-01	3.17E-01	1.44E+00	4.83E-01	1.60E-02
550	361350	3798200	5.21E-01	2.84E-02	7.60E-02	1.08E-02	7.60E-02	1.08E-02	6.51E-01	2.63E-01	1.39E+00	4.46E-01	1.55E-02
551	361400	3798200	4.96E-01	2.75E-02	6.34E-02	1.05E-02	6.34E-02	1.05E-02	6.19E-01	2.22E-01	1.32E+00	4.07E-01	1.48E-02
552	361450	3798200	4.65E-01	2.68E-02	5.38E-02	1.02E-02	5.38E-02	1.02E-02	5.80E-01	1.90E-01	1.24E+00	3.66E-01	1.39E-02
553	361500	3798200	4.29E-01	2.62E-02	4.97E-02	1.00E-02	4.97E-02	1.00E-02	5.36E-01	1.71E-01	1.14E+00	3.60E-01	1.28E-02
554	361550	3798200	3.90E-01	2.57E-02	4.65E-02	9.81E-03	4.65E-02	9.81E-03	4.88E-01	1.61E-01	1.04E+00	3.56E-01	1.16E-02
555	361600	3798200	3.51E-01	2.52E-02	4.37E-02	9.64E-03	4.37E-02	9.64E-03	4.38E-01	1.52E-01	9.35E-01	3.57E-01	1.05E-02
556	361650	3798200	3.37E-01	2.48E-02	4.11E-02	9.49E-03	4.11E-02	9.49E-03	4.19E-01	1.43E-01	8.99E-01	3.55E-01	1.00E-02
557	361700	3798200	3.32E-01	2.44E-02	3.87E-02	9.35E-03	3.87E-02	9.35E-03	4.13E-01	1.35E-01	8.87E-01	3.50E-01	9.91E-03
558	361750	3798200	3.26E-01	2.40E-02	3.95E-02	9.22E-03	3.95E-02	9.22E-03	4.05E-01	1.30E-01	8.69E-01	3.44E-01	9.71E-03
559	361800	3798200	3.18E-01	2.37E-02	4.05E-02	9.11E-03	4.05E-02	9.11E-03	3.95E-01	1.34E-01	8.48E-01	3.35E-01	9.47E-03
560	361850	3798200	3.12E-01	2.35E-02	4.14E-02	9.02E-03	4.14E-02	9.02E-03	3.87E-01	1.37E-01	8.31E-01	3.26E-01	9.29E-03
561	361900	3798200	3.06E-01	2.33E-02	4.22E-02	8.95E-03	4.22E-02	8.95E-03	3.80E-01	1.40E-01	8.15E-01	3.30E-01	9.11E-03
562	361950	3798200	3.05E-01	2.31E-02	4.28E-02	8.88E-03	4.28E-02	8.88E-03	3.78E-01	1.42E-01	8.12E-01	3.32E-01	9.08E-03
563	362000	3798200	3.02E-01	2.29E-02	4.33E-02	8.82E-03	4.33E-02	8.82E-03	3.75E-01	1.44E-01	8.05E-01	3.32E-01	8.99E-03
564	362050	3798200	2.98E-01	2.28E-02	4.35E-02	8.77E-03	4.35E-02	8.77E-03	3.69E-01	1.45E-01	7.94E-01	3.31E-01	8.87E-03
565	362100	3798200	2.92E-01	2.26E-02	4.36E-02	8.73E-03	4.36E-02	8.73E-03	3.62E-01	1.45E-01	7.79E-01	3.28E-01	8.70E-03
566	362150	3798200	2.85E-01	2.25E-02	4.36E-02	8.69E-03	4.36E-02	8.69E-03	3.54E-01	1.45E-01	7.61E-01	3.24E-01	8.51E-03
567	362200	3798200	2.78E-01	2.24E-02	4.34E-02	8.65E-03	4.34E-02	8.65E-03	3.45E-01	1.44E-01	7.41E-01	3.19E-01	8.28E-03
568	362250	3798200	2.69E-01	2.23E-02	4.30E-02	8.62E-03	4.30E-02	8.62E-03	3.34E-01	1.43E-01	7.18E-01	3.13E-01	8.03E-03
569	362300	3798200	2.60E-01	2.22E-02	4.25E-02	8.59E-03	4.25E-02	8.59E-03	3.23E-01	1.41E-01	6.94E-01	3.06E-01	7.76E-03
570	360200	3798250	6.56E-01	3.58E-02	2.07E-01	1.47E-02	2.07E-01	1.47E-02	8.21E-01	7.37E-01	1.75E+00	1.29E+00	1.96E-02
571	360250	3798250	6.54E-01	3.67E-02	2.24E-01	1.51E-02	2.24E-01	1.51E-02	8.18E-01	7.99E-01	1.74E+00	1.30E+00	1.95E-02
572	360300	3798250	6.47E-01	3.73E-02	2.35E-01	1.54E-02	2.35E-01	1.54E-02	8.10E-01	8.40E-01	1.73E+00	1.28E+00	1.93E-02
573	360350	3798250	6.49E-01	3.84E-02	2.40E-01	1.59E-02	2.40E-01	1.59E-02	8.11E-01	8.58E-01	1.73E+00	1.24E+00	1.93E-02
574	360400	3798250	6.55E-01	3.92E-02	2.37E-01	1.62E-02	2.37E-01	1.62E-02	8.20E-01	8.49E-01	1.75E+00	1.17E+00	1.95E-02
575	360450	3798250	6.52E-01	3.97E-02	2.27E-01	1.63E-02	2.27E-01	1.63E-02	8.16E-01	8.16E-01	1.74E+00	1.08E+00	1.94E-02
576	360500	3798250	6.48E-01	3.99E-02	2.11E-01	1.63E-02	2.11E-01	1.63E-02	8.11E-01	7.60E-01	1.73E+00	1.01E+00	1.93E-02
577	360550	3798250	6.33E-01	3.98E-02	1.91E-01	1.62E-02	1.91E-01	1.62E-02	7.91E-01	6.87E-01	1.69E+00	9.81E-01	1.89E-02
578	360600	3798250	6.24E-01	3.95E-02	1.68E-01	1.59E-02	1.68E-01	1.59E-02	7.80E-01	6.03E-01	1.66E+00	9.43E-01	1.86E-02
579	360650	3798250	6.33E-01	3.91E-02	1.59E-01	1.56E-02	1.59E-01	1.56E-02	7.91E-01	5.68E-01	1.69E+00	8.97E-01	1.89E-02
580	360700	3798250	6.24E-01	3.92E-02	1.49E-01	1.54E-02	1.49E-01	1.54E-02	7.80E-01	5.31E-01	1.66E+00	9.22E-01	1.86E-02
581	360750	3798250	6.11E-01	4.01E-02	1.37E-01	1.52E-02	1.37E-01	1.52E-02	7.64E-01	4.90E-01	1.63E+00	9.31E-01	1.82E-02
582	360800	3798250	5.91E-01	4.20E-02	1.32E-01	1.54E-02	1.32E-01	1.54E-02	7.39E-01	4.62E-01	1.57E+00	9.23E-01	1.76E-02
583	360850	3798250	5.94E-01	4.58E-02	1.48E-01	1.62E-02	1.48E-01	1.62E-02	7.43E-01	4.93E-01	1.58E+00	9.00E-01	1.77E-02
584	360900	3798250	5.98E-01	5.05E-02	1.79E-01	1.72E-02	1.79E-01	1.72E-02	7.47E-01	5.64E-01	1.59E+00	8.67E-01	1.78E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
585	360950	3798250	5.96E-01	5.41E-02	2.20E-01	1.80E-02	2.20E-01	1.80E-02	7.45E-01	6.59E-01	1.59E+00	8.25E-01	1.78E-02
586	361000	3798250	5.90E-01	5.40E-02	2.39E-01	1.79E-02	2.39E-01	1.79E-02	7.38E-01	6.97E-01	1.57E+00	7.76E-01	1.76E-02
587	361850	3798250	3.16E-01	2.36E-02	4.19E-02	9.05E-03	4.19E-02	9.05E-03	3.92E-01	1.39E-01	8.42E-01	3.29E-01	9.41E-03
588	361900	3798250	3.14E-01	2.34E-02	4.25E-02	8.97E-03	4.25E-02	8.97E-03	3.90E-01	1.41E-01	8.37E-01	3.31E-01	9.35E-03
589	361950	3798250	3.11E-01	2.32E-02	4.31E-02	8.90E-03	4.31E-02	8.90E-03	3.86E-01	1.43E-01	8.30E-01	3.32E-01	9.27E-03
590	362000	3798250	3.07E-01	2.30E-02	4.34E-02	8.84E-03	4.34E-02	8.84E-03	3.81E-01	1.44E-01	8.19E-01	3.31E-01	9.15E-03
591	362050	3798250	3.01E-01	2.28E-02	4.35E-02	8.79E-03	4.35E-02	8.79E-03	3.74E-01	1.45E-01	8.04E-01	3.28E-01	8.98E-03
592	362100	3798250	2.95E-01	2.27E-02	4.35E-02	8.75E-03	4.35E-02	8.75E-03	3.66E-01	1.45E-01	7.86E-01	3.25E-01	8.78E-03
593	362150	3798250	2.87E-01	2.26E-02	4.33E-02	8.71E-03	4.33E-02	8.71E-03	3.56E-01	1.44E-01	7.65E-01	3.20E-01	8.54E-03
594	362200	3798250	2.78E-01	2.25E-02	4.30E-02	8.68E-03	4.30E-02	8.68E-03	3.45E-01	1.43E-01	7.41E-01	3.14E-01	8.28E-03
595	362250	3798250	2.68E-01	2.24E-02	4.25E-02	8.65E-03	4.25E-02	8.65E-03	3.33E-01	1.41E-01	7.16E-01	3.07E-01	8.00E-03
596	362300	3798250	2.58E-01	2.23E-02	4.18E-02	8.62E-03	4.18E-02	8.62E-03	3.20E-01	1.39E-01	6.89E-01	2.99E-01	7.70E-03
597	360200	3798300	6.77E-01	3.63E-02	2.11E-01	1.49E-02	2.11E-01	1.49E-02	8.48E-01	7.50E-01	1.81E+00	1.32E+00	2.02E-02
598	360250	3798300	6.76E-01	3.72E-02	2.28E-01	1.53E-02	2.28E-01	1.53E-02	8.46E-01	8.14E-01	1.80E+00	1.33E+00	2.01E-02
599	360300	3798300	6.64E-01	3.79E-02	2.40E-01	1.56E-02	2.40E-01	1.56E-02	8.31E-01	8.57E-01	1.77E+00	1.31E+00	1.98E-02
600	360350	3798300	6.68E-01	3.90E-02	2.44E-01	1.61E-02	2.44E-01	1.61E-02	8.36E-01	8.74E-01	1.78E+00	1.27E+00	1.99E-02
601	360400	3798300	6.74E-01	3.98E-02	2.41E-01	1.64E-02	2.41E-01	1.64E-02	8.43E-01	8.63E-01	1.80E+00	1.19E+00	2.01E-02
602	360450	3798300	6.71E-01	4.03E-02	2.30E-01	1.65E-02	2.30E-01	1.65E-02	8.40E-01	8.26E-01	1.79E+00	1.11E+00	2.00E-02
603	360500	3798300	6.65E-01	4.04E-02	2.13E-01	1.65E-02	2.13E-01	1.65E-02	8.31E-01	7.65E-01	1.77E+00	1.04E+00	1.98E-02
604	360550	3798300	6.50E-01	4.02E-02	1.91E-01	1.63E-02	1.91E-01	1.63E-02	8.12E-01	6.87E-01	1.73E+00	9.93E-01	1.94E-02
605	360600	3798300	6.43E-01	3.99E-02	1.72E-01	1.61E-02	1.72E-01	1.61E-02	8.05E-01	6.14E-01	1.72E+00	9.52E-01	1.92E-02
606	360650	3798300	6.49E-01	3.94E-02	1.62E-01	1.57E-02	1.62E-01	1.57E-02	8.12E-01	5.80E-01	1.73E+00	9.28E-01	1.94E-02
607	360700	3798300	6.41E-01	3.95E-02	1.51E-01	1.54E-02	1.51E-01	1.54E-02	8.02E-01	5.39E-01	1.71E+00	9.51E-01	1.91E-02
608	360750	3798300	6.24E-01	4.07E-02	1.38E-01	1.53E-02	1.38E-01	1.53E-02	7.81E-01	4.94E-01	1.66E+00	9.55E-01	1.86E-02
609	360800	3798300	6.14E-01	4.21E-02	1.29E-01	1.55E-02	1.29E-01	1.55E-02	7.68E-01	4.54E-01	1.64E+00	9.43E-01	1.83E-02
610	360850	3798300	6.13E-01	4.62E-02	1.41E-01	1.63E-02	1.41E-01	1.63E-02	7.66E-01	4.76E-01	1.63E+00	9.16E-01	1.83E-02
611	360900	3798300	6.16E-01	5.18E-02	1.76E-01	1.76E-02	1.76E-01	1.76E-02	7.70E-01	5.56E-01	1.64E+00	8.77E-01	1.84E-02
612	360950	3798300	6.09E-01	5.64E-02	2.30E-01	1.86E-02	2.30E-01	1.86E-02	7.62E-01	6.83E-01	1.62E+00	8.31E-01	1.82E-02
613	361850	3798300	3.23E-01	2.37E-02	4.22E-02	9.07E-03	4.22E-02	9.07E-03	4.02E-01	1.41E-01	8.62E-01	3.30E-01	9.63E-03
614	361900	3798300	3.21E-01	2.35E-02	4.28E-02	8.99E-03	4.28E-02	8.99E-03	3.99E-01	1.43E-01	8.56E-01	3.31E-01	9.56E-03
615	361950	3798300	3.17E-01	2.32E-02	4.32E-02	8.93E-03	4.32E-02	8.93E-03	3.94E-01	1.44E-01	8.45E-01	3.31E-01	9.44E-03
616	362000	3798300	3.11E-01	2.31E-02	4.34E-02	8.87E-03	4.34E-02	8.87E-03	3.87E-01	1.45E-01	8.30E-01	3.29E-01	9.27E-03
617	362050	3798300	3.04E-01	2.29E-02	4.34E-02	8.82E-03	4.34E-02	8.82E-03	3.78E-01	1.45E-01	8.11E-01	3.25E-01	9.07E-03
618	362100	3798300	2.96E-01	2.28E-02	4.33E-02	8.78E-03	4.33E-02	8.78E-03	3.68E-01	1.44E-01	7.90E-01	3.20E-01	8.82E-03
619	362150	3798300	2.87E-01	2.27E-02	4.29E-02	8.74E-03	4.29E-02	8.74E-03	3.56E-01	1.43E-01	7.65E-01	3.15E-01	8.55E-03
620	362200	3798300	2.77E-01	2.26E-02	4.25E-02	8.70E-03	4.25E-02	8.70E-03	3.44E-01	1.41E-01	7.39E-01	3.08E-01	8.25E-03
621	362250	3798300	2.66E-01	2.25E-02	4.18E-02	8.67E-03	4.18E-02	8.67E-03	3.31E-01	1.39E-01	7.10E-01	3.00E-01	7.94E-03
622	362300	3798300	2.55E-01	2.24E-02	4.11E-02	8.65E-03	4.11E-02	8.65E-03	3.17E-01	1.36E-01	6.81E-01	2.91E-01	7.61E-03
623	359950	3798350	7.11E-01	3.09E-02	1.39E-01	1.23E-02	1.39E-01	1.23E-02	8.90E-01	4.97E-01	1.90E+00	1.03E+00	2.12E-02
624	360000	3798350	7.11E-01	3.18E-02	1.59E-01	1.28E-02	1.59E-01	1.28E-02	8.90E-01	5.62E-01	1.90E+00	1.05E+00	2.12E-02
625	360050	3798350	7.14E-01	3.30E-02	1.78E-01	1.34E-02	1.78E-01	1.34E-02	8.94E-01	6.30E-01	1.90E+00	1.15E+00	2.13E-02
626	360100	3798350	7.09E-01	3.43E-02	1.93E-01	1.40E-02	1.93E-01	1.40E-02	8.88E-01	6.85E-01	1.89E+00	1.24E+00	2.11E-02
627	360150	3798350	7.01E-01	3.56E-02	2.03E-01	1.46E-02	2.03E-01	1.46E-02	8.78E-01	7.23E-01	1.87E+00	1.31E+00	2.09E-02
628	360200	3798350	7.00E-01	3.68E-02	2.14E-01	1.51E-02	2.14E-01	1.51E-02	8.76E-01	7.63E-01	1.87E+00	1.35E+00	2.09E-02
629	360250	3798350	6.99E-01	3.78E-02	2.33E-01	1.55E-02	2.33E-01	1.55E-02	8.74E-01	8.30E-01	1.86E+00	1.36E+00	2.08E-02
630	360300	3798350	6.85E-01	3.85E-02	2.45E-01	1.59E-02	2.45E-01	1.59E-02	8.58E-01	8.74E-01	1.83E+00	1.34E+00	2.04E-02
631	360350	3798350	6.89E-01	3.98E-02	2.49E-01	1.63E-02	2.49E-01	1.63E-02	8.62E-01	8.90E-01	1.84E+00	1.29E+00	2.05E-02
632	360400	3798350	6.93E-01	4.06E-02	2.44E-01	1.67E-02	2.44E-01	1.67E-02	8.67E-01	8.77E-01	1.85E+00	1.22E+00	2.07E-02
633	360450	3798350	6.91E-01	4.09E-02	2.32E-01	1.68E-02	2.32E-01	1.68E-02	8.65E-01	8.35E-01	1.84E+00	1.14E+00	2.06E-02
634	360500	3798350	6.81E-01	4.10E-02	2.14E-01	1.67E-02	2.14E-01	1.67E-02	8.52E-01	7.70E-01	1.82E+00	1.07E+00	2.03E-02
635	360550	3798350	6.66E-01	4.07E-02	1.90E-01	1.65E-02	1.90E-01	1.65E-02	8.34E-01	6.86E-01	1.78E+00	1.01E+00	1.99E-02
636	360600	3798350	6.66E-01	4.03E-02	1.76E-01	1.62E-02	1.76E-01	1.62E-02	8.33E-01	6.30E-01	1.78E+00	9.59E-01	1.99E-02
637	360650	3798350	6.66E-01	3.98E-02	1.65E-01	1.58E-02	1.65E-01	1.58E-02	8.33E-01	5.92E-01	1.77E+00	9.60E-01	1.98E-02
638	360700	3798350	6.59E-01	3.97E-02	1.53E-01	1.55E-02	1.53E-01	1.55E-02	8.24E-01	5.47E-01	1.76E+00	9.79E-01	1.96E-02
639	360750	3798350	6.36E-01	4.11E-02	1.39E-01	1.54E-02	1.39E-01	1.54E-02	7.96E-01	4.98E-01	1.70E+00	9.79E-01	1.90E-02
640	360800	3798350	6.37E-01	4.26E-02	1.32E-01	1.56E-02	1.32E-01	1.56E-02	7.96E-01	4.67E-01	1.70E+00	9.62E-01	1.90E-02
641	360850	3798350	6.31E-01	4.62E-02	1.37E-01	1.63E-02	1.37E-01	1.63E-02	7.89E-01	4.84E-01	1.68E+00	9.30E-01	1.88E-02
642	360900	3798350	6.33E-01	5.28E-02	1.70E-01	1.78E-02	1.70E-01	1.78E-02	7.92E-01	5.40E-01	1.69E+00	8.87E-01	1.89E-02
643	360950	3798350	6.26E-01	5.86E-02	2.39E-01	1.92E-02	2.39E-01	1.92E-02	7.83E-01	7.08E-01	1.67E+00	8.35E-01	1.87E-02
644	361850	3798350	3.31E-01	2.38E-02	4.25E-02	9.10E-03	4.25E-02	9.10E-03	4.11E-01	1.42E-01	8.83E-01	3.30E-01	9.86E-03
645	361900	3798350	3.27E-01	2.35E-02	4.30E-02	9.01E-03	4.30E-02	9.01E-03	4.06E-01	1.43E-01	8.72E-01	3.30E-01	9.75E-03
646	361950	3798350	3.21E-01	2.33E-02	4.32E-02	8.95E-03	4.32E-02	8.95E-03	3.99E-01	1.44E-01	8.57E-01	3.29E-01	9.58E-03
647	362000	3798350	3.14E-01	2.31E-02	4.33E-02	8.89E-03	4.33E-02	8.89E-03	3.90E-01	1.44E-01	8.38E-01	3.25E-01	9.37E-03
648	362050	3798350	3.06E-01	2.30E-02	4.32E-02	8.84E-03	4.32E-02	8.84E-03	3.80E-01	1.44E-01	8.16E-01	3.21E-01	9.11E-03
649	362100	3798350	2.96E-01	2.29E-02	4.29E-02	8.80E-03	4.29E-02	8.80E-03	3.68E-01	1.43E-01	7.90E-01	3.15E-01	8.83E-03
650	362150	3798350	2.86E-01	2.27E-02	4.24E-02	8.76E-03	4.24E-02	8.76E-03	3.55E-01	1.41E-01	7.62E-01	3.08E-01	8.52E-03
651	362200	3798350	2.75E-01	2.26E-02	4.18E-02	8.73E-03	4.18E-02	8.73E-03	3.41E-01	1.39E-01	7.33E-01	3.00E-01	8.19E-03
652	362250	3798350	2.63E-01	2.25E-02	4.11E-02	8.70E-03	4.11E-02	8.70E-03	3.27E-01	1.37E-01	7.02E-01	2.92E-01	7.84E-03
653	362300	3798350	2.52E-01	2.25E-02	4.02E-02	8.67E-03	4.02E-02	8.67E-03	3.13E-01	1.34E-01	6.72E-01	2.83E-01	7.51E-03
654	359850	3798400	6.86E-01	3.00E-02	1.54E-01	1.16E-02	1.54E-01	1.16E-02	8.58E-01	5.54E-01	1.83E+00	1.14E+00	2.04E-02
655	359900	3798400	7.19E-01	3.03E-02	1.44E-01	1.19E-02	1.44E-01	1.19E-02	9.00E-01	5.17E-01	1.92E+00	1.05E+00	2.14E-02
656	359950	3798400	7.32E-01	3.10E-02	1.43E-01	1.24E-02	1.43E-01	1.24E-02	9.16E-01	5.12E-01	1.95E+00	1.05E+00	2.18E-02
657	360000	3798400	7.36E-01	3.21E-02	1.60E-01	1.29E-02	1.60E-01	1.29E-02	9.21E-01	5.66E-01	1.96E+00	1.07E+00	2.19E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
658	360050	3798400	7.36E-01	3.33E-02	1.80E-01	1.35E-02	1.80E-01	1.35E-02	9.21E-01	6.38E-01	1.96E+00	1.17E+00	2.19E-02
659	360100	3798400	7.35E-01	3.47E-02	1.96E-01	1.42E-02	1.96E-01	1.42E-02	9.20E-01	6.97E-01	1.96E+00	1.27E+00	2.19E-02
660	360150	3798400	7.27E-01	3.61E-02	2.07E-01	1.48E-02	2.07E-01	1.48E-02	9.11E-01	7.37E-01	1.94E+00	1.34E+00	2.17E-02
661	360200	3798400	7.23E-01	3.74E-02	2.18E-01	1.53E-02	2.18E-01	1.53E-02	9.05E-01	7.76E-01	1.93E+00	1.38E+00	2.15E-02
662	360250	3798400	7.23E-01	3.85E-02	2.37E-01	1.58E-02	2.37E-01	1.58E-02	9.05E-01	8.46E-01	1.93E+00	1.39E+00	2.15E-02
663	360300	3798400	7.08E-01	3.93E-02	2.49E-01	1.61E-02	2.49E-01	1.61E-02	8.86E-01	8.91E-01	1.89E+00	1.37E+00	2.11E-02
664	360350	3798400	7.11E-01	4.06E-02	2.53E-01	1.66E-02	2.53E-01	1.66E-02	8.90E-01	9.07E-01	1.90E+00	1.32E+00	2.12E-02
665	360400	3798400	7.13E-01	4.14E-02	2.48E-01	1.69E-02	2.48E-01	1.69E-02	8.92E-01	8.90E-01	1.90E+00	1.24E+00	2.12E-02
666	360450	3798400	7.11E-01	4.18E-02	2.35E-01	1.70E-02	2.35E-01	1.70E-02	8.90E-01	8.44E-01	1.90E+00	1.17E+00	2.12E-02
667	360500	3798400	6.97E-01	4.17E-02	2.14E-01	1.69E-02	2.14E-01	1.69E-02	8.73E-01	7.73E-01	1.86E+00	1.10E+00	2.08E-02
668	360550	3798400	6.83E-01	4.13E-02	1.89E-01	1.67E-02	1.89E-01	1.67E-02	8.54E-01	6.84E-01	1.82E+00	1.02E+00	2.04E-02
669	360600	3798400	6.93E-01	4.07E-02	1.80E-01	1.63E-02	1.80E-01	1.63E-02	8.68E-01	6.45E-01	1.85E+00	9.66E-01	2.07E-02
670	360650	3798400	6.84E-01	4.02E-02	1.68E-01	1.59E-02	1.68E-01	1.59E-02	8.56E-01	6.03E-01	1.82E+00	9.92E-01	2.04E-02
671	360700	3798400	6.75E-01	3.97E-02	1.55E-01	1.56E-02	1.55E-01	1.56E-02	8.45E-01	5.54E-01	1.80E+00	1.01E+00	2.01E-02
672	360750	3798400	6.53E-01	4.12E-02	1.40E-01	1.54E-02	1.40E-01	1.54E-02	8.17E-01	5.02E-01	1.74E+00	1.00E+00	1.95E-02
673	360800	3798400	6.59E-01	4.30E-02	1.37E-01	1.57E-02	1.37E-01	1.57E-02	8.25E-01	4.87E-01	1.76E+00	9.80E-01	1.97E-02
674	360850	3798400	6.51E-01	4.54E-02	1.40E-01	1.62E-02	1.40E-01	1.62E-02	8.14E-01	4.97E-01	1.73E+00	9.43E-01	1.94E-02
675	360900	3798400	6.49E-01	5.31E-02	1.61E-01	1.79E-02	1.61E-01	1.79E-02	8.12E-01	5.25E-01	1.73E+00	8.94E-01	1.93E-02
676	361850	3798400	3.38E-01	2.39E-02	4.27E-02	9.12E-03	4.27E-02	9.12E-03	4.20E-01	1.43E-01	9.01E-01	3.29E-01	1.01E-02
677	361900	3798400	3.32E-01	2.36E-02	4.30E-02	9.03E-03	4.30E-02	9.03E-03	4.13E-01	1.44E-01	8.86E-01	3.28E-01	9.90E-03
678	361950	3798400	3.25E-01	2.34E-02	4.31E-02	8.97E-03	4.31E-02	8.97E-03	4.04E-01	1.44E-01	8.66E-01	3.25E-01	9.68E-03
679	362000	3798400	3.16E-01	2.32E-02	4.31E-02	8.91E-03	4.31E-02	8.91E-03	3.93E-01	1.44E-01	8.43E-01	3.21E-01	9.42E-03
680	362050	3798400	3.06E-01	2.31E-02	4.28E-02	8.86E-03	4.28E-02	8.86E-03	3.80E-01	1.43E-01	8.16E-01	3.15E-01	9.12E-03
681	362100	3798400	2.95E-01	2.29E-02	4.24E-02	8.82E-03	4.24E-02	8.82E-03	3.67E-01	1.41E-01	7.87E-01	3.08E-01	8.80E-03
682	362150	3798400	2.84E-01	2.28E-02	4.18E-02	8.78E-03	4.18E-02	8.78E-03	3.52E-01	1.39E-01	7.56E-01	3.01E-01	8.45E-03
683	362200	3798400	2.71E-01	2.27E-02	4.10E-02	8.75E-03	4.10E-02	8.75E-03	3.37E-01	1.37E-01	7.24E-01	2.92E-01	8.09E-03
684	362250	3798400	2.59E-01	2.26E-02	4.02E-02	8.72E-03	4.02E-02	8.72E-03	3.21E-01	1.34E-01	6.90E-01	2.83E-01	7.71E-03
685	362300	3798400	2.52E-01	2.25E-02	3.92E-02	8.70E-03	3.92E-02	8.70E-03	3.12E-01	1.30E-01	6.71E-01	2.73E-01	7.50E-03
686	359750	3798450	7.16E-01	3.09E-02	1.68E-01	1.16E-02	1.68E-01	1.16E-02	8.96E-01	5.98E-01	1.91E+00	1.24E+00	2.13E-02
687	359800	3798450	6.91E-01	3.03E-02	1.66E-01	1.15E-02	1.66E-01	1.15E-02	8.64E-01	5.94E-01	1.84E+00	1.22E+00	2.06E-02
688	359850	3798450	7.01E-01	3.01E-02	1.60E-01	1.17E-02	1.60E-01	1.17E-02	8.78E-01	5.74E-01	1.87E+00	1.17E+00	2.09E-02
689	359900	3798450	7.35E-01	3.04E-02	1.49E-01	1.20E-02	1.49E-01	1.20E-02	9.21E-01	5.37E-01	1.96E+00	1.08E+00	2.19E-02
690	359950	3798450	7.52E-01	3.12E-02	1.47E-01	1.24E-02	1.47E-01	1.24E-02	9.42E-01	5.27E-01	2.01E+00	1.08E+00	2.24E-02
691	360000	3798450	7.62E-01	3.23E-02	1.61E-01	1.30E-02	1.61E-01	1.30E-02	9.54E-01	5.70E-01	2.03E+00	1.08E+00	2.27E-02
692	360050	3798450	7.58E-01	3.37E-02	1.82E-01	1.37E-02	1.82E-01	1.37E-02	9.49E-01	6.46E-01	2.02E+00	1.19E+00	2.26E-02
693	360100	3798450	7.62E-01	3.53E-02	1.99E-01	1.43E-02	1.99E-01	1.43E-02	9.54E-01	7.09E-01	2.03E+00	1.29E+00	2.27E-02
694	360150	3798450	7.55E-01	3.67E-02	2.11E-01	1.50E-02	2.11E-01	1.50E-02	9.46E-01	7.52E-01	2.01E+00	1.37E+00	2.25E-02
695	360200	3798450	7.47E-01	3.81E-02	2.22E-01	1.56E-02	2.22E-01	1.56E-02	9.35E-01	7.89E-01	1.99E+00	1.41E+00	2.23E-02
696	360250	3798450	7.48E-01	3.92E-02	2.42E-01	1.60E-02	2.42E-01	1.60E-02	9.36E-01	8.62E-01	1.99E+00	1.43E+00	2.23E-02
697	360300	3798450	7.31E-01	4.02E-02	2.54E-01	1.65E-02	2.54E-01	1.65E-02	9.15E-01	9.09E-01	1.95E+00	1.41E+00	2.18E-02
698	360350	3798450	7.36E-01	4.15E-02	2.57E-01	1.70E-02	2.57E-01	1.70E-02	9.22E-01	9.23E-01	1.96E+00	1.35E+00	2.19E-02
699	360400	3798450	7.36E-01	4.24E-02	2.51E-01	1.73E-02	2.51E-01	1.73E-02	9.21E-01	9.04E-01	1.96E+00	1.27E+00	2.19E-02
700	360450	3798450	7.31E-01	4.27E-02	2.37E-01	1.74E-02	2.37E-01	1.74E-02	9.15E-01	8.53E-01	1.95E+00	1.21E+00	2.18E-02
701	360500	3798450	7.21E-01	4.26E-02	2.15E-01	1.72E-02	2.15E-01	1.72E-02	9.02E-01	7.75E-01	1.92E+00	1.12E+00	2.15E-02
702	360550	3798450	7.03E-01	4.21E-02	1.95E-01	1.70E-02	1.95E-01	1.70E-02	8.80E-01	6.96E-01	1.87E+00	1.03E+00	2.10E-02
703	360600	3798450	7.14E-01	4.14E-02	1.84E-01	1.65E-02	1.84E-01	1.65E-02	8.94E-01	6.60E-01	1.90E+00	9.90E-01	2.13E-02
704	360650	3798450	7.08E-01	4.06E-02	1.71E-01	1.61E-02	1.71E-01	1.61E-02	8.86E-01	6.14E-01	1.89E+00	1.03E+00	2.11E-02
705	360700	3798450	6.92E-01	4.00E-02	1.56E-01	1.56E-02	1.56E-01	1.56E-02	8.66E-01	5.61E-01	1.84E+00	1.04E+00	2.06E-02
706	360750	3798450	6.81E-01	4.09E-02	1.41E-01	1.53E-02	1.41E-01	1.53E-02	8.52E-01	5.04E-01	1.81E+00	1.03E+00	2.03E-02
707	360800	3798450	6.82E-01	4.29E-02	1.43E-01	1.57E-02	1.43E-01	1.57E-02	8.53E-01	5.07E-01	1.82E+00	9.98E-01	2.03E-02
708	360850	3798450	6.71E-01	4.54E-02	1.44E-01	1.62E-02	1.44E-01	1.62E-02	8.39E-01	5.11E-01	1.79E+00	9.54E-01	2.00E-02
709	360900	3798450	6.64E-01	5.27E-02	1.48E-01	1.76E-02	1.48E-01	1.76E-02	8.31E-01	5.22E-01	1.77E+00	9.00E-01	1.98E-02
710	361850	3798450	3.43E-01	2.40E-02	4.28E-02	9.14E-03	4.28E-02	9.14E-03	4.27E-01	1.43E-01	9.15E-01	3.27E-01	1.02E-02
711	361900	3798450	3.36E-01	2.37E-02	4.30E-02	9.05E-03	4.30E-02	9.05E-03	4.17E-01	1.43E-01	8.95E-01	3.25E-01	1.00E-02
712	361950	3798450	3.27E-01	2.34E-02	4.29E-02	8.98E-03	4.29E-02	8.98E-03	4.06E-01	1.43E-01	8.71E-01	3.20E-01	9.74E-03
713	362000	3798450	3.16E-01	2.33E-02	4.27E-02	8.92E-03	4.27E-02	8.92E-03	3.93E-01	1.42E-01	8.44E-01	3.15E-01	9.43E-03
714	362050	3798450	3.05E-01	2.31E-02	4.23E-02	8.88E-03	4.23E-02	8.88E-03	3.79E-01	1.41E-01	8.13E-01	3.08E-01	9.09E-03
715	362100	3798450	2.93E-01	2.30E-02	4.17E-02	8.83E-03	4.17E-02	8.83E-03	3.64E-01	1.39E-01	7.81E-01	3.01E-01	8.72E-03
716	362150	3798450	2.80E-01	2.28E-02	4.10E-02	8.80E-03	4.10E-02	8.80E-03	3.48E-01	1.36E-01	7.46E-01	2.92E-01	8.34E-03
717	362200	3798450	2.67E-01	2.27E-02	4.01E-02	8.77E-03	4.01E-02	8.77E-03	3.31E-01	1.33E-01	7.11E-01	2.83E-01	7.95E-03
718	362250	3798450	2.56E-01	2.26E-02	3.92E-02	8.74E-03	3.92E-02	8.74E-03	3.18E-01	1.30E-01	6.83E-01	2.73E-01	7.63E-03
719	362300	3798450	2.50E-01	2.26E-02	3.81E-02	8.71E-03	3.81E-02	8.71E-03	3.11E-01	1.26E-01	6.67E-01	2.63E-01	7.46E-03
720	359650	3798500	7.54E-01	3.35E-02	1.58E-01	1.20E-02	1.58E-01	1.20E-02	9.44E-01	5.60E-01	2.01E+00	1.21E+00	2.25E-02
721	359700	3798500	7.43E-01	3.23E-02	1.67E-01	1.18E-02	1.67E-01	1.18E-02	9.31E-01	5.93E-01	1.98E+00	1.22E+00	2.22E-02
722	359750	3798500	7.41E-01	3.12E-02	1.71E-01	1.16E-02	1.71E-01	1.16E-02	9.28E-01	6.12E-01	1.98E+00	1.25E+00	2.21E-02
723	359800	3798500	7.12E-01	3.04E-02	1.71E-01	1.16E-02	1.71E-01	1.16E-02	8.92E-01	6.12E-01	1.90E+00	1.25E+00	2.12E-02
724	359850	3798500	7.18E-01	3.02E-02	1.65E-01	1.17E-02	1.65E-01	1.17E-02	8.99E-01	5.93E-01	1.92E+00	1.20E+00	2.14E-02
725	359900	3798500	7.51E-01	3.06E-02	1.55E-01	1.20E-02	1.55E-01	1.20E-02	9.40E-01	5.58E-01	2.00E+00	1.12E+00	2.24E-02
726	359950	3798500	7.73E-01	3.14E-02	1.52E-01	1.25E-02	1.52E-01	1.25E-02	9.68E-01	5.43E-01	2.06E+00	1.10E+00	2.30E-02
727	360000	3798500	7.88E-01	3.27E-02	1.62E-01	1.31E-02	1.62E-01	1.31E-02	9.88E-01	5.74E-01	2.10E+00	1.09E+00	2.35E-02
728	360050	3798500	7.86E-01	3.42E-02	1.84E-01	1.38E-02	1.84E-01	1.38E-02	9.84E-01	6.54E-01	2.09E+00	1.21E+00	2.34E-02
729	360100	3798500	7.90E-01	3.58E-02	2.03E-01	1.45E-02	2.03E-01	1.45E-02	9.89E-01	7.21E-01	2.11E+00	1.31E+00	2.35E-02
730	360150	3798500	7.84E-01	3.74E-02	2.15E-01	1.52E-02	2.15E-01	1.52E-02	9.82E-01	7.68E-01	2.09E+00	1.39E+00	2.34E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
731	360200	3798500	7.72E-01	3.89E-02	2.25E-01	1.59E-02	2.25E-01	1.59E-02	9.67E-01	8.02E-01	2.06E+00	1.45E+00	2.30E-02
732	360250	3798500	7.74E-01	4.01E-02	2.46E-01	1.64E-02	2.46E-01	1.64E-02	9.69E-01	8.79E-01	2.06E+00	1.46E+00	2.31E-02
733	360300	3798500	7.55E-01	4.13E-02	2.59E-01	1.68E-02	2.59E-01	1.68E-02	9.46E-01	9.27E-01	2.01E+00	1.44E+00	2.25E-02
734	360350	3798500	7.63E-01	4.27E-02	2.62E-01	1.74E-02	2.62E-01	1.74E-02	9.55E-01	9.40E-01	2.03E+00	1.37E+00	2.27E-02
735	360400	3798500	7.60E-01	4.35E-02	2.55E-01	1.77E-02	2.55E-01	1.77E-02	9.52E-01	9.17E-01	2.03E+00	1.32E+00	2.26E-02
736	360450	3798500	7.52E-01	4.39E-02	2.39E-01	1.77E-02	2.39E-01	1.77E-02	9.41E-01	8.60E-01	2.00E+00	1.25E+00	2.24E-02
737	360500	3798500	7.46E-01	4.37E-02	2.15E-01	1.76E-02	2.15E-01	1.76E-02	9.34E-01	7.76E-01	1.99E+00	1.15E+00	2.22E-02
738	360550	3798500	7.48E-01	4.32E-02	2.00E-01	1.73E-02	2.00E-01	1.73E-02	9.36E-01	7.16E-01	1.99E+00	1.04E+00	2.23E-02
739	360600	3798500	7.43E-01	4.25E-02	1.88E-01	1.68E-02	1.88E-01	1.68E-02	9.30E-01	6.75E-01	1.98E+00	1.03E+00	2.21E-02
740	360650	3798500	7.28E-01	4.15E-02	1.74E-01	1.63E-02	1.74E-01	1.63E-02	9.12E-01	6.24E-01	1.94E+00	1.06E+00	2.17E-02
741	360700	3798500	7.16E-01	4.06E-02	1.58E-01	1.58E-02	1.58E-01	1.58E-02	8.96E-01	5.66E-01	1.91E+00	1.06E+00	2.13E-02
742	360750	3798500	7.08E-01	4.08E-02	1.45E-01	1.53E-02	1.45E-01	1.53E-02	8.86E-01	5.16E-01	1.89E+00	1.05E+00	2.11E-02
743	360800	3798500	7.03E-01	4.24E-02	1.48E-01	1.56E-02	1.48E-01	1.56E-02	8.80E-01	5.28E-01	1.88E+00	1.01E+00	2.10E-02
744	360850	3798500	6.90E-01	4.76E-02	1.48E-01	1.67E-02	1.48E-01	1.67E-02	8.64E-01	5.27E-01	1.84E+00	9.64E-01	2.06E-02
745	361850	3798500	3.47E-01	2.40E-02	4.27E-02	9.15E-03	4.27E-02	9.15E-03	4.32E-01	1.43E-01	9.26E-01	3.23E-01	1.04E-02
746	361900	3798500	3.38E-01	2.37E-02	4.27E-02	9.06E-03	4.27E-02	9.06E-03	4.20E-01	1.43E-01	9.01E-01	3.20E-01	1.01E-02
747	361950	3798500	3.27E-01	2.35E-02	4.25E-02	8.99E-03	4.25E-02	8.99E-03	4.07E-01	1.42E-01	8.73E-01	3.14E-01	9.75E-03
748	362000	3798500	3.15E-01	2.33E-02	4.21E-02	8.93E-03	4.21E-02	8.93E-03	3.92E-01	1.40E-01	8.41E-01	3.08E-01	9.39E-03
749	362050	3798500	3.02E-01	2.31E-02	4.16E-02	8.89E-03	4.16E-02	8.89E-03	3.76E-01	1.39E-01	8.06E-01	3.00E-01	9.01E-03
750	362100	3798500	2.89E-01	2.30E-02	4.09E-02	8.85E-03	4.09E-02	8.85E-03	3.59E-01	1.36E-01	7.70E-01	2.92E-01	8.61E-03
751	362150	3798500	2.75E-01	2.29E-02	4.00E-02	8.81E-03	4.00E-02	8.81E-03	3.41E-01	1.33E-01	7.33E-01	2.82E-01	8.19E-03
752	362200	3798500	2.61E-01	2.28E-02	3.91E-02	8.78E-03	3.91E-02	8.78E-03	3.24E-01	1.30E-01	6.95E-01	2.72E-01	7.76E-03
753	362250	3798500	2.54E-01	2.27E-02	3.80E-02	8.75E-03	3.80E-02	8.75E-03	3.16E-01	1.26E-01	6.78E-01	2.62E-01	7.58E-03
754	362300	3798500	2.55E-01	2.26E-02	3.69E-02	8.73E-03	3.69E-02	8.73E-03	3.16E-01	1.22E-01	6.80E-01	2.54E-01	7.60E-03
755	359550	3798550	7.02E-01	3.48E-02	1.41E-01	1.22E-02	1.41E-01	1.22E-02	8.79E-01	5.00E-01	1.87E+00	1.09E+00	2.09E-02
756	359600	3798550	7.61E-01	3.52E-02	1.46E-01	1.24E-02	1.46E-01	1.24E-02	9.53E-01	5.12E-01	2.03E+00	1.17E+00	2.27E-02
757	359650	3798550	7.85E-01	3.43E-02	1.58E-01	1.23E-02	1.58E-01	1.23E-02	9.83E-01	5.60E-01	2.09E+00	1.22E+00	2.34E-02
758	359700	3798550	7.73E-01	3.28E-02	1.69E-01	1.20E-02	1.69E-01	1.20E-02	9.69E-01	6.00E-01	2.06E+00	1.22E+00	2.31E-02
759	359750	3798550	7.66E-01	3.14E-02	1.75E-01	1.17E-02	1.75E-01	1.17E-02	9.59E-01	6.24E-01	2.04E+00	1.27E+00	2.28E-02
760	359800	3798550	7.42E-01	3.05E-02	1.76E-01	1.16E-02	1.76E-01	1.16E-02	9.29E-01	6.29E-01	1.98E+00	1.27E+00	2.21E-02
761	359850	3798550	7.34E-01	3.03E-02	1.71E-01	1.18E-02	1.71E-01	1.18E-02	9.19E-01	6.14E-01	1.96E+00	1.23E+00	2.19E-02
762	359900	3798550	7.66E-01	3.08E-02	1.61E-01	1.21E-02	1.61E-01	1.21E-02	9.59E-01	5.80E-01	2.04E+00	1.15E+00	2.28E-02
763	359950	3798550	7.94E-01	3.17E-02	1.56E-01	1.26E-02	1.56E-01	1.26E-02	9.94E-01	5.60E-01	2.12E+00	1.12E+00	2.37E-02
764	360000	3798550	8.16E-01	3.31E-02	1.63E-01	1.33E-02	1.63E-01	1.33E-02	1.02E+00	5.77E-01	2.18E+00	1.11E+00	2.43E-02
765	360050	3798550	8.17E-01	3.48E-02	1.87E-01	1.40E-02	1.87E-01	1.40E-02	1.02E+00	6.62E-01	2.18E+00	1.22E+00	2.43E-02
766	360100	3798550	8.19E-01	3.66E-02	2.06E-01	1.48E-02	2.06E-01	1.48E-02	1.03E+00	7.33E-01	2.18E+00	1.33E+00	2.44E-02
767	360150	3798550	8.15E-01	3.83E-02	2.19E-01	1.55E-02	2.19E-01	1.55E-02	1.02E+00	7.83E-01	2.17E+00	1.42E+00	2.43E-02
768	360200	3798550	7.99E-01	3.98E-02	2.29E-01	1.62E-02	2.29E-01	1.62E-02	1.00E+00	8.15E-01	2.13E+00	1.48E+00	2.38E-02
769	360250	3798550	8.02E-01	4.11E-02	2.51E-01	1.67E-02	2.51E-01	1.67E-02	1.00E+00	8.96E-01	2.14E+00	1.49E+00	2.39E-02
770	360300	3798550	7.81E-01	4.25E-02	2.64E-01	1.72E-02	2.64E-01	1.72E-02	9.78E-01	9.45E-01	2.08E+00	1.47E+00	2.33E-02
771	360350	3798550	7.90E-01	4.39E-02	2.66E-01	1.78E-02	2.66E-01	1.78E-02	9.90E-01	9.56E-01	2.11E+00	1.41E+00	2.36E-02
772	360400	3798550	7.85E-01	4.48E-02	2.58E-01	1.81E-02	2.58E-01	1.81E-02	9.83E-01	9.29E-01	2.09E+00	1.36E+00	2.34E-02
773	360450	3798550	7.81E-01	4.52E-02	2.40E-01	1.82E-02	2.40E-01	1.82E-02	9.79E-01	8.66E-01	2.08E+00	1.28E+00	2.33E-02
774	360500	3798550	7.72E-01	4.51E-02	2.14E-01	1.80E-02	2.14E-01	1.80E-02	9.67E-01	7.75E-01	2.06E+00	1.18E+00	2.30E-02
775	360550	3798550	7.84E-01	4.49E-02	2.05E-01	1.77E-02	2.05E-01	1.77E-02	9.82E-01	7.36E-01	2.09E+00	1.06E+00	2.34E-02
776	360600	3798550	7.70E-01	4.39E-02	1.92E-01	1.72E-02	1.92E-01	1.72E-02	9.65E-01	6.90E-01	2.05E+00	1.06E+00	2.30E-02
777	360650	3798550	7.52E-01	4.29E-02	1.77E-01	1.67E-02	1.77E-01	1.67E-02	9.42E-01	6.33E-01	2.01E+00	1.09E+00	2.24E-02
778	360700	3798550	7.39E-01	4.20E-02	1.59E-01	1.61E-02	1.59E-01	1.61E-02	9.26E-01	5.70E-01	1.97E+00	1.09E+00	2.20E-02
779	360750	3798550	7.36E-01	4.17E-02	1.52E-01	1.55E-02	1.52E-01	1.55E-02	9.21E-01	5.40E-01	1.96E+00	1.07E+00	2.19E-02
780	360800	3798550	7.23E-01	4.29E-02	1.54E-01	1.56E-02	1.54E-01	1.56E-02	9.06E-01	5.48E-01	1.93E+00	1.03E+00	2.16E-02
781	360850	3798550	7.13E-01	7.66E-02	6.64E-01	2.43E-02	6.64E-01	2.43E-02	8.93E-01	1.75E+00	1.90E+00	9.71E-01	2.13E-02
782	361850	3798550	3.50E-01	2.40E-02	4.25E-02	9.15E-03	4.25E-02	9.15E-03	4.35E-01	1.42E-01	9.32E-01	3.18E-01	1.04E-02
783	361900	3798550	3.39E-01	2.37E-02	4.23E-02	9.06E-03	4.23E-02	9.06E-03	4.21E-01	1.41E-01	9.03E-01	3.13E-01	1.01E-02
784	361950	3798550	3.26E-01	2.35E-02	4.20E-02	9.00E-03	4.20E-02	9.00E-03	4.05E-01	1.40E-01	8.69E-01	3.07E-01	9.71E-03
785	362000	3798550	3.12E-01	2.33E-02	4.14E-02	8.94E-03	4.14E-02	8.94E-03	3.88E-01	1.38E-01	8.33E-01	3.00E-01	9.31E-03
786	362050	3798550	2.98E-01	2.31E-02	4.07E-02	8.90E-03	4.07E-02	8.90E-03	3.71E-01	1.36E-01	7.95E-01	2.91E-01	8.88E-03
787	362100	3798550	2.83E-01	2.30E-02	3.99E-02	8.86E-03	3.99E-02	8.86E-03	3.52E-01	1.33E-01	7.56E-01	2.82E-01	8.44E-03
788	362150	3798550	2.68E-01	2.29E-02	3.89E-02	8.82E-03	3.89E-02	8.82E-03	3.33E-01	1.29E-01	7.15E-01	2.72E-01	7.99E-03
789	362200	3798550	2.58E-01	2.28E-02	3.79E-02	8.79E-03	3.79E-02	8.79E-03	3.21E-01	1.26E-01	6.89E-01	2.62E-01	7.70E-03
790	362250	3798550	2.63E-01	2.27E-02	3.67E-02	8.77E-03	3.67E-02	8.77E-03	3.26E-01	1.22E-01	7.01E-01	2.54E-01	7.83E-03
791	362300	3798550	2.67E-01	2.26E-02	3.55E-02	8.74E-03	3.55E-02	8.74E-03	3.32E-01	1.18E-01	7.12E-01	2.47E-01	7.96E-03
792	359500	3798600	6.25E-01	3.40E-02	1.43E-01	1.18E-02	1.43E-01	1.18E-02	7.82E-01	4.97E-01	1.67E+00	9.50E-01	1.86E-02
793	359550	3798600	7.02E-01	3.63E-02	1.43E-01	1.26E-02	1.43E-01	1.26E-02	8.79E-01	5.06E-01	1.87E+00	1.07E+00	2.09E-02
794	359600	3798600	7.66E-01	3.65E-02	1.45E-01	1.28E-02	1.45E-01	1.28E-02	9.60E-01	5.16E-01	2.04E+00	1.16E+00	2.28E-02
795	359650	3798600	7.97E-01	3.51E-02	1.58E-01	1.25E-02	1.58E-01	1.25E-02	9.98E-01	5.57E-01	2.12E+00	1.22E+00	2.38E-02
796	359700	3798600	8.03E-01	3.32E-02	1.70E-01	1.21E-02	1.70E-01	1.21E-02	1.01E+00	6.04E-01	2.14E+00	1.24E+00	2.39E-02
797	359750	3798600	7.89E-01	3.15E-02	1.78E-01	1.17E-02	1.78E-01	1.17E-02	9.89E-01	6.35E-01	2.10E+00	1.27E+00	2.35E-02
798	359800	3798600	7.72E-01	3.06E-02	1.80E-01	1.16E-02	1.80E-01	1.16E-02	9.67E-01	6.46E-01	2.06E+00	1.29E+00	2.30E-02
799	359850	3798600	7.49E-01	3.05E-02	1.77E-01	1.18E-02	1.77E-01	1.18E-02	9.38E-01	6.35E-01	2.00E+00	1.26E+00	2.23E-02
800	359900	3798600	7.80E-01	3.10E-02	1.67E-01	1.22E-02	1.67E-01	1.22E-02	9.76E-01	6.02E-01	2.08E+00	1.18E+00	2.32E-02
801	359950	3798600	8.14E-01	3.21E-02	1.61E-01	1.27E-02	1.61E-01	1.27E-02	1.02E+00	5.78E-01	2.17E+00	1.15E+00	2.43E-02
802	360000	3798600	8.45E-01	3.37E-02	1.64E-01	1.35E-02	1.64E-01	1.35E-02	1.06E+00	5.79E-01	2.25E+00	1.14E+00	2.52E-02
803	360050	3798600	8.49E-01	3.55E-02	1.89E-01	1.43E-02	1.89E-01	1.43E-02	1.06E+00	6.70E-01	2.26E+00	1.24E+00	2.53E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
804	360100	3798600	8.50E-01	3.74E-02	2.10E-01	1.51E-02	2.10E-01	1.51E-02	1.07E+00	7.46E-01	2.27E+00	1.36E+00	2.53E-02
805	360150	3798600	8.47E-01	3.93E-02	2.24E-01	1.59E-02	2.24E-01	1.59E-02	1.06E+00	8.00E-01	2.26E+00	1.45E+00	2.53E-02
806	360200	3798600	8.27E-01	4.09E-02	2.32E-01	1.66E-02	2.32E-01	1.66E-02	1.04E+00	8.28E-01	2.20E+00	1.51E+00	2.46E-02
807	360250	3798600	8.31E-01	4.23E-02	2.55E-01	1.71E-02	2.55E-01	1.71E-02	1.04E+00	9.12E-01	2.22E+00	1.53E+00	2.48E-02
808	360300	3798600	8.07E-01	4.39E-02	2.69E-01	1.77E-02	2.69E-01	1.77E-02	1.01E+00	9.63E-01	2.15E+00	1.50E+00	2.41E-02
809	360350	3798600	8.19E-01	4.54E-02	2.71E-01	1.83E-02	2.71E-01	1.83E-02	1.03E+00	9.73E-01	2.18E+00	1.46E+00	2.44E-02
810	360400	3798600	8.10E-01	4.64E-02	2.61E-01	1.86E-02	2.61E-01	1.86E-02	1.01E+00	9.41E-01	2.16E+00	1.41E+00	2.41E-02
811	360450	3798600	8.13E-01	4.68E-02	2.41E-01	1.87E-02	2.41E-01	1.87E-02	1.02E+00	8.72E-01	2.17E+00	1.32E+00	2.42E-02
812	360500	3798600	8.19E-01	4.68E-02	2.21E-01	1.85E-02	2.21E-01	1.85E-02	1.03E+00	7.92E-01	2.18E+00	1.21E+00	2.44E-02
813	360550	3798600	8.03E-01	4.99E-02	2.11E-01	1.93E-02	2.11E-01	1.93E-02	1.01E+00	7.56E-01	2.14E+00	1.08E+00	2.39E-02
814	360700	3798600	7.91E-01	4.54E-02	1.60E-01	1.69E-02	1.60E-01	1.69E-02	9.91E-01	5.73E-01	2.11E+00	1.12E+00	2.36E-02
815	360750	3798600	7.77E-01	4.56E-02	1.59E-01	1.65E-02	1.59E-01	1.65E-02	9.74E-01	5.65E-01	2.07E+00	1.09E+00	2.32E-02
816	361850	3798600	3.50E-01	2.40E-02	4.21E-02	9.15E-03	4.21E-02	9.15E-03	4.36E-01	1.41E-01	9.34E-01	3.12E-01	1.04E-02
817	361900	3798600	3.37E-01	2.37E-02	4.17E-02	9.06E-03	4.17E-02	9.06E-03	4.19E-01	1.39E-01	8.99E-01	3.06E-01	1.01E-02
818	361950	3798600	3.23E-01	2.35E-02	4.12E-02	9.00E-03	4.12E-02	9.00E-03	4.02E-01	1.37E-01	8.61E-01	2.98E-01	9.62E-03
819	362000	3798600	3.08E-01	2.33E-02	4.05E-02	8.94E-03	4.05E-02	8.94E-03	3.83E-01	1.35E-01	8.21E-01	2.90E-01	9.17E-03
820	362050	3798600	2.92E-01	2.31E-02	3.97E-02	8.90E-03	3.97E-02	8.90E-03	3.63E-01	1.32E-01	7.79E-01	2.81E-01	8.71E-03
821	362100	3798600	2.76E-01	2.30E-02	3.87E-02	8.86E-03	3.87E-02	8.86E-03	3.43E-01	1.29E-01	7.37E-01	2.71E-01	8.23E-03
822	362150	3798600	2.65E-01	2.29E-02	3.77E-02	8.83E-03	3.77E-02	8.83E-03	3.29E-01	1.25E-01	7.07E-01	2.62E-01	7.90E-03
823	362200	3798600	2.71E-01	2.28E-02	3.65E-02	8.80E-03	3.65E-02	8.80E-03	3.36E-01	1.21E-01	7.22E-01	2.54E-01	8.07E-03
824	362250	3798600	2.75E-01	2.27E-02	3.53E-02	8.78E-03	3.53E-02	8.78E-03	3.42E-01	1.17E-01	7.34E-01	2.46E-01	8.20E-03
825	362300	3798600	2.78E-01	2.26E-02	3.50E-02	8.75E-03	3.50E-02	8.75E-03	3.46E-01	1.16E-01	7.42E-01	2.38E-01	8.29E-03
826	359250	3798650	6.70E-01	2.17E-02	2.14E-01	7.94E-03	2.14E-01	7.94E-03	8.39E-01	7.12E-01	1.79E+00	1.22E+00	2.00E-02
827	359300	3798650	6.39E-01	2.33E-02	2.03E-01	8.51E-03	2.03E-01	8.51E-03	8.00E-01	6.83E-01	1.70E+00	1.19E+00	1.91E-02
828	359350	3798650	6.59E-01	2.47E-02	1.73E-01	8.85E-03	1.73E-01	8.85E-03	8.26E-01	5.98E-01	1.76E+00	1.04E+00	1.97E-02
829	359400	3798650	6.68E-01	2.74E-02	1.60E-01	9.58E-03	1.60E-01	9.58E-03	8.37E-01	5.12E-01	1.78E+00	8.20E-01	1.99E-02
830	359450	3798650	6.30E-01	3.15E-02	1.51E-01	1.09E-02	1.51E-01	1.09E-02	7.88E-01	5.02E-01	1.68E+00	8.66E-01	1.88E-02
831	359500	3798650	6.10E-01	3.55E-02	1.44E-01	1.22E-02	1.44E-01	1.22E-02	7.64E-01	5.00E-01	1.63E+00	9.49E-01	1.82E-02
832	359550	3798650	6.97E-01	3.80E-02	1.46E-01	1.31E-02	1.46E-01	1.31E-02	8.72E-01	5.11E-01	1.86E+00	1.03E+00	2.08E-02
833	359600	3798650	7.70E-01	3.79E-02	1.47E-01	1.32E-02	1.47E-01	1.32E-02	9.65E-01	5.25E-01	2.05E+00	1.13E+00	2.30E-02
834	359650	3798650	8.15E-01	3.59E-02	1.56E-01	1.27E-02	1.56E-01	1.27E-02	1.02E+00	5.52E-01	2.17E+00	1.21E+00	2.43E-02
835	359700	3798650	8.31E-01	3.34E-02	1.71E-01	1.22E-02	1.71E-01	1.22E-02	1.04E+00	6.06E-01	2.22E+00	1.24E+00	2.48E-02
836	359750	3798650	8.13E-01	3.16E-02	1.81E-01	1.18E-02	1.81E-01	1.18E-02	1.02E+00	6.45E-01	2.17E+00	1.27E+00	2.42E-02
837	359800	3798650	8.02E-01	3.07E-02	1.85E-01	1.17E-02	1.85E-01	1.17E-02	1.00E+00	6.62E-01	2.14E+00	1.30E+00	2.39E-02
838	359850	3798650	7.64E-01	3.06E-02	1.83E-01	1.19E-02	1.83E-01	1.19E-02	9.57E-01	6.55E-01	2.04E+00	1.28E+00	2.28E-02
839	359900	3798650	7.92E-01	3.14E-02	1.74E-01	1.23E-02	1.74E-01	1.23E-02	9.92E-01	6.26E-01	2.11E+00	1.21E+00	2.36E-02
840	359950	3798650	8.34E-01	3.27E-02	1.66E-01	1.29E-02	1.66E-01	1.29E-02	1.05E+00	5.96E-01	2.22E+00	1.17E+00	2.49E-02
841	360000	3798650	8.74E-01	3.44E-02	1.64E-01	1.37E-02	1.64E-01	1.37E-02	1.10E+00	5.83E-01	2.33E+00	1.16E+00	2.61E-02
842	360050	3798650	8.83E-01	3.63E-02	1.91E-01	1.45E-02	1.91E-01	1.45E-02	1.11E+00	6.78E-01	2.35E+00	1.25E+00	2.63E-02
843	360100	3798650	8.83E-01	3.84E-02	2.13E-01	1.54E-02	2.13E-01	1.54E-02	1.11E+00	7.59E-01	2.35E+00	1.38E+00	2.63E-02
844	360150	3798650	8.82E-01	4.04E-02	2.29E-01	1.63E-02	2.29E-01	1.63E-02	1.10E+00	8.17E-01	2.35E+00	1.48E+00	2.63E-02
845	360200	3798650	8.56E-01	4.22E-02	2.36E-01	1.70E-02	2.36E-01	1.70E-02	1.07E+00	8.44E-01	2.28E+00	1.54E+00	2.55E-02
846	360250	3798650	8.61E-01	4.38E-02	2.60E-01	1.76E-02	2.60E-01	1.76E-02	1.08E+00	9.29E-01	2.30E+00	1.56E+00	2.57E-02
847	360300	3798650	8.68E-01	4.60E-02	2.73E-01	1.84E-02	2.73E-01	1.84E-02	1.09E+00	9.81E-01	2.32E+00	1.54E+00	2.59E-02
848	360350	3798650	8.66E-01	4.72E-02	2.75E-01	1.88E-02	2.75E-01	1.88E-02	1.09E+00	9.89E-01	2.31E+00	1.52E+00	2.58E-02
849	360400	3798650	8.36E-01	4.82E-02	2.64E-01	1.92E-02	2.64E-01	1.92E-02	1.05E+00	9.52E-01	2.23E+00	1.46E+00	2.49E-02
850	360450	3798650	8.46E-01	4.88E-02	2.42E-01	1.93E-02	2.42E-01	1.93E-02	1.06E+00	8.75E-01	2.26E+00	1.36E+00	2.52E-02
851	360500	3798650	8.51E-01	4.89E-02	2.28E-01	1.91E-02	2.28E-01	1.91E-02	1.07E+00	8.17E-01	2.27E+00	1.24E+00	2.54E-02
852	360550	3798650	8.31E-01	5.23E-02	2.16E-01	1.98E-02	2.16E-01	1.98E-02	1.04E+00	7.75E-01	2.21E+00	1.10E+00	2.48E-02
853	361850	3798650	3.49E-01	2.40E-02	4.15E-02	9.13E-03	4.15E-02	9.13E-03	4.34E-01	1.38E-01	9.30E-01	3.04E-01	1.04E-02
854	361900	3798650	3.34E-01	2.37E-02	4.09E-02	9.05E-03	4.09E-02	9.05E-03	4.15E-01	1.37E-01	8.90E-01	2.96E-01	9.95E-03
855	361950	3798650	3.18E-01	2.34E-02	4.03E-02	8.99E-03	4.03E-02	8.99E-03	3.95E-01	1.34E-01	8.48E-01	2.88E-01	9.47E-03
856	362000	3798650	3.01E-01	2.33E-02	3.94E-02	8.94E-03	3.94E-02	8.94E-03	3.75E-01	1.31E-01	8.04E-01	2.79E-01	8.98E-03
857	362050	3798650	2.85E-01	2.31E-02	3.85E-02	8.90E-03	3.85E-02	8.90E-03	3.54E-01	1.28E-01	7.59E-01	2.69E-01	8.48E-03
858	362100	3798650	2.73E-01	2.30E-02	3.74E-02	8.86E-03	3.74E-02	8.86E-03	3.40E-01	1.24E-01	7.28E-01	2.62E-01	8.14E-03
859	362150	3798650	2.79E-01	2.29E-02	3.63E-02	8.83E-03	3.63E-02	8.83E-03	3.47E-01	1.20E-01	7.45E-01	2.54E-01	8.32E-03
860	362200	3798650	2.84E-01	2.28E-02	3.51E-02	8.80E-03	3.51E-02	8.80E-03	3.53E-01	1.16E-01	7.57E-01	2.46E-01	8.46E-03
861	362250	3798650	2.87E-01	2.27E-02	3.50E-02	8.78E-03	3.50E-02	8.78E-03	3.56E-01	1.16E-01	7.65E-01	2.37E-01	8.55E-03
862	362300	3798650	2.89E-01	2.26E-02	3.52E-02	8.76E-03	3.52E-02	8.76E-03	3.59E-01	1.16E-01	7.70E-01	2.35E-01	8.60E-03
863	359150	3798700	7.01E-01	1.94E-02	1.91E-01	7.15E-03	1.91E-01	7.15E-03	8.78E-01	6.39E-01	1.87E+00	1.14E+00	2.09E-02
864	359200	3798700	7.40E-01	2.06E-02	2.10E-01	7.55E-03	2.10E-01	7.55E-03	9.28E-01	6.81E-01	1.97E+00	1.04E+00	2.21E-02
865	359250	3798700	7.15E-01	2.20E-02	2.18E-01	7.99E-03	2.18E-01	7.99E-03	8.96E-01	7.05E-01	1.91E+00	1.11E+00	2.13E-02
866	359300	3798700	6.86E-01	2.36E-02	2.17E-01	8.58E-03	2.17E-01	8.58E-03	8.59E-01	7.27E-01	1.83E+00	1.24E+00	2.05E-02
867	359350	3798700	6.45E-01	2.62E-02	1.99E-01	9.43E-03	1.99E-01	9.43E-03	8.07E-01	6.80E-01	1.72E+00	1.19E+00	1.92E-02
868	359400	3798700	6.96E-01	2.79E-02	1.67E-01	9.77E-03	1.67E-01	9.77E-03	8.72E-01	5.66E-01	1.86E+00	9.69E-01	2.07E-02
869	359450	3798700	6.46E-01	3.25E-02	1.55E-01	1.12E-02	1.55E-01	1.12E-02	8.09E-01	5.10E-01	1.72E+00	8.59E-01	1.93E-02
870	359500	3798700	6.29E-01	3.71E-02	1.46E-01	1.27E-02	1.46E-01	1.27E-02	7.87E-01	5.03E-01	1.68E+00	9.59E-01	1.87E-02
871	359550	3798700	6.86E-01	3.98E-02	1.57E-01	1.36E-02	1.57E-01	1.36E-02	8.60E-01	5.14E-01	1.83E+00	1.03E+00	2.05E-02
872	359600	3798700	7.69E-01	3.93E-02	1.49E-01	1.36E-02	1.49E-01	1.36E-02	9.64E-01	5.33E-01	2.05E+00	1.11E+00	2.29E-02
873	359650	3798700	8.29E-01	3.65E-02	1.54E-01	1.29E-02	1.54E-01	1.29E-02	1.04E+00	5.45E-01	2.21E+00	1.19E+00	2.47E-02
874	359700	3798700	8.57E-01	3.35E-02	1.71E-01	1.22E-02	1.71E-01	1.22E-02	1.07E+00	6.06E-01	2.29E+00	1.25E+00	2.56E-02
875	359750	3798700	8.49E-01	3.16E-02	1.83E-01	1.17E-02	1.83E-01	1.17E-02	1.06E+00	6.52E-01	2.26E+00	1.27E+00	2.53E-02
876	359800	3798700	8.31E-01	3.07E-02	1.89E-01	1.17E-02	1.89E-01	1.17E-02	1.04E+00	6.77E-01	2.22E+00	1.31E+00	2.48E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
877	359850	3798700	7.93E-01	3.09E-02	1.88E-01	1.19E-02	1.88E-01	1.19E-02	9.93E-01	6.76E-01	2.11E+00	1.30E+00	2.36E-02
878	359900	3798700	8.03E-01	3.19E-02	1.80E-01	1.24E-02	1.80E-01	1.24E-02	1.01E+00	6.50E-01	2.14E+00	1.24E+00	2.39E-02
879	359950	3798700	8.54E-01	3.34E-02	1.72E-01	1.31E-02	1.72E-01	1.31E-02	1.07E+00	6.15E-01	2.28E+00	1.19E+00	2.54E-02
880	360000	3798700	9.04E-01	3.52E-02	1.67E-01	1.40E-02	1.67E-01	1.40E-02	1.13E+00	6.02E-01	2.41E+00	1.19E+00	2.69E-02
881	360050	3798700	9.18E-01	3.74E-02	1.93E-01	1.49E-02	1.93E-01	1.49E-02	1.15E+00	6.85E-01	2.45E+00	1.26E+00	2.74E-02
882	360100	3798700	9.16E-01	3.96E-02	2.17E-01	1.58E-02	2.17E-01	1.58E-02	1.15E+00	7.72E-01	2.44E+00	1.40E+00	2.73E-02
883	360150	3798700	9.18E-01	4.18E-02	2.34E-01	1.67E-02	2.34E-01	1.67E-02	1.15E+00	8.35E-01	2.45E+00	1.51E+00	2.73E-02
884	360200	3798700	9.00E-01	4.38E-02	2.41E-01	1.75E-02	2.41E-01	1.75E-02	1.13E+00	8.64E-01	2.40E+00	1.58E+00	2.68E-02
885	360250	3798700	9.05E-01	4.76E-02	2.76E-01	1.89E-02	2.76E-01	1.89E-02	1.14E+00	9.88E-01	2.41E+00	1.60E+00	2.70E-02
886	360300	3798700	8.91E-01	5.05E-02	2.93E-01	2.00E-02	2.93E-01	2.00E-02	1.12E+00	1.05E+00	2.38E+00	1.60E+00	2.66E-02
887	360350	3798700	9.00E-01	4.91E-02	2.79E-01	1.94E-02	2.79E-01	1.94E-02	1.13E+00	1.00E+00	2.40E+00	1.58E+00	2.68E-02
888	360400	3798700	8.95E-01	5.04E-02	2.66E-01	1.98E-02	2.66E-01	1.98E-02	1.12E+00	9.62E-01	2.39E+00	1.51E+00	2.67E-02
889	360450	3798700	9.10E-01	5.23E-02	2.46E-01	2.03E-02	2.46E-01	2.03E-02	1.14E+00	8.81E-01	2.43E+00	1.40E+00	2.71E-02
890	360500	3798700	8.77E-01	5.60E-02	2.35E-01	2.12E-02	2.35E-01	2.12E-02	1.10E+00	8.43E-01	2.34E+00	1.27E+00	2.61E-02
891	361850	3798700	3.45E-01	2.39E-02	4.06E-02	9.11E-03	4.06E-02	9.11E-03	4.30E-01	1.36E-01	9.21E-01	2.94E-01	1.03E-02
892	361900	3798700	3.28E-01	2.36E-02	4.00E-02	9.03E-03	4.00E-02	9.03E-03	4.09E-01	1.33E-01	8.76E-01	2.86E-01	9.79E-03
893	361950	3798700	3.11E-01	2.34E-02	3.91E-02	8.97E-03	3.91E-02	8.97E-03	3.87E-01	1.30E-01	8.29E-01	2.77E-01	9.27E-03
894	362000	3798700	2.93E-01	2.32E-02	3.82E-02	8.93E-03	3.82E-02	8.93E-03	3.65E-01	1.27E-01	7.82E-01	2.68E-01	8.73E-03
895	362050	3798700	2.82E-01	2.31E-02	3.71E-02	8.89E-03	3.71E-02	8.89E-03	3.50E-01	1.23E-01	7.51E-01	2.61E-01	8.39E-03
896	362100	3798700	2.88E-01	2.29E-02	3.60E-02	8.86E-03	3.60E-02	8.86E-03	3.58E-01	1.19E-01	7.68E-01	2.53E-01	8.58E-03
897	362150	3798700	2.93E-01	2.28E-02	3.48E-02	8.83E-03	3.48E-02	8.83E-03	3.64E-01	1.15E-01	7.80E-01	2.45E-01	8.72E-03
898	362200	3798700	2.96E-01	2.27E-02	3.48E-02	8.80E-03	3.48E-02	8.80E-03	3.68E-01	1.16E-01	7.89E-01	2.36E-01	8.81E-03
899	362250	3798700	2.98E-01	2.27E-02	3.50E-02	8.78E-03	3.50E-02	8.78E-03	3.70E-01	1.16E-01	7.93E-01	2.32E-01	8.87E-03
900	362300	3798700	2.98E-01	2.26E-02	3.52E-02	8.76E-03	3.52E-02	8.76E-03	3.70E-01	1.17E-01	7.95E-01	2.30E-01	8.88E-03
901	359100	3798750	6.87E-01	1.94E-02	1.67E-01	7.12E-03	1.67E-01	7.12E-03	8.60E-01	5.70E-01	1.83E+00	1.13E+00	2.05E-02
902	359150	3798750	7.15E-01	1.96E-02	1.79E-01	7.20E-03	1.79E-01	7.20E-03	8.96E-01	6.05E-01	1.91E+00	1.10E+00	2.13E-02
903	359200	3798750	7.69E-01	2.09E-02	2.02E-01	7.63E-03	2.02E-01	7.63E-03	9.63E-01	6.64E-01	2.05E+00	1.01E+00	2.29E-02
904	359250	3798750	7.71E-01	2.24E-02	2.22E-01	8.11E-03	2.22E-01	8.11E-03	9.65E-01	7.16E-01	2.05E+00	1.02E+00	2.30E-02
905	359300	3798750	7.36E-01	2.40E-02	2.24E-01	8.63E-03	2.24E-01	8.63E-03	9.22E-01	7.24E-01	1.96E+00	1.09E+00	2.19E-02
906	359350	3798750	6.98E-01	2.58E-02	2.04E-01	9.22E-03	2.04E-01	9.22E-03	8.74E-01	6.88E-01	1.86E+00	1.11E+00	2.08E-02
907	359400	3798750	6.91E-01	2.84E-02	1.75E-01	1.00E-02	1.75E-01	1.00E-02	8.65E-01	6.13E-01	1.84E+00	1.03E+00	2.06E-02
908	359450	3798750	6.72E-01	3.34E-02	1.60E-01	1.14E-02	1.60E-01	1.14E-02	8.41E-01	5.21E-01	1.79E+00	8.44E-01	2.00E-02
909	359500	3798750	6.48E-01	3.88E-02	1.47E-01	1.32E-02	1.47E-01	1.32E-02	8.11E-01	5.05E-01	1.73E+00	9.62E-01	1.93E-02
910	359550	3798750	6.70E-01	4.18E-02	1.68E-01	1.42E-02	1.68E-01	1.42E-02	8.40E-01	5.16E-01	1.79E+00	1.05E+00	2.00E-02
911	359600	3798750	7.65E-01	4.06E-02	1.51E-01	1.39E-02	1.51E-01	1.39E-02	9.59E-01	5.40E-01	2.04E+00	1.10E+00	2.28E-02
912	359650	3798750	8.39E-01	3.69E-02	1.56E-01	1.30E-02	1.56E-01	1.30E-02	1.05E+00	5.57E-01	2.24E+00	1.17E+00	2.50E-02
913	359700	3798750	8.81E-01	3.34E-02	1.70E-01	1.21E-02	1.70E-01	1.21E-02	1.10E+00	6.03E-01	2.35E+00	1.24E+00	2.63E-02
914	359750	3798750	8.84E-01	3.15E-02	1.85E-01	1.17E-02	1.85E-01	1.17E-02	1.11E+00	6.58E-01	2.36E+00	1.26E+00	2.63E-02
915	359800	3798750	8.59E-01	3.09E-02	1.93E-01	1.17E-02	1.93E-01	1.17E-02	1.08E+00	6.91E-01	2.29E+00	1.32E+00	2.56E-02
916	359850	3798750	8.27E-01	3.14E-02	1.94E-01	1.21E-02	1.94E-01	1.21E-02	1.04E+00	6.97E-01	2.21E+00	1.32E+00	2.46E-02
917	359900	3798750	8.11E-01	3.26E-02	1.87E-01	1.27E-02	1.87E-01	1.27E-02	1.02E+00	6.74E-01	2.16E+00	1.27E+00	2.42E-02
918	359950	3798750	8.84E-01	3.42E-02	1.77E-01	1.34E-02	1.77E-01	1.34E-02	1.11E+00	6.35E-01	2.36E+00	1.21E+00	2.63E-02
919	360000	3798750	9.48E-01	3.63E-02	1.73E-01	1.43E-02	1.73E-01	1.43E-02	1.19E+00	6.23E-01	2.53E+00	1.22E+00	2.82E-02
920	360050	3798750	9.77E-01	3.86E-02	1.95E-01	1.53E-02	1.95E-01	1.53E-02	1.22E+00	6.92E-01	2.60E+00	1.27E+00	2.91E-02
921	360100	3798750	9.70E-01	4.10E-02	2.21E-01	1.63E-02	2.21E-01	1.63E-02	1.22E+00	7.86E-01	2.59E+00	1.41E+00	2.89E-02
922	360150	3798750	9.77E-01	4.33E-02	2.40E-01	1.72E-02	2.40E-01	1.72E-02	1.23E+00	8.58E-01	2.61E+00	1.53E+00	2.91E-02
923	360200	3798750	9.33E-01	4.58E-02	2.52E-01	1.82E-02	2.52E-01	1.82E-02	1.17E+00	9.04E-01	2.49E+00	1.61E+00	2.78E-02
924	360250	3798750	9.26E-01	5.39E-02	3.05E-01	2.12E-02	3.05E-01	2.12E-02	1.16E+00	1.09E+00	2.47E+00	1.69E+00	2.76E-02
925	360300	3798750	9.29E-01	5.26E-02	2.98E-01	2.06E-02	2.98E-01	2.06E-02	1.17E+00	1.07E+00	2.48E+00	1.67E+00	2.77E-02
926	360350	3798750	9.33E-01	5.40E-02	2.91E-01	2.11E-02	2.91E-01	2.11E-02	1.17E+00	1.05E+00	2.49E+00	1.64E+00	2.78E-02
927	360400	3798750	9.29E-01	5.59E-02	2.73E-01	2.16E-02	2.73E-01	2.16E-02	1.17E+00	9.88E-01	2.48E+00	1.56E+00	2.77E-02
928	361850	3798750	3.39E-01	2.37E-02	3.96E-02	9.07E-03	3.96E-02	9.07E-03	4.22E-01	1.32E-01	9.05E-01	2.83E-01	1.01E-02
929	361900	3798750	3.21E-01	2.35E-02	3.88E-02	9.00E-03	3.88E-02	9.00E-03	3.99E-01	1.29E-01	8.56E-01	2.75E-01	9.56E-03
930	361950	3798750	3.02E-01	2.33E-02	3.78E-02	8.95E-03	3.78E-02	8.95E-03	3.76E-01	1.26E-01	8.05E-01	2.67E-01	9.00E-03
931	362000	3798750	2.90E-01	2.31E-02	3.68E-02	8.91E-03	3.68E-02	8.91E-03	3.61E-01	1.22E-01	7.74E-01	2.60E-01	8.65E-03
932	362050	3798750	2.97E-01	2.30E-02	3.56E-02	8.87E-03	3.56E-02	8.87E-03	3.69E-01	1.18E-01	7.92E-01	2.51E-01	8.85E-03
933	362100	3798750	3.02E-01	2.29E-02	3.44E-02	8.84E-03	3.44E-02	8.84E-03	3.75E-01	1.14E-01	8.05E-01	2.43E-01	8.99E-03
934	362150	3798750	3.05E-01	2.28E-02	3.47E-02	8.82E-03	3.47E-02	8.82E-03	3.79E-01	1.15E-01	8.13E-01	2.34E-01	9.09E-03
935	362200	3798750	3.07E-01	2.27E-02	3.49E-02	8.80E-03	3.49E-02	8.80E-03	3.81E-01	1.16E-01	8.18E-01	2.28E-01	9.14E-03
936	362250	3798750	3.07E-01	2.26E-02	3.51E-02	8.78E-03	3.51E-02	8.78E-03	3.81E-01	1.16E-01	8.18E-01	2.26E-01	9.14E-03
937	362300	3798750	3.06E-01	2.26E-02	3.54E-02	8.76E-03	3.54E-02	8.76E-03	3.80E-01	1.17E-01	8.15E-01	2.23E-01	9.11E-03
938	359050	3798800	7.23E-01	2.03E-02	1.33E-01	7.40E-03	1.33E-01	7.40E-03	9.06E-01	4.59E-01	1.93E+00	9.19E-01	2.16E-02
939	359100	3798800	7.25E-01	1.92E-02	1.52E-01	7.06E-03	1.52E-01	7.06E-03	9.08E-01	5.26E-01	1.93E+00	1.06E+00	2.16E-02
940	359150	3798800	7.20E-01	1.97E-02	1.64E-01	7.23E-03	1.64E-01	7.23E-03	9.02E-01	5.64E-01	1.92E+00	1.05E+00	2.15E-02
941	359200	3798800	7.85E-01	2.11E-02	1.89E-01	7.68E-03	1.89E-01	7.68E-03	9.84E-01	6.30E-01	2.09E+00	1.00E+00	2.34E-02
942	359250	3798800	7.77E-01	2.27E-02	2.16E-01	8.21E-03	2.16E-01	8.21E-03	9.73E-01	7.03E-01	2.07E+00	1.02E+00	2.32E-02
943	359300	3798800	7.93E-01	2.45E-02	2.33E-01	8.80E-03	2.33E-01	8.80E-03	9.94E-01	7.51E-01	2.12E+00	1.02E+00	2.36E-02
944	359350	3798800	7.62E-01	2.66E-02	2.24E-01	9.44E-03	2.24E-01	9.44E-03	9.55E-01	7.28E-01	2.03E+00	9.81E-01	2.27E-02
945	359400	3798800	7.04E-01	2.92E-02	1.88E-01	1.02E-02	1.88E-01	1.02E-02	8.82E-01	6.38E-01	1.88E+00	9.77E-01	2.10E-02
946	359450	3798800	6.54E-01	3.42E-02	1.68E-01	1.16E-02	1.68E-01	1.16E-02	8.19E-01	5.47E-01	1.74E+00	8.53E-01	1.95E-02
947	359500	3798800	6.62E-01	4.06E-02	1.49E-01	1.36E-02	1.49E-01	1.36E-02	8.29E-01	5.07E-01	1.77E+00	9.56E-01	1.97E-02
948	359550	3798800	6.48E-01	4.38E-02	1.77E-01	1.47E-02	1.77E-01	1.47E-02	8.12E-01	5.16E-01	1.73E+00	1.07E+00	1.93E-02
949	359600	3798800	7.56E-01	4.16E-02	1.53E-01	1.42E-02	1.53E-01	1.42E-02	9.47E-01	5.45E-01	2.01E+00	1.14E+00	2.25E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
950	359650	3798800	8.44E-01	3.68E-02	1.59E-01	1.29E-02	1.59E-01	1.29E-02	1.06E+00	5.68E-01	2.25E+00	1.16E+00	2.51E-02
951	359700	3798800	9.01E-01	3.31E-02	1.68E-01	1.20E-02	1.68E-01	1.20E-02	1.13E+00	5.97E-01	2.40E+00	1.23E+00	2.68E-02
952	359750	3798800	9.17E-01	3.14E-02	1.86E-01	1.17E-02	1.86E-01	1.17E-02	1.15E+00	6.61E-01	2.45E+00	1.26E+00	2.73E-02
953	359800	3798800	8.88E-01	3.13E-02	1.97E-01	1.18E-02	1.97E-01	1.18E-02	1.11E+00	7.03E-01	2.37E+00	1.32E+00	2.65E-02
954	359850	3798800	8.66E-01	3.21E-02	2.03E-01	1.23E-02	2.03E-01	1.23E-02	1.09E+00	7.28E-01	2.31E+00	1.39E+00	2.58E-02
955	359900	3798800	8.34E-01	3.35E-02	1.95E-01	1.29E-02	1.95E-01	1.29E-02	1.05E+00	7.01E-01	2.23E+00	1.31E+00	2.49E-02
956	359950	3798800	9.00E-01	3.53E-02	1.85E-01	1.37E-02	1.85E-01	1.37E-02	1.13E+00	6.69E-01	2.40E+00	1.26E+00	2.68E-02
957	360000	3798800	9.65E-01	4.03E-02	1.87E-01	1.58E-02	1.87E-01	1.58E-02	1.21E+00	6.71E-01	2.57E+00	1.35E+00	2.88E-02
958	360050	3798800	9.94E-01	4.17E-02	2.06E-01	1.64E-02	2.06E-01	1.64E-02	1.25E+00	7.27E-01	2.65E+00	1.27E+00	2.96E-02
959	360100	3798800	1.00E+00	4.43E-02	2.37E-01	1.75E-02	2.37E-01	1.75E-02	1.25E+00	8.42E-01	2.67E+00	1.43E+00	2.98E-02
960	360150	3798800	9.96E-01	5.23E-02	2.84E-01	2.06E-02	2.84E-01	2.06E-02	1.25E+00	1.01E+00	2.66E+00	1.63E+00	2.97E-02
961	360200	3798800	9.53E-01	5.50E-02	2.93E-01	2.16E-02	2.93E-01	2.16E-02	1.19E+00	1.05E+00	2.54E+00	1.74E+00	2.84E-02
962	360250	3798800	9.61E-01	5.87E-02	3.24E-01	2.28E-02	3.24E-01	2.28E-02	1.20E+00	1.15E+00	2.56E+00	1.77E+00	2.86E-02
963	360300	3798800	9.62E-01	5.64E-02	3.12E-01	2.19E-02	3.12E-01	2.19E-02	1.21E+00	1.12E+00	2.57E+00	1.73E+00	2.87E-02
964	361850	3798800	3.31E-01	2.36E-02	3.84E-02	9.02E-03	3.84E-02	9.02E-03	4.12E-01	1.28E-01	8.83E-01	2.73E-01	9.87E-03
965	361900	3798800	3.11E-01	2.33E-02	3.75E-02	8.96E-03	3.75E-02	8.96E-03	3.87E-01	1.25E-01	8.29E-01	2.66E-01	9.27E-03
966	361950	3798800	2.99E-01	2.32E-02	3.64E-02	8.92E-03	3.64E-02	8.92E-03	3.72E-01	1.21E-01	7.98E-01	2.58E-01	8.91E-03
967	362000	3798800	3.06E-01	2.30E-02	3.52E-02	8.88E-03	3.52E-02	8.88E-03	3.81E-01	1.17E-01	8.16E-01	2.50E-01	9.12E-03
968	362050	3798800	3.11E-01	2.29E-02	3.43E-02	8.85E-03	3.43E-02	8.85E-03	3.87E-01	1.14E-01	8.30E-01	2.41E-01	9.27E-03
969	362100	3798800	3.14E-01	2.28E-02	3.46E-02	8.83E-03	3.46E-02	8.83E-03	3.91E-01	1.15E-01	8.38E-01	2.32E-01	9.37E-03
970	362150	3798800	3.16E-01	2.27E-02	3.49E-02	8.81E-03	3.49E-02	8.81E-03	3.93E-01	1.16E-01	8.43E-01	2.24E-01	9.42E-03
971	362200	3798800	3.16E-01	2.26E-02	3.53E-02	8.79E-03	3.53E-02	8.79E-03	3.93E-01	1.16E-01	8.43E-01	2.22E-01	9.42E-03
972	362250	3798800	3.15E-01	2.26E-02	3.56E-02	8.77E-03	3.56E-02	8.77E-03	3.91E-01	1.17E-01	8.39E-01	2.20E-01	9.37E-03
973	362300	3798800	3.12E-01	2.25E-02	3.59E-02	8.76E-03	3.59E-02	8.76E-03	3.87E-01	1.18E-01	8.31E-01	2.16E-01	9.29E-03
974	359000	3798850	7.12E-01	1.83E-02	1.02E-01	6.67E-03	1.02E-01	6.67E-03	8.91E-01	3.55E-01	1.90E+00	7.35E-01	2.12E-02
975	359050	3798850	7.42E-01	2.06E-02	1.21E-01	7.45E-03	1.21E-01	7.45E-03	9.29E-01	4.19E-01	1.98E+00	8.50E-01	2.21E-02
976	359100	3798850	7.56E-01	2.15E-02	1.44E-01	7.77E-03	1.44E-01	7.77E-03	9.47E-01	4.98E-01	2.02E+00	1.01E+00	2.25E-02
977	359150	3798850	7.53E-01	2.07E-02	1.63E-01	7.54E-03	1.63E-01	7.54E-03	9.43E-01	5.65E-01	2.01E+00	1.13E+00	2.24E-02
978	359200	3798850	7.82E-01	2.12E-02	1.73E-01	7.71E-03	1.73E-01	7.71E-03	9.81E-01	5.88E-01	2.09E+00	1.03E+00	2.33E-02
979	359250	3798850	8.26E-01	2.29E-02	2.01E-01	8.26E-03	2.01E-01	8.26E-03	1.04E+00	6.67E-01	2.20E+00	1.02E+00	2.46E-02
980	359300	3798850	8.14E-01	2.50E-02	2.31E-01	8.91E-03	2.31E-01	8.91E-03	1.02E+00	7.48E-01	2.17E+00	1.03E+00	2.43E-02
981	359350	3798850	8.02E-01	2.72E-02	2.41E-01	9.63E-03	2.41E-01	9.63E-03	1.01E+00	7.76E-01	2.14E+00	1.00E+00	2.39E-02
982	359400	3798850	7.73E-01	2.98E-02	2.10E-01	1.05E-02	2.10E-01	1.05E-02	9.69E-01	7.00E-01	2.06E+00	9.50E-01	2.30E-02
983	359450	3798850	7.03E-01	3.47E-02	1.77E-01	1.17E-02	1.77E-01	1.17E-02	8.81E-01	5.91E-01	1.87E+00	9.13E-01	2.09E-02
984	359500	3798850	6.70E-01	4.22E-02	1.50E-01	1.41E-02	1.50E-01	1.41E-02	8.40E-01	5.23E-01	1.79E+00	9.40E-01	2.00E-02
985	359550	3798850	6.63E-01	4.58E-02	1.82E-01	1.53E-02	1.82E-01	1.53E-02	8.30E-01	5.12E-01	1.77E+00	1.07E+00	1.97E-02
986	359600	3798850	7.39E-01	4.19E-02	1.54E-01	1.43E-02	1.54E-01	1.43E-02	9.26E-01	5.48E-01	1.97E+00	1.17E+00	2.20E-02
987	359650	3798850	8.42E-01	3.61E-02	1.61E-01	1.27E-02	1.61E-01	1.27E-02	1.06E+00	5.77E-01	2.24E+00	1.22E+00	2.51E-02
988	359700	3798850	9.16E-01	3.29E-02	1.66E-01	1.19E-02	1.66E-01	1.19E-02	1.15E+00	5.90E-01	2.44E+00	1.21E+00	2.73E-02
989	359750	3798850	9.48E-01	3.18E-02	1.86E-01	1.17E-02	1.86E-01	1.17E-02	1.19E+00	6.61E-01	2.53E+00	1.26E+00	2.82E-02
990	359800	3798850	9.32E-01	3.19E-02	2.00E-01	1.20E-02	2.00E-01	1.20E-02	1.17E+00	7.13E-01	2.48E+00	1.31E+00	2.78E-02
991	359850	3798850	9.18E-01	3.36E-02	2.25E-01	1.28E-02	2.25E-01	1.28E-02	1.15E+00	8.04E-01	2.45E+00	1.61E+00	2.73E-02
992	359900	3798850	8.89E-01	3.86E-02	2.32E-01	1.48E-02	2.32E-01	1.48E-02	1.11E+00	8.32E-01	2.37E+00	1.72E+00	2.65E-02
993	359950	3798850	9.23E-01	3.90E-02	2.09E-01	1.51E-02	2.09E-01	1.51E-02	1.16E+00	7.52E-01	2.46E+00	1.47E+00	2.75E-02
994	360000	3798850	9.96E-01	4.62E-02	1.95E-01	1.79E-02	1.95E-01	1.79E-02	1.25E+00	6.97E-01	2.66E+00	1.37E+00	2.97E-02
995	361850	3798850	3.20E-01	2.34E-02	3.70E-02	8.97E-03	3.70E-02	8.97E-03	3.99E-01	1.23E-01	8.54E-01	2.63E-01	9.55E-03
996	361900	3798850	3.08E-01	2.32E-02	3.59E-02	8.92E-03	3.59E-02	8.92E-03	3.84E-01	1.20E-01	8.22E-01	2.55E-01	9.19E-03
997	361950	3798850	3.16E-01	2.30E-02	3.48E-02	8.88E-03	3.48E-02	8.88E-03	3.93E-01	1.16E-01	8.42E-01	2.47E-01	9.41E-03
998	362000	3798850	3.21E-01	2.29E-02	3.42E-02	8.85E-03	3.42E-02	8.85E-03	3.99E-01	1.14E-01	8.56E-01	2.38E-01	9.56E-03
999	362050	3798850	3.24E-01	2.28E-02	3.45E-02	8.83E-03	3.45E-02	8.83E-03	4.03E-01	1.15E-01	8.64E-01	2.29E-01	9.66E-03
1000	362100	3798850	3.26E-01	2.27E-02	3.50E-02	8.81E-03	3.50E-02	8.81E-03	4.05E-01	1.16E-01	8.68E-01	2.20E-01	9.70E-03
1001	362150	3798850	3.25E-01	2.26E-02	3.54E-02	8.79E-03	3.54E-02	8.79E-03	4.05E-01	1.16E-01	8.67E-01	2.18E-01	9.69E-03
1002	362200	3798850	3.24E-01	2.26E-02	3.58E-02	8.78E-03	3.58E-02	8.78E-03	4.02E-01	1.18E-01	8.63E-01	2.15E-01	9.64E-03
1003	362250	3798850	3.20E-01	2.25E-02	3.62E-02	8.76E-03	3.62E-02	8.76E-03	3.98E-01	1.19E-01	8.54E-01	2.16E-01	9.55E-03
1004	362300	3798850	3.16E-01	2.25E-02	3.65E-02	8.75E-03	3.65E-02	8.75E-03	3.93E-01	1.20E-01	8.43E-01	2.19E-01	9.42E-03
1005	358950	3798900	6.54E-01	1.76E-02	7.83E-02	6.40E-03	7.83E-02	6.40E-03	8.19E-01	2.74E-01	1.74E+00	6.40E-01	1.95E-02
1006	359000	3798900	7.08E-01	1.77E-02	9.18E-02	6.46E-03	9.18E-02	6.46E-03	8.86E-01	3.21E-01	1.89E+00	6.54E-01	2.11E-02
1007	359050	3798900	7.51E-01	1.93E-02	1.09E-01	7.02E-03	1.09E-01	7.02E-03	9.40E-01	3.81E-01	2.00E+00	7.85E-01	2.24E-02
1008	359100	3798900	7.80E-01	2.15E-02	1.32E-01	7.77E-03	1.32E-01	7.77E-03	9.76E-01	4.57E-01	2.08E+00	9.38E-01	2.32E-02
1009	359150	3798900	7.90E-01	2.17E-02	1.53E-01	7.85E-03	1.53E-01	7.85E-03	9.89E-01	5.34E-01	2.11E+00	1.09E+00	2.35E-02
1010	359200	3798900	7.80E-01	2.14E-02	1.68E-01	7.77E-03	1.68E-01	7.77E-03	9.77E-01	5.85E-01	2.08E+00	1.14E+00	2.32E-02
1011	359250	3798900	8.38E-01	2.30E-02	1.81E-01	8.29E-03	1.81E-01	8.29E-03	1.05E+00	6.18E-01	2.23E+00	1.04E+00	2.50E-02
1012	359300	3798900	8.46E-01	2.51E-02	2.14E-01	8.97E-03	2.14E-01	8.97E-03	1.06E+00	7.07E-01	2.26E+00	1.02E+00	2.52E-02
1013	359350	3798900	8.50E-01	2.77E-02	2.45E-01	9.76E-03	2.45E-01	9.76E-03	1.06E+00	7.90E-01	2.27E+00	1.02E+00	2.53E-02
1014	359400	3798900	8.25E-01	3.05E-02	2.35E-01	1.07E-02	2.35E-01	1.07E-02	1.03E+00	7.66E-01	2.20E+00	9.81E-01	2.46E-02
1015	359450	3798900	7.71E-01	3.45E-02	1.86E-01	1.19E-02	1.86E-01	1.19E-02	9.67E-01	6.40E-01	2.06E+00	9.73E-01	2.30E-02
1016	359500	3798900	6.93E-01	4.33E-02	1.56E-01	1.44E-02	1.56E-01	1.44E-02	8.68E-01	5.63E-01	1.85E+00	9.47E-01	2.07E-02
1017	359550	3798900	6.77E-01	4.71E-02	1.91E-01	1.57E-02	1.91E-01	1.57E-02	8.49E-01	5.07E-01	1.81E+00	1.07E+00	2.02E-02
1018	359600	3798900	7.14E-01	4.12E-02	1.58E-01	1.40E-02	1.58E-01	1.40E-02	8.95E-01	5.49E-01	1.90E+00	1.19E+00	2.13E-02
1019	359650	3798900	8.33E-01	3.54E-02	1.64E-01	1.25E-02	1.64E-01	1.25E-02	1.04E+00	5.85E-01	2.22E+00	1.27E+00	2.48E-02
1020	359700	3798900	9.24E-01	3.31E-02	1.69E-01	1.20E-02	1.69E-01	1.20E-02	1.16E+00	6.05E-01	2.46E+00	1.28E+00	2.75E-02
1021	359750	3798900	9.85E-01	3.27E-02	1.87E-01	1.20E-02	1.87E-01	1.20E-02	1.24E+00	6.62E-01	2.63E+00	1.35E+00	2.94E-02
1022	359800	3798900	9.75E-01	3.36E-02	2.22E-01	1.25E-02	2.22E-01	1.25E-02	1.22E+00	7.91E-01	2.60E+00	1.62E+00	2.90E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1023	359850	3798900	9.28E-01	3.78E-02	2.46E-01	1.42E-02	2.46E-01	1.42E-02	1.16E+00	8.76E-01	2.48E+00	1.83E+00	2.77E-02
1024	359900	3798900	9.00E-01	4.17E-02	2.45E-01	1.58E-02	2.45E-01	1.58E-02	1.13E+00	8.78E-01	2.40E+00	1.82E+00	2.68E-02
1025	361850	3798900	3.18E-01	2.32E-02	3.55E-02	8.92E-03	3.55E-02	8.92E-03	3.96E-01	1.18E-01	8.47E-01	2.52E-01	9.47E-03
1026	361900	3798900	3.25E-01	2.30E-02	3.43E-02	8.88E-03	3.43E-02	8.88E-03	4.05E-01	1.14E-01	8.68E-01	2.43E-01	9.70E-03
1027	361950	3798900	3.31E-01	2.29E-02	3.40E-02	8.85E-03	3.40E-02	8.85E-03	4.12E-01	1.14E-01	8.82E-01	2.34E-01	9.86E-03
1028	362000	3798900	3.34E-01	2.28E-02	3.45E-02	8.82E-03	3.45E-02	8.82E-03	4.16E-01	1.14E-01	8.91E-01	2.25E-01	9.96E-03
1029	362050	3798900	3.35E-01	2.27E-02	3.51E-02	8.80E-03	3.51E-02	8.80E-03	4.17E-01	1.15E-01	8.94E-01	2.15E-01	9.99E-03
1030	362100	3798900	3.35E-01	2.26E-02	3.56E-02	8.79E-03	3.56E-02	8.79E-03	4.17E-01	1.17E-01	8.93E-01	2.13E-01	9.98E-03
1031	362150	3798900	3.33E-01	2.26E-02	3.61E-02	8.77E-03	3.61E-02	8.77E-03	4.14E-01	1.19E-01	8.87E-01	2.12E-01	9.91E-03
1032	362200	3798900	3.29E-01	2.25E-02	3.64E-02	8.76E-03	3.64E-02	8.76E-03	4.09E-01	1.20E-01	8.77E-01	2.16E-01	9.80E-03
1033	362250	3798900	3.24E-01	2.24E-02	3.67E-02	8.75E-03	3.67E-02	8.75E-03	4.03E-01	1.21E-01	8.64E-01	2.20E-01	9.66E-03
1034	362300	3798900	3.18E-01	2.24E-02	3.70E-02	8.74E-03	3.70E-02	8.74E-03	3.95E-01	1.22E-01	8.48E-01	2.23E-01	9.48E-03
1035	358950	3798950	6.28E-01	1.75E-02	6.95E-02	6.32E-03	6.95E-02	6.32E-03	7.86E-01	2.43E-01	1.67E+00	6.53E-01	1.87E-02
1036	359000	3798950	6.92E-01	1.81E-02	8.24E-02	6.57E-03	8.24E-02	6.57E-03	8.67E-01	2.88E-01	1.85E+00	6.79E-01	2.06E-02
1037	359050	3798950	7.49E-01	1.89E-02	9.68E-02	6.85E-03	9.68E-02	6.85E-03	9.37E-01	3.39E-01	2.00E+00	6.93E-01	2.23E-02
1038	359100	3798950	7.92E-01	2.06E-02	1.17E-01	7.43E-03	1.17E-01	7.43E-03	9.92E-01	4.09E-01	2.11E+00	8.39E-01	2.36E-02
1039	359150	3798950	8.19E-01	2.07E-02	1.34E-01	7.49E-03	1.34E-01	7.49E-03	1.03E+00	4.70E-01	2.18E+00	9.37E-01	2.44E-02
1040	359200	3798950	8.24E-01	2.19E-02	1.51E-01	7.88E-03	1.51E-01	7.88E-03	1.03E+00	5.29E-01	2.20E+00	1.02E+00	2.46E-02
1041	359250	3798950	8.40E-01	2.33E-02	1.64E-01	8.35E-03	1.64E-01	8.35E-03	1.05E+00	5.73E-01	2.24E+00	9.69E-01	2.50E-02
1042	359300	3798950	8.70E-01	2.52E-02	1.89E-01	8.97E-03	1.89E-01	8.97E-03	1.09E+00	6.46E-01	2.32E+00	1.01E+00	2.59E-02
1043	359350	3798950	8.91E-01	2.78E-02	2.27E-01	9.79E-03	2.27E-01	9.79E-03	1.12E+00	7.47E-01	2.38E+00	1.02E+00	2.65E-02
1044	359400	3798950	8.82E-01	3.08E-02	2.51E-01	1.08E-02	2.51E-01	1.08E-02	1.10E+00	8.09E-01	2.35E+00	1.00E+00	2.63E-02
1045	359450	3798950	8.40E-01	3.47E-02	2.04E-01	1.20E-02	2.04E-01	1.20E-02	1.05E+00	6.98E-01	2.24E+00	1.03E+00	2.50E-02
1046	359500	3798950	7.69E-01	4.34E-02	1.67E-01	1.44E-02	1.67E-01	1.44E-02	9.64E-01	6.01E-01	2.05E+00	1.02E+00	2.29E-02
1047	359550	3798950	6.85E-01	4.72E-02	1.94E-01	1.56E-02	1.94E-01	1.56E-02	8.59E-01	5.49E-01	1.83E+00	1.05E+00	2.04E-02
1048	359600	3798950	6.82E-01	3.93E-02	1.54E-01	1.36E-02	1.54E-01	1.36E-02	8.55E-01	5.48E-01	1.82E+00	1.21E+00	2.03E-02
1049	359650	3798950	8.15E-01	3.51E-02	1.65E-01	1.24E-02	1.65E-01	1.24E-02	1.02E+00	5.91E-01	2.17E+00	1.31E+00	2.43E-02
1050	359700	3798950	9.26E-01	3.38E-02	1.78E-01	1.22E-02	1.78E-01	1.22E-02	1.16E+00	6.34E-01	2.47E+00	1.35E+00	2.76E-02
1051	359750	3798950	1.00E+00	3.39E-02	1.97E-01	1.23E-02	1.97E-01	1.23E-02	1.26E+00	6.97E-01	2.68E+00	1.58E+00	2.99E-02
1052	359800	3798950	1.01E+00	3.81E-02	2.37E-01	1.40E-02	2.37E-01	1.40E-02	1.27E+00	8.40E-01	2.69E+00	1.91E+00	3.01E-02
1053	361850	3798950	3.35E-01	2.29E-02	3.37E-02	8.87E-03	3.37E-02	8.87E-03	4.18E-01	1.12E-01	8.95E-01	2.40E-01	1.00E-02
1054	361900	3798950	3.41E-01	2.28E-02	3.38E-02	8.83E-03	3.38E-02	8.83E-03	4.25E-01	1.13E-01	9.09E-01	2.30E-01	1.02E-02
1055	361950	3798950	3.44E-01	2.27E-02	3.46E-02	8.81E-03	3.46E-02	8.81E-03	4.29E-01	1.14E-01	9.18E-01	2.20E-01	1.03E-02
1056	362000	3798950	3.45E-01	2.26E-02	3.52E-02	8.79E-03	3.52E-02	8.79E-03	4.30E-01	1.16E-01	9.21E-01	2.11E-01	1.03E-02
1057	362050	3798950	3.45E-01	2.26E-02	3.58E-02	8.78E-03	3.58E-02	8.78E-03	4.29E-01	1.18E-01	9.19E-01	2.08E-01	1.03E-02
1058	362100	3798950	3.42E-01	2.25E-02	3.63E-02	8.76E-03	3.63E-02	8.76E-03	4.25E-01	1.20E-01	9.12E-01	2.12E-01	1.02E-02
1059	362150	3798950	3.38E-01	2.25E-02	3.67E-02	8.75E-03	3.67E-02	8.75E-03	4.20E-01	1.22E-01	9.00E-01	2.17E-01	1.01E-02
1060	362200	3798950	3.32E-01	2.24E-02	3.70E-02	8.75E-03	3.70E-02	8.75E-03	4.13E-01	1.23E-01	8.86E-01	2.20E-01	9.90E-03
1061	362250	3798950	3.25E-01	2.24E-02	3.73E-02	8.74E-03	3.73E-02	8.74E-03	4.05E-01	1.24E-01	8.68E-01	2.23E-01	9.70E-03
1062	362300	3798950	3.18E-01	2.24E-02	3.75E-02	8.75E-03	3.75E-02	8.75E-03	3.95E-01	1.24E-01	8.47E-01	2.25E-01	9.47E-03
1063	358950	3799000	5.91E-01	1.82E-02	6.44E-02	6.45E-03	6.44E-02	6.45E-03	7.40E-01	2.27E-01	1.58E+00	6.55E-01	1.76E-02
1064	359000	3799000	6.65E-01	1.89E-02	7.31E-02	6.72E-03	7.31E-02	6.72E-03	8.33E-01	2.55E-01	1.77E+00	6.95E-01	1.98E-02
1065	359050	3799000	7.34E-01	1.97E-02	8.69E-02	7.01E-03	8.69E-02	7.01E-03	9.19E-01	3.04E-01	1.96E+00	7.23E-01	2.19E-02
1066	359100	3799000	7.93E-01	2.06E-02	1.02E-01	7.34E-03	1.02E-01	7.34E-03	9.94E-01	3.58E-01	2.11E+00	7.35E-01	2.36E-02
1067	359150	3799000	8.52E-01	2.15E-02	1.19E-01	7.69E-03	1.19E-01	7.69E-03	1.07E+00	4.16E-01	2.27E+00	7.57E-01	2.54E-02
1068	359200	3799000	8.74E-01	2.26E-02	1.35E-01	8.09E-03	1.35E-01	8.09E-03	1.10E+00	4.77E-01	2.33E+00	8.46E-01	2.61E-02
1069	359250	3799000	8.57E-01	2.39E-02	1.52E-01	8.53E-03	1.52E-01	8.53E-03	1.07E+00	5.37E-01	2.29E+00	9.24E-01	2.55E-02
1070	359300	3799000	8.82E-01	2.55E-02	1.70E-01	9.05E-03	1.70E-01	9.05E-03	1.11E+00	5.97E-01	2.35E+00	9.83E-01	2.63E-02
1071	359350	3799000	9.23E-01	2.77E-02	1.95E-01	9.76E-03	1.95E-01	9.76E-03	1.16E+00	6.70E-01	2.46E+00	1.02E+00	2.75E-02
1072	359400	3799000	9.33E-01	3.07E-02	2.35E-01	1.07E-02	2.35E-01	1.07E-02	1.17E+00	7.76E-01	2.49E+00	1.03E+00	2.78E-02
1073	359450	3799000	9.08E-01	3.44E-02	2.26E-01	1.19E-02	2.26E-01	1.19E-02	1.14E+00	7.58E-01	2.42E+00	1.08E+00	2.71E-02
1074	359500	3799000	8.48E-01	4.15E-02	1.77E-01	1.38E-02	1.77E-01	1.38E-02	1.06E+00	6.37E-01	2.26E+00	1.09E+00	2.53E-02
1075	359550	3799000	7.55E-01	4.48E-02	1.66E-01	1.49E-02	1.66E-01	1.49E-02	9.47E-01	5.91E-01	2.01E+00	1.06E+00	2.25E-02
1076	359600	3799000	8.11E-01	3.78E-02	1.55E-01	1.31E-02	1.55E-01	1.31E-02	1.02E+00	5.62E-01	2.16E+00	1.20E+00	2.42E-02
1077	359650	3799000	7.88E-01	3.52E-02	1.70E-01	1.25E-02	1.70E-01	1.25E-02	9.88E-01	6.03E-01	2.10E+00	1.34E+00	2.35E-02
1078	359700	3799000	9.18E-01	3.58E-02	1.98E-01	1.28E-02	1.98E-01	1.28E-02	1.15E+00	7.01E-01	2.45E+00	1.55E+00	2.74E-02
1079	359750	3799000	1.01E+00	4.00E-02	2.16E-01	1.43E-02	2.16E-01	1.43E-02	1.27E+00	7.65E-01	2.69E+00	1.88E+00	3.01E-02
1080	359800	3799000	1.04E+00	4.42E-02	2.29E-01	1.61E-02	2.29E-01	1.61E-02	1.31E+00	8.07E-01	2.79E+00	1.94E+00	3.11E-02
1081	359850	3799000	1.01E+00	4.23E-02	2.63E-01	1.57E-02	2.63E-01	1.57E-02	1.27E+00	9.36E-01	2.70E+00	1.96E+00	3.02E-02
1082	361850	3799000	3.51E-01	2.28E-02	3.38E-02	8.82E-03	3.38E-02	8.82E-03	4.38E-01	1.13E-01	9.37E-01	2.26E-01	1.05E-02
1083	361900	3799000	3.55E-01	2.27E-02	3.47E-02	8.79E-03	3.47E-02	8.79E-03	4.42E-01	1.15E-01	9.46E-01	2.15E-01	1.06E-02
1084	361950	3799000	3.56E-01	2.26E-02	3.54E-02	8.78E-03	3.54E-02	8.78E-03	4.43E-01	1.17E-01	9.48E-01	2.05E-01	1.06E-02
1085	362000	3799000	3.54E-01	2.25E-02	3.60E-02	8.76E-03	3.60E-02	8.76E-03	4.41E-01	1.19E-01	9.45E-01	2.07E-01	1.06E-02
1086	362050	3799000	3.51E-01	2.24E-02	3.66E-02	8.75E-03	3.66E-02	8.75E-03	4.37E-01	1.21E-01	9.36E-01	2.12E-01	1.05E-02
1087	362100	3799000	3.46E-01	2.24E-02	3.70E-02	8.74E-03	3.70E-02	8.74E-03	4.31E-01	1.23E-01	9.23E-01	2.17E-01	1.03E-02
1088	362150	3799000	3.40E-01	2.24E-02	3.74E-02	8.73E-03	3.74E-02	8.73E-03	4.23E-01	1.24E-01	9.07E-01	2.20E-01	1.01E-02
1089	362200	3799000	3.33E-01	2.23E-02	3.76E-02	8.73E-03	3.76E-02	8.73E-03	4.14E-01	1.25E-01	8.87E-01	2.23E-01	9.91E-03
1090	362250	3799000	3.24E-01	2.23E-02	3.78E-02	8.75E-03	3.78E-02	8.75E-03	4.03E-01	1.26E-01	8.64E-01	2.24E-01	9.66E-03
1091	362300	3799000	3.15E-01	2.24E-02	3.79E-02	8.77E-03	3.79E-02	8.77E-03	3.92E-01	1.26E-01	8.40E-01	2.25E-01	9.38E-03
1092	358900	3799050	4.67E-01	1.83E-02	5.54E-02	6.42E-03	5.54E-02	6.42E-03	5.85E-01	1.94E-01	1.24E+00	5.84E-01	1.39E-02
1093	358950	3799050	5.45E-01	1.90E-02	6.14E-02	6.65E-03	6.14E-02	6.65E-03	6.83E-01	2.16E-01	1.45E+00	6.45E-01	1.62E-02
1094	359000	3799050	6.26E-01	1.98E-02	6.71E-02	6.92E-03	6.71E-02	6.92E-03	7.84E-01	2.37E-01	1.67E+00	6.99E-01	1.86E-02
1095	359050	3799050	7.05E-01	2.07E-02	7.69E-02	7.22E-03	7.69E-02	7.22E-03	8.83E-01	2.69E-01	1.88E+00	7.41E-01	2.10E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1096	359100	3799050	7.81E-01	2.17E-02	9.18E-02	7.58E-03	9.18E-02	7.58E-03	9.79E-01	3.21E-01	2.08E+00	7.70E-01	2.33E-02
1097	359150	3799050	8.39E-01	2.28E-02	1.08E-01	7.97E-03	1.08E-01	7.97E-03	1.05E+00	3.80E-01	2.24E+00	7.81E-01	2.50E-02
1098	359200	3799050	8.81E-01	2.40E-02	1.26E-01	8.40E-03	1.26E-01	8.40E-03	1.10E+00	4.42E-01	2.35E+00	8.04E-01	2.63E-02
1099	359250	3799050	9.00E-01	2.54E-02	1.43E-01	8.86E-03	1.43E-01	8.86E-03	1.13E+00	5.05E-01	2.40E+00	8.86E-01	2.68E-02
1100	359300	3799050	8.89E-01	2.68E-02	1.60E-01	9.36E-03	1.60E-01	9.36E-03	1.11E+00	5.65E-01	2.37E+00	9.55E-01	2.65E-02
1101	359350	3799050	9.54E-01	2.82E-02	1.76E-01	9.91E-03	1.76E-01	9.91E-03	1.20E+00	6.21E-01	2.54E+00	1.01E+00	2.84E-02
1102	359400	3799050	9.82E-01	3.04E-02	1.96E-01	1.06E-02	1.96E-01	1.06E-02	1.23E+00	6.84E-01	2.62E+00	1.05E+00	2.93E-02
1103	359450	3799050	9.86E-01	3.34E-02	2.26E-01	1.16E-02	2.26E-01	1.16E-02	1.24E+00	7.61E-01	2.63E+00	1.12E+00	2.94E-02
1104	359500	3799050	9.27E-01	3.77E-02	1.89E-01	1.29E-02	1.89E-01	1.29E-02	1.16E+00	6.79E-01	2.47E+00	1.15E+00	2.76E-02
1105	359550	3799050	8.43E-01	3.99E-02	1.79E-01	1.36E-02	1.79E-01	1.36E-02	1.06E+00	6.48E-01	2.25E+00	1.14E+00	2.51E-02
1106	359600	3799050	8.69E-01	3.67E-02	1.78E-01	1.28E-02	1.78E-01	1.28E-02	1.09E+00	6.46E-01	2.32E+00	1.19E+00	2.59E-02
1107	359650	3799050	8.74E-01	3.77E-02	1.77E-01	1.33E-02	1.77E-01	1.33E-02	1.10E+00	6.24E-01	2.33E+00	1.36E+00	2.61E-02
1108	359700	3799050	9.00E-01	4.33E-02	1.97E-01	1.52E-02	1.97E-01	1.52E-02	1.13E+00	6.95E-01	2.40E+00	1.55E+00	2.68E-02
1109	359750	3799050	1.02E+00	4.41E-02	2.17E-01	1.55E-02	2.17E-01	1.55E-02	1.27E+00	7.70E-01	2.71E+00	1.84E+00	3.03E-02
1110	359800	3799050	1.07E+00	4.27E-02	2.39E-01	1.55E-02	2.39E-01	1.55E-02	1.35E+00	8.42E-01	2.86E+00	2.06E+00	3.20E-02
1111	359850	3799050	1.07E+00	4.09E-02	2.64E-01	1.51E-02	2.64E-01	1.51E-02	1.34E+00	9.38E-01	2.85E+00	1.90E+00	3.18E-02
1112	359900	3799050	1.06E+00	4.08E-02	2.58E-01	1.52E-02	2.58E-01	1.52E-02	1.33E+00	9.26E-01	2.82E+00	1.75E+00	3.15E-02
1113	361750	3799050	3.56E-01	2.29E-02	3.31E-02	8.85E-03	3.31E-02	8.85E-03	4.44E-01	1.11E-01	9.49E-01	2.31E-01	1.06E-02
1114	361800	3799050	3.62E-01	2.27E-02	3.37E-02	8.81E-03	3.37E-02	8.81E-03	4.51E-01	1.12E-01	9.65E-01	2.21E-01	1.08E-02
1115	361850	3799050	3.65E-01	2.26E-02	3.47E-02	8.78E-03	3.47E-02	8.78E-03	4.55E-01	1.15E-01	9.74E-01	2.10E-01	1.09E-02
1116	361900	3799050	3.66E-01	2.25E-02	3.56E-02	8.76E-03	3.56E-02	8.76E-03	4.56E-01	1.18E-01	9.75E-01	2.00E-01	1.09E-02
1117	361950	3799050	3.64E-01	2.24E-02	3.63E-02	8.75E-03	3.63E-02	8.75E-03	4.53E-01	1.21E-01	9.71E-01	2.06E-01	1.09E-02
1118	362000	3799050	3.60E-01	2.24E-02	3.69E-02	8.74E-03	3.69E-02	8.74E-03	4.49E-01	1.23E-01	9.61E-01	2.12E-01	1.07E-02
1119	362050	3799050	3.55E-01	2.23E-02	3.74E-02	8.73E-03	3.74E-02	8.73E-03	4.42E-01	1.24E-01	9.46E-01	2.16E-01	1.06E-02
1120	362100	3799050	3.48E-01	2.23E-02	3.77E-02	8.72E-03	3.77E-02	8.72E-03	4.33E-01	1.26E-01	9.28E-01	2.19E-01	1.04E-02
1121	362150	3799050	3.40E-01	2.23E-02	3.80E-02	8.72E-03	3.80E-02	8.72E-03	4.23E-01	1.27E-01	9.06E-01	2.22E-01	1.01E-02
1122	362200	3799050	3.30E-01	2.23E-02	3.82E-02	8.75E-03	3.82E-02	8.75E-03	4.11E-01	1.27E-01	8.81E-01	2.23E-01	9.84E-03
1123	362250	3799050	3.20E-01	2.23E-02	3.83E-02	8.77E-03	3.83E-02	8.77E-03	3.98E-01	1.28E-01	8.54E-01	2.24E-01	9.54E-03
1124	362300	3799050	3.10E-01	2.24E-02	3.83E-02	8.79E-03	3.83E-02	8.79E-03	3.85E-01	1.28E-01	8.25E-01	2.24E-01	9.22E-03
1125	358900	3799100	4.11E-01	1.91E-02	5.11E-02	6.67E-03	5.11E-02	6.67E-03	5.15E-01	1.78E-01	1.10E+00	5.51E-01	1.23E-02
1126	358950	3799100	4.90E-01	1.99E-02	5.78E-02	6.93E-03	5.78E-02	6.93E-03	6.14E-01	2.03E-01	1.31E+00	6.21E-01	1.46E-02
1127	359000	3799100	5.75E-01	2.09E-02	6.44E-02	7.23E-03	6.44E-02	7.23E-03	7.21E-01	2.26E-01	1.53E+00	6.88E-01	1.72E-02
1128	359050	3799100	6.63E-01	2.19E-02	7.05E-02	7.57E-03	7.05E-02	7.57E-03	8.31E-01	2.48E-01	1.77E+00	7.46E-01	1.98E-02
1129	359100	3799100	7.49E-01	2.31E-02	8.11E-02	7.97E-03	8.11E-02	7.97E-03	9.38E-01	2.83E-01	2.00E+00	7.92E-01	2.23E-02
1130	359150	3799100	8.26E-01	2.45E-02	9.72E-02	8.41E-03	9.72E-02	8.41E-03	1.04E+00	3.40E-01	2.20E+00	8.21E-01	2.46E-02
1131	359200	3799100	8.89E-01	2.60E-02	1.15E-01	8.90E-03	1.15E-01	8.90E-03	1.11E+00	4.03E-01	2.37E+00	8.30E-01	2.65E-02
1132	359250	3799100	9.29E-01	2.76E-02	1.33E-01	9.44E-03	1.33E-01	9.44E-03	1.16E+00	4.69E-01	2.48E+00	8.77E-01	2.77E-02
1133	359300	3799100	9.50E-01	2.93E-02	1.51E-01	1.00E-02	1.51E-01	1.00E-02	1.19E+00	5.35E-01	2.53E+00	9.65E-01	2.83E-02
1134	359350	3799100	9.52E-01	3.10E-02	1.72E-01	1.06E-02	1.72E-01	1.06E-02	1.19E+00	6.09E-01	2.54E+00	1.04E+00	2.84E-02
1135	359400	3799100	1.02E+00	3.22E-02	1.89E-01	1.10E-02	1.89E-01	1.10E-02	1.28E+00	6.71E-01	2.72E+00	1.11E+00	3.04E-02
1136	359450	3799100	1.03E+00	3.25E-02	2.15E-01	1.13E-02	2.15E-01	1.13E-02	1.29E+00	7.63E-01	2.74E+00	1.30E+00	3.06E-02
1137	359500	3799100	1.00E+00	3.25E-02	2.40E-01	1.14E-02	2.40E-01	1.14E-02	1.26E+00	8.59E-01	2.67E+00	1.56E+00	2.99E-02
1138	359550	3799100	9.34E-01	3.50E-02	2.27E-01	1.21E-02	2.27E-01	1.21E-02	1.17E+00	8.20E-01	2.49E+00	1.41E+00	2.78E-02
1139	359600	3799100	9.03E-01	3.87E-02	2.21E-01	1.35E-02	2.21E-01	1.35E-02	1.13E+00	8.00E-01	2.41E+00	1.38E+00	2.69E-02
1140	359650	3799100	8.37E-01	4.37E-02	1.90E-01	1.52E-02	1.90E-01	1.52E-02	1.05E+00	6.90E-01	2.23E+00	1.53E+00	2.49E-02
1141	359700	3799100	8.85E-01	4.20E-02	2.00E-01	1.48E-02	2.00E-01	1.48E-02	1.11E+00	7.06E-01	2.36E+00	1.52E+00	2.64E-02
1142	359750	3799100	1.01E+00	4.05E-02	2.24E-01	1.43E-02	2.24E-01	1.43E-02	1.27E+00	7.94E-01	2.69E+00	1.80E+00	3.01E-02
1143	359800	3799100	1.11E+00	4.02E-02	2.33E-01	1.45E-02	2.33E-01	1.45E-02	1.39E+00	8.22E-01	2.95E+00	1.90E+00	3.30E-02
1144	359850	3799100	1.15E+00	4.04E-02	2.58E-01	1.49E-02	2.58E-01	1.49E-02	1.44E+00	9.18E-01	3.06E+00	1.80E+00	3.42E-02
1145	359900	3799100	1.07E+00	4.14E-02	2.48E-01	1.53E-02	2.48E-01	1.53E-02	1.34E+00	8.88E-01	2.85E+00	1.54E+00	3.19E-02
1146	359950	3799100	1.05E+00	4.36E-02	2.31E-01	1.62E-02	2.31E-01	1.62E-02	1.32E+00	8.32E-01	2.80E+00	1.44E+00	3.13E-02
1147	361700	3799100	3.67E-01	2.29E-02	3.29E-02	8.85E-03	3.29E-02	8.85E-03	4.57E-01	1.10E-01	9.77E-01	2.26E-01	1.09E-02
1148	361750	3799100	3.73E-01	2.27E-02	3.37E-02	8.80E-03	3.37E-02	8.80E-03	4.64E-01	1.12E-01	9.94E-01	2.15E-01	1.11E-02
1149	361800	3799100	3.76E-01	2.26E-02	3.48E-02	8.77E-03	3.48E-02	8.77E-03	4.68E-01	1.16E-01	1.00E+00	2.06E-01	1.12E-02
1150	361850	3799100	3.76E-01	2.24E-02	3.57E-02	8.75E-03	3.57E-02	8.75E-03	4.68E-01	1.19E-01	1.00E+00	2.03E-01	1.12E-02
1151	361900	3799100	3.74E-01	2.24E-02	3.65E-02	8.73E-03	3.65E-02	8.73E-03	4.66E-01	1.22E-01	9.97E-01	2.05E-01	1.11E-02
1152	361950	3799100	3.69E-01	2.23E-02	3.72E-02	8.72E-03	3.72E-02	8.72E-03	4.60E-01	1.24E-01	9.85E-01	2.11E-01	1.10E-02
1153	362000	3799100	3.63E-01	2.23E-02	3.78E-02	8.71E-03	3.78E-02	8.71E-03	4.52E-01	1.26E-01	9.68E-01	2.15E-01	1.08E-02
1154	362050	3799100	3.55E-01	2.22E-02	3.81E-02	8.71E-03	3.81E-02	8.71E-03	4.42E-01	1.28E-01	9.48E-01	2.18E-01	1.06E-02
1155	362100	3799100	3.46E-01	2.22E-02	3.84E-02	8.72E-03	3.84E-02	8.72E-03	4.31E-01	1.28E-01	9.23E-01	2.21E-01	1.03E-02
1156	362150	3799100	3.36E-01	2.23E-02	3.86E-02	8.74E-03	3.86E-02	8.74E-03	4.18E-01	1.29E-01	8.96E-01	2.22E-01	1.00E-02
1157	362200	3799100	3.25E-01	2.23E-02	3.87E-02	8.77E-03	3.87E-02	8.77E-03	4.04E-01	1.30E-01	8.67E-01	2.23E-01	9.69E-03
1158	362250	3799100	3.14E-01	2.23E-02	3.87E-02	8.79E-03	3.87E-02	8.79E-03	3.90E-01	1.30E-01	8.36E-01	2.22E-01	9.34E-03
1159	362300	3799100	3.02E-01	2.23E-02	3.86E-02	8.80E-03	3.86E-02	8.80E-03	3.75E-01	1.29E-01	8.04E-01	2.23E-01	8.99E-03
1160	358900	3799150	4.38E-01	2.02E-02	4.60E-02	6.97E-03	4.60E-02	6.97E-03	5.48E-01	1.60E-01	1.17E+00	5.06E-01	1.31E-02
1161	358950	3799150	4.34E-01	2.11E-02	5.32E-02	7.27E-03	5.32E-02	7.27E-03	5.43E-01	1.86E-01	1.16E+00	5.84E-01	1.29E-02
1162	359000	3799150	5.16E-01	2.22E-02	6.05E-02	7.63E-03	6.05E-02	7.63E-03	6.46E-01	2.12E-01	1.37E+00	6.62E-01	1.54E-02
1163	359050	3799150	6.08E-01	2.35E-02	6.77E-02	8.04E-03	6.77E-02	8.04E-03	7.62E-01	2.38E-01	1.62E+00	7.35E-01	1.81E-02
1164	359100	3799150	7.03E-01	2.50E-02	7.42E-02	8.51E-03	7.42E-02	8.51E-03	8.81E-01	2.62E-01	1.88E+00	7.99E-01	2.10E-02
1165	359150	3799150	7.96E-01	2.67E-02	8.56E-02	9.06E-03	8.56E-02	9.06E-03	9.97E-01	2.99E-01	2.12E+00	8.48E-01	2.37E-02
1166	359200	3799150	8.79E-01	2.87E-02	1.03E-01	9.70E-03	1.03E-01	9.70E-03	1.10E+00	3.60E-01	2.34E+00	8.77E-01	2.62E-02
1167	359250	3799150	9.50E-01	3.10E-02	1.22E-01	1.04E-02	1.22E-01	1.04E-02	1.19E+00	4.28E-01	2.53E+00	8.83E-01	2.83E-02
1168	359300	3799150	9.89E-01	3.37E-02	1.43E-01	1.13E-02	1.43E-01	1.13E-02	1.24E+00	5.03E-01	2.64E+00	9.59E-01	2.95E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1169	359350	3799150	9.80E-01	3.65E-02	1.94E-01	1.22E-02	1.94E-01	1.22E-02	1.23E+00	6.81E-01	2.61E+00	1.35E+00	2.92E-02
1170	361700	3799150	3.83E-01	2.27E-02	3.40E-02	8.81E-03	3.40E-02	8.81E-03	4.78E-01	1.13E-01	1.02E+00	2.12E-01	1.14E-02
1171	361750	3799150	3.86E-01	2.26E-02	3.50E-02	8.77E-03	3.50E-02	8.77E-03	4.81E-01	1.17E-01	1.03E+00	2.10E-01	1.15E-02
1172	361800	3799150	3.86E-01	2.24E-02	3.60E-02	8.74E-03	3.60E-02	8.74E-03	4.81E-01	1.20E-01	1.03E+00	2.08E-01	1.15E-02
1173	361850	3799150	3.83E-01	2.23E-02	3.68E-02	8.72E-03	3.68E-02	8.72E-03	4.78E-01	1.24E-01	1.02E+00	2.05E-01	1.14E-02
1174	361900	3799150	3.78E-01	2.23E-02	3.77E-02	8.71E-03	3.77E-02	8.71E-03	4.71E-01	1.27E-01	1.01E+00	2.09E-01	1.13E-02
1175	361950	3799150	3.71E-01	2.22E-02	3.84E-02	8.70E-03	3.84E-02	8.70E-03	4.62E-01	1.29E-01	9.90E-01	2.14E-01	1.11E-02
1176	362000	3799150	3.62E-01	2.22E-02	3.90E-02	8.69E-03	3.90E-02	8.69E-03	4.51E-01	1.31E-01	9.66E-01	2.17E-01	1.08E-02
1177	362050	3799150	3.52E-01	2.22E-02	3.93E-02	8.71E-03	3.93E-02	8.71E-03	4.39E-01	1.33E-01	9.40E-01	2.20E-01	1.05E-02
1178	362100	3799150	3.41E-01	2.22E-02	3.95E-02	8.74E-03	3.95E-02	8.74E-03	4.25E-01	1.33E-01	9.10E-01	2.23E-01	1.02E-02
1179	362150	3799150	3.29E-01	2.23E-02	3.96E-02	8.77E-03	3.96E-02	8.77E-03	4.10E-01	1.34E-01	8.78E-01	2.24E-01	9.81E-03
1180	362200	3799150	3.17E-01	2.23E-02	3.95E-02	8.79E-03	3.95E-02	8.79E-03	3.94E-01	1.33E-01	8.45E-01	2.25E-01	9.44E-03
1181	362250	3799150	3.04E-01	2.23E-02	3.95E-02	8.80E-03	3.95E-02	8.80E-03	3.78E-01	1.33E-01	8.11E-01	2.24E-01	9.06E-03
1182	358800	3799200	3.90E-01	1.96E-02	2.79E-02	6.76E-03	2.79E-02	6.76E-03	4.87E-01	9.63E-02	1.04E+00	3.10E-01	1.16E-02
1183	358850	3799200	4.26E-01	2.04E-02	3.37E-02	7.02E-03	3.37E-02	7.02E-03	5.32E-01	1.16E-01	1.13E+00	3.77E-01	1.27E-02
1184	358900	3799200	4.52E-01	2.14E-02	4.22E-02	7.33E-03	4.22E-02	7.33E-03	5.65E-01	1.46E-01	1.20E+00	4.52E-01	1.35E-02
1185	358950	3799200	4.64E-01	2.26E-02	4.90E-02	7.70E-03	4.90E-02	7.70E-03	5.81E-01	1.70E-01	1.24E+00	5.34E-01	1.38E-02
1186	359000	3799200	4.61E-01	2.39E-02	5.56E-02	8.12E-03	5.56E-02	8.12E-03	5.77E-01	1.94E-01	1.23E+00	6.20E-01	1.37E-02
1187	359050	3799200	5.42E-01	2.55E-02	6.35E-02	8.63E-03	6.35E-02	8.63E-03	6.80E-01	2.22E-01	1.45E+00	7.07E-01	1.62E-02
1188	359100	3799200	6.43E-01	2.75E-02	7.13E-02	9.24E-03	7.13E-02	9.24E-03	8.06E-01	2.50E-01	1.72E+00	7.88E-01	1.92E-02
1189	359150	3799200	7.47E-01	2.98E-02	7.99E-02	9.98E-03	7.99E-02	9.98E-03	9.36E-01	2.81E-01	1.99E+00	8.58E-01	2.23E-02
1190	359200	3799200	8.46E-01	3.27E-02	9.05E-02	1.09E-02	9.05E-02	1.09E-02	1.06E+00	3.16E-01	2.26E+00	9.10E-01	2.52E-02
1191	359250	3799200	9.32E-01	3.63E-02	1.19E-01	1.20E-02	1.19E-01	1.20E-02	1.17E+00	4.12E-01	2.49E+00	9.38E-01	2.78E-02
1192	359300	3799200	9.96E-01	4.09E-02	1.47E-01	1.34E-02	1.47E-01	1.34E-02	1.25E+00	5.13E-01	2.65E+00	1.01E+00	2.97E-02
1193	359350	3799200	1.03E+00	5.06E-02	1.85E-01	1.63E-02	1.85E-01	1.63E-02	1.29E+00	6.43E-01	2.74E+00	1.28E+00	3.06E-02
1194	361650	3799200	3.94E-01	2.28E-02	3.51E-02	8.82E-03	3.51E-02	8.82E-03	4.91E-01	1.17E-01	1.05E+00	2.17E-01	1.17E-02
1195	361700	3799200	3.96E-01	2.26E-02	3.62E-02	8.78E-03	3.62E-02	8.78E-03	4.94E-01	1.21E-01	1.06E+00	2.15E-01	1.18E-02
1196	361750	3799200	3.96E-01	2.24E-02	3.72E-02	8.74E-03	3.72E-02	8.74E-03	4.94E-01	1.25E-01	1.06E+00	2.12E-01	1.18E-02
1197	361800	3799200	3.93E-01	2.23E-02	3.83E-02	8.72E-03	3.83E-02	8.72E-03	4.89E-01	1.29E-01	1.05E+00	2.09E-01	1.17E-02
1198	361850	3799200	3.87E-01	2.22E-02	3.91E-02	8.70E-03	3.91E-02	8.70E-03	4.82E-01	1.32E-01	1.03E+00	2.11E-01	1.15E-02
1199	361900	3799200	3.79E-01	2.22E-02	3.98E-02	8.69E-03	3.98E-02	8.69E-03	4.72E-01	1.34E-01	1.01E+00	2.17E-01	1.13E-02
1200	361950	3799200	3.69E-01	2.21E-02	4.03E-02	8.68E-03	4.03E-02	8.68E-03	4.60E-01	1.36E-01	9.84E-01	2.22E-01	1.10E-02
1201	362000	3799200	3.58E-01	2.22E-02	4.06E-02	8.71E-03	4.06E-02	8.71E-03	4.46E-01	1.37E-01	9.54E-01	2.25E-01	1.07E-02
1202	362050	3799200	3.46E-01	2.22E-02	4.07E-02	8.74E-03	4.07E-02	8.74E-03	4.31E-01	1.38E-01	9.22E-01	2.27E-01	1.03E-02
1203	362100	3799200	3.33E-01	2.22E-02	4.07E-02	8.76E-03	4.07E-02	8.76E-03	4.14E-01	1.38E-01	8.87E-01	2.28E-01	9.92E-03
1204	362150	3799200	3.21E-01	2.23E-02	4.06E-02	8.79E-03	4.06E-02	8.79E-03	3.99E-01	1.37E-01	8.56E-01	2.28E-01	9.56E-03
1205	362200	3799200	3.12E-01	2.23E-02	4.05E-02	8.80E-03	4.05E-02	8.80E-03	3.88E-01	1.36E-01	8.33E-01	2.27E-01	9.31E-03
1206	362250	3799200	3.03E-01	2.23E-02	4.05E-02	8.82E-03	4.05E-02	8.82E-03	3.77E-01	1.36E-01	8.08E-01	2.26E-01	9.03E-03
1207	358750	3799250	3.09E-01	1.99E-02	2.41E-02	6.83E-03	2.41E-02	6.83E-03	3.87E-01	8.25E-02	8.24E-01	2.41E-01	9.21E-03
1208	358800	3799250	3.58E-01	2.07E-02	2.66E-02	7.09E-03	2.66E-02	7.09E-03	4.48E-01	9.15E-02	9.55E-01	2.56E-01	1.07E-02
1209	358850	3799250	4.05E-01	2.17E-02	3.27E-02	7.40E-03	3.27E-02	7.40E-03	5.07E-01	1.13E-01	1.08E+00	3.19E-01	1.21E-02
1210	358900	3799250	4.46E-01	2.30E-02	4.48E-02	7.77E-03	4.48E-02	7.77E-03	5.59E-01	1.55E-01	1.19E+00	3.91E-01	1.33E-02
1211	358950	3799250	4.82E-01	2.48E-02	5.46E-02	8.31E-03	5.46E-02	8.31E-03	6.04E-01	1.89E-01	1.29E+00	4.74E-01	1.44E-02
1212	359000	3799250	4.93E-01	2.60E-02	4.94E-02	8.75E-03	4.94E-02	8.75E-03	6.17E-01	1.72E-01	1.31E+00	5.64E-01	1.47E-02
1213	359050	3799250	4.90E-01	2.81E-02	5.80E-02	9.40E-03	5.80E-02	9.40E-03	6.14E-01	2.02E-01	1.31E+00	6.60E-01	1.46E-02
1214	359100	3799250	5.71E-01	3.08E-02	6.72E-02	1.02E-02	6.72E-02	1.02E-02	7.15E-01	2.35E-01	1.52E+00	7.56E-01	1.70E-02
1215	359150	3799250	6.81E-01	3.41E-02	8.21E-02	1.12E-02	8.21E-02	1.12E-02	8.54E-01	2.88E-01	1.82E+00	8.46E-01	2.03E-02
1216	359200	3799250	7.94E-01	3.84E-02	9.56E-02	1.26E-02	9.56E-02	1.26E-02	9.95E-01	3.36E-01	2.12E+00	9.22E-01	2.37E-02
1217	359250	3799250	9.01E-01	4.73E-02	1.15E-01	1.52E-02	1.15E-01	1.52E-02	1.13E+00	4.04E-01	2.40E+00	1.11E+00	2.68E-02
1218	359300	3799250	9.91E-01	5.69E-02	1.29E-01	1.81E-02	1.29E-01	1.81E-02	1.24E+00	4.46E-01	2.64E+00	1.20E+00	2.95E-02
1219	359350	3799250	1.05E+00	7.78E-02	1.60E-01	2.43E-02	1.60E-01	2.43E-02	1.32E+00	5.53E-01	2.81E+00	1.25E+00	3.14E-02
1220	361450	3799250	4.40E-01	2.39E-02	3.16E-02	9.10E-03	3.16E-02	9.10E-03	5.50E-01	1.07E-01	1.17E+00	2.52E-01	1.31E-02
1221	361500	3799250	3.97E-01	2.35E-02	3.34E-02	9.00E-03	3.34E-02	9.00E-03	4.96E-01	1.11E-01	1.06E+00	2.26E-01	1.18E-02
1222	361550	3799250	3.97E-01	2.32E-02	3.49E-02	8.92E-03	3.49E-02	8.92E-03	4.96E-01	1.16E-01	1.06E+00	2.24E-01	1.18E-02
1223	361600	3799250	4.04E-01	2.29E-02	3.63E-02	8.85E-03	3.63E-02	8.85E-03	5.04E-01	1.21E-01	1.08E+00	2.22E-01	1.20E-02
1224	361650	3799250	4.06E-01	2.27E-02	3.75E-02	8.80E-03	3.75E-02	8.80E-03	5.07E-01	1.25E-01	1.08E+00	2.19E-01	1.21E-02
1225	361700	3799250	4.05E-01	2.25E-02	3.86E-02	8.76E-03	3.86E-02	8.76E-03	5.06E-01	1.30E-01	1.08E+00	2.16E-01	1.21E-02
1226	361750	3799250	4.01E-01	2.23E-02	3.98E-02	8.73E-03	3.98E-02	8.73E-03	5.00E-01	1.34E-01	1.07E+00	2.13E-01	1.20E-02
1227	361800	3799250	3.95E-01	2.22E-02	4.07E-02	8.71E-03	4.07E-02	8.71E-03	4.92E-01	1.37E-01	1.05E+00	2.17E-01	1.18E-02
1228	361850	3799250	3.86E-01	2.22E-02	4.13E-02	8.69E-03	4.13E-02	8.69E-03	4.81E-01	1.40E-01	1.03E+00	2.23E-01	1.15E-02
1229	361900	3799250	3.75E-01	2.21E-02	4.17E-02	8.68E-03	4.17E-02	8.68E-03	4.67E-01	1.41E-01	9.99E-01	2.27E-01	1.12E-02
1230	361950	3799250	3.63E-01	2.21E-02	4.20E-02	8.71E-03	4.20E-02	8.71E-03	4.52E-01	1.42E-01	9.67E-01	2.30E-01	1.08E-02
1231	362000	3799250	3.51E-01	2.22E-02	4.20E-02	8.74E-03	4.20E-02	8.74E-03	4.37E-01	1.42E-01	9.37E-01	2.32E-01	1.05E-02
1232	362050	3799250	3.43E-01	2.22E-02	4.19E-02	8.77E-03	4.19E-02	8.77E-03	4.27E-01	1.42E-01	9.15E-01	2.32E-01	1.02E-02
1233	362100	3799250	3.34E-01	2.22E-02	4.17E-02	8.79E-03	4.17E-02	8.79E-03	4.16E-01	1.41E-01	8.91E-01	2.33E-01	9.96E-03
1234	362150	3799250	3.24E-01	2.22E-02	4.17E-02	8.81E-03	4.17E-02	8.81E-03	4.03E-01	1.40E-01	8.65E-01	2.37E-01	9.66E-03
1235	362200	3799250	3.14E-01	2.23E-02	4.16E-02	8.82E-03	4.16E-02	8.82E-03	3.90E-01	1.40E-01	8.37E-01	2.40E-01	9.36E-03
1236	358750	3799300	2.94E-01	2.10E-02	2.58E-02	7.16E-03	2.58E-02	7.16E-03	3.66E-01	8.09E-02	7.83E-01	2.39E-01	8.75E-03
1237	358800	3799300	3.14E-01	2.20E-02	2.64E-02	7.48E-03	2.64E-02	7.48E-03	3.92E-01	8.94E-02	8.36E-01	2.53E-01	9.35E-03
1238	358850	3799300	3.68E-01	2.32E-02	2.94E-02	7.85E-03	2.94E-02	7.85E-03	4.60E-01	1.01E-01	9.81E-01	2.68E-01	1.10E-02
1239	358900	3799300	4.21E-01	2.47E-02	3.81E-02	8.30E-03	3.81E-02	8.30E-03	5.27E-01	1.31E-01	1.12E+00	3.26E-01	1.25E-02
1240	358950	3799300	4.70E-01	2.71E-02	4.97E-02	8.98E-03	4.97E-02	8.98E-03	5.89E-01	1.71E-01	1.25E+00	4.05E-01	1.40E-02
1241	359000	3799300	5.04E-01	2.86E-02	4.46E-02	9.51E-03	4.46E-02	9.51E-03	6.31E-01	1.54E-01	1.34E+00	4.96E-01	1.50E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1242	359050	3799300	5.24E-01	3.14E-02	5.14E-02	1.04E-02	5.14E-02	1.04E-02	6.56E-01	1.78E-01	1.40E+00	5.96E-01	1.56E-02
1243	359100	3799300	5.22E-01	3.49E-02	6.08E-02	1.14E-02	6.08E-02	1.14E-02	6.54E-01	2.12E-01	1.39E+00	7.03E-01	1.56E-02
1244	359150	3799300	6.01E-01	3.96E-02	7.64E-02	1.28E-02	7.64E-02	1.28E-02	7.53E-01	2.66E-01	1.60E+00	8.10E-01	1.79E-02
1245	359200	3799300	7.22E-01	4.87E-02	1.07E-01	1.55E-02	1.07E-01	1.55E-02	9.05E-01	3.75E-01	1.92E+00	1.04E+00	2.15E-02
1246	359250	3799300	8.44E-01	5.96E-02	1.27E-01	1.88E-02	1.27E-01	1.88E-02	1.06E+00	4.44E-01	2.25E+00	1.27E+00	2.52E-02
1247	359300	3799300	9.59E-01	6.70E-02	1.19E-01	2.11E-02	1.19E-01	2.11E-02	1.20E+00	4.20E-01	2.56E+00	1.12E+00	2.86E-02
1248	359350	3799300	1.05E+00	7.70E-02	1.46E-01	2.41E-02	1.46E-01	2.41E-02	1.32E+00	5.07E-01	2.81E+00	1.08E+00	3.14E-02
1249	361400	3799300	4.64E-01	2.41E-02	3.26E-02	9.18E-03	3.26E-02	9.18E-03	5.80E-01	1.11E-01	1.24E+00	2.65E-01	1.38E-02
1250	361450	3799300	4.17E-01	2.37E-02	3.44E-02	9.06E-03	3.44E-02	9.06E-03	5.21E-01	1.15E-01	1.11E+00	2.35E-01	1.24E-02
1251	361500	3799300	4.07E-01	2.33E-02	3.62E-02	8.97E-03	3.62E-02	8.97E-03	5.08E-01	1.21E-01	1.08E+00	2.30E-01	1.21E-02
1252	361550	3799300	4.13E-01	2.30E-02	3.77E-02	8.90E-03	3.77E-02	8.90E-03	5.16E-01	1.26E-01	1.10E+00	2.28E-01	1.23E-02
1253	361600	3799300	4.16E-01	2.28E-02	3.89E-02	8.84E-03	3.89E-02	8.84E-03	5.19E-01	1.31E-01	1.11E+00	2.25E-01	1.24E-02
1254	361650	3799300	4.14E-01	2.26E-02	4.02E-02	8.79E-03	4.02E-02	8.79E-03	5.17E-01	1.36E-01	1.10E+00	2.23E-01	1.23E-02
1255	361700	3799300	4.09E-01	2.24E-02	4.13E-02	8.75E-03	4.13E-02	8.75E-03	5.11E-01	1.40E-01	1.09E+00	2.24E-01	1.22E-02
1256	361750	3799300	4.02E-01	2.23E-02	4.23E-02	8.72E-03	4.23E-02	8.72E-03	5.01E-01	1.43E-01	1.07E+00	2.28E-01	1.20E-02
1257	361800	3799300	3.92E-01	2.22E-02	4.29E-02	8.70E-03	4.29E-02	8.70E-03	4.88E-01	1.46E-01	1.04E+00	2.31E-01	1.17E-02
1258	361850	3799300	3.82E-01	2.21E-02	4.33E-02	8.69E-03	4.33E-02	8.69E-03	4.76E-01	1.47E-01	1.02E+00	2.34E-01	1.14E-02
1259	361900	3799300	3.75E-01	2.21E-02	4.34E-02	8.72E-03	4.34E-02	8.72E-03	4.68E-01	1.47E-01	1.00E+00	2.38E-01	1.12E-02
1260	361950	3799300	3.67E-01	2.21E-02	4.34E-02	8.75E-03	4.34E-02	8.75E-03	4.57E-01	1.47E-01	9.79E-01	2.44E-01	1.09E-02
1261	362000	3799300	3.58E-01	2.22E-02	4.32E-02	8.77E-03	4.32E-02	8.77E-03	4.45E-01	1.47E-01	9.54E-01	2.50E-01	1.07E-02
1262	362050	3799300	3.47E-01	2.22E-02	4.30E-02	8.79E-03	4.30E-02	8.79E-03	4.32E-01	1.45E-01	9.26E-01	2.54E-01	1.04E-02
1263	362100	3799300	3.36E-01	2.22E-02	4.29E-02	8.81E-03	4.29E-02	8.81E-03	4.18E-01	1.45E-01	8.97E-01	2.57E-01	1.00E-02
1264	362150	3799300	3.25E-01	2.22E-02	4.27E-02	8.82E-03	4.27E-02	8.82E-03	4.04E-01	1.44E-01	8.66E-01	2.59E-01	9.68E-03
1265	362200	3799300	3.13E-01	2.22E-02	4.25E-02	8.83E-03	4.25E-02	8.83E-03	3.89E-01	1.43E-01	8.34E-01	2.60E-01	9.32E-03
1266	358700	3799350	3.31E-01	2.13E-02	2.83E-02	7.23E-03	2.83E-02	7.23E-03	4.14E-01	8.66E-02	8.84E-01	2.56E-01	9.87E-03
1267	358750	3799350	3.07E-01	2.23E-02	3.01E-02	7.55E-03	3.01E-02	7.55E-03	3.84E-01	9.24E-02	8.20E-01	2.49E-01	9.16E-03
1268	358800	3799350	3.13E-01	2.35E-02	2.83E-02	7.91E-03	2.83E-02	7.91E-03	3.89E-01	8.63E-02	8.34E-01	2.51E-01	9.31E-03
1269	358850	3799350	3.20E-01	2.49E-02	3.23E-02	8.36E-03	3.23E-02	8.36E-03	3.99E-01	9.96E-02	8.52E-01	2.67E-01	9.53E-03
1270	358900	3799350	3.77E-01	2.67E-02	3.54E-02	8.90E-03	3.54E-02	8.90E-03	4.72E-01	1.14E-01	1.00E+00	2.83E-01	1.12E-02
1271	358950	3799350	4.37E-01	2.91E-02	4.34E-02	9.57E-03	4.34E-02	9.57E-03	5.47E-01	1.44E-01	1.16E+00	3.34E-01	1.30E-02
1272	359000	3799350	4.91E-01	3.17E-02	4.27E-02	1.04E-02	4.27E-02	1.04E-02	6.15E-01	1.47E-01	1.31E+00	4.20E-01	1.46E-02
1273	359050	3799350	5.38E-01	3.52E-02	5.07E-02	1.15E-02	5.07E-02	1.15E-02	6.74E-01	1.75E-01	1.43E+00	5.19E-01	1.60E-02
1274	359100	3799350	5.63E-01	3.98E-02	5.54E-02	1.29E-02	5.54E-02	1.29E-02	7.05E-01	1.92E-01	1.50E+00	6.31E-01	1.68E-02
1275	359150	3799350	5.66E-01	4.57E-02	6.91E-02	1.47E-02	6.91E-02	1.47E-02	7.09E-01	2.40E-01	1.51E+00	7.50E-01	1.69E-02
1276	359200	3799350	6.96E-01	5.84E-02	1.12E-01	1.84E-02	1.12E-01	1.84E-02	8.72E-01	3.91E-01	1.86E+00	1.11E+00	2.07E-02
1277	359250	3799350	7.65E-01	6.36E-02	1.06E-01	2.00E-02	1.06E-01	2.00E-02	9.59E-01	3.71E-01	2.04E+00	1.01E+00	2.28E-02
1278	359300	3799350	8.99E-01	7.38E-02	1.09E-01	2.31E-02	1.09E-01	2.31E-02	1.13E+00	3.83E-01	2.40E+00	1.07E+00	2.68E-02
1279	359350	3799350	1.02E+00	8.29E-02	1.19E-01	2.59E-02	1.19E-01	2.59E-02	1.28E+00	4.12E-01	2.72E+00	1.14E+00	3.04E-02
1280	361400	3799350	4.37E-01	2.39E-02	3.57E-02	9.14E-03	3.57E-02	9.14E-03	5.47E-01	1.20E-01	1.17E+00	2.51E-01	1.30E-02
1281	361450	3799350	4.16E-01	2.36E-02	3.76E-02	9.04E-03	3.76E-02	9.04E-03	5.19E-01	1.27E-01	1.11E+00	2.43E-01	1.24E-02
1282	361500	3799350	4.22E-01	2.32E-02	3.92E-02	8.95E-03	3.92E-02	8.95E-03	5.28E-01	1.32E-01	1.13E+00	2.39E-01	1.26E-02
1283	361550	3799350	4.24E-01	2.30E-02	4.06E-02	8.88E-03	4.06E-02	8.88E-03	5.30E-01	1.37E-01	1.13E+00	2.39E-01	1.27E-02
1284	361600	3799350	4.22E-01	2.27E-02	4.19E-02	8.83E-03	4.19E-02	8.83E-03	5.27E-01	1.42E-01	1.13E+00	2.38E-01	1.26E-02
1285	361650	3799350	4.16E-01	2.25E-02	4.30E-02	8.78E-03	4.30E-02	8.78E-03	5.20E-01	1.46E-01	1.11E+00	2.42E-01	1.24E-02
1286	361700	3799350	4.11E-01	2.24E-02	4.39E-02	8.75E-03	4.39E-02	8.75E-03	5.12E-01	1.50E-01	1.09E+00	2.46E-01	1.22E-02
1287	361750	3799350	4.07E-01	2.22E-02	4.45E-02	8.72E-03	4.45E-02	8.72E-03	5.07E-01	1.52E-01	1.08E+00	2.48E-01	1.21E-02
1288	361800	3799350	4.01E-01	2.21E-02	4.49E-02	8.70E-03	4.49E-02	8.70E-03	5.00E-01	1.53E-01	1.07E+00	2.54E-01	1.19E-02
1289	361850	3799350	3.93E-01	2.21E-02	4.49E-02	8.73E-03	4.49E-02	8.73E-03	4.89E-01	1.53E-01	1.05E+00	2.61E-01	1.17E-02
1290	361900	3799350	3.83E-01	2.21E-02	4.48E-02	8.76E-03	4.48E-02	8.76E-03	4.77E-01	1.52E-01	1.02E+00	2.67E-01	1.14E-02
1291	361950	3799350	3.72E-01	2.22E-02	4.44E-02	8.78E-03	4.44E-02	8.78E-03	4.64E-01	1.51E-01	9.93E-01	2.72E-01	1.11E-02
1292	362000	3799350	3.61E-01	2.22E-02	4.43E-02	8.80E-03	4.43E-02	8.80E-03	4.49E-01	1.50E-01	9.61E-01	2.76E-01	1.07E-02
1293	362050	3799350	3.48E-01	2.22E-02	4.42E-02	8.81E-03	4.42E-02	8.81E-03	4.33E-01	1.50E-01	9.28E-01	2.79E-01	1.04E-02
1294	362100	3799350	3.35E-01	2.22E-02	4.39E-02	8.83E-03	4.39E-02	8.83E-03	4.17E-01	1.49E-01	8.94E-01	2.80E-01	9.99E-03
1295	362150	3799350	3.22E-01	2.22E-02	4.36E-02	8.84E-03	4.36E-02	8.84E-03	4.01E-01	1.48E-01	8.59E-01	2.81E-01	9.60E-03
1296	358650	3799400	4.01E-01	2.20E-02	2.64E-02	7.42E-03	2.64E-02	7.42E-03	5.01E-01	8.44E-02	1.07E+00	2.83E-01	1.19E-02
1297	358700	3799400	3.85E-01	2.30E-02	2.84E-02	7.70E-03	2.84E-02	7.70E-03	4.82E-01	8.61E-02	1.03E+00	2.85E-01	1.15E-02
1298	358750	3799400	3.60E-01	2.39E-02	2.95E-02	7.98E-03	2.95E-02	7.98E-03	4.51E-01	8.97E-02	9.61E-01	2.75E-01	1.07E-02
1299	358800	3799400	3.43E-01	2.54E-02	3.29E-02	8.46E-03	3.29E-02	8.46E-03	4.29E-01	1.01E-01	9.15E-01	2.85E-01	1.02E-02
1300	358850	3799400	3.92E-01	2.80E-02	3.92E-02	9.22E-03	3.92E-02	9.22E-03	4.91E-01	1.22E-01	1.05E+00	3.17E-01	1.17E-02
1301	358900	3799400	4.42E-01	3.04E-02	4.36E-02	9.96E-03	4.36E-02	9.96E-03	5.54E-01	1.36E-01	1.18E+00	3.20E-01	1.32E-02
1302	358950	3799400	4.57E-01	3.29E-02	4.60E-02	1.07E-02	4.60E-02	1.07E-02	5.72E-01	1.45E-01	1.22E+00	3.23E-01	1.36E-02
1303	359000	3799400	4.87E-01	3.67E-02	5.03E-02	1.18E-02	5.03E-02	1.18E-02	6.10E-01	1.60E-01	1.30E+00	3.68E-01	1.45E-02
1304	359050	3799400	5.55E-01	4.17E-02	5.74E-02	1.34E-02	5.74E-02	1.34E-02	6.95E-01	1.97E-01	1.48E+00	4.47E-01	1.65E-02
1305	359100	3799400	5.96E-01	4.71E-02	6.74E-02	1.50E-02	6.74E-02	1.50E-02	7.46E-01	2.32E-01	1.59E+00	5.59E-01	1.77E-02
1306	359150	3799400	6.69E-01	5.49E-02	8.50E-02	1.73E-02	8.50E-02	1.73E-02	8.38E-01	2.93E-01	1.78E+00	7.72E-01	1.99E-02
1307	359200	3799400	7.07E-01	6.59E-02	1.07E-01	2.06E-02	1.07E-01	2.06E-02	8.87E-01	3.70E-01	1.89E+00	1.04E+00	2.11E-02
1308	359250	3799400	7.18E-01	7.23E-02	1.09E-01	2.25E-02	1.09E-01	2.25E-02	9.01E-01	3.80E-01	1.92E+00	1.05E+00	2.14E-02
1309	359300	3799400	8.11E-01	7.69E-02	1.10E-01	2.40E-02	1.10E-01	2.40E-02	1.02E+00	3.83E-01	2.16E+00	1.06E+00	2.42E-02
1310	359350	3799400	9.56E-01	8.15E-02	1.26E-01	2.54E-02	1.26E-01	2.54E-02	1.20E+00	4.43E-01	2.55E+00	1.16E+00	2.85E-02
1311	361400	3799400	4.23E-01	2.38E-02	3.92E-02	9.11E-03	3.92E-02	9.11E-03	5.29E-01	1.33E-01	1.13E+00	2.59E-01	1.26E-02
1312	361450	3799400	4.30E-01	2.34E-02	4.10E-02	9.02E-03	4.10E-02	9.02E-03	5.38E-01	1.39E-01	1.15E+00	2.56E-01	1.28E-02
1313	361500	3799400	4.32E-01	2.31E-02	4.24E-02	8.94E-03	4.24E-02	8.94E-03	5.40E-01	1.44E-01	1.15E+00	2.56E-01	1.29E-02
1314	361550	3799400	4.32E-01	2.29E-02	4.38E-02	8.88E-03	4.38E-02	8.88E-03	5.39E-01	1.50E-01	1.15E+00	2.58E-01	1.29E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1315	361600	3799400	4.34E-01	2.27E-02	4.50E-02	8.83E-03	4.50E-02	8.83E-03	5.41E-01	1.54E-01	1.16E+00	2.63E-01	1.29E-02
1316	361650	3799400	4.32E-01	2.25E-02	4.58E-02	8.78E-03	4.58E-02	8.78E-03	5.39E-01	1.56E-01	1.15E+00	2.66E-01	1.29E-02
1317	361700	3799400	4.27E-01	2.23E-02	4.63E-02	8.75E-03	4.63E-02	8.75E-03	5.33E-01	1.58E-01	1.14E+00	2.71E-01	1.27E-02
1318	361750	3799400	4.20E-01	2.22E-02	4.65E-02	8.72E-03	4.65E-02	8.72E-03	5.23E-01	1.59E-01	1.12E+00	2.80E-01	1.25E-02
1319	361800	3799400	4.10E-01	2.21E-02	4.65E-02	8.75E-03	4.65E-02	8.75E-03	5.11E-01	1.59E-01	1.09E+00	2.87E-01	1.22E-02
1320	361850	3799400	3.99E-01	2.21E-02	4.62E-02	8.77E-03	4.62E-02	8.77E-03	4.97E-01	1.58E-01	1.06E+00	2.93E-01	1.19E-02
1321	361900	3799400	3.87E-01	2.22E-02	4.59E-02	8.79E-03	4.59E-02	8.79E-03	4.82E-01	1.56E-01	1.03E+00	2.98E-01	1.15E-02
1322	361950	3799400	3.73E-01	2.22E-02	4.58E-02	8.81E-03	4.58E-02	8.81E-03	4.65E-01	1.55E-01	9.96E-01	3.01E-01	1.11E-02
1323	362000	3799400	3.59E-01	2.22E-02	4.55E-02	8.82E-03	4.55E-02	8.82E-03	4.48E-01	1.54E-01	9.59E-01	3.03E-01	1.07E-02
1324	362050	3799400	3.45E-01	2.22E-02	4.52E-02	8.83E-03	4.52E-02	8.83E-03	4.30E-01	1.53E-01	9.20E-01	3.04E-01	1.03E-02
1325	362100	3799400	3.31E-01	2.22E-02	4.48E-02	8.84E-03	4.48E-02	8.84E-03	4.12E-01	1.52E-01	8.82E-01	3.04E-01	9.85E-03
1326	358650	3799450	4.50E-01	2.40E-02	2.65E-02	8.01E-03	2.65E-02	8.01E-03	5.63E-01	9.00E-02	1.20E+00	3.07E-01	1.34E-02
1327	358700	3799450	4.40E-01	2.50E-02	2.81E-02	8.31E-03	2.81E-02	8.31E-03	5.50E-01	9.24E-02	1.17E+00	3.12E-01	1.31E-02
1328	358750	3799450	4.26E-01	2.62E-02	3.01E-02	8.69E-03	3.01E-02	8.69E-03	5.33E-01	9.50E-02	1.14E+00	3.18E-01	1.27E-02
1329	358800	3799450	4.12E-01	2.81E-02	3.32E-02	9.25E-03	3.32E-02	9.25E-03	5.15E-01	1.01E-01	1.10E+00	3.32E-01	1.23E-02
1330	358850	3799450	4.33E-01	3.12E-02	4.19E-02	1.02E-02	4.19E-02	1.02E-02	5.42E-01	1.31E-01	1.15E+00	4.00E-01	1.29E-02
1331	358900	3799450	5.18E-01	3.43E-02	4.79E-02	1.12E-02	4.79E-02	1.12E-02	6.49E-01	1.51E-01	1.38E+00	4.23E-01	1.54E-02
1332	358950	3799450	5.71E-01	3.76E-02	5.15E-02	1.21E-02	5.15E-02	1.21E-02	7.15E-01	1.64E-01	1.52E+00	4.15E-01	1.70E-02
1333	359000	3799450	6.59E-01	4.28E-02	5.99E-02	1.37E-02	5.99E-02	1.37E-02	8.26E-01	1.93E-01	1.76E+00	5.02E-01	1.96E-02
1334	359050	3799450	6.89E-01	4.82E-02	6.41E-02	1.53E-02	6.41E-02	1.53E-02	8.63E-01	2.09E-01	1.84E+00	5.51E-01	2.05E-02
1335	359100	3799450	6.91E-01	5.48E-02	6.80E-02	1.73E-02	6.80E-02	1.73E-02	8.67E-01	2.32E-01	1.84E+00	5.96E-01	2.06E-02
1336	359150	3799450	7.26E-01	6.53E-02	8.64E-02	2.04E-02	8.64E-02	2.04E-02	9.11E-01	2.96E-01	1.94E+00	8.01E-01	2.16E-02
1337	359200	3799450	7.75E-01	7.31E-02	1.02E-01	2.28E-02	1.02E-01	2.28E-02	9.72E-01	3.52E-01	2.07E+00	9.85E-01	2.31E-02
1338	359250	3799450	7.78E-01	8.42E-02	1.23E-01	2.61E-02	1.23E-01	2.61E-02	9.76E-01	4.26E-01	2.07E+00	1.24E+00	2.32E-02
1339	359300	3799450	7.92E-01	8.49E-02	1.31E-01	2.63E-02	1.31E-01	2.63E-02	9.94E-01	4.55E-01	2.11E+00	1.31E+00	2.36E-02
1340	359350	3799450	8.59E-01	7.62E-02	1.16E-01	2.38E-02	1.16E-01	2.38E-02	1.08E+00	4.06E-01	2.29E+00	1.15E+00	2.56E-02
1341	361350	3799450	4.30E-01	2.41E-02	4.13E-02	9.20E-03	4.13E-02	9.20E-03	5.37E-01	1.41E-01	1.15E+00	2.78E-01	1.28E-02
1342	361400	3799450	4.39E-01	2.37E-02	4.31E-02	9.10E-03	4.31E-02	9.10E-03	5.49E-01	1.47E-01	1.17E+00	2.75E-01	1.31E-02
1343	361450	3799450	4.50E-01	2.33E-02	4.46E-02	9.01E-03	4.46E-02	9.01E-03	5.62E-01	1.53E-01	1.20E+00	2.75E-01	1.34E-02
1344	361500	3799450	4.56E-01	2.31E-02	4.61E-02	8.94E-03	4.61E-02	8.94E-03	5.69E-01	1.58E-01	1.21E+00	2.80E-01	1.36E-02
1345	361550	3799450	4.57E-01	2.28E-02	4.72E-02	8.88E-03	4.72E-02	8.88E-03	5.70E-01	1.62E-01	1.22E+00	2.85E-01	1.36E-02
1346	361600	3799450	4.54E-01	2.26E-02	4.78E-02	8.83E-03	4.78E-02	8.83E-03	5.66E-01	1.64E-01	1.21E+00	2.90E-01	1.35E-02
1347	361650	3799450	4.48E-01	2.25E-02	4.82E-02	8.79E-03	4.82E-02	8.79E-03	5.58E-01	1.65E-01	1.19E+00	3.01E-01	1.33E-02
1348	361700	3799450	4.39E-01	2.23E-02	4.83E-02	8.76E-03	4.83E-02	8.76E-03	5.47E-01	1.65E-01	1.17E+00	3.10E-01	1.31E-02
1349	361750	3799450	4.28E-01	2.22E-02	4.81E-02	8.77E-03	4.81E-02	8.77E-03	5.33E-01	1.65E-01	1.14E+00	3.17E-01	1.27E-02
1350	361800	3799450	4.15E-01	2.21E-02	4.78E-02	8.79E-03	4.78E-02	8.79E-03	5.17E-01	1.63E-01	1.11E+00	3.23E-01	1.24E-02
1351	361850	3799450	4.01E-01	2.22E-02	4.76E-02	8.81E-03	4.76E-02	8.81E-03	4.99E-01	1.62E-01	1.07E+00	3.27E-01	1.19E-02
1352	361900	3799450	3.86E-01	2.22E-02	4.73E-02	8.82E-03	4.73E-02	8.82E-03	4.81E-01	1.61E-01	1.03E+00	3.29E-01	1.15E-02
1353	361950	3799450	3.70E-01	2.22E-02	4.69E-02	8.83E-03	4.69E-02	8.83E-03	4.61E-01	1.60E-01	9.87E-01	3.30E-01	1.10E-02
1354	362000	3799450	3.54E-01	2.22E-02	4.65E-02	8.84E-03	4.65E-02	8.84E-03	4.41E-01	1.58E-01	9.45E-01	3.30E-01	1.06E-02
1355	362050	3799450	3.38E-01	2.22E-02	4.60E-02	8.85E-03	4.60E-02	8.85E-03	4.21E-01	1.56E-01	9.02E-01	3.29E-01	1.01E-02
1356	358650	3799500	4.86E-01	2.61E-02	2.74E-02	8.65E-03	2.74E-02	8.65E-03	6.08E-01	9.53E-02	1.30E+00	3.33E-01	1.45E-02
1357	358700	3799500	4.90E-01	2.72E-02	2.88E-02	9.00E-03	2.88E-02	9.00E-03	6.13E-01	1.00E-01	1.31E+00	3.48E-01	1.46E-02
1358	358750	3799500	4.88E-01	2.89E-02	3.06E-02	9.49E-03	3.06E-02	9.49E-03	6.11E-01	1.07E-01	1.30E+00	3.67E-01	1.46E-02
1359	358800	3799500	4.82E-01	3.12E-02	3.49E-02	1.02E-02	3.49E-02	1.02E-02	6.03E-01	1.18E-01	1.28E+00	4.04E-01	1.44E-02
1360	358850	3799500	5.35E-01	3.47E-02	4.19E-02	1.13E-02	4.19E-02	1.13E-02	6.70E-01	1.33E-01	1.43E+00	4.55E-01	1.59E-02
1361	358900	3799500	5.92E-01	3.86E-02	4.83E-02	1.24E-02	4.83E-02	1.24E-02	7.41E-01	1.53E-01	1.58E+00	4.86E-01	1.76E-02
1362	358950	3799500	6.17E-01	4.32E-02	5.47E-02	1.38E-02	5.47E-02	1.38E-02	7.72E-01	1.75E-01	1.64E+00	5.02E-01	1.84E-02
1363	359000	3799500	6.70E-01	4.95E-02	6.27E-02	1.57E-02	6.27E-02	1.57E-02	8.39E-01	2.03E-01	1.79E+00	5.49E-01	2.00E-02
1364	359050	3799500	7.16E-01	5.55E-02	6.86E-02	1.75E-02	6.86E-02	1.75E-02	8.98E-01	2.24E-01	1.91E+00	6.14E-01	2.13E-02
1365	359100	3799500	7.66E-01	6.27E-02	7.47E-02	1.97E-02	7.47E-02	1.97E-02	9.60E-01	2.45E-01	2.04E+00	6.78E-01	2.28E-02
1366	359150	3799500	7.96E-01	7.29E-02	8.33E-02	2.27E-02	8.33E-02	2.27E-02	9.97E-01	2.74E-01	2.12E+00	7.53E-01	2.37E-02
1367	359200	3799500	8.28E-01	8.16E-02	9.25E-02	2.53E-02	9.25E-02	2.53E-02	1.04E+00	3.16E-01	2.21E+00	8.65E-01	2.47E-02
1368	359250	3799500	8.13E-01	8.41E-02	1.12E-01	2.61E-02	1.12E-01	2.61E-02	1.02E+00	3.83E-01	2.17E+00	1.09E+00	2.42E-02
1369	359300	3799500	7.76E-01	7.67E-02	1.12E-01	2.39E-02	1.12E-01	2.39E-02	9.73E-01	3.86E-01	2.07E+00	1.06E+00	2.31E-02
1370	359350	3799500	7.34E-01	6.98E-02	9.83E-02	2.20E-02	9.83E-02	2.20E-02	9.21E-01	3.42E-01	1.96E+00	1.09E+00	2.19E-02
1371	361300	3799500	4.45E-01	2.44E-02	4.38E-02	9.31E-03	4.38E-02	9.31E-03	5.57E-01	1.50E-01	1.19E+00	2.98E-01	1.33E-02
1372	361350	3799500	4.63E-01	2.40E-02	4.57E-02	9.19E-03	4.57E-02	9.19E-03	5.78E-01	1.57E-01	1.23E+00	2.97E-01	1.38E-02
1373	361400	3799500	4.74E-01	2.36E-02	4.73E-02	9.10E-03	4.73E-02	9.10E-03	5.92E-01	1.63E-01	1.26E+00	2.98E-01	1.41E-02
1374	361450	3799500	4.79E-01	2.33E-02	4.87E-02	9.02E-03	4.87E-02	9.02E-03	5.99E-01	1.67E-01	1.28E+00	3.05E-01	1.43E-02
1375	361500	3799500	4.80E-01	2.30E-02	4.96E-02	8.95E-03	4.96E-02	8.95E-03	5.99E-01	1.71E-01	1.28E+00	3.10E-01	1.43E-02
1376	361550	3799500	4.76E-01	2.28E-02	5.02E-02	8.89E-03	5.02E-02	8.89E-03	5.94E-01	1.73E-01	1.27E+00	3.24E-01	1.42E-02
1377	361600	3799500	4.68E-01	2.26E-02	5.04E-02	8.85E-03	5.04E-02	8.85E-03	5.84E-01	1.73E-01	1.25E+00	3.35E-01	1.40E-02
1378	361650	3799500	4.57E-01	2.25E-02	5.02E-02	8.81E-03	5.02E-02	8.81E-03	5.71E-01	1.72E-01	1.22E+00	3.44E-01	1.36E-02
1379	361700	3799500	4.44E-01	2.23E-02	5.01E-02	8.81E-03	5.01E-02	8.81E-03	5.54E-01	1.71E-01	1.19E+00	3.51E-01	1.32E-02
1380	361750	3799500	4.30E-01	2.22E-02	4.98E-02	8.82E-03	4.98E-02	8.82E-03	5.36E-01	1.70E-01	1.15E+00	3.56E-01	1.28E-02
1381	361800	3799500	4.14E-01	2.22E-02	4.94E-02	8.84E-03	4.94E-02	8.84E-03	5.16E-01	1.69E-01	1.10E+00	3.59E-01	1.23E-02
1382	361850	3799500	3.97E-01	2.22E-02	4.90E-02	8.84E-03	4.90E-02	8.84E-03	4.95E-01	1.67E-01	1.06E+00	3.60E-01	1.18E-02
1383	361900	3799500	3.80E-01	2.22E-02	4.84E-02	8.85E-03	4.84E-02	8.85E-03	4.73E-01	1.65E-01	1.01E+00	3.60E-01	1.13E-02
1384	361950	3799500	3.62E-01	2.22E-02	4.78E-02	8.85E-03	4.78E-02	8.85E-03	4.51E-01	1.63E-01	9.66E-01	3.58E-01	1.08E-02
1385	362000	3799500	3.45E-01	2.22E-02	4.72E-02	8.85E-03	4.72E-02	8.85E-03	4.29E-01	1.61E-01	9.19E-01	3.55E-01	1.03E-02
1386	362050	3799500	3.28E-01	2.21E-02	4.65E-02	8.85E-03	4.65E-02	8.85E-03	4.08E-01	1.58E-01	8.73E-01	3.52E-01	9.76E-03
1387	358650	3799550	4.71E-01	2.86E-02	2.87E-02	9.43E-03	2.87E-02	9.43E-03	5.90E-01	9.36E-02	1.26E+00	3.15E-01	1.41E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1388	358700	3799550	4.97E-01	2.98E-02	2.88E-02	9.80E-03	2.88E-02	9.80E-03	6.22E-01	9.80E-02	1.32E+00	3.45E-01	1.48E-02
1389	358750	3799550	5.03E-01	3.20E-02	3.13E-02	1.04E-02	3.13E-02	1.04E-02	6.29E-01	1.08E-01	1.34E+00	3.81E-01	1.50E-02
1390	358800	3799550	5.46E-01	3.51E-02	3.48E-02	1.14E-02	3.48E-02	1.14E-02	6.84E-01	1.21E-01	1.46E+00	4.23E-01	1.63E-02
1391	358850	3799550	6.32E-01	3.90E-02	3.96E-02	1.26E-02	3.96E-02	1.26E-02	7.91E-01	1.32E-01	1.68E+00	4.60E-01	1.88E-02
1392	358900	3799550	7.07E-01	4.40E-02	4.58E-02	1.41E-02	4.58E-02	1.41E-02	8.85E-01	1.44E-01	1.89E+00	4.86E-01	2.11E-02
1393	358950	3799550	7.54E-01	4.90E-02	5.19E-02	1.56E-02	5.19E-02	1.56E-02	9.44E-01	1.65E-01	2.01E+00	5.09E-01	2.25E-02
1394	359000	3799550	7.79E-01	5.54E-02	5.91E-02	1.75E-02	5.91E-02	1.75E-02	9.76E-01	1.90E-01	2.08E+00	5.16E-01	2.32E-02
1395	359050	3799550	7.63E-01	6.20E-02	6.69E-02	1.95E-02	6.69E-02	1.95E-02	9.56E-01	2.16E-01	2.03E+00	5.85E-01	2.27E-02
1396	359100	3799550	8.02E-01	6.90E-02	7.50E-02	2.16E-02	7.50E-02	2.16E-02	1.00E+00	2.43E-01	2.14E+00	6.65E-01	2.39E-02
1397	359150	3799550	8.36E-01	7.84E-02	8.37E-02	2.44E-02	8.37E-02	2.44E-02	1.05E+00	2.72E-01	2.23E+00	7.37E-01	2.49E-02
1398	361300	3799550	4.86E-01	2.43E-02	4.88E-02	9.32E-03	4.88E-02	9.32E-03	6.08E-01	1.68E-01	1.30E+00	3.21E-01	1.45E-02
1399	361350	3799550	4.98E-01	2.39E-02	5.04E-02	9.21E-03	5.04E-02	9.21E-03	6.23E-01	1.74E-01	1.33E+00	3.27E-01	1.48E-02
1400	361400	3799550	5.03E-01	2.36E-02	5.17E-02	9.11E-03	5.17E-02	9.11E-03	6.29E-01	1.78E-01	1.34E+00	3.34E-01	1.50E-02
1401	361450	3799550	5.03E-01	2.33E-02	5.25E-02	9.03E-03	5.25E-02	9.03E-03	6.28E-01	1.81E-01	1.34E+00	3.49E-01	1.50E-02
1402	361500	3799550	4.97E-01	2.30E-02	5.28E-02	8.97E-03	5.28E-02	8.97E-03	6.21E-01	1.82E-01	1.33E+00	3.63E-01	1.48E-02
1403	361550	3799550	4.88E-01	2.28E-02	5.27E-02	8.91E-03	5.27E-02	8.91E-03	6.09E-01	1.82E-01	1.30E+00	3.74E-01	1.45E-02
1404	361600	3799550	4.75E-01	2.26E-02	5.27E-02	8.86E-03	5.27E-02	8.86E-03	5.93E-01	1.81E-01	1.27E+00	3.83E-01	1.42E-02
1405	361650	3799550	4.60E-01	2.25E-02	5.24E-02	8.86E-03	5.24E-02	8.86E-03	5.74E-01	1.80E-01	1.23E+00	3.89E-01	1.37E-02
1406	361700	3799550	4.44E-01	2.23E-02	5.20E-02	8.87E-03	5.20E-02	8.87E-03	5.53E-01	1.78E-01	1.18E+00	3.93E-01	1.32E-02
1407	361750	3799550	4.26E-01	2.22E-02	5.14E-02	8.87E-03	5.14E-02	8.87E-03	5.31E-01	1.76E-01	1.13E+00	3.95E-01	1.27E-02
1408	361800	3799550	4.07E-01	2.22E-02	5.07E-02	8.87E-03	5.07E-02	8.87E-03	5.07E-01	1.74E-01	1.08E+00	3.94E-01	1.21E-02
1409	361850	3799550	3.88E-01	2.22E-02	5.00E-02	8.87E-03	5.00E-02	8.87E-03	4.83E-01	1.71E-01	1.03E+00	3.92E-01	1.16E-02
1410	361900	3799550	3.69E-01	2.22E-02	4.92E-02	8.87E-03	4.92E-02	8.87E-03	4.59E-01	1.68E-01	9.83E-01	3.89E-01	1.10E-02
1411	361950	3799550	3.50E-01	2.22E-02	4.84E-02	8.87E-03	4.84E-02	8.87E-03	4.36E-01	1.65E-01	9.32E-01	3.85E-01	1.04E-02
1412	362000	3799550	3.31E-01	2.21E-02	4.75E-02	8.86E-03	4.75E-02	8.86E-03	4.12E-01	1.62E-01	8.83E-01	3.79E-01	9.86E-03
1413	358600	3799600	4.12E-01	3.02E-02	3.54E-02	9.96E-03	3.54E-02	9.96E-03	5.15E-01	1.17E-01	1.10E+00	2.49E-01	1.23E-02
1414	358650	3799600	4.19E-01	3.16E-02	3.55E-02	1.04E-02	3.55E-02	1.04E-02	5.25E-01	1.17E-01	1.12E+00	2.57E-01	1.25E-02
1415	358700	3799600	4.33E-01	3.32E-02	3.52E-02	1.09E-02	3.52E-02	1.09E-02	5.42E-01	1.15E-01	1.15E+00	2.95E-01	1.29E-02
1416	358750	3799600	5.12E-01	3.60E-02	3.65E-02	1.17E-02	3.65E-02	1.17E-02	6.40E-01	1.18E-01	1.36E+00	3.29E-01	1.52E-02
1417	358800	3799600	6.03E-01	3.97E-02	3.86E-02	1.28E-02	3.86E-02	1.28E-02	7.54E-01	1.24E-01	1.61E+00	3.58E-01	1.80E-02
1418	358850	3799600	6.75E-01	4.33E-02	3.95E-02	1.39E-02	3.95E-02	1.39E-02	8.44E-01	1.25E-01	1.80E+00	3.96E-01	2.01E-02
1419	358900	3799600	7.34E-01	4.76E-02	4.07E-02	1.52E-02	4.07E-02	1.52E-02	9.19E-01	1.27E-01	1.96E+00	4.32E-01	2.19E-02
1420	358950	3799600	7.83E-01	5.35E-02	4.55E-02	1.70E-02	4.55E-02	1.70E-02	9.81E-01	1.40E-01	2.09E+00	4.50E-01	2.33E-02
1421	359000	3799600	8.09E-01	5.99E-02	5.18E-02	1.89E-02	5.18E-02	1.89E-02	1.01E+00	1.63E-01	2.16E+00	4.65E-01	2.41E-02
1422	359050	3799600	8.18E-01	6.70E-02	6.04E-02	2.10E-02	6.04E-02	2.10E-02	1.02E+00	1.88E-01	2.18E+00	4.73E-01	2.44E-02
1423	359100	3799600	8.63E-01	7.47E-02	7.37E-02	2.34E-02	7.37E-02	2.34E-02	1.08E+00	2.14E-01	2.30E+00	5.40E-01	2.57E-02
1424	361300	3799600	5.22E-01	2.43E-02	5.42E-02	9.35E-03	5.42E-02	9.35E-03	6.52E-01	1.88E-01	1.39E+00	3.61E-01	1.55E-02
1425	361350	3799600	5.26E-01	2.39E-02	5.52E-02	9.23E-03	5.52E-02	9.23E-03	6.58E-01	1.91E-01	1.40E+00	3.75E-01	1.57E-02
1426	361400	3799600	5.25E-01	2.36E-02	5.57E-02	9.14E-03	5.57E-02	9.14E-03	6.56E-01	1.93E-01	1.40E+00	3.93E-01	1.56E-02
1427	361450	3799600	5.18E-01	2.33E-02	5.58E-02	9.06E-03	5.58E-02	9.06E-03	6.47E-01	1.93E-01	1.38E+00	4.08E-01	1.54E-02
1428	361500	3799600	5.06E-01	2.30E-02	5.57E-02	8.99E-03	5.57E-02	8.99E-03	6.33E-01	1.92E-01	1.35E+00	4.19E-01	1.51E-02
1429	361550	3799600	4.92E-01	2.28E-02	5.54E-02	8.94E-03	5.54E-02	8.94E-03	6.14E-01	1.91E-01	1.31E+00	4.27E-01	1.47E-02
1430	361600	3799600	4.75E-01	2.26E-02	5.49E-02	8.94E-03	5.49E-02	8.94E-03	5.92E-01	1.89E-01	1.27E+00	4.32E-01	1.41E-02
1431	361650	3799600	4.56E-01	2.25E-02	5.43E-02	8.93E-03	5.43E-02	8.93E-03	5.69E-01	1.87E-01	1.21E+00	4.35E-01	1.36E-02
1432	361700	3799600	4.35E-01	2.23E-02	5.35E-02	8.92E-03	5.35E-02	8.92E-03	5.43E-01	1.84E-01	1.16E+00	4.35E-01	1.30E-02
1433	361750	3799600	4.15E-01	2.23E-02	5.26E-02	8.91E-03	5.26E-02	8.91E-03	5.17E-01	1.81E-01	1.11E+00	4.32E-01	1.24E-02
1434	361800	3799600	3.94E-01	2.22E-02	5.16E-02	8.90E-03	5.16E-02	8.90E-03	4.91E-01	1.77E-01	1.05E+00	4.28E-01	1.17E-02
1435	361850	3799600	3.73E-01	2.22E-02	5.06E-02	8.89E-03	5.06E-02	8.89E-03	4.65E-01	1.73E-01	9.94E-01	4.23E-01	1.11E-02
1436	361900	3799600	3.52E-01	2.22E-02	4.96E-02	8.88E-03	4.96E-02	8.88E-03	4.39E-01	1.70E-01	9.40E-01	4.16E-01	1.05E-02
1437	361950	3799600	3.33E-01	2.21E-02	4.85E-02	8.87E-03	4.85E-02	8.87E-03	4.14E-01	1.66E-01	8.87E-01	4.08E-01	9.91E-03
1438	358600	3799650	4.73E-01	3.32E-02	4.07E-02	1.09E-02	4.07E-02	1.09E-02	5.91E-01	1.34E-01	1.26E+00	3.03E-01	1.41E-02
1439	358650	3799650	4.85E-01	3.49E-02	4.22E-02	1.14E-02	4.22E-02	1.14E-02	6.06E-01	1.39E-01	1.29E+00	3.06E-01	1.45E-02
1440	358700	3799650	4.85E-01	3.66E-02	4.31E-02	1.20E-02	4.31E-02	1.20E-02	6.07E-01	1.41E-01	1.29E+00	3.04E-01	1.45E-02
1441	358750	3799650	4.77E-01	3.85E-02	4.30E-02	1.25E-02	4.30E-02	1.25E-02	5.96E-01	1.39E-01	1.27E+00	2.93E-01	1.42E-02
1442	358800	3799650	5.09E-01	4.19E-02	4.56E-02	1.35E-02	4.56E-02	1.35E-02	6.37E-01	1.47E-01	1.36E+00	3.05E-01	1.52E-02
1443	358850	3799650	5.89E-01	4.47E-02	4.57E-02	1.43E-02	4.57E-02	1.43E-02	7.37E-01	1.45E-01	1.57E+00	3.34E-01	1.76E-02
1444	358900	3799650	6.80E-01	4.89E-02	4.79E-02	1.56E-02	4.79E-02	1.56E-02	8.51E-01	1.50E-01	1.81E+00	3.71E-01	2.03E-02
1445	358950	3799650	7.67E-01	5.53E-02	5.23E-02	1.76E-02	5.23E-02	1.76E-02	9.60E-01	1.62E-01	2.04E+00	3.78E-01	2.29E-02
1446	359000	3799650	8.26E-01	5.96E-02	5.22E-02	1.88E-02	5.22E-02	1.88E-02	1.04E+00	1.58E-01	2.20E+00	4.31E-01	2.46E-02
1447	359050	3799650	8.57E-01	6.52E-02	5.92E-02	2.05E-02	5.92E-02	2.05E-02	1.07E+00	1.58E-01	2.29E+00	4.58E-01	2.56E-02
1448	359100	3799650	8.76E-01	7.44E-02	7.17E-02	2.33E-02	7.17E-02	2.33E-02	1.10E+00	1.75E-01	2.34E+00	4.10E-01	2.61E-02
1449	361250	3799650	5.44E-01	2.48E-02	5.86E-02	9.53E-03	5.86E-02	9.53E-03	6.80E-01	2.03E-01	1.45E+00	4.03E-01	1.62E-02
1450	361300	3799650	5.48E-01	2.43E-02	5.93E-02	9.39E-03	5.93E-02	9.39E-03	6.85E-01	2.06E-01	1.46E+00	4.27E-01	1.63E-02
1451	361350	3799650	5.45E-01	2.39E-02	5.96E-02	9.28E-03	5.96E-02	9.28E-03	6.81E-01	2.07E-01	1.45E+00	4.46E-01	1.62E-02
1452	361400	3799650	5.36E-01	2.36E-02	5.95E-02	9.18E-03	5.95E-02	9.18E-03	6.70E-01	2.06E-01	1.43E+00	4.61E-01	1.60E-02
1453	361450	3799650	5.23E-01	2.33E-02	5.92E-02	9.10E-03	5.92E-02	9.10E-03	6.53E-01	2.05E-01	1.39E+00	4.72E-01	1.56E-02
1454	361500	3799650	5.06E-01	2.30E-02	5.85E-02	9.06E-03	5.85E-02	9.06E-03	6.32E-01	2.02E-01	1.35E+00	4.79E-01	1.51E-02
1455	361550	3799650	4.86E-01	2.28E-02	5.77E-02	9.03E-03	5.77E-02	9.03E-03	6.07E-01	1.99E-01	1.30E+00	4.82E-01	1.45E-02
1456	361600	3799650	4.65E-01	2.26E-02	5.67E-02	9.01E-03	5.67E-02	9.01E-03	5.80E-01	1.96E-01	1.24E+00	4.82E-01	1.39E-02
1457	361650	3799650	4.43E-01	2.25E-02	5.57E-02	8.99E-03	5.57E-02	8.99E-03	5.52E-01	1.92E-01	1.18E+00	4.79E-01	1.32E-02
1458	361700	3799650	4.20E-01	2.24E-02	5.45E-02	8.96E-03	5.45E-02	8.96E-03	5.24E-01	1.88E-01	1.12E+00	4.74E-01	1.25E-02
1459	361750	3799650	3.97E-01	2.23E-02	5.33E-02	8.94E-03	5.33E-02	8.94E-03	4.95E-01	1.83E-01	1.06E+00	4.68E-01	1.18E-02
1460	361800	3799650	3.75E-01	2.22E-02	5.20E-02	8.92E-03	5.20E-02	8.92E-03	4.67E-01	1.79E-01	9.99E-01	4.59E-01	1.12E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1461	361850	3799650	3.53E-01	2.22E-02	5.07E-02	8.90E-03	5.07E-02	8.90E-03	4.40E-01	1.74E-01	9.40E-01	4.50E-01	1.05E-02
1462	358650	3799700	4.59E-01	3.51E-02	3.99E-02	1.15E-02	3.99E-02	1.15E-02	5.73E-01	1.29E-01	1.22E+00	2.95E-01	1.37E-02
1463	358700	3799700	4.76E-01	3.70E-02	4.21E-02	1.21E-02	4.21E-02	1.21E-02	5.95E-01	1.36E-01	1.27E+00	2.98E-01	1.42E-02
1464	358750	3799700	4.48E-01	3.69E-02	3.71E-02	1.20E-02	3.71E-02	1.20E-02	5.61E-01	1.17E-01	1.19E+00	2.33E-01	1.34E-02
1465	358800	3799700	4.82E-01	3.94E-02	3.90E-02	1.28E-02	3.90E-02	1.28E-02	6.04E-01	1.22E-01	1.29E+00	2.68E-01	1.44E-02
1466	358850	3799700	5.13E-01	4.22E-02	4.09E-02	1.36E-02	4.09E-02	1.36E-02	6.43E-01	1.27E-01	1.37E+00	3.08E-01	1.53E-02
1467	358900	3799700	5.38E-01	4.80E-02	4.99E-02	1.54E-02	4.99E-02	1.54E-02	6.74E-01	1.56E-01	1.43E+00	3.26E-01	1.60E-02
1468	358950	3799700	6.28E-01	5.14E-02	5.11E-02	1.64E-02	5.11E-02	1.64E-02	7.86E-01	1.58E-01	1.67E+00	3.79E-01	1.87E-02
1469	359000	3799700	6.53E-01	5.34E-02	4.84E-02	1.70E-02	4.84E-02	1.70E-02	8.18E-01	1.46E-01	1.74E+00	4.53E-01	1.95E-02
1470	359050	3799700	8.36E-01	6.09E-02	5.53E-02	1.92E-02	5.53E-02	1.92E-02	1.05E+00	1.68E-01	2.23E+00	4.56E-01	2.49E-02
1471	359100	3799700	8.89E-01	6.92E-02	6.35E-02	2.18E-02	6.35E-02	2.18E-02	1.11E+00	1.79E-01	2.37E+00	4.27E-01	2.65E-02
1472	361200	3799700	5.63E-01	2.55E-02	6.38E-02	9.77E-03	6.38E-02	9.77E-03	7.04E-01	2.22E-01	1.50E+00	4.62E-01	1.68E-02
1473	361250	3799700	5.67E-01	2.49E-02	6.43E-02	9.60E-03	6.43E-02	9.60E-03	7.09E-01	2.24E-01	1.51E+00	4.88E-01	1.69E-02
1474	361300	3799700	5.62E-01	2.44E-02	6.43E-02	9.46E-03	6.43E-02	9.46E-03	7.03E-01	2.24E-01	1.50E+00	5.08E-01	1.68E-02
1475	361350	3799700	5.51E-01	2.40E-02	6.38E-02	9.35E-03	6.38E-02	9.35E-03	6.90E-01	2.22E-01	1.47E+00	5.23E-01	1.64E-02
1476	361400	3799700	5.36E-01	2.36E-02	6.30E-02	9.28E-03	6.30E-02	9.28E-03	6.70E-01	2.19E-01	1.43E+00	5.32E-01	1.60E-02
1477	361450	3799700	5.16E-01	2.33E-02	6.20E-02	9.22E-03	6.20E-02	9.22E-03	6.45E-01	2.15E-01	1.38E+00	5.37E-01	1.54E-02
1478	361500	3799700	4.94E-01	2.31E-02	6.07E-02	9.16E-03	6.07E-02	9.16E-03	6.18E-01	2.10E-01	1.32E+00	5.38E-01	1.47E-02
1479	361550	3799700	4.71E-01	2.29E-02	5.94E-02	9.12E-03	5.94E-02	9.12E-03	5.88E-01	2.05E-01	1.25E+00	5.35E-01	1.40E-02
1480	361600	3799700	4.46E-01	2.27E-02	5.79E-02	9.07E-03	5.79E-02	9.07E-03	5.57E-01	2.00E-01	1.19E+00	5.29E-01	1.33E-02
1481	361650	3799700	4.21E-01	2.25E-02	5.64E-02	9.03E-03	5.64E-02	9.03E-03	5.26E-01	1.95E-01	1.12E+00	5.20E-01	1.26E-02
1482	361700	3799700	3.97E-01	2.24E-02	5.49E-02	9.00E-03	5.49E-02	9.00E-03	4.95E-01	1.89E-01	1.06E+00	5.10E-01	1.18E-02
1483	361750	3799700	3.73E-01	2.23E-02	5.34E-02	8.96E-03	5.34E-02	8.96E-03	4.65E-01	1.84E-01	9.94E-01	4.98E-01	1.11E-02
1484	358650	3799750	3.87E-01	3.44E-02	3.60E-02	1.13E-02	3.60E-02	1.13E-02	4.84E-01	1.22E-01	1.03E+00	2.41E-01	1.15E-02
1485	358700	3799750	4.53E-01	3.79E-02	4.12E-02	1.24E-02	4.12E-02	1.24E-02	5.66E-01	1.35E-01	1.21E+00	3.01E-01	1.35E-02
1486	358750	3799750	4.08E-01	3.84E-02	3.89E-02	1.25E-02	3.89E-02	1.25E-02	5.10E-01	1.22E-01	1.09E+00	2.54E-01	1.22E-02
1487	358800	3799750	4.76E-01	3.88E-02	3.49E-02	1.26E-02	3.49E-02	1.26E-02	5.96E-01	1.07E-01	1.27E+00	2.35E-01	1.42E-02
1488	358850	3799750	4.97E-01	4.23E-02	4.04E-02	1.37E-02	4.04E-02	1.37E-02	6.22E-01	1.24E-01	1.32E+00	2.49E-01	1.48E-02
1489	358900	3799750	5.01E-01	4.71E-02	4.93E-02	1.51E-02	4.93E-02	1.51E-02	6.27E-01	1.53E-01	1.34E+00	2.93E-01	1.49E-02
1490	358950	3799750	6.01E-01	4.69E-02	4.17E-02	1.50E-02	4.17E-02	1.50E-02	7.53E-01	1.25E-01	1.60E+00	3.29E-01	1.79E-02
1491	359000	3799750	6.05E-01	5.09E-02	4.68E-02	1.62E-02	4.68E-02	1.62E-02	7.59E-01	1.41E-01	1.61E+00	3.86E-01	1.80E-02
1492	359050	3799750	7.00E-01	5.72E-02	5.64E-02	1.82E-02	5.64E-02	1.82E-02	8.77E-01	1.73E-01	1.87E+00	4.11E-01	2.09E-02
1493	359100	3799750	8.41E-01	6.41E-02	6.29E-02	2.03E-02	6.29E-02	2.03E-02	1.05E+00	1.96E-01	2.24E+00	4.15E-01	2.51E-02
1494	359150	3799750	9.19E-01	6.77E-02	6.15E-02	2.14E-02	6.15E-02	2.14E-02	1.15E+00	1.91E-01	2.45E+00	4.53E-01	2.74E-02
1495	359200	3799750	9.74E-01	6.86E-02	6.40E-02	2.17E-02	6.40E-02	2.17E-02	1.22E+00	1.88E-01	2.60E+00	4.66E-01	2.90E-02
1496	361150	3799750	5.77E-01	2.63E-02	7.02E-02	1.01E-02	7.02E-02	1.01E-02	7.23E-01	2.45E-01	1.54E+00	5.36E-01	1.72E-02
1497	361200	3799750	5.80E-01	2.56E-02	7.02E-02	9.89E-03	7.02E-02	9.89E-03	7.26E-01	2.45E-01	1.55E+00	5.62E-01	1.73E-02
1498	361250	3799750	5.75E-01	2.50E-02	6.97E-02	9.75E-03	6.97E-02	9.75E-03	7.19E-01	2.43E-01	1.53E+00	5.82E-01	1.71E-02
1499	361300	3799750	5.62E-01	2.45E-02	6.87E-02	9.63E-03	6.87E-02	9.63E-03	7.03E-01	2.39E-01	1.50E+00	5.95E-01	1.67E-02
1500	361350	3799750	5.44E-01	2.41E-02	6.73E-02	9.52E-03	6.73E-02	9.52E-03	6.80E-01	2.34E-01	1.45E+00	6.02E-01	1.62E-02
1501	361400	3799750	5.22E-01	2.37E-02	6.57E-02	9.42E-03	6.57E-02	9.42E-03	6.53E-01	2.29E-01	1.39E+00	6.04E-01	1.56E-02
1502	361450	3799750	4.98E-01	2.34E-02	6.40E-02	9.33E-03	6.40E-02	9.33E-03	6.22E-01	2.22E-01	1.33E+00	6.01E-01	1.48E-02
1503	361500	3799750	4.72E-01	2.31E-02	6.22E-02	9.25E-03	6.22E-02	9.25E-03	5.89E-01	2.16E-01	1.26E+00	5.93E-01	1.41E-02
1504	361550	3799750	4.45E-01	2.29E-02	6.03E-02	9.18E-03	6.03E-02	9.18E-03	5.56E-01	2.09E-01	1.19E+00	5.83E-01	1.33E-02
1505	361600	3799750	4.19E-01	2.27E-02	5.85E-02	9.12E-03	5.85E-02	9.12E-03	5.23E-01	2.04E-01	1.12E+00	5.70E-01	1.25E-02
1506	361650	3799750	3.93E-01	2.26E-02	5.76E-02	9.06E-03	5.76E-02	9.06E-03	4.90E-01	2.01E-01	1.05E+00	5.55E-01	1.17E-02
1507	361700	3799750	3.67E-01	2.24E-02	5.67E-02	9.01E-03	5.67E-02	9.01E-03	4.59E-01	1.98E-01	9.80E-01	5.39E-01	1.10E-02
1508	358650	3799800	4.29E-01	3.59E-02	3.98E-02	1.19E-02	3.98E-02	1.19E-02	5.36E-01	1.35E-01	1.14E+00	2.67E-01	1.28E-02
1509	358700	3799800	4.65E-01	3.86E-02	4.26E-02	1.27E-02	4.26E-02	1.27E-02	5.81E-01	1.45E-01	1.24E+00	3.03E-01	1.38E-02
1510	358750	3799800	3.84E-01	3.85E-02	3.73E-02	1.26E-02	3.73E-02	1.26E-02	4.80E-01	1.26E-01	1.02E+00	2.26E-01	1.14E-02
1511	358800	3799800	4.14E-01	3.87E-02	3.22E-02	1.26E-02	3.22E-02	1.26E-02	5.19E-01	1.07E-01	1.10E+00	2.36E-01	1.24E-02
1512	358850	3799800	4.58E-01	4.08E-02	3.38E-02	1.32E-02	3.38E-02	1.32E-02	5.74E-01	1.08E-01	1.22E+00	2.49E-01	1.37E-02
1513	358900	3799800	5.07E-01	4.31E-02	3.60E-02	1.39E-02	3.60E-02	1.39E-02	6.35E-01	1.09E-01	1.35E+00	2.62E-01	1.51E-02
1514	358950	3799800	5.60E-01	4.56E-02	3.86E-02	1.47E-02	3.86E-02	1.47E-02	7.01E-01	1.14E-01	1.49E+00	2.76E-01	1.67E-02
1515	359000	3799800	5.28E-01	5.10E-02	5.07E-02	1.63E-02	5.07E-02	1.63E-02	6.61E-01	1.55E-01	1.41E+00	3.02E-01	1.57E-02
1516	359050	3799800	5.94E-01	5.46E-02	5.61E-02	1.74E-02	5.61E-02	1.74E-02	7.44E-01	1.73E-01	1.58E+00	3.36E-01	1.77E-02
1517	359100	3799800	6.35E-01	5.65E-02	5.61E-02	1.80E-02	5.61E-02	1.80E-02	7.96E-01	1.74E-01	1.69E+00	3.95E-01	1.89E-02
1518	359150	3799800	8.14E-01	5.97E-02	5.91E-02	1.91E-02	5.91E-02	1.91E-02	1.02E+00	1.87E-01	2.17E+00	4.16E-01	2.42E-02
1519	359200	3799800	9.44E-01	6.24E-02	5.95E-02	1.99E-02	5.95E-02	1.99E-02	1.18E+00	1.91E-01	2.52E+00	4.55E-01	2.81E-02
1520	359250	3799800	1.02E+00	6.37E-02	6.89E-02	2.04E-02	6.89E-02	2.04E-02	1.28E+00	2.15E-01	2.72E+00	5.01E-01	3.04E-02
1521	361100	3799800	6.07E-01	2.75E-02	7.79E-02	1.06E-02	7.79E-02	1.06E-02	7.61E-01	2.73E-01	1.62E+00	6.25E-01	1.81E-02
1522	361150	3799800	5.88E-01	2.65E-02	7.72E-02	1.04E-02	7.72E-02	1.04E-02	7.36E-01	2.70E-01	1.57E+00	6.52E-01	1.75E-02
1523	361200	3799800	5.80E-01	2.58E-02	7.59E-02	1.02E-02	7.59E-02	1.02E-02	7.26E-01	2.65E-01	1.55E+00	6.70E-01	1.73E-02
1524	361250	3799800	5.65E-01	2.52E-02	7.41E-02	9.97E-03	7.41E-02	9.97E-03	7.08E-01	2.59E-01	1.51E+00	6.80E-01	1.69E-02
1525	361300	3799800	5.45E-01	2.47E-02	7.21E-02	9.81E-03	7.21E-02	9.81E-03	6.82E-01	2.51E-01	1.45E+00	6.83E-01	1.62E-02
1526	361350	3799800	5.21E-01	2.43E-02	6.98E-02	9.67E-03	6.98E-02	9.67E-03	6.52E-01	2.43E-01	1.39E+00	6.79E-01	1.55E-02
1527	361400	3799800	4.94E-01	2.39E-02	6.75E-02	9.54E-03	6.75E-02	9.54E-03	6.18E-01	2.35E-01	1.32E+00	6.71E-01	1.47E-02
1528	361450	3799800	4.67E-01	2.35E-02	6.55E-02	9.42E-03	6.55E-02	9.42E-03	5.83E-01	2.29E-01	1.24E+00	6.58E-01	1.39E-02
1529	361500	3799800	4.38E-01	2.32E-02	6.47E-02	9.32E-03	6.47E-02	9.32E-03	5.48E-01	2.26E-01	1.17E+00	6.42E-01	1.31E-02
1530	361550	3799800	4.10E-01	2.30E-02	6.36E-02	9.23E-03	6.36E-02	9.23E-03	5.13E-01	2.22E-01	1.09E+00	6.23E-01	1.22E-02
1531	361600	3799800	3.89E-01	2.28E-02	6.24E-02	9.15E-03	6.24E-02	9.15E-03	4.87E-01	2.18E-01	1.04E+00	6.03E-01	1.16E-02
1532	361650	3799800	3.68E-01	2.26E-02	6.10E-02	9.08E-03	6.10E-02	9.08E-03	4.60E-01	2.13E-01	9.81E-01	5.82E-01	1.10E-02
1533	361700	3799800	3.46E-01	2.24E-02	5.95E-02	9.02E-03	5.95E-02	9.02E-03	4.33E-01	2.08E-01	9.23E-01	5.60E-01	1.03E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1534	358650	3799850	4.31E-01	3.67E-02	4.12E-02	1.22E-02	4.12E-02	1.22E-02	5.39E-01	1.40E-01	1.15E+00	2.66E-01	1.29E-02
1535	358700	3799850	4.08E-01	3.77E-02	3.99E-02	1.24E-02	3.99E-02	1.24E-02	5.11E-01	1.35E-01	1.09E+00	2.43E-01	1.22E-02
1536	358750	3799850	3.18E-01	3.78E-02	3.49E-02	1.24E-02	3.49E-02	1.24E-02	3.97E-01	1.17E-01	8.47E-01	2.46E-01	9.46E-03
1537	358800	3799850	3.24E-01	3.75E-02	3.01E-02	1.23E-02	3.01E-02	1.23E-02	4.03E-01	1.00E-01	8.63E-01	2.51E-01	9.65E-03
1538	358850	3799850	3.31E-01	3.85E-02	3.03E-02	1.26E-02	3.03E-02	1.26E-02	4.12E-01	9.41E-02	8.83E-01	2.54E-01	9.86E-03
1539	358900	3799850	3.99E-01	4.12E-02	3.17E-02	1.34E-02	3.17E-02	1.34E-02	5.00E-01	1.05E-01	1.06E+00	2.63E-01	1.19E-02
1540	358950	3799850	4.83E-01	4.59E-02	4.01E-02	1.48E-02	4.01E-02	1.48E-02	6.05E-01	1.29E-01	1.29E+00	2.79E-01	1.44E-02
1541	359000	3799850	5.27E-01	4.84E-02	4.40E-02	1.56E-02	4.40E-02	1.56E-02	6.60E-01	1.36E-01	1.40E+00	2.95E-01	1.57E-02
1542	359050	3799850	5.96E-01	4.95E-02	4.38E-02	1.59E-02	4.38E-02	1.59E-02	7.47E-01	1.33E-01	1.59E+00	3.12E-01	1.78E-02
1543	359100	3799850	5.76E-01	5.25E-02	5.03E-02	1.69E-02	5.03E-02	1.69E-02	7.23E-01	1.55E-01	1.54E+00	3.31E-01	1.72E-02
1544	359150	3799850	6.67E-01	5.54E-02	5.73E-02	1.78E-02	5.73E-02	1.78E-02	8.37E-01	1.81E-01	1.78E+00	3.94E-01	1.99E-02
1545	359200	3799850	7.66E-01	5.94E-02	6.69E-02	1.92E-02	6.69E-02	1.92E-02	9.60E-01	2.19E-01	2.04E+00	5.11E-01	2.28E-02
1546	361150	3799850	5.99E-01	2.72E-02	8.30E-02	1.07E-02	8.30E-02	1.07E-02	7.51E-01	2.91E-01	1.60E+00	7.76E-01	1.79E-02
1547	361200	3799850	5.69E-01	2.63E-02	8.02E-02	1.04E-02	8.02E-02	1.04E-02	7.13E-01	2.81E-01	1.52E+00	7.80E-01	1.70E-02
1548	361250	3799850	5.38E-01	2.56E-02	7.72E-02	1.02E-02	7.72E-02	1.02E-02	6.73E-01	2.70E-01	1.43E+00	7.75E-01	1.60E-02
1549	361300	3799850	5.14E-01	2.50E-02	7.41E-02	9.97E-03	7.41E-02	9.97E-03	6.44E-01	2.60E-01	1.37E+00	7.65E-01	1.53E-02
1550	361350	3799850	5.00E-01	2.45E-02	7.33E-02	9.79E-03	7.33E-02	9.79E-03	6.26E-01	2.57E-01	1.33E+00	7.48E-01	1.49E-02
1551	361400	3799850	4.80E-01	2.41E-02	7.22E-02	9.63E-03	7.22E-02	9.63E-03	6.01E-01	2.53E-01	1.28E+00	7.28E-01	1.43E-02
1552	361450	3799850	4.57E-01	2.37E-02	7.08E-02	9.49E-03	7.08E-02	9.49E-03	5.72E-01	2.48E-01	1.22E+00	7.05E-01	1.36E-02
1553	361500	3799850	4.31E-01	2.33E-02	6.92E-02	9.37E-03	6.92E-02	9.37E-03	5.40E-01	2.42E-01	1.15E+00	6.79E-01	1.29E-02
1554	361550	3799850	4.05E-01	2.30E-02	6.74E-02	9.26E-03	6.74E-02	9.26E-03	5.07E-01	2.36E-01	1.08E+00	6.53E-01	1.21E-02
1555	361600	3799850	3.78E-01	2.27E-02	6.55E-02	9.16E-03	6.55E-02	9.16E-03	4.73E-01	2.29E-01	1.01E+00	6.25E-01	1.13E-02
1556	361650	3799850	3.51E-01	2.25E-02	6.36E-02	9.08E-03	6.36E-02	9.08E-03	4.39E-01	2.22E-01	9.37E-01	5.98E-01	1.05E-02
1557	361700	3799850	3.26E-01	2.23E-02	6.16E-02	9.01E-03	6.16E-02	9.01E-03	4.07E-01	2.15E-01	8.68E-01	5.71E-01	9.70E-03
1558	358600	3799900	2.89E-01	3.32E-02	3.06E-02	1.11E-02	3.06E-02	1.11E-02	3.60E-01	1.02E-01	7.71E-01	2.38E-01	8.61E-03
1559	358650	3799900	3.33E-01	3.59E-02	3.63E-02	1.19E-02	3.63E-02	1.19E-02	4.17E-01	1.23E-01	8.89E-01	2.47E-01	9.93E-03
1560	358700	3799900	3.14E-01	3.59E-02	3.13E-02	1.19E-02	3.13E-02	1.19E-02	3.91E-01	1.05E-01	8.38E-01	2.55E-01	9.37E-03
1561	358750	3799900	3.27E-01	3.71E-02	3.11E-02	1.22E-02	3.11E-02	1.22E-02	4.07E-01	1.04E-01	8.72E-01	2.62E-01	9.74E-03
1562	358800	3799900	3.39E-01	3.69E-02	2.97E-02	1.21E-02	2.97E-02	1.21E-02	4.23E-01	9.58E-02	9.05E-01	2.70E-01	1.01E-02
1563	358850	3799900	3.51E-01	3.85E-02	2.98E-02	1.26E-02	2.98E-02	1.26E-02	4.38E-01	9.86E-02	9.37E-01	2.77E-01	1.05E-02
1564	358900	3799900	3.62E-01	4.00E-02	3.02E-02	1.31E-02	3.02E-02	1.31E-02	4.52E-01	1.02E-01	9.67E-01	2.83E-01	1.08E-02
1565	358950	3799900	3.72E-01	4.14E-02	3.21E-02	1.35E-02	3.21E-02	1.35E-02	4.65E-01	1.06E-01	9.93E-01	2.89E-01	1.11E-02
1566	359000	3799900	4.37E-01	4.51E-02	3.65E-02	1.46E-02	3.65E-02	1.46E-02	5.47E-01	1.21E-01	1.16E+00	2.95E-01	1.30E-02
1567	359050	3799900	4.84E-01	4.94E-02	4.76E-02	1.60E-02	4.76E-02	1.60E-02	6.06E-01	1.61E-01	1.29E+00	3.16E-01	1.44E-02
1568	359100	3799900	6.41E-01	5.29E-02	5.63E-02	1.72E-02	5.63E-02	1.72E-02	8.03E-01	1.88E-01	1.71E+00	4.14E-01	1.91E-02
1569	359150	3799900	7.89E-01	5.70E-02	6.95E-02	1.86E-02	6.95E-02	1.86E-02	9.89E-01	2.25E-01	2.10E+00	5.44E-01	2.35E-02
1570	361200	3799900	5.87E-01	2.68E-02	8.43E-02	1.06E-02	8.43E-02	1.06E-02	7.36E-01	2.97E-01	1.57E+00	8.81E-01	1.75E-02
1571	361250	3799900	5.68E-01	2.60E-02	8.31E-02	1.03E-02	8.31E-02	1.03E-02	7.11E-01	2.92E-01	1.51E+00	8.59E-01	1.69E-02
1572	361300	3799900	5.42E-01	2.53E-02	8.15E-02	1.01E-02	8.15E-02	1.01E-02	6.79E-01	2.86E-01	1.44E+00	8.33E-01	1.62E-02
1573	361350	3799900	5.12E-01	2.47E-02	7.95E-02	9.88E-03	7.95E-02	9.88E-03	6.41E-01	2.79E-01	1.36E+00	8.03E-01	1.53E-02
1574	361400	3799900	4.79E-01	2.42E-02	7.73E-02	9.70E-03	7.73E-02	9.70E-03	6.00E-01	2.71E-01	1.28E+00	7.70E-01	1.43E-02
1575	361450	3799900	4.46E-01	2.37E-02	7.50E-02	9.53E-03	7.50E-02	9.53E-03	5.58E-01	2.63E-01	1.19E+00	7.36E-01	1.33E-02
1576	361500	3799900	4.13E-01	2.33E-02	7.26E-02	9.39E-03	7.26E-02	9.39E-03	5.17E-01	2.54E-01	1.10E+00	7.02E-01	1.23E-02
1577	361550	3799900	3.80E-01	2.30E-02	7.01E-02	9.27E-03	7.01E-02	9.27E-03	4.76E-01	2.45E-01	1.01E+00	6.68E-01	1.13E-02
1578	361600	3799900	3.57E-01	2.27E-02	6.76E-02	9.16E-03	6.76E-02	9.16E-03	4.46E-01	2.36E-01	9.52E-01	6.35E-01	1.06E-02
1579	361650	3799900	3.40E-01	2.25E-02	6.52E-02	9.06E-03	6.52E-02	9.06E-03	4.24E-01	2.28E-01	9.06E-01	6.02E-01	1.01E-02
1580	358600	3799950	2.84E-01	3.40E-02	3.11E-02	1.14E-02	3.11E-02	1.14E-02	3.53E-01	9.96E-02	7.56E-01	2.41E-01	8.45E-03
1581	358650	3799950	2.98E-01	3.52E-02	3.10E-02	1.17E-02	3.10E-02	1.17E-02	3.71E-01	1.02E-01	7.95E-01	2.51E-01	8.88E-03
1582	358700	3799950	3.13E-01	3.43E-02	2.89E-02	1.14E-02	2.89E-02	1.14E-02	3.90E-01	9.06E-02	8.35E-01	2.61E-01	9.33E-03
1583	358750	3799950	3.29E-01	3.56E-02	2.91E-02	1.18E-02	2.91E-02	1.18E-02	4.10E-01	9.37E-02	8.77E-01	2.72E-01	9.80E-03
1584	358800	3799950	3.45E-01	3.69E-02	2.92E-02	1.22E-02	2.92E-02	1.22E-02	4.29E-01	9.73E-02	9.19E-01	2.82E-01	1.03E-02
1585	358850	3799950	3.61E-01	3.83E-02	2.99E-02	1.26E-02	2.99E-02	1.26E-02	4.50E-01	1.01E-01	9.62E-01	2.92E-01	1.08E-02
1586	358900	3799950	3.77E-01	3.96E-02	3.09E-02	1.30E-02	3.09E-02	1.30E-02	4.70E-01	1.05E-01	1.00E+00	3.03E-01	1.12E-02
1587	358950	3799950	3.94E-01	4.16E-02	3.37E-02	1.36E-02	3.37E-02	1.36E-02	4.92E-01	1.12E-01	1.05E+00	3.15E-01	1.18E-02
1588	359000	3799950	4.16E-01	4.55E-02	4.31E-02	1.49E-02	4.31E-02	1.49E-02	5.20E-01	1.45E-01	1.11E+00	3.28E-01	1.24E-02
1589	359050	3799950	5.87E-01	4.93E-02	5.52E-02	1.62E-02	5.52E-02	1.62E-02	7.36E-01	1.88E-01	1.57E+00	3.41E-01	1.75E-02
1590	359100	3799950	7.06E-01	5.26E-02	6.52E-02	1.73E-02	6.52E-02	1.73E-02	8.85E-01	2.24E-01	1.88E+00	4.81E-01	2.10E-02
1591	361200	3799950	6.16E-01	2.72E-02	9.33E-02	1.08E-02	9.33E-02	1.08E-02	7.73E-01	3.29E-01	1.64E+00	9.63E-01	1.84E-02
1592	361250	3799950	5.76E-01	2.62E-02	9.04E-02	1.05E-02	9.04E-02	1.05E-02	7.22E-01	3.18E-01	1.54E+00	9.23E-01	1.72E-02
1593	361300	3799950	5.34E-01	2.54E-02	8.73E-02	1.02E-02	8.73E-02	1.02E-02	6.69E-01	3.07E-01	1.42E+00	8.80E-01	1.59E-02
1594	361350	3799950	4.92E-01	2.48E-02	8.41E-02	9.94E-03	8.41E-02	9.94E-03	6.16E-01	2.95E-01	1.31E+00	8.36E-01	1.47E-02
1595	361400	3799950	4.51E-01	2.42E-02	8.09E-02	9.73E-03	8.09E-02	9.73E-03	5.65E-01	2.84E-01	1.20E+00	7.92E-01	1.35E-02
1596	361450	3799950	4.21E-01	2.37E-02	7.77E-02	9.55E-03	7.77E-02	9.55E-03	5.27E-01	2.72E-01	1.12E+00	7.49E-01	1.26E-02
1597	361500	3799950	3.95E-01	2.33E-02	7.45E-02	9.39E-03	7.45E-02	9.39E-03	4.93E-01	2.61E-01	1.05E+00	7.08E-01	1.18E-02
1598	361550	3799950	3.77E-01	2.30E-02	7.15E-02	9.26E-03	7.15E-02	9.26E-03	4.71E-01	2.50E-01	1.00E+00	6.68E-01	1.12E-02
1599	361600	3799950	3.66E-01	2.27E-02	6.85E-02	9.14E-03	6.85E-02	9.14E-03	4.58E-01	2.39E-01	9.76E-01	6.30E-01	1.09E-02
1600	361650	3799950	3.55E-01	2.24E-02	6.56E-02	9.04E-03	6.56E-02	9.04E-03	4.43E-01	2.29E-01	9.46E-01	5.94E-01	1.06E-02
1601	358550	3800000	2.56E-01	3.17E-02	2.97E-02	1.07E-02	2.97E-02	1.07E-02	3.18E-01	9.36E-02	6.82E-01	2.26E-01	7.62E-03
1602	358600	3800000	2.70E-01	3.39E-02	3.07E-02	1.14E-02	3.07E-02	1.14E-02	3.37E-01	9.68E-02	7.21E-01	2.37E-01	8.06E-03
1603	358650	3800000	2.86E-01	3.39E-02	2.97E-02	1.14E-02	2.97E-02	1.14E-02	3.56E-01	9.37E-02	7.63E-01	2.49E-01	8.53E-03
1604	358700	3800000	3.03E-01	3.45E-02	2.87E-02	1.15E-02	2.87E-02	1.15E-02	3.77E-01	8.90E-02	8.07E-01	2.61E-01	9.02E-03
1605	358750	3800000	3.20E-01	3.57E-02	2.88E-02	1.18E-02	2.88E-02	1.18E-02	3.99E-01	9.24E-02	8.54E-01	2.73E-01	9.54E-03
1606	358800	3800000	3.39E-01	3.69E-02	2.87E-02	1.22E-02	2.87E-02	1.22E-02	4.22E-01	9.67E-02	9.03E-01	2.86E-01	1.01E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1607	358850	3800000	3.58E-01	3.80E-02	2.99E-02	1.26E-02	2.99E-02	1.26E-02	4.46E-01	1.01E-01	9.54E-01	3.00E-01	1.07E-02
1608	358900	3800000	3.77E-01	3.91E-02	3.14E-02	1.29E-02	3.14E-02	1.29E-02	4.71E-01	1.07E-01	1.01E+00	3.15E-01	1.13E-02
1609	358950	3800000	4.03E-01	4.29E-02	3.74E-02	1.41E-02	3.74E-02	1.41E-02	5.03E-01	1.25E-01	1.07E+00	3.34E-01	1.20E-02
1610	359000	3800000	4.59E-01	4.63E-02	4.96E-02	1.53E-02	4.96E-02	1.53E-02	5.75E-01	1.68E-01	1.22E+00	3.53E-01	1.37E-02
1611	359050	3800000	6.80E-01	5.01E-02	6.41E-02	1.67E-02	6.41E-02	1.67E-02	8.52E-01	2.19E-01	1.81E+00	4.36E-01	2.03E-02
1612	361150	3800000	6.53E-01	2.86E-02	1.04E-01	1.14E-02	1.04E-01	1.14E-02	8.18E-01	3.67E-01	1.74E+00	1.07E+00	1.95E-02
1613	361200	3800000	5.97E-01	2.74E-02	9.98E-02	1.10E-02	9.98E-02	1.10E-02	7.49E-01	3.52E-01	1.59E+00	1.01E+00	1.78E-02
1614	361250	3800000	5.47E-01	2.64E-02	9.52E-02	1.06E-02	9.52E-02	1.06E-02	6.85E-01	3.35E-01	1.46E+00	9.56E-01	1.63E-02
1615	361300	3800000	5.10E-01	2.55E-02	9.07E-02	1.02E-02	9.07E-02	1.02E-02	6.39E-01	3.19E-01	1.36E+00	8.99E-01	1.52E-02
1616	361350	3800000	4.73E-01	2.48E-02	8.64E-02	9.97E-03	8.64E-02	9.97E-03	5.93E-01	3.03E-01	1.26E+00	8.44E-01	1.41E-02
1617	361400	3800000	4.45E-01	2.42E-02	8.23E-02	9.74E-03	8.23E-02	9.74E-03	5.57E-01	2.88E-01	1.19E+00	7.91E-01	1.33E-02
1618	361450	3800000	4.31E-01	2.37E-02	7.84E-02	9.55E-03	7.84E-02	9.55E-03	5.39E-01	2.74E-01	1.15E+00	7.42E-01	1.28E-02
1619	361500	3800000	4.16E-01	2.33E-02	7.47E-02	9.38E-03	7.47E-02	9.38E-03	5.20E-01	2.61E-01	1.11E+00	6.95E-01	1.24E-02
1620	361550	3800000	4.00E-01	2.29E-02	7.12E-02	9.23E-03	7.12E-02	9.23E-03	5.00E-01	2.49E-01	1.07E+00	6.52E-01	1.19E-02
1621	361600	3800000	3.83E-01	2.26E-02	6.79E-02	9.11E-03	6.79E-02	9.11E-03	4.79E-01	2.37E-01	1.02E+00	6.11E-01	1.14E-02
1622	361650	3800000	3.67E-01	2.24E-02	6.47E-02	9.00E-03	6.47E-02	9.00E-03	4.58E-01	2.26E-01	9.77E-01	5.73E-01	1.09E-02
1623	358550	3800050	2.60E-01	3.20E-02	2.99E-02	1.08E-02	2.99E-02	1.08E-02	3.23E-01	9.48E-02	6.93E-01	2.17E-01	7.74E-03
1624	358600	3800050	2.71E-01	3.25E-02	2.93E-02	1.09E-02	2.93E-02	1.09E-02	3.37E-01	9.31E-02	7.22E-01	2.29E-01	8.07E-03
1625	358650	3800050	2.82E-01	3.36E-02	2.83E-02	1.13E-02	2.83E-02	1.13E-02	3.51E-01	8.95E-02	7.53E-01	2.41E-01	8.41E-03
1626	358700	3800050	2.94E-01	3.47E-02	2.84E-02	1.16E-02	2.84E-02	1.16E-02	3.67E-01	8.72E-02	7.84E-01	2.54E-01	8.77E-03
1627	358750	3800050	3.07E-01	3.57E-02	2.83E-02	1.19E-02	2.83E-02	1.19E-02	3.82E-01	8.90E-02	8.18E-01	2.68E-01	9.14E-03
1628	358800	3800050	3.21E-01	3.67E-02	2.82E-02	1.22E-02	2.82E-02	1.22E-02	4.00E-01	9.37E-02	8.56E-01	2.82E-01	9.56E-03
1629	358850	3800050	3.42E-01	3.77E-02	2.92E-02	1.25E-02	2.92E-02	1.25E-02	4.26E-01	9.86E-02	9.11E-01	2.98E-01	1.02E-02
1630	358900	3800050	3.64E-01	4.01E-02	3.34E-02	1.33E-02	3.34E-02	1.33E-02	4.54E-01	1.05E-01	9.70E-01	3.17E-01	1.08E-02
1631	358950	3800050	3.91E-01	4.30E-02	3.83E-02	1.43E-02	3.83E-02	1.43E-02	4.88E-01	1.27E-01	1.04E+00	3.38E-01	1.17E-02
1632	359000	3800050	5.24E-01	4.67E-02	5.16E-02	1.57E-02	5.16E-02	1.57E-02	6.56E-01	1.75E-01	1.40E+00	3.67E-01	1.56E-02
1633	359050	3800050	7.05E-01	5.13E-02	6.82E-02	1.74E-02	6.82E-02	1.74E-02	8.83E-01	2.33E-01	1.88E+00	5.27E-01	2.10E-02
1634	361100	3800050	6.80E-01	3.01E-02	1.15E-01	1.20E-02	1.15E-01	1.20E-02	8.52E-01	4.06E-01	1.81E+00	1.17E+00	2.03E-02
1635	361150	3800050	6.30E-01	2.88E-02	1.09E-01	1.15E-02	1.09E-01	1.15E-02	7.90E-01	3.83E-01	1.68E+00	1.10E+00	1.88E-02
1636	361200	3800050	5.81E-01	2.76E-02	1.03E-01	1.10E-02	1.03E-01	1.10E-02	7.29E-01	3.61E-01	1.55E+00	1.03E+00	1.73E-02
1637	361250	3800050	5.35E-01	2.65E-02	9.68E-02	1.06E-02	9.68E-02	1.06E-02	6.70E-01	3.40E-01	1.43E+00	9.54E-01	1.59E-02
1638	361300	3800050	5.14E-01	2.55E-02	9.12E-02	1.03E-02	9.12E-02	1.03E-02	6.44E-01	3.20E-01	1.37E+00	8.87E-01	1.53E-02
1639	361350	3800050	4.93E-01	2.48E-02	8.60E-02	9.97E-03	8.60E-02	9.97E-03	6.17E-01	3.02E-01	1.31E+00	8.24E-01	1.47E-02
1640	361400	3800050	4.71E-01	2.42E-02	8.13E-02	9.73E-03	8.13E-02	9.73E-03	5.90E-01	2.85E-01	1.26E+00	7.67E-01	1.40E-02
1641	361450	3800050	4.49E-01	2.36E-02	7.70E-02	9.53E-03	7.70E-02	9.53E-03	5.62E-01	2.69E-01	1.20E+00	7.14E-01	1.34E-02
1642	361500	3800050	4.27E-01	2.32E-02	7.30E-02	9.35E-03	7.30E-02	9.35E-03	5.34E-01	2.55E-01	1.14E+00	6.65E-01	1.27E-02
1643	361550	3800050	4.05E-01	2.29E-02	6.93E-02	9.20E-03	6.93E-02	9.20E-03	5.07E-01	2.42E-01	1.08E+00	6.21E-01	1.21E-02
1644	361600	3800050	3.84E-01	2.26E-02	6.58E-02	9.07E-03	6.58E-02	9.07E-03	4.80E-01	2.29E-01	1.02E+00	5.80E-01	1.14E-02
1645	358550	3800100	2.71E-01	3.19E-02	2.87E-02	1.08E-02	2.87E-02	1.08E-02	3.38E-01	9.16E-02	7.24E-01	2.03E-01	8.09E-03
1646	358600	3800100	2.81E-01	3.29E-02	2.80E-02	1.11E-02	2.80E-02	1.11E-02	3.50E-01	8.94E-02	7.49E-01	2.14E-01	8.37E-03
1647	358650	3800100	2.91E-01	3.38E-02	2.82E-02	1.14E-02	2.82E-02	1.14E-02	3.62E-01	8.80E-02	7.76E-01	2.27E-01	8.67E-03
1648	358700	3800100	3.01E-01	3.48E-02	2.81E-02	1.17E-02	2.81E-02	1.17E-02	3.75E-01	8.80E-02	8.03E-01	2.40E-01	8.97E-03
1649	358750	3800100	3.14E-01	3.57E-02	2.79E-02	1.20E-02	2.79E-02	1.20E-02	3.91E-01	8.81E-02	8.37E-01	2.54E-01	9.35E-03
1650	358800	3800100	3.29E-01	3.66E-02	2.80E-02	1.22E-02	2.80E-02	1.22E-02	4.10E-01	8.91E-02	8.77E-01	2.69E-01	9.81E-03
1651	358850	3800100	3.45E-01	3.74E-02	2.97E-02	1.25E-02	2.97E-02	1.25E-02	4.30E-01	9.37E-02	9.20E-01	2.85E-01	1.03E-02
1652	358900	3800100	3.62E-01	4.05E-02	3.55E-02	1.36E-02	3.55E-02	1.36E-02	4.52E-01	1.10E-01	9.65E-01	3.05E-01	1.08E-02
1653	358950	3800100	4.11E-01	4.39E-02	4.26E-02	1.48E-02	4.26E-02	1.48E-02	5.15E-01	1.35E-01	1.10E+00	3.38E-01	1.23E-02
1654	359000	3800100	6.15E-01	4.77E-02	5.48E-02	1.62E-02	5.48E-02	1.62E-02	7.70E-01	1.84E-01	1.64E+00	5.07E-01	1.83E-02
1655	359050	3800100	7.46E-01	5.18E-02	6.78E-02	1.79E-02	6.78E-02	1.79E-02	9.35E-01	2.31E-01	1.99E+00	6.70E-01	2.22E-02
1656	361000	3800100	7.91E-01	3.35E-02	1.33E-01	1.34E-02	1.33E-01	1.34E-02	9.93E-01	4.70E-01	2.11E+00	1.37E+00	2.36E-02
1657	361050	3800100	7.25E-01	3.18E-02	1.25E-01	1.27E-02	1.25E-01	1.27E-02	9.09E-01	4.39E-01	1.93E+00	1.27E+00	2.16E-02
1658	361100	3800100	6.66E-01	3.02E-02	1.16E-01	1.21E-02	1.16E-01	1.21E-02	8.34E-01	4.10E-01	1.77E+00	1.17E+00	1.98E-02
1659	361150	3800100	6.33E-01	2.88E-02	1.09E-01	1.16E-02	1.09E-01	1.16E-02	7.93E-01	3.82E-01	1.69E+00	1.08E+00	1.89E-02
1660	361200	3800100	5.98E-01	2.76E-02	1.01E-01	1.11E-02	1.01E-01	1.11E-02	7.50E-01	3.56E-01	1.59E+00	9.94E-01	1.78E-02
1661	361250	3800100	5.69E-01	2.65E-02	9.45E-02	1.06E-02	9.45E-02	1.06E-02	7.13E-01	3.32E-01	1.52E+00	9.16E-01	1.70E-02
1662	361300	3800100	5.40E-01	2.55E-02	8.84E-02	1.02E-02	8.84E-02	1.02E-02	6.77E-01	3.10E-01	1.44E+00	8.44E-01	1.61E-02
1663	361350	3800100	5.11E-01	2.47E-02	8.29E-02	9.94E-03	8.29E-02	9.94E-03	6.40E-01	2.90E-01	1.36E+00	7.79E-01	1.52E-02
1664	361400	3800100	4.82E-01	2.41E-02	7.80E-02	9.70E-03	7.80E-02	9.70E-03	6.04E-01	2.72E-01	1.29E+00	7.21E-01	1.44E-02
1665	361450	3800100	4.55E-01	2.36E-02	7.35E-02	9.49E-03	7.35E-02	9.49E-03	5.70E-01	2.57E-01	1.21E+00	6.68E-01	1.36E-02
1666	361500	3800100	4.29E-01	2.32E-02	6.95E-02	9.31E-03	6.95E-02	9.31E-03	5.37E-01	2.42E-01	1.14E+00	6.20E-01	1.28E-02
1667	361550	3800100	4.04E-01	2.28E-02	6.59E-02	9.15E-03	6.59E-02	9.15E-03	5.06E-01	2.29E-01	1.08E+00	5.94E-01	1.21E-02
1668	361600	3800100	3.81E-01	2.25E-02	6.24E-02	9.02E-03	6.24E-02	9.02E-03	4.77E-01	2.17E-01	1.02E+00	5.70E-01	1.14E-02
1669	358550	3800150	2.85E-01	3.23E-02	2.80E-02	1.10E-02	2.80E-02	1.10E-02	3.55E-01	8.88E-02	7.59E-01	1.96E-01	8.48E-03
1670	358600	3800150	2.93E-01	3.32E-02	2.80E-02	1.12E-02	2.80E-02	1.12E-02	3.66E-01	8.90E-02	7.82E-01	2.02E-01	8.74E-03
1671	358650	3800150	3.03E-01	3.40E-02	2.80E-02	1.15E-02	2.80E-02	1.15E-02	3.79E-01	8.91E-02	8.07E-01	2.09E-01	9.02E-03
1672	358700	3800150	3.17E-01	3.49E-02	2.80E-02	1.18E-02	2.80E-02	1.18E-02	3.96E-01	8.92E-02	8.45E-01	2.20E-01	9.44E-03
1673	358750	3800150	3.32E-01	3.57E-02	2.82E-02	1.20E-02	2.82E-02	1.20E-02	4.15E-01	8.93E-02	8.85E-01	2.34E-01	9.89E-03
1674	358800	3800150	3.48E-01	3.65E-02	2.88E-02	1.23E-02	2.88E-02	1.23E-02	4.35E-01	9.34E-02	9.27E-01	2.49E-01	1.04E-02
1675	358850	3800150	3.64E-01	3.75E-02	3.22E-02	1.27E-02	3.22E-02	1.27E-02	4.56E-01	1.00E-01	9.71E-01	2.64E-01	1.09E-02
1676	358900	3800150	3.82E-01	3.99E-02	3.56E-02	1.35E-02	3.56E-02	1.35E-02	4.78E-01	1.11E-01	1.02E+00	2.82E-01	1.14E-02
1677	358950	3800150	4.00E-01	4.36E-02	4.36E-02	1.49E-02	4.36E-02	1.49E-02	5.01E-01	1.44E-01	1.07E+00	3.83E-01	1.19E-02
1678	359000	3800150	6.06E-01	4.85E-02	6.59E-02	1.68E-02	6.59E-02	1.68E-02	7.59E-01	2.23E-01	1.62E+00	6.54E-01	1.81E-02
1679	359050	3800150	7.27E-01	5.22E-02	8.05E-02	1.83E-02	8.05E-02	1.83E-02	9.11E-01	2.75E-01	1.94E+00	8.28E-01	2.17E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1680	360950	3800150	8.55E-01	3.57E-02	1.42E-01	1.43E-02	1.42E-01	1.43E-02	1.07E+00	5.02E-01	2.28E+00	1.45E+00	2.55E-02
1681	361000	3800150	8.08E-01	3.36E-02	1.31E-01	1.35E-02	1.31E-01	1.35E-02	1.01E+00	4.62E-01	2.15E+00	1.33E+00	2.41E-02
1682	361050	3800150	7.59E-01	3.18E-02	1.21E-01	1.28E-02	1.21E-01	1.28E-02	9.51E-01	4.25E-01	2.02E+00	1.21E+00	2.26E-02
1683	361100	3800150	7.12E-01	3.02E-02	1.12E-01	1.21E-02	1.12E-01	1.21E-02	8.93E-01	3.92E-01	1.90E+00	1.11E+00	2.12E-02
1684	361150	3800150	6.70E-01	2.88E-02	1.03E-01	1.16E-02	1.03E-01	1.16E-02	8.40E-01	3.62E-01	1.79E+00	1.01E+00	2.00E-02
1685	361200	3800150	6.28E-01	2.75E-02	9.55E-02	1.11E-02	9.55E-02	1.11E-02	7.88E-01	3.34E-01	1.67E+00	9.23E-01	1.87E-02
1686	361250	3800150	5.88E-01	2.64E-02	8.87E-02	1.06E-02	8.87E-02	1.06E-02	7.37E-01	3.10E-01	1.57E+00	8.45E-01	1.75E-02
1687	361300	3800150	5.50E-01	2.54E-02	8.25E-02	1.02E-02	8.25E-02	1.02E-02	6.89E-01	2.88E-01	1.47E+00	7.82E-01	1.64E-02
1688	361350	3800150	5.14E-01	2.46E-02	7.71E-02	9.90E-03	7.71E-02	9.90E-03	6.44E-01	2.69E-01	1.37E+00	7.47E-01	1.53E-02
1689	361400	3800150	4.80E-01	2.40E-02	7.24E-02	9.65E-03	7.24E-02	9.65E-03	6.02E-01	2.52E-01	1.28E+00	7.13E-01	1.43E-02
1690	361450	3800150	4.49E-01	2.35E-02	6.82E-02	9.44E-03	6.82E-02	9.44E-03	5.62E-01	2.38E-01	1.20E+00	6.80E-01	1.34E-02
1691	361500	3800150	4.20E-01	2.31E-02	6.45E-02	9.25E-03	6.45E-02	9.25E-03	5.26E-01	2.24E-01	1.12E+00	6.50E-01	1.25E-02
1692	361550	3800150	3.93E-01	2.27E-02	6.11E-02	9.09E-03	6.11E-02	9.09E-03	4.92E-01	2.12E-01	1.05E+00	6.20E-01	1.17E-02
1693	361600	3800150	3.69E-01	2.24E-02	5.80E-02	8.95E-03	5.80E-02	8.95E-03	4.61E-01	2.01E-01	9.83E-01	5.92E-01	1.10E-02
1694	358500	3800200	2.84E-01	3.19E-02	2.82E-02	1.09E-02	2.82E-02	1.09E-02	3.54E-01	8.94E-02	7.58E-01	1.99E-01	8.47E-03
1695	358550	3800200	2.95E-01	3.27E-02	2.82E-02	1.12E-02	2.82E-02	1.12E-02	3.67E-01	8.97E-02	7.86E-01	2.05E-01	8.78E-03
1696	358600	3800200	3.05E-01	3.35E-02	2.82E-02	1.14E-02	2.82E-02	1.14E-02	3.81E-01	8.99E-02	8.14E-01	2.12E-01	9.10E-03
1697	358650	3800200	3.17E-01	3.42E-02	2.84E-02	1.16E-02	2.84E-02	1.16E-02	3.95E-01	9.01E-02	8.44E-01	2.19E-01	9.43E-03
1698	358700	3800200	3.30E-01	3.50E-02	2.87E-02	1.19E-02	2.87E-02	1.19E-02	4.12E-01	9.03E-02	8.79E-01	2.27E-01	9.82E-03
1699	358750	3800200	3.47E-01	3.57E-02	2.91E-02	1.21E-02	2.91E-02	1.21E-02	4.34E-01	9.17E-02	9.24E-01	2.35E-01	1.03E-02
1700	358800	3800200	3.65E-01	3.64E-02	2.94E-02	1.23E-02	2.94E-02	1.23E-02	4.57E-01	9.38E-02	9.74E-01	2.44E-01	1.09E-02
1701	358850	3800200	3.85E-01	3.74E-02	3.25E-02	1.28E-02	3.25E-02	1.28E-02	4.82E-01	1.02E-01	1.03E+00	2.54E-01	1.15E-02
1702	358900	3800200	4.06E-01	4.10E-02	3.80E-02	1.40E-02	3.80E-02	1.40E-02	5.09E-01	1.20E-01	1.08E+00	2.71E-01	1.21E-02
1703	358950	3800200	4.35E-01	4.49E-02	5.12E-02	1.56E-02	5.12E-02	1.56E-02	5.44E-01	1.70E-01	1.16E+00	4.82E-01	1.30E-02
1704	359000	3800200	6.18E-01	5.15E-02	8.06E-02	1.82E-02	8.06E-02	1.82E-02	7.73E-01	2.74E-01	1.65E+00	8.49E-01	1.84E-02
1705	360950	3800200	9.00E-01	3.55E-02	1.33E-01	1.43E-02	1.33E-01	1.43E-02	1.13E+00	4.66E-01	2.40E+00	1.34E+00	2.68E-02
1706	361000	3800200	8.37E-01	3.35E-02	1.21E-01	1.35E-02	1.21E-01	1.35E-02	1.05E+00	4.25E-01	2.23E+00	1.21E+00	2.49E-02
1707	361050	3800200	7.76E-01	3.17E-02	1.11E-01	1.27E-02	1.11E-01	1.27E-02	9.74E-01	3.87E-01	2.07E+00	1.09E+00	2.31E-02
1708	361100	3800200	7.19E-01	3.01E-02	1.01E-01	1.21E-02	1.01E-01	1.21E-02	9.02E-01	3.54E-01	1.92E+00	1.02E+00	2.14E-02
1709	361150	3800200	6.65E-01	2.87E-02	9.31E-02	1.15E-02	9.31E-02	1.15E-02	8.34E-01	3.25E-01	1.77E+00	9.65E-01	1.98E-02
1710	361200	3800200	6.15E-01	2.74E-02	8.60E-02	1.10E-02	8.60E-02	1.10E-02	7.72E-01	3.00E-01	1.64E+00	9.15E-01	1.83E-02
1711	361250	3800200	5.69E-01	2.62E-02	8.05E-02	1.06E-02	8.05E-02	1.06E-02	7.14E-01	2.83E-01	1.52E+00	8.67E-01	1.70E-02
1712	361300	3800200	5.28E-01	2.52E-02	7.66E-02	1.02E-02	7.66E-02	1.02E-02	6.61E-01	2.69E-01	1.41E+00	8.21E-01	1.57E-02
1713	361350	3800200	5.02E-01	2.45E-02	7.29E-02	9.84E-03	7.29E-02	9.84E-03	6.28E-01	2.56E-01	1.34E+00	7.78E-01	1.50E-02
1714	361400	3800200	4.77E-01	2.39E-02	6.95E-02	9.59E-03	6.95E-02	9.59E-03	5.97E-01	2.43E-01	1.27E+00	7.38E-01	1.42E-02
1715	361450	3800200	4.54E-01	2.34E-02	6.64E-02	9.37E-03	6.64E-02	9.37E-03	5.68E-01	2.32E-01	1.21E+00	7.01E-01	1.35E-02
1716	361500	3800200	4.32E-01	2.29E-02	6.34E-02	9.18E-03	6.34E-02	9.18E-03	5.40E-01	2.22E-01	1.15E+00	6.66E-01	1.29E-02
1717	361550	3800200	4.11E-01	2.26E-02	6.07E-02	9.03E-03	6.07E-02	9.03E-03	5.14E-01	2.12E-01	1.10E+00	6.33E-01	1.22E-02
1718	361600	3800200	3.91E-01	2.22E-02	5.81E-02	8.90E-03	5.81E-02	8.90E-03	4.89E-01	2.03E-01	1.04E+00	6.02E-01	1.17E-02
1719	358500	3800250	2.86E-01	3.23E-02	2.82E-02	1.11E-02	2.82E-02	1.11E-02	3.56E-01	8.99E-02	7.62E-01	2.12E-01	8.51E-03
1720	358550	3800250	2.97E-01	3.30E-02	2.82E-02	1.13E-02	2.82E-02	1.13E-02	3.70E-01	9.01E-02	7.91E-01	2.17E-01	8.84E-03
1721	358600	3800250	3.08E-01	3.38E-02	2.86E-02	1.16E-02	2.86E-02	1.16E-02	3.85E-01	9.04E-02	8.22E-01	2.23E-01	9.19E-03
1722	358650	3800250	3.21E-01	3.44E-02	2.90E-02	1.18E-02	2.90E-02	1.18E-02	4.00E-01	9.13E-02	8.55E-01	2.30E-01	9.56E-03
1723	358700	3800250	3.34E-01	3.51E-02	2.94E-02	1.20E-02	2.94E-02	1.20E-02	4.17E-01	9.29E-02	8.90E-01	2.37E-01	9.94E-03
1724	358750	3800250	3.50E-01	3.57E-02	2.98E-02	1.22E-02	2.98E-02	1.22E-02	4.38E-01	9.45E-02	9.33E-01	2.44E-01	1.04E-02
1725	358800	3800250	3.70E-01	3.63E-02	3.08E-02	1.24E-02	3.08E-02	1.24E-02	4.63E-01	9.95E-02	9.87E-01	2.53E-01	1.10E-02
1726	358850	3800250	3.92E-01	3.80E-02	3.35E-02	1.31E-02	3.35E-02	1.31E-02	4.91E-01	1.06E-01	1.05E+00	2.63E-01	1.17E-02
1727	358900	3800250	4.16E-01	4.17E-02	3.93E-02	1.45E-02	3.93E-02	1.45E-02	5.20E-01	1.26E-01	1.11E+00	2.91E-01	1.24E-02
1728	358950	3800250	4.61E-01	4.70E-02	5.67E-02	1.66E-02	5.67E-02	1.66E-02	5.77E-01	1.89E-01	1.23E+00	5.55E-01	1.38E-02
1729	361000	3800250	8.20E-01	3.33E-02	1.11E-01	1.34E-02	1.11E-01	1.34E-02	1.03E+00	3.91E-01	2.19E+00	1.20E+00	2.44E-02
1730	361050	3800250	7.68E-01	3.15E-02	1.05E-01	1.27E-02	1.05E-01	1.27E-02	9.63E-01	3.69E-01	2.05E+00	1.13E+00	2.29E-02
1731	361100	3800250	7.20E-01	2.99E-02	9.89E-02	1.20E-02	9.89E-02	1.20E-02	9.03E-01	3.48E-01	1.92E+00	1.06E+00	2.15E-02
1732	361150	3800250	6.75E-01	2.85E-02	9.33E-02	1.14E-02	9.33E-02	1.14E-02	8.46E-01	3.28E-01	1.80E+00	9.99E-01	2.01E-02
1733	361200	3800250	6.33E-01	2.72E-02	8.81E-02	1.09E-02	8.81E-02	1.09E-02	7.94E-01	3.09E-01	1.69E+00	9.39E-01	1.89E-02
1734	361250	3800250	5.95E-01	2.60E-02	8.32E-02	1.05E-02	8.32E-02	1.05E-02	7.45E-01	2.92E-01	1.59E+00	8.86E-01	1.77E-02
1735	361300	3800250	5.60E-01	2.51E-02	7.87E-02	1.01E-02	7.87E-02	1.01E-02	7.01E-01	2.76E-01	1.49E+00	8.41E-01	1.67E-02
1736	361350	3800250	5.27E-01	2.43E-02	7.49E-02	9.76E-03	7.49E-02	9.76E-03	6.60E-01	2.63E-01	1.41E+00	7.98E-01	1.57E-02
1737	361400	3800250	4.97E-01	2.37E-02	7.16E-02	9.50E-03	7.16E-02	9.50E-03	6.22E-01	2.51E-01	1.32E+00	7.59E-01	1.48E-02
1738	361450	3800250	4.69E-01	2.32E-02	6.86E-02	9.29E-03	6.86E-02	9.29E-03	5.87E-01	2.40E-01	1.25E+00	7.23E-01	1.40E-02
1739	361500	3800250	4.43E-01	2.28E-02	6.58E-02	9.11E-03	6.58E-02	9.11E-03	5.55E-01	2.30E-01	1.18E+00	6.89E-01	1.32E-02
1740	361550	3800250	4.20E-01	2.24E-02	6.32E-02	8.97E-03	6.32E-02	8.97E-03	5.25E-01	2.21E-01	1.12E+00	6.57E-01	1.25E-02
1741	358500	3800300	2.97E-01	3.28E-02	2.94E-02	1.13E-02	2.94E-02	1.13E-02	3.70E-01	9.11E-02	7.91E-01	2.33E-01	8.84E-03
1742	358550	3800300	3.09E-01	3.34E-02	2.94E-02	1.15E-02	2.94E-02	1.15E-02	3.86E-01	9.09E-02	8.24E-01	2.40E-01	9.21E-03
1743	358600	3800300	3.22E-01	3.41E-02	2.94E-02	1.17E-02	2.94E-02	1.17E-02	4.02E-01	9.15E-02	8.59E-01	2.47E-01	9.59E-03
1744	358650	3800300	3.36E-01	3.47E-02	2.95E-02	1.19E-02	2.95E-02	1.19E-02	4.19E-01	9.32E-02	8.96E-01	2.55E-01	1.00E-02
1745	358700	3800300	3.51E-01	3.53E-02	2.99E-02	1.21E-02	2.99E-02	1.21E-02	4.38E-01	9.49E-02	9.35E-01	2.64E-01	1.05E-02
1746	358750	3800300	3.66E-01	3.58E-02	3.04E-02	1.23E-02	3.04E-02	1.23E-02	4.58E-01	9.68E-02	9.77E-01	2.73E-01	1.09E-02
1747	358800	3800300	3.83E-01	3.64E-02	3.09E-02	1.25E-02	3.09E-02	1.25E-02	4.79E-01	9.87E-02	1.02E+00	2.82E-01	1.14E-02
1748	358850	3800300	4.02E-01	3.84E-02	3.42E-02	1.34E-02	3.42E-02	1.34E-02	5.02E-01	1.09E-01	1.07E+00	2.93E-01	1.20E-02
1749	358900	3800300	4.29E-01	4.27E-02	4.44E-02	1.50E-02	4.44E-02	1.50E-02	5.37E-01	1.45E-01	1.14E+00	3.27E-01	1.28E-02
1750	358950	3800300	4.95E-01	4.93E-02	6.52E-02	1.77E-02	6.52E-02	1.77E-02	6.20E-01	2.20E-01	1.32E+00	5.62E-01	1.48E-02
1751	360950	3800300	9.26E-01	3.49E-02	1.30E-01	1.41E-02	1.30E-01	1.41E-02	1.16E+00	4.63E-01	2.47E+00	1.42E+00	2.76E-02
1752	361000	3800300	8.58E-01	3.29E-02	1.23E-01	1.33E-02	1.23E-01	1.33E-02	1.08E+00	4.35E-01	2.29E+00	1.33E+00	2.56E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1753	361050	3800300	7.93E-01	3.11E-02	1.15E-01	1.25E-02	1.15E-01	1.25E-02	9.95E-01	4.09E-01	2.12E+00	1.25E+00	2.36E-02
1754	361100	3800300	7.36E-01	2.96E-02	1.09E-01	1.19E-02	1.09E-01	1.19E-02	9.22E-01	3.84E-01	1.96E+00	1.17E+00	2.19E-02
1755	361150	3800300	6.83E-01	2.81E-02	1.02E-01	1.13E-02	1.02E-01	1.13E-02	8.57E-01	3.62E-01	1.82E+00	1.10E+00	2.04E-02
1756	361200	3800300	6.37E-01	2.69E-02	9.68E-02	1.08E-02	9.68E-02	1.08E-02	7.98E-01	3.41E-01	1.70E+00	1.03E+00	1.90E-02
1757	361250	3800300	5.94E-01	2.58E-02	9.15E-02	1.04E-02	9.15E-02	1.04E-02	7.44E-01	3.22E-01	1.58E+00	9.71E-01	1.77E-02
1758	361300	3800300	5.56E-01	2.49E-02	8.67E-02	9.98E-03	8.67E-02	9.98E-03	6.96E-01	3.05E-01	1.48E+00	9.15E-01	1.66E-02
1759	361350	3800300	5.21E-01	2.41E-02	8.23E-02	9.66E-03	8.23E-02	9.66E-03	6.52E-01	2.89E-01	1.39E+00	8.64E-01	1.55E-02
1760	361400	3800300	4.89E-01	2.35E-02	7.83E-02	9.40E-03	7.83E-02	9.40E-03	6.12E-01	2.74E-01	1.30E+00	8.18E-01	1.46E-02
1761	361450	3800300	4.60E-01	2.30E-02	7.47E-02	9.21E-03	7.47E-02	9.21E-03	5.76E-01	2.61E-01	1.23E+00	7.75E-01	1.37E-02
1762	361500	3800300	4.34E-01	2.26E-02	7.13E-02	9.04E-03	7.13E-02	9.04E-03	5.43E-01	2.49E-01	1.16E+00	7.36E-01	1.29E-02
1763	361550	3800300	4.10E-01	2.22E-02	6.82E-02	8.89E-03	6.82E-02	8.89E-03	5.12E-01	2.38E-01	1.09E+00	6.99E-01	1.22E-02
1764	358500	3800350	2.98E-01	3.32E-02	3.07E-02	1.15E-02	3.07E-02	1.15E-02	3.72E-01	9.61E-02	7.95E-01	2.53E-01	8.88E-03
1765	358550	3800350	3.11E-01	3.38E-02	3.07E-02	1.17E-02	3.07E-02	1.17E-02	3.88E-01	9.59E-02	8.28E-01	2.61E-01	9.25E-03
1766	358600	3800350	3.24E-01	3.44E-02	3.07E-02	1.19E-02	3.07E-02	1.19E-02	4.04E-01	9.57E-02	8.64E-01	2.70E-01	9.65E-03
1767	358650	3800350	3.38E-01	3.50E-02	3.06E-02	1.21E-02	3.06E-02	1.21E-02	4.22E-01	9.54E-02	9.02E-01	2.79E-01	1.01E-02
1768	358700	3800350	3.54E-01	3.55E-02	3.05E-02	1.23E-02	3.05E-02	1.23E-02	4.42E-01	9.66E-02	9.43E-01	2.89E-01	1.05E-02
1769	358750	3800350	3.70E-01	3.60E-02	3.22E-02	1.25E-02	3.22E-02	1.25E-02	4.62E-01	1.02E-01	9.86E-01	3.00E-01	1.10E-02
1770	358800	3800350	3.87E-01	3.65E-02	3.28E-02	1.27E-02	3.28E-02	1.27E-02	4.84E-01	1.04E-01	1.03E+00	3.11E-01	1.16E-02
1771	358850	3800350	4.06E-01	3.81E-02	3.53E-02	1.34E-02	3.53E-02	1.34E-02	5.08E-01	1.13E-01	1.08E+00	3.24E-01	1.21E-02
1772	358900	3800350	4.36E-01	4.35E-02	4.74E-02	1.55E-02	4.74E-02	1.55E-02	5.46E-01	1.57E-01	1.16E+00	3.39E-01	1.30E-02
1773	358950	3800350	5.38E-01	5.21E-02	7.47E-02	1.91E-02	7.47E-02	1.91E-02	6.74E-01	2.54E-01	1.43E+00	5.79E-01	1.60E-02
1774	360900	3800350	9.58E-01	3.65E-02	1.54E-01	1.47E-02	1.54E-01	1.47E-02	1.20E+00	5.48E-01	2.55E+00	1.67E+00	2.85E-02
1775	360950	3800350	8.98E-01	3.43E-02	1.44E-01	1.38E-02	1.44E-01	1.38E-02	1.13E+00	5.10E-01	2.39E+00	1.55E+00	2.68E-02
1776	361000	3800350	8.42E-01	3.24E-02	1.34E-01	1.31E-02	1.34E-01	1.31E-02	1.06E+00	4.75E-01	2.24E+00	1.44E+00	2.51E-02
1777	361050	3800350	7.89E-01	3.07E-02	1.26E-01	1.24E-02	1.26E-01	1.24E-02	9.90E-01	4.44E-01	2.10E+00	1.34E+00	2.35E-02
1778	361100	3800350	7.39E-01	2.91E-02	1.18E-01	1.17E-02	1.18E-01	1.17E-02	9.26E-01	4.15E-01	1.97E+00	1.25E+00	2.20E-02
1779	361150	3800350	6.89E-01	2.77E-02	1.10E-01	1.12E-02	1.10E-01	1.12E-02	8.64E-01	3.89E-01	1.84E+00	1.17E+00	2.05E-02
1780	361200	3800350	6.45E-01	2.66E-02	1.04E-01	1.07E-02	1.04E-01	1.07E-02	8.08E-01	3.66E-01	1.72E+00	1.09E+00	1.92E-02
1781	361250	3800350	6.05E-01	2.55E-02	9.79E-02	1.02E-02	9.79E-02	1.02E-02	7.58E-01	3.44E-01	1.61E+00	1.03E+00	1.80E-02
1782	361300	3800350	5.68E-01	2.46E-02	9.24E-02	9.85E-03	9.24E-02	9.85E-03	7.12E-01	3.24E-01	1.51E+00	9.65E-01	1.69E-02
1783	361350	3800350	5.35E-01	2.39E-02	8.75E-02	9.53E-03	8.75E-02	9.53E-03	6.70E-01	3.07E-01	1.43E+00	9.08E-01	1.59E-02
1784	361400	3800350	5.05E-01	2.33E-02	8.31E-02	9.30E-03	8.31E-02	9.30E-03	6.32E-01	2.91E-01	1.35E+00	8.57E-01	1.50E-02
1785	361450	3800350	4.77E-01	2.28E-02	7.91E-02	9.11E-03	7.91E-02	9.11E-03	5.97E-01	2.77E-01	1.27E+00	8.10E-01	1.42E-02
1786	361500	3800350	4.52E-01	2.24E-02	7.54E-02	8.94E-03	7.54E-02	8.94E-03	5.65E-01	2.63E-01	1.20E+00	7.67E-01	1.35E-02
1787	358500	3800400	2.93E-01	3.37E-02	3.21E-02	1.18E-02	3.21E-02	1.18E-02	3.66E-01	1.01E-01	7.81E-01	2.71E-01	8.73E-03
1788	358550	3800400	3.08E-01	3.42E-02	3.21E-02	1.20E-02	3.21E-02	1.20E-02	3.85E-01	1.01E-01	8.20E-01	2.80E-01	9.17E-03
1789	358600	3800400	3.23E-01	3.48E-02	3.20E-02	1.22E-02	3.20E-02	1.22E-02	4.05E-01	1.01E-01	8.62E-01	2.90E-01	9.63E-03
1790	358650	3800400	3.40E-01	3.53E-02	3.20E-02	1.24E-02	3.20E-02	1.24E-02	4.26E-01	1.00E-01	9.07E-01	3.00E-01	1.01E-02
1791	358700	3800400	3.59E-01	3.58E-02	3.21E-02	1.25E-02	3.21E-02	1.25E-02	4.49E-01	1.03E-01	9.56E-01	3.12E-01	1.07E-02
1792	358750	3800400	3.78E-01	3.68E-02	3.59E-02	1.30E-02	3.59E-02	1.30E-02	4.74E-01	1.15E-01	1.01E+00	3.24E-01	1.13E-02
1793	358800	3800400	3.99E-01	4.08E-02	4.26E-02	1.46E-02	4.26E-02	1.46E-02	5.00E-01	1.38E-01	1.07E+00	3.37E-01	1.19E-02
1794	358850	3800400	4.22E-01	4.37E-02	4.87E-02	1.57E-02	4.87E-02	1.57E-02	5.29E-01	1.61E-01	1.13E+00	3.53E-01	1.26E-02
1795	358900	3800400	4.85E-01	4.89E-02	6.36E-02	1.79E-02	6.36E-02	1.79E-02	6.07E-01	2.14E-01	1.29E+00	5.08E-01	1.44E-02
1796	358950	3800400	6.13E-01	5.64E-02	8.51E-02	2.11E-02	8.51E-02	2.11E-02	7.68E-01	2.90E-01	1.63E+00	7.49E-01	1.83E-02
1797	360800	3800400	1.11E+00	4.05E-02	1.81E-01	1.64E-02	1.81E-01	1.64E-02	1.39E+00	6.39E-01	2.95E+00	1.98E+00	3.30E-02
1798	360850	3800400	1.03E+00	3.80E-02	1.69E-01	1.53E-02	1.69E-01	1.53E-02	1.29E+00	5.96E-01	2.74E+00	1.84E+00	3.06E-02
1799	360900	3800400	9.54E-01	3.56E-02	1.58E-01	1.44E-02	1.58E-01	1.44E-02	1.20E+00	5.56E-01	2.54E+00	1.70E+00	2.84E-02
1800	360950	3800400	8.94E-01	3.36E-02	1.47E-01	1.35E-02	1.47E-01	1.35E-02	1.12E+00	5.18E-01	2.38E+00	1.58E+00	2.66E-02
1801	361000	3800400	8.40E-01	3.17E-02	1.38E-01	1.28E-02	1.38E-01	1.28E-02	1.05E+00	4.84E-01	2.24E+00	1.47E+00	2.50E-02
1802	361050	3800400	7.89E-01	3.00E-02	1.29E-01	1.21E-02	1.29E-01	1.21E-02	9.90E-01	4.53E-01	2.10E+00	1.37E+00	2.35E-02
1803	361100	3800400	7.40E-01	2.86E-02	1.21E-01	1.15E-02	1.21E-01	1.15E-02	9.28E-01	4.24E-01	1.97E+00	1.27E+00	2.20E-02
1804	361150	3800400	6.91E-01	2.72E-02	1.13E-01	1.10E-02	1.13E-01	1.10E-02	8.67E-01	3.98E-01	1.84E+00	1.19E+00	2.06E-02
1805	361200	3800400	6.48E-01	2.61E-02	1.07E-01	1.05E-02	1.07E-01	1.05E-02	8.12E-01	3.74E-01	1.73E+00	1.12E+00	1.93E-02
1806	361250	3800400	6.08E-01	2.51E-02	1.01E-01	1.01E-02	1.01E-01	1.01E-02	7.62E-01	3.52E-01	1.62E+00	1.05E+00	1.81E-02
1807	361300	3800400	5.72E-01	2.43E-02	9.49E-02	9.68E-03	9.49E-02	9.68E-03	7.16E-01	3.32E-01	1.52E+00	9.83E-01	1.70E-02
1808	361350	3800400	5.39E-01	2.35E-02	8.99E-02	9.39E-03	8.99E-02	9.39E-03	6.74E-01	3.15E-01	1.44E+00	9.25E-01	1.61E-02
1809	361400	3800400	5.08E-01	2.30E-02	8.54E-02	9.17E-03	8.54E-02	9.17E-03	6.37E-01	2.98E-01	1.36E+00	8.72E-01	1.52E-02
1810	361450	3800400	4.81E-01	2.25E-02	8.12E-02	8.99E-03	8.12E-02	8.99E-03	6.02E-01	2.84E-01	1.28E+00	8.24E-01	1.43E-02
1811	358500	3800450	3.44E-01	3.42E-02	3.35E-02	1.21E-02	3.35E-02	1.21E-02	4.30E-01	1.08E-01	9.18E-01	2.87E-01	1.03E-02
1812	358550	3800450	3.63E-01	3.47E-02	3.34E-02	1.22E-02	3.34E-02	1.22E-02	4.54E-01	1.11E-01	9.67E-01	2.97E-01	1.08E-02
1813	358600	3800450	3.83E-01	3.52E-02	3.37E-02	1.24E-02	3.37E-02	1.24E-02	4.79E-01	1.15E-01	1.02E+00	3.07E-01	1.14E-02
1814	358650	3800450	4.05E-01	3.58E-02	3.48E-02	1.26E-02	3.48E-02	1.26E-02	5.06E-01	1.19E-01	1.08E+00	3.18E-01	1.21E-02
1815	358700	3800450	4.28E-01	3.63E-02	3.60E-02	1.28E-02	3.60E-02	1.28E-02	5.36E-01	1.23E-01	1.14E+00	3.31E-01	1.28E-02
1816	358750	3800450	4.54E-01	3.74E-02	3.80E-02	1.34E-02	3.80E-02	1.34E-02	5.68E-01	1.30E-01	1.21E+00	3.44E-01	1.35E-02
1817	358800	3800450	4.81E-01	4.37E-02	4.97E-02	1.58E-02	4.97E-02	1.58E-02	6.03E-01	1.64E-01	1.28E+00	3.70E-01	1.43E-02
1818	358850	3800450	5.12E-01	5.11E-02	6.81E-02	1.89E-02	6.81E-02	1.89E-02	6.41E-01	2.31E-01	1.36E+00	6.09E-01	1.52E-02
1819	358900	3800450	5.86E-01	5.75E-02	8.50E-02	2.16E-02	8.50E-02	2.16E-02	7.34E-01	2.90E-01	1.56E+00	8.08E-01	1.75E-02
1820	358950	3800450	6.20E-01	6.09E-02	9.45E-02	2.31E-02	9.45E-02	2.31E-02	7.77E-01	3.23E-01	1.65E+00	9.05E-01	1.85E-02
1821	360800	3800450	1.08E+00	3.90E-02	1.64E-01	1.58E-02	1.64E-01	1.58E-02	1.36E+00	5.73E-01	2.88E+00	1.82E+00	3.22E-02
1822	360850	3800450	1.01E+00	3.66E-02	1.56E-01	1.48E-02	1.56E-01	1.48E-02	1.27E+00	5.45E-01	2.70E+00	1.71E+00	3.02E-02
1823	360900	3800450	9.46E-01	3.45E-02	1.47E-01	1.39E-02	1.47E-01	1.39E-02	1.19E+00	5.16E-01	2.52E+00	1.60E+00	2.82E-02
1824	360950	3800450	8.78E-01	3.26E-02	1.39E-01	1.31E-02	1.39E-01	1.31E-02	1.10E+00	4.87E-01	2.34E+00	1.50E+00	2.62E-02
1825	361000	3800450	8.16E-01	3.08E-02	1.31E-01	1.24E-02	1.31E-01	1.24E-02	1.02E+00	4.60E-01	2.18E+00	1.41E+00	2.43E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1826	361050	3800450	7.58E-01	2.93E-02	1.24E-01	1.18E-02	1.24E-01	1.18E-02	9.50E-01	4.34E-01	2.02E+00	1.32E+00	2.26E-02
1827	361100	3800450	7.03E-01	2.79E-02	1.17E-01	1.12E-02	1.17E-01	1.12E-02	8.81E-01	4.09E-01	1.87E+00	1.24E+00	2.09E-02
1828	361150	3800450	6.53E-01	2.66E-02	1.10E-01	1.07E-02	1.10E-01	1.07E-02	8.18E-01	3.86E-01	1.74E+00	1.16E+00	1.95E-02
1829	361200	3800450	6.07E-01	2.56E-02	1.04E-01	1.03E-02	1.04E-01	1.03E-02	7.61E-01	3.65E-01	1.62E+00	1.09E+00	1.81E-02
1830	361250	3800450	5.68E-01	2.46E-02	9.88E-02	9.84E-03	9.88E-02	9.84E-03	7.12E-01	3.45E-01	1.51E+00	1.03E+00	1.69E-02
1831	361300	3800450	5.33E-01	2.38E-02	9.37E-02	9.50E-03	9.37E-02	9.50E-03	6.68E-01	3.27E-01	1.42E+00	9.66E-01	1.59E-02
1832	361350	3800450	5.05E-01	2.31E-02	8.90E-02	9.23E-03	8.90E-02	9.23E-03	6.33E-01	3.11E-01	1.35E+00	9.12E-01	1.51E-02
1833	361400	3800450	4.80E-01	2.26E-02	8.48E-02	9.02E-03	8.48E-02	9.02E-03	6.01E-01	2.96E-01	1.28E+00	8.62E-01	1.43E-02
1834	358450	3800500	3.74E-01	3.42E-02	3.58E-02	1.22E-02	3.58E-02	1.22E-02	4.68E-01	1.22E-01	9.97E-01	2.90E-01	1.11E-02
1835	358500	3800500	3.95E-01	3.47E-02	3.67E-02	1.23E-02	3.67E-02	1.23E-02	4.93E-01	1.25E-01	1.05E+00	3.00E-01	1.18E-02
1836	358550	3800500	4.17E-01	3.52E-02	3.78E-02	1.25E-02	3.78E-02	1.25E-02	5.21E-01	1.29E-01	1.11E+00	3.15E-01	1.24E-02
1837	358600	3800500	4.41E-01	3.58E-02	3.90E-02	1.27E-02	3.90E-02	1.27E-02	5.51E-01	1.33E-01	1.18E+00	3.32E-01	1.31E-02
1838	358650	3800500	4.67E-01	3.63E-02	4.04E-02	1.29E-02	4.04E-02	1.29E-02	5.84E-01	1.38E-01	1.24E+00	3.49E-01	1.39E-02
1839	358700	3800500	4.95E-01	3.68E-02	4.19E-02	1.31E-02	4.19E-02	1.31E-02	6.20E-01	1.44E-01	1.32E+00	3.68E-01	1.48E-02
1840	358750	3800500	5.26E-01	4.07E-02	4.71E-02	1.48E-02	4.71E-02	1.48E-02	6.58E-01	1.62E-01	1.40E+00	3.89E-01	1.57E-02
1841	358800	3800500	5.59E-01	4.77E-02	5.98E-02	1.76E-02	5.98E-02	1.76E-02	7.00E-01	1.99E-01	1.49E+00	4.88E-01	1.67E-02
1842	358850	3800500	5.96E-01	5.11E-02	6.66E-02	1.91E-02	6.66E-02	1.91E-02	7.46E-01	2.24E-01	1.59E+00	5.78E-01	1.78E-02
1843	358900	3800500	6.36E-01	5.68E-02	7.88E-02	2.15E-02	7.88E-02	2.15E-02	7.97E-01	2.73E-01	1.70E+00	7.37E-01	1.90E-02
1844	358950	3800500	6.79E-01	6.37E-02	9.61E-02	2.45E-02	9.61E-02	2.45E-02	8.51E-01	3.33E-01	1.81E+00	9.28E-01	2.02E-02
1845	360700	3800500	1.26E+00	4.17E-02	1.80E-01	1.69E-02	1.80E-01	1.69E-02	1.58E+00	6.32E-01	3.36E+00	1.81E+00	3.75E-02
1846	360750	3800500	1.17E+00	3.93E-02	1.73E-01	1.59E-02	1.73E-01	1.59E-02	1.47E+00	6.08E-01	3.13E+00	1.68E+00	3.50E-02
1847	360800	3800500	1.08E+00	3.71E-02	1.62E-01	1.50E-02	1.62E-01	1.50E-02	1.36E+00	5.73E-01	2.89E+00	1.56E+00	3.23E-02
1848	360850	3800500	1.00E+00	3.50E-02	1.51E-01	1.41E-02	1.51E-01	1.41E-02	1.26E+00	5.34E-01	2.68E+00	1.46E+00	2.99E-02
1849	360900	3800500	9.25E-01	3.31E-02	1.40E-01	1.33E-02	1.40E-01	1.33E-02	1.16E+00	4.94E-01	2.47E+00	1.40E+00	2.76E-02
1850	360950	3800500	8.49E-01	3.13E-02	1.29E-01	1.26E-02	1.29E-01	1.26E-02	1.06E+00	4.55E-01	2.26E+00	1.33E+00	2.53E-02
1851	361000	3800500	8.02E-01	2.98E-02	1.18E-01	1.20E-02	1.18E-01	1.20E-02	1.01E+00	4.18E-01	2.14E+00	1.27E+00	2.39E-02
1852	361050	3800500	7.57E-01	2.83E-02	1.12E-01	1.14E-02	1.12E-01	1.14E-02	9.50E-01	3.91E-01	2.02E+00	1.20E+00	2.26E-02
1853	361100	3800500	7.13E-01	2.70E-02	1.07E-01	1.09E-02	1.07E-01	1.09E-02	8.94E-01	3.73E-01	1.90E+00	1.14E+00	2.12E-02
1854	361150	3800500	6.70E-01	2.59E-02	1.02E-01	1.04E-02	1.02E-01	1.04E-02	8.40E-01	3.56E-01	1.79E+00	1.08E+00	2.00E-02
1855	361200	3800500	6.30E-01	2.49E-02	9.76E-02	9.97E-03	9.76E-02	9.97E-03	7.90E-01	3.40E-01	1.68E+00	1.02E+00	1.88E-02
1856	361250	3800500	5.92E-01	2.41E-02	9.31E-02	9.59E-03	9.31E-02	9.59E-03	7.42E-01	3.24E-01	1.58E+00	9.69E-01	1.77E-02
1857	361300	3800500	5.57E-01	2.33E-02	8.89E-02	9.28E-03	8.89E-02	9.28E-03	6.98E-01	3.10E-01	1.49E+00	9.18E-01	1.66E-02
1858	361350	3800500	5.24E-01	2.27E-02	8.51E-02	9.03E-03	8.51E-02	9.03E-03	6.57E-01	2.96E-01	1.40E+00	8.71E-01	1.56E-02
1859	361400	3800500	4.94E-01	2.22E-02	8.15E-02	8.84E-03	8.15E-02	8.84E-03	6.19E-01	2.83E-01	1.32E+00	8.27E-01	1.47E-02
1860	358450	3800550	4.18E-01	3.48E-02	4.03E-02	1.25E-02	4.03E-02	1.25E-02	5.23E-01	1.37E-01	1.11E+00	3.20E-01	1.25E-02
1861	358500	3800550	4.41E-01	3.53E-02	4.15E-02	1.27E-02	4.15E-02	1.27E-02	5.52E-01	1.42E-01	1.18E+00	3.37E-01	1.32E-02
1862	358550	3800550	4.67E-01	3.59E-02	4.27E-02	1.28E-02	4.27E-02	1.28E-02	5.84E-01	1.46E-01	1.24E+00	3.54E-01	1.39E-02
1863	358600	3800550	4.94E-01	3.64E-02	4.42E-02	1.30E-02	4.42E-02	1.30E-02	6.18E-01	1.52E-01	1.32E+00	3.73E-01	1.47E-02
1864	358650	3800550	5.24E-01	3.88E-02	4.81E-02	1.41E-02	4.81E-02	1.41E-02	6.55E-01	1.65E-01	1.40E+00	3.93E-01	1.56E-02
1865	358700	3800550	5.56E-01	4.13E-02	5.21E-02	1.51E-02	5.21E-02	1.51E-02	6.95E-01	1.79E-01	1.48E+00	4.15E-01	1.66E-02
1866	358750	3800550	5.91E-01	4.50E-02	5.80E-02	1.66E-02	5.80E-02	1.66E-02	7.39E-01	2.00E-01	1.57E+00	4.38E-01	1.76E-02
1867	358800	3800550	6.28E-01	4.72E-02	6.29E-02	1.76E-02	6.29E-02	1.76E-02	7.87E-01	2.17E-01	1.68E+00	4.64E-01	1.87E-02
1868	358850	3800550	6.69E-01	4.80E-02	6.58E-02	1.79E-02	6.58E-02	1.79E-02	8.38E-01	2.27E-01	1.79E+00	4.92E-01	2.00E-02
1869	358900	3800550	7.14E-01	5.46E-02	7.80E-02	2.07E-02	7.80E-02	2.07E-02	8.95E-01	2.69E-01	1.90E+00	5.97E-01	2.13E-02
1870	358950	3800550	7.63E-01	6.21E-02	9.22E-02	2.39E-02	9.22E-02	2.39E-02	9.56E-01	3.19E-01	2.03E+00	7.66E-01	2.27E-02
1871	360700	3800550	1.20E+00	3.95E-02	1.56E-01	1.59E-02	1.56E-01	1.59E-02	1.50E+00	5.48E-01	3.19E+00	1.67E+00	3.57E-02
1872	360750	3800550	1.12E+00	3.73E-02	1.54E-01	1.49E-02	1.54E-01	1.49E-02	1.40E+00	5.34E-01	2.98E+00	1.58E+00	3.33E-02
1873	360800	3800550	1.07E+00	3.52E-02	1.50E-01	1.41E-02	1.50E-01	1.41E-02	1.35E+00	5.25E-01	2.86E+00	1.49E+00	3.19E-02
1874	360850	3800550	1.01E+00	3.32E-02	1.45E-01	1.33E-02	1.45E-01	1.33E-02	1.27E+00	5.06E-01	2.70E+00	1.40E+00	3.02E-02
1875	360900	3800550	9.45E-01	3.15E-02	1.38E-01	1.27E-02	1.38E-01	1.27E-02	1.19E+00	4.83E-01	2.52E+00	1.31E+00	2.82E-02
1876	360950	3800550	8.79E-01	3.00E-02	1.30E-01	1.20E-02	1.30E-01	1.20E-02	1.10E+00	4.55E-01	2.34E+00	1.22E+00	2.62E-02
1877	361000	3800550	8.23E-01	2.86E-02	1.21E-01	1.15E-02	1.21E-01	1.15E-02	1.03E+00	4.26E-01	2.19E+00	1.14E+00	2.45E-02
1878	361050	3800550	7.67E-01	2.73E-02	1.13E-01	1.09E-02	1.13E-01	1.09E-02	9.62E-01	3.97E-01	2.04E+00	1.07E+00	2.28E-02
1879	361100	3800550	7.11E-01	2.61E-02	1.05E-01	1.05E-02	1.05E-01	1.05E-02	8.92E-01	3.68E-01	1.90E+00	1.01E+00	2.12E-02
1880	361150	3800550	6.58E-01	2.51E-02	9.70E-02	1.01E-02	9.70E-02	1.01E-02	8.26E-01	3.42E-01	1.76E+00	9.61E-01	1.96E-02
1881	361200	3800550	6.09E-01	2.42E-02	8.98E-02	9.66E-03	8.98E-02	9.66E-03	7.63E-01	3.16E-01	1.62E+00	9.21E-01	1.81E-02
1882	361250	3800550	5.70E-01	2.34E-02	8.43E-02	9.32E-03	8.43E-02	9.32E-03	7.14E-01	2.93E-01	1.52E+00	8.81E-01	1.70E-02
1883	361300	3800550	5.43E-01	2.27E-02	8.13E-02	9.04E-03	8.13E-02	9.04E-03	6.80E-01	2.82E-01	1.45E+00	8.43E-01	1.62E-02
1884	361350	3800550	5.17E-01	2.22E-02	7.85E-02	8.82E-03	7.85E-02	8.82E-03	6.48E-01	2.72E-01	1.38E+00	8.06E-01	1.54E-02
1885	358450	3800600	4.57E-01	3.55E-02	4.46E-02	1.28E-02	4.46E-02	1.28E-02	5.71E-01	1.52E-01	1.22E+00	3.52E-01	1.36E-02
1886	358500	3800600	4.83E-01	3.60E-02	4.59E-02	1.30E-02	4.59E-02	1.30E-02	6.03E-01	1.57E-01	1.29E+00	3.70E-01	1.44E-02
1887	358550	3800600	5.10E-01	3.65E-02	4.73E-02	1.32E-02	4.73E-02	1.32E-02	6.38E-01	1.62E-01	1.36E+00	3.89E-01	1.52E-02
1888	358600	3800600	5.54E-01	3.70E-02	4.89E-02	1.34E-02	4.89E-02	1.34E-02	6.93E-01	1.68E-01	1.48E+00	4.10E-01	1.65E-02
1889	358650	3800600	5.82E-01	3.76E-02	5.07E-02	1.36E-02	5.07E-02	1.36E-02	7.29E-01	1.74E-01	1.55E+00	4.32E-01	1.73E-02
1890	358700	3800600	6.06E-01	3.91E-02	5.43E-02	1.44E-02	5.43E-02	1.44E-02	7.58E-01	1.87E-01	1.62E+00	4.56E-01	1.81E-02
1891	358750	3800600	6.43E-01	4.02E-02	5.71E-02	1.48E-02	5.71E-02	1.48E-02	8.05E-01	1.97E-01	1.71E+00	4.81E-01	1.92E-02
1892	358800	3800600	6.83E-01	4.24E-02	6.14E-02	1.57E-02	6.14E-02	1.57E-02	8.55E-01	2.12E-01	1.82E+00	5.09E-01	2.04E-02
1893	358850	3800600	7.26E-01	4.81E-02	7.07E-02	1.80E-02	7.07E-02	1.80E-02	9.09E-01	2.44E-01	1.94E+00	5.38E-01	2.16E-02
1894	358900	3800600	7.73E-01	5.64E-02	8.57E-02	2.16E-02	8.57E-02	2.16E-02	9.68E-01	2.96E-01	2.06E+00	6.42E-01	2.30E-02
1895	358950	3800600	8.23E-01	6.03E-02	9.41E-02	2.33E-02	9.41E-02	2.33E-02	1.03E+00	3.25E-01	2.19E+00	7.27E-01	2.45E-02
1896	360600	3800600	1.38E+00	4.18E-02	1.92E-01	1.68E-02	1.92E-01	1.68E-02	1.73E+00	6.74E-01	3.67E+00	2.37E+00	4.10E-02
1897	360650	3800600	1.25E+00	3.96E-02	1.77E-01	1.59E-02	1.77E-01	1.59E-02	1.57E+00	6.27E-01	3.34E+00	2.15E+00	3.73E-02
1898	360700	3800600	1.18E+00	3.76E-02	1.57E-01	1.50E-02	1.57E-01	1.50E-02	1.48E+00	5.58E-01	3.15E+00	1.86E+00	3.52E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1899	360750	3800600	1.09E+00	3.56E-02	1.35E-01	1.42E-02	1.35E-01	1.42E-02	1.37E+00	4.82E-01	2.90E+00	1.58E+00	3.24E-02
1900	360800	3800600	9.80E-01	3.37E-02	1.30E-01	1.35E-02	1.30E-01	1.35E-02	1.23E+00	4.57E-01	2.61E+00	1.39E+00	2.92E-02
1901	360850	3800600	9.44E-01	3.20E-02	1.25E-01	1.27E-02	1.25E-01	1.27E-02	1.18E+00	4.41E-01	2.52E+00	1.32E+00	2.81E-02
1902	360900	3800600	9.00E-01	3.03E-02	1.24E-01	1.21E-02	1.24E-01	1.21E-02	1.13E+00	4.30E-01	2.40E+00	1.23E+00	2.68E-02
1903	360950	3800600	8.52E-01	2.87E-02	1.20E-01	1.14E-02	1.20E-01	1.14E-02	1.07E+00	4.17E-01	2.27E+00	1.16E+00	2.54E-02
1904	361000	3800600	8.06E-01	2.73E-02	1.15E-01	1.09E-02	1.15E-01	1.09E-02	1.01E+00	4.01E-01	2.15E+00	1.10E+00	2.40E-02
1905	361050	3800600	7.52E-01	2.62E-02	1.09E-01	1.05E-02	1.09E-01	1.05E-02	9.43E-01	3.81E-01	2.01E+00	1.04E+00	2.24E-02
1906	361100	3800600	7.12E-01	2.52E-02	1.03E-01	1.01E-02	1.03E-01	1.01E-02	8.93E-01	3.61E-01	1.90E+00	9.80E-01	2.12E-02
1907	361150	3800600	6.72E-01	2.43E-02	9.70E-02	9.67E-03	9.70E-02	9.67E-03	8.43E-01	3.40E-01	1.79E+00	9.24E-01	2.00E-02
1908	361200	3800600	6.31E-01	2.35E-02	9.11E-02	9.33E-03	9.11E-02	9.33E-03	7.91E-01	3.20E-01	1.68E+00	8.71E-01	1.88E-02
1909	361250	3800600	5.91E-01	2.27E-02	8.54E-02	9.03E-03	8.54E-02	9.03E-03	7.41E-01	3.00E-01	1.58E+00	8.25E-01	1.76E-02
1910	361300	3800600	5.53E-01	2.21E-02	8.03E-02	8.78E-03	8.03E-02	8.78E-03	6.93E-01	2.82E-01	1.47E+00	7.81E-01	1.65E-02
1911	358450	3800650	4.89E-01	3.62E-02	4.84E-02	1.32E-02	4.84E-02	1.32E-02	6.12E-01	1.66E-01	1.30E+00	3.80E-01	1.46E-02
1912	358500	3800650	5.16E-01	3.67E-02	4.98E-02	1.33E-02	4.98E-02	1.33E-02	6.45E-01	1.71E-01	1.38E+00	3.99E-01	1.54E-02
1913	358550	3800650	5.44E-01	3.72E-02	5.13E-02	1.36E-02	5.13E-02	1.36E-02	6.81E-01	1.76E-01	1.45E+00	4.19E-01	1.62E-02
1914	358600	3800650	5.85E-01	3.78E-02	5.30E-02	1.38E-02	5.30E-02	1.38E-02	7.32E-01	1.82E-01	1.56E+00	4.41E-01	1.74E-02
1915	358650	3800650	6.39E-01	3.83E-02	5.48E-02	1.40E-02	5.48E-02	1.40E-02	8.00E-01	1.88E-01	1.70E+00	4.64E-01	1.90E-02
1916	358700	3800650	6.76E-01	3.89E-02	5.67E-02	1.42E-02	5.67E-02	1.42E-02	8.46E-01	1.95E-01	1.80E+00	4.89E-01	2.01E-02
1917	358750	3800650	7.13E-01	3.95E-02	5.90E-02	1.45E-02	5.90E-02	1.45E-02	8.94E-01	2.03E-01	1.90E+00	5.15E-01	2.13E-02
1918	358800	3800650	7.25E-01	4.36E-02	6.59E-02	1.63E-02	6.59E-02	1.63E-02	9.09E-01	2.27E-01	1.93E+00	5.43E-01	2.16E-02
1919	358850	3800650	7.62E-01	5.09E-02	7.75E-02	1.94E-02	7.75E-02	1.94E-02	9.54E-01	2.67E-01	2.03E+00	5.75E-01	2.27E-02
1920	358900	3800650	8.07E-01	5.71E-02	8.86E-02	2.20E-02	8.86E-02	2.20E-02	1.01E+00	3.05E-01	2.15E+00	6.43E-01	2.41E-02
1921	360500	3800650	1.50E+00	4.76E-02	1.42E-01	1.93E-02	1.42E-01	1.93E-02	1.88E+00	5.04E-01	3.99E+00	1.79E+00	4.46E-02
1922	360550	3800650	1.54E+00	4.35E-02	1.59E-01	1.76E-02	1.59E-01	1.76E-02	1.93E+00	5.46E-01	4.10E+00	2.07E+00	4.58E-02
1923	360600	3800650	1.41E+00	4.02E-02	1.71E-01	1.62E-02	1.71E-01	1.62E-02	1.78E+00	5.91E-01	3.77E+00	2.17E+00	4.22E-02
1924	360650	3800650	1.22E+00	3.74E-02	1.70E-01	1.50E-02	1.70E-01	1.50E-02	1.53E+00	5.93E-01	3.25E+00	2.12E+00	3.63E-02
1925	360700	3800650	1.15E+00	3.55E-02	1.60E-01	1.42E-02	1.60E-01	1.42E-02	1.44E+00	5.64E-01	3.05E+00	1.96E+00	3.41E-02
1926	360750	3800650	1.05E+00	3.38E-02	1.46E-01	1.35E-02	1.46E-01	1.35E-02	1.32E+00	5.14E-01	2.80E+00	1.76E+00	3.13E-02
1927	360800	3800650	9.84E-01	3.22E-02	1.29E-01	1.28E-02	1.29E-01	1.28E-02	1.23E+00	4.57E-01	2.62E+00	1.53E+00	2.93E-02
1928	360850	3800650	8.94E-01	3.06E-02	1.15E-01	1.22E-02	1.15E-01	1.22E-02	1.12E+00	4.03E-01	2.38E+00	1.32E+00	2.66E-02
1929	360900	3800650	8.36E-01	2.92E-02	1.08E-01	1.16E-02	1.08E-01	1.16E-02	1.05E+00	3.79E-01	2.23E+00	1.15E+00	2.49E-02
1930	360950	3800650	8.12E-01	2.78E-02	1.04E-01	1.10E-02	1.04E-01	1.10E-02	1.02E+00	3.66E-01	2.17E+00	1.10E+00	2.42E-02
1931	361000	3800650	7.71E-01	2.65E-02	1.01E-01	1.05E-02	1.01E-01	1.05E-02	9.67E-01	3.51E-01	2.06E+00	1.03E+00	2.30E-02
1932	361050	3800650	7.21E-01	2.53E-02	9.87E-02	1.01E-02	9.87E-02	1.01E-02	9.04E-01	3.43E-01	1.92E+00	9.79E-01	2.15E-02
1933	361100	3800650	6.78E-01	2.43E-02	9.53E-02	9.63E-03	9.53E-02	9.63E-03	8.50E-01	3.32E-01	1.81E+00	9.34E-01	2.02E-02
1934	361150	3800650	6.44E-01	2.35E-02	9.15E-02	9.30E-03	9.15E-02	9.30E-03	8.07E-01	3.19E-01	1.72E+00	8.90E-01	1.92E-02
1935	361200	3800650	6.19E-01	2.27E-02	8.74E-02	9.01E-03	8.74E-02	9.01E-03	7.76E-01	3.05E-01	1.65E+00	8.46E-01	1.84E-02
1936	361250	3800650	5.90E-01	2.21E-02	8.32E-02	8.74E-03	8.32E-02	8.74E-03	7.40E-01	2.91E-01	1.57E+00	8.04E-01	1.76E-02
1937	361300	3800650	5.60E-01	2.15E-02	7.93E-02	8.53E-03	7.93E-02	8.53E-03	7.01E-01	2.77E-01	1.49E+00	7.64E-01	1.67E-02
1938	358450	3800700	5.13E-01	3.70E-02	5.16E-02	1.35E-02	5.16E-02	1.35E-02	6.42E-01	1.77E-01	1.37E+00	4.03E-01	1.53E-02
1939	358500	3800700	5.40E-01	3.75E-02	5.30E-02	1.37E-02	5.30E-02	1.37E-02	6.75E-01	1.82E-01	1.44E+00	4.22E-01	1.61E-02
1940	358550	3800700	5.68E-01	3.80E-02	5.45E-02	1.39E-02	5.45E-02	1.39E-02	7.11E-01	1.87E-01	1.52E+00	4.43E-01	1.69E-02
1941	358600	3800700	5.98E-01	3.86E-02	5.62E-02	1.42E-02	5.62E-02	1.42E-02	7.48E-01	1.93E-01	1.60E+00	4.65E-01	1.78E-02
1942	358650	3800700	6.58E-01	3.92E-02	5.79E-02	1.44E-02	5.79E-02	1.44E-02	8.23E-01	1.99E-01	1.75E+00	4.88E-01	1.96E-02
1943	358700	3800700	7.08E-01	3.98E-02	5.98E-02	1.47E-02	5.98E-02	1.47E-02	8.87E-01	2.06E-01	1.89E+00	5.13E-01	2.11E-02
1944	358750	3800700	7.43E-01	4.13E-02	6.31E-02	1.55E-02	6.31E-02	1.55E-02	9.30E-01	2.17E-01	1.98E+00	5.39E-01	2.21E-02
1945	358800	3800700	7.45E-01	4.62E-02	7.04E-02	1.75E-02	7.04E-02	1.75E-02	9.34E-01	2.42E-01	1.99E+00	5.67E-01	2.22E-02
1946	358850	3800700	7.75E-01	5.29E-02	8.05E-02	2.03E-02	8.05E-02	2.03E-02	9.71E-01	2.77E-01	2.07E+00	5.97E-01	2.31E-02
1947	358900	3800700	8.16E-01	5.77E-02	8.83E-02	2.24E-02	8.83E-02	2.24E-02	1.02E+00	3.04E-01	2.17E+00	6.39E-01	2.43E-02
1948	358950	3800700	8.57E-01	5.99E-02	9.31E-02	2.34E-02	9.31E-02	2.34E-02	1.07E+00	3.26E-01	2.29E+00	6.79E-01	2.55E-02
1949	359000	3800700	8.99E-01	5.65E-02	8.83E-02	2.19E-02	8.83E-02	2.19E-02	1.13E+00	3.09E-01	2.40E+00	7.06E-01	2.68E-02
1950	359050	3800700	9.42E-01	5.20E-02	8.29E-02	2.01E-02	8.29E-02	2.01E-02	1.18E+00	2.88E-01	2.51E+00	7.29E-01	2.81E-02
1951	359100	3800700	9.84E-01	5.30E-02	8.66E-02	2.07E-02	8.66E-02	2.07E-02	1.23E+00	3.03E-01	2.62E+00	7.66E-01	2.93E-02
1952	359150	3800700	1.02E+00	5.94E-02	1.00E-01	2.34E-02	1.00E-01	2.34E-02	1.28E+00	3.51E-01	2.72E+00	8.27E-01	3.04E-02
1953	359200	3800700	1.05E+00	6.90E-02	1.20E-01	2.75E-02	1.20E-01	2.75E-02	1.32E+00	4.19E-01	2.81E+00	9.03E-01	3.14E-02
1954	359250	3800700	1.08E+00	8.19E-02	1.45E-01	3.32E-02	1.45E-01	3.32E-02	1.35E+00	5.07E-01	2.88E+00	9.89E-01	3.21E-02
1955	359300	3800700	1.09E+00	9.15E-02	1.62E-01	3.74E-02	1.62E-01	3.74E-02	1.37E+00	5.66E-01	2.92E+00	1.17E+00	3.26E-02
1956	359350	3800700	1.10E+00	9.19E-02	1.61E-01	3.77E-02	1.61E-01	3.77E-02	1.38E+00	5.60E-01	2.93E+00	1.09E+00	3.27E-02
1957	359400	3800700	1.08E+00	8.49E-02	1.46E-01	3.48E-02	1.46E-01	3.48E-02	1.36E+00	5.09E-01	2.89E+00	1.13E+00	3.23E-02
1958	359450	3800700	1.28E+00	8.57E-02	1.43E-01	3.53E-02	1.43E-01	3.53E-02	1.61E+00	5.01E-01	3.43E+00	1.24E+00	3.83E-02
1959	359500	3800700	1.42E+00	9.23E-02	1.52E-01	3.82E-02	1.52E-01	3.82E-02	1.78E+00	5.30E-01	3.78E+00	1.42E+00	4.23E-02
1960	359550	3800700	1.57E+00	1.10E-01	1.75E-01	4.60E-02	1.75E-01	4.60E-02	1.97E+00	6.14E-01	4.18E+00	1.82E+00	4.67E-02
1961	359600	3800700	1.96E+00	1.47E-01	2.33E-01	6.20E-02	2.33E-01	6.20E-02	2.46E+00	8.17E-01	5.22E+00	2.39E+00	5.84E-02
1962	359650	3800700	2.28E+00	1.98E-01	3.16E-01	8.46E-02	3.16E-01	8.46E-02	2.87E+00	1.10E+00	6.08E+00	3.06E+00	6.79E-02
1963	359700	3800700	2.57E+00	2.18E-01	3.92E-01	9.35E-02	3.92E-01	9.35E-02	3.24E+00	1.38E+00	6.86E+00	3.66E+00	7.67E-02
1964	359750	3800700	2.79E+00	2.54E-01	4.97E-01	1.09E-01	4.97E-01	1.09E-01	3.50E+00	1.74E+00	7.43E+00	4.08E+00	8.30E-02
1965	359800	3800700	2.64E+00	2.73E-01	5.31E-01	1.18E-01	5.31E-01	1.18E-01	3.32E+00	1.86E+00	7.05E+00	4.06E+00	7.88E-02
1966	359850	3800700	2.28E+00	2.73E-01	4.92E-01	1.18E-01	4.92E-01	1.18E-01	2.86E+00	1.73E+00	6.07E+00	4.07E+00	6.79E-02
1967	359900	3800700	2.71E+00	2.79E-01	4.71E-01	1.21E-01	4.71E-01	1.21E-01	3.40E+00	1.66E+00	7.21E+00	4.54E+00	8.06E-02
1968	359950	3800700	2.93E+00	3.14E-01	5.13E-01	1.36E-01	5.13E-01	1.36E-01	3.69E+00	1.81E+00	7.82E+00	4.62E+00	8.74E-02
1969	360000	3800700	2.12E+00	2.40E-01	3.28E-01	1.04E-01	3.28E-01	1.04E-01	2.67E+00	1.16E+00	5.65E+00	3.13E+00	6.31E-02
1970	360050	3800700	1.91E+00	2.24E-01	3.47E-01	9.66E-02	3.47E-01	9.66E-02	2.40E+00	1.23E+00	5.09E+00	3.44E+00	5.69E-02
1971	360100	3800700	2.17E+00	2.10E-01	3.43E-01	9.02E-02	3.43E-01	9.02E-02	2.72E+00	1.22E+00	5.78E+00	3.40E+00	6.46E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
1972	360150	3800700	3.16E+00	2.37E-01	4.94E-01	1.02E-01	4.94E-01	1.02E-01	3.98E+00	1.73E+00	8.44E+00	4.81E+00	9.43E-02
1973	360200	3800700	2.75E+00	1.75E-01	4.55E-01	7.53E-02	4.55E-01	7.53E-02	3.46E+00	1.63E+00	7.34E+00	4.22E+00	8.20E-02
1974	360250	3800700	2.25E+00	1.10E-01	2.73E-01	4.66E-02	2.73E-01	4.66E-02	2.83E+00	9.89E-01	6.00E+00	2.54E+00	6.71E-02
1975	360300	3800700	1.65E+00	8.11E-02	1.61E-01	3.39E-02	1.61E-01	3.39E-02	2.08E+00	5.90E-01	4.41E+00	1.66E+00	4.93E-02
1976	360350	3800700	1.73E+00	6.75E-02	1.55E-01	2.80E-02	1.55E-01	2.80E-02	2.17E+00	5.43E-01	4.61E+00	1.67E+00	5.15E-02
1977	360400	3800700	1.56E+00	5.82E-02	1.44E-01	2.39E-02	1.44E-01	2.39E-02	1.96E+00	4.97E-01	4.15E+00	1.53E+00	4.64E-02
1978	360450	3800700	1.36E+00	5.15E-02	1.53E-01	2.10E-02	1.53E-01	2.10E-02	1.71E+00	5.32E-01	3.62E+00	1.48E+00	4.05E-02
1979	360500	3800700	1.20E+00	4.63E-02	1.45E-01	1.88E-02	1.45E-01	1.88E-02	1.50E+00	5.10E-01	3.19E+00	1.36E+00	3.57E-02
1980	360550	3800700	1.26E+00	4.22E-02	1.27E-01	1.70E-02	1.27E-01	1.70E-02	1.58E+00	4.50E-01	3.36E+00	1.59E+00	3.75E-02
1981	360600	3800700	1.28E+00	3.89E-02	1.39E-01	1.56E-02	1.39E-01	1.56E-02	1.61E+00	4.77E-01	3.41E+00	1.79E+00	3.81E-02
1982	360650	3800700	1.20E+00	3.61E-02	1.48E-01	1.44E-02	1.48E-01	1.44E-02	1.51E+00	5.12E-01	3.20E+00	1.88E+00	3.58E-02
1983	360700	3800700	1.07E+00	3.38E-02	1.49E-01	1.35E-02	1.49E-01	1.35E-02	1.34E+00	5.17E-01	2.85E+00	1.86E+00	3.18E-02
1984	360750	3800700	1.04E+00	3.21E-02	1.43E-01	1.27E-02	1.43E-01	1.27E-02	1.30E+00	4.99E-01	2.77E+00	1.76E+00	3.09E-02
1985	360800	3800700	9.55E-01	3.06E-02	1.33E-01	1.22E-02	1.33E-01	1.22E-02	1.20E+00	4.66E-01	2.55E+00	1.61E+00	2.85E-02
1986	360850	3800700	8.85E-01	2.93E-02	1.21E-01	1.16E-02	1.21E-01	1.16E-02	1.11E+00	4.25E-01	2.36E+00	1.44E+00	2.64E-02
1987	360900	3800700	8.30E-01	2.80E-02	1.08E-01	1.11E-02	1.08E-01	1.11E-02	1.04E+00	3.80E-01	2.21E+00	1.28E+00	2.47E-02
1988	360950	3800700	7.61E-01	2.67E-02	1.00E-01	1.06E-02	1.00E-01	1.06E-02	9.54E-01	3.49E-01	2.03E+00	1.11E+00	2.27E-02
1989	361000	3800700	7.06E-01	2.56E-02	9.29E-02	1.02E-02	9.29E-02	1.02E-02	8.86E-01	3.24E-01	1.88E+00	1.01E+00	2.10E-02
1990	361050	3800700	6.92E-01	2.45E-02	8.79E-02	9.73E-03	8.79E-02	9.73E-03	8.67E-01	3.08E-01	1.84E+00	9.21E-01	2.06E-02
1991	361100	3800700	6.65E-01	2.35E-02	8.45E-02	9.34E-03	8.45E-02	9.34E-03	8.34E-01	2.96E-01	1.77E+00	8.75E-01	1.98E-02
1992	361150	3800700	6.31E-01	2.27E-02	8.20E-02	8.98E-03	8.20E-02	8.98E-03	7.91E-01	2.84E-01	1.68E+00	8.34E-01	1.88E-02
1993	361200	3800700	5.93E-01	2.20E-02	7.98E-02	8.70E-03	7.98E-02	8.70E-03	7.43E-01	2.77E-01	1.58E+00	8.01E-01	1.77E-02
1994	361250	3800700	5.55E-01	2.14E-02	7.74E-02	8.47E-03	7.74E-02	8.47E-03	6.95E-01	2.69E-01	1.48E+00	7.68E-01	1.65E-02
1995	358450	3800750	5.28E-01	3.77E-02	5.40E-02	1.39E-02	5.40E-02	1.39E-02	6.60E-01	1.85E-01	1.41E+00	4.20E-01	1.57E-02
1996	358500	3800750	5.54E-01	3.83E-02	5.53E-02	1.41E-02	5.53E-02	1.41E-02	6.92E-01	1.90E-01	1.48E+00	4.40E-01	1.65E-02
1997	358550	3800750	5.81E-01	3.89E-02	5.68E-02	1.44E-02	5.68E-02	1.44E-02	7.26E-01	1.95E-01	1.55E+00	4.60E-01	1.73E-02
1998	358600	3800750	6.09E-01	3.95E-02	5.83E-02	1.46E-02	5.83E-02	1.46E-02	7.61E-01	2.00E-01	1.62E+00	4.81E-01	1.81E-02
1999	358650	3800750	6.65E-01	4.01E-02	5.99E-02	1.49E-02	5.99E-02	1.49E-02	8.32E-01	2.06E-01	1.77E+00	5.04E-01	1.98E-02
2000	358700	3800750	7.19E-01	4.08E-02	6.16E-02	1.52E-02	6.16E-02	1.52E-02	9.00E-01	2.12E-01	1.92E+00	5.28E-01	2.14E-02
2001	358750	3800750	7.51E-01	4.15E-02	6.33E-02	1.55E-02	6.33E-02	1.55E-02	9.41E-01	2.18E-01	2.00E+00	5.52E-01	2.24E-02
2002	358800	3800750	7.80E-01	4.35E-02	6.66E-02	1.65E-02	6.66E-02	1.65E-02	9.77E-01	2.29E-01	2.08E+00	5.78E-01	2.32E-02
2003	358850	3800750	7.66E-01	4.97E-02	7.44E-02	1.91E-02	7.44E-02	1.91E-02	9.60E-01	2.56E-01	2.04E+00	6.05E-01	2.28E-02
2004	358900	3800750	7.99E-01	5.21E-02	7.84E-02	2.01E-02	7.84E-02	2.01E-02	1.00E+00	2.74E-01	2.13E+00	6.34E-01	2.38E-02
2005	358950	3800750	8.31E-01	5.52E-02	8.57E-02	2.15E-02	8.57E-02	2.15E-02	1.04E+00	3.00E-01	2.22E+00	6.63E-01	2.48E-02
2006	359000	3800750	8.62E-01	5.39E-02	8.50E-02	2.10E-02	8.50E-02	2.10E-02	1.08E+00	2.97E-01	2.30E+00	6.92E-01	2.57E-02
2007	359050	3800750	9.09E-01	4.99E-02	7.93E-02	1.94E-02	7.93E-02	1.94E-02	1.14E+00	2.77E-01	2.42E+00	7.22E-01	2.71E-02
2008	359100	3800750	9.24E-01	5.14E-02	8.32E-02	2.01E-02	8.32E-02	2.01E-02	1.16E+00	2.91E-01	2.46E+00	7.52E-01	2.75E-02
2009	359150	3800750	9.36E-01	5.48E-02	9.02E-02	2.16E-02	9.02E-02	2.16E-02	1.17E+00	3.15E-01	2.50E+00	7.83E-01	2.79E-02
2010	359200	3800750	9.48E-01	6.18E-02	1.03E-01	2.46E-02	1.03E-01	2.46E-02	1.19E+00	3.60E-01	2.53E+00	8.20E-01	2.83E-02
2011	359250	3800750	9.50E-01	7.19E-02	1.19E-01	2.90E-02	1.19E-01	2.90E-02	1.19E+00	4.15E-01	2.53E+00	8.87E-01	2.83E-02
2012	359300	3800750	1.01E+00	8.10E-02	1.32E-01	3.30E-02	1.32E-01	3.30E-02	1.27E+00	4.60E-01	2.70E+00	9.64E-01	3.02E-02
2013	359350	3800750	1.09E+00	9.12E-02	1.44E-01	3.75E-02	1.44E-01	3.75E-02	1.37E+00	5.01E-01	2.90E+00	1.04E+00	3.24E-02
2014	359400	3800750	1.26E+00	8.40E-02	1.30E-01	3.45E-02	1.30E-01	3.45E-02	1.58E+00	4.54E-01	3.35E+00	1.19E+00	3.74E-02
2015	359450	3800750	1.26E+00	8.34E-02	1.33E-01	3.44E-02	1.33E-01	3.44E-02	1.59E+00	4.65E-01	3.37E+00	1.49E+00	3.77E-02
2016	359500	3800750	1.27E+00	9.15E-02	1.50E-01	3.80E-02	1.50E-01	3.80E-02	1.60E+00	5.31E-01	3.40E+00	1.84E+00	3.80E-02
2017	359550	3800750	1.30E+00	1.03E-01	1.81E-01	4.32E-02	1.81E-01	4.32E-02	1.63E+00	6.41E-01	3.46E+00	2.21E+00	3.87E-02
2018	359600	3800750	1.31E+00	1.19E-01	2.16E-01	5.02E-02	2.16E-01	5.02E-02	1.64E+00	7.63E-01	3.48E+00	2.62E+00	3.89E-02
2019	359650	3800750	1.55E+00	1.67E-01	3.05E-01	7.11E-02	3.05E-01	7.11E-02	1.95E+00	1.07E+00	4.13E+00	3.11E+00	4.61E-02
2020	359700	3800750	1.62E+00	1.69E-01	2.96E-01	7.22E-02	2.96E-01	7.22E-02	2.03E+00	1.04E+00	4.31E+00	3.20E+00	4.82E-02
2021	359750	3800750	1.79E+00	1.94E-01	3.07E-01	8.33E-02	3.07E-01	8.33E-02	2.25E+00	1.08E+00	4.78E+00	3.11E+00	5.34E-02
2022	359800	3800750	1.75E+00	2.00E-01	2.95E-01	8.59E-02	2.95E-01	8.59E-02	2.20E+00	1.04E+00	4.66E+00	3.22E+00	5.21E-02
2023	359850	3800750	2.13E+00	2.22E-01	3.24E-01	9.53E-02	3.24E-01	9.53E-02	2.68E+00	1.15E+00	5.69E+00	3.56E+00	6.36E-02
2024	359900	3800750	2.05E+00	2.25E-01	3.26E-01	9.68E-02	3.26E-01	9.68E-02	2.57E+00	1.15E+00	5.45E+00	3.41E+00	6.09E-02
2025	359950	3800750	2.23E+00	2.39E-01	3.27E-01	1.03E-01	3.27E-01	1.03E-01	2.80E+00	1.15E+00	5.94E+00	3.08E+00	6.64E-02
2026	360000	3800750	1.84E+00	2.16E-01	3.09E-01	9.30E-02	3.09E-01	9.30E-02	2.32E+00	1.08E+00	4.91E+00	3.02E+00	5.49E-02
2027	360050	3800750	1.77E+00	2.01E-01	3.20E-01	8.63E-02	3.20E-01	8.63E-02	2.22E+00	1.13E+00	4.71E+00	3.15E+00	5.26E-02
2028	360100	3800750	1.99E+00	1.79E-01	2.90E-01	7.69E-02	2.90E-01	7.69E-02	2.50E+00	1.03E+00	5.30E+00	2.98E+00	5.92E-02
2029	360150	3800750	2.10E+00	1.59E-01	3.02E-01	6.80E-02	3.02E-01	6.80E-02	2.64E+00	1.07E+00	5.59E+00	3.16E+00	6.25E-02
2030	360200	3800750	2.22E+00	1.31E-01	3.05E-01	5.59E-02	3.05E-01	5.59E-02	2.79E+00	1.08E+00	5.92E+00	2.93E+00	6.62E-02
2031	360250	3800750	2.02E+00	9.81E-02	2.40E-01	4.14E-02	2.40E-01	4.14E-02	2.54E+00	8.64E-01	5.39E+00	2.26E+00	6.03E-02
2032	360300	3800750	1.54E+00	7.82E-02	1.67E-01	3.27E-02	1.67E-01	3.27E-02	1.94E+00	6.11E-01	4.12E+00	1.56E+00	4.60E-02
2033	360350	3800750	1.57E+00	6.56E-02	1.48E-01	2.72E-02	1.48E-01	2.72E-02	1.97E+00	5.15E-01	4.19E+00	1.63E+00	4.68E-02
2034	360400	3800750	1.40E+00	5.66E-02	1.39E-01	2.33E-02	1.39E-01	2.33E-02	1.75E+00	4.89E-01	3.72E+00	1.52E+00	4.16E-02
2035	360450	3800750	1.31E+00	5.01E-02	1.38E-01	2.05E-02	1.38E-01	2.05E-02	1.65E+00	4.79E-01	3.50E+00	1.38E+00	3.91E-02
2036	360500	3800750	1.21E+00	4.51E-02	1.39E-01	1.83E-02	1.39E-01	1.83E-02	1.52E+00	4.85E-01	3.22E+00	1.32E+00	3.60E-02
2037	360550	3800750	1.12E+00	4.11E-02	1.29E-01	1.66E-02	1.29E-01	1.66E-02	1.40E+00	4.54E-01	2.98E+00	1.23E+00	3.33E-02
2038	360600	3800750	1.15E+00	3.78E-02	1.13E-01	1.52E-02	1.13E-01	1.52E-02	1.44E+00	3.99E-01	3.06E+00	1.40E+00	3.42E-02
2039	360650	3800750	1.12E+00	3.50E-02	1.22E-01	1.40E-02	1.22E-01	1.40E-02	1.41E+00	4.16E-01	2.99E+00	1.56E+00	3.34E-02
2040	360700	3800750	1.03E+00	3.27E-02	1.29E-01	1.30E-02	1.29E-01	1.30E-02	1.29E+00	4.43E-01	2.73E+00	1.63E+00	3.05E-02
2041	360750	3800750	9.32E-01	3.08E-02	1.30E-01	1.22E-02	1.30E-01	1.22E-02	1.17E+00	4.51E-01	2.49E+00	1.62E+00	2.78E-02
2042	360800	3800750	9.26E-01	2.91E-02	1.27E-01	1.15E-02	1.27E-01	1.15E-02	1.16E+00	4.41E-01	2.47E+00	1.56E+00	2.76E-02
2043	360850	3800750	8.79E-01	2.79E-02	1.20E-01	1.11E-02	1.20E-01	1.11E-02	1.10E+00	4.20E-01	2.34E+00	1.46E+00	2.62E-02
2044	360900	3800750	8.03E-01	2.68E-02	1.11E-01	1.06E-02	1.11E-01	1.06E-02	1.01E+00	3.90E-01	2.14E+00	1.34E+00	2.39E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2045	360950	3800750	7.53E-01	2.57E-02	1.02E-01	1.02E-02	1.02E-01	1.02E-02	9.45E-01	3.56E-01	2.01E+00	1.21E+00	2.25E-02
2046	361000	3800750	7.08E-01	2.47E-02	9.39E-02	9.77E-03	9.39E-02	9.77E-03	8.87E-01	3.27E-01	1.89E+00	1.08E+00	2.11E-02
2047	361050	3800750	6.54E-01	2.37E-02	8.81E-02	9.39E-03	8.81E-02	9.39E-03	8.20E-01	3.06E-01	1.74E+00	9.69E-01	1.95E-02
2048	361100	3800750	6.02E-01	2.28E-02	8.23E-02	9.04E-03	8.23E-02	9.04E-03	7.54E-01	2.86E-01	1.60E+00	8.87E-01	1.79E-02
2049	361150	3800750	5.94E-01	2.20E-02	7.67E-02	8.72E-03	7.67E-02	8.72E-03	7.44E-01	2.66E-01	1.58E+00	8.08E-01	1.77E-02
2050	361200	3800750	5.77E-01	2.14E-02	7.28E-02	8.42E-03	7.28E-02	8.42E-03	7.23E-01	2.53E-01	1.54E+00	7.47E-01	1.72E-02
2051	358450	3800800	5.33E-01	3.86E-02	5.55E-02	1.43E-02	5.55E-02	1.43E-02	6.67E-01	1.90E-01	1.42E+00	4.32E-01	1.59E-02
2052	358500	3800800	5.57E-01	3.91E-02	5.67E-02	1.45E-02	5.67E-02	1.45E-02	6.96E-01	1.94E-01	1.48E+00	4.50E-01	1.66E-02
2053	358550	3800800	5.81E-01	3.97E-02	5.80E-02	1.48E-02	5.80E-02	1.48E-02	7.27E-01	1.99E-01	1.55E+00	4.70E-01	1.73E-02
2054	358600	3800800	6.10E-01	4.04E-02	5.93E-02	1.51E-02	5.93E-02	1.51E-02	7.62E-01	2.04E-01	1.63E+00	4.90E-01	1.82E-02
2055	358650	3800800	6.32E-01	4.11E-02	6.07E-02	1.54E-02	6.07E-02	1.54E-02	7.90E-01	2.08E-01	1.68E+00	5.11E-01	1.88E-02
2056	358700	3800800	6.72E-01	4.19E-02	6.21E-02	1.57E-02	6.21E-02	1.57E-02	8.41E-01	2.13E-01	1.79E+00	5.33E-01	2.00E-02
2057	358750	3800800	7.10E-01	4.27E-02	6.36E-02	1.61E-02	6.36E-02	1.61E-02	8.89E-01	2.19E-01	1.89E+00	5.55E-01	2.12E-02
2058	358800	3800800	7.53E-01	4.36E-02	6.51E-02	1.65E-02	6.51E-02	1.65E-02	9.43E-01	2.24E-01	2.01E+00	5.79E-01	2.24E-02
2059	358850	3800800	7.53E-01	4.80E-02	7.05E-02	1.85E-02	7.05E-02	1.85E-02	9.44E-01	2.46E-01	2.01E+00	6.02E-01	2.25E-02
2060	358900	3800800	7.74E-01	4.87E-02	7.29E-02	1.88E-02	7.29E-02	1.88E-02	9.70E-01	2.54E-01	2.06E+00	6.27E-01	2.31E-02
2061	358950	3800800	7.89E-01	4.96E-02	7.57E-02	1.93E-02	7.57E-02	1.93E-02	9.89E-01	2.64E-01	2.10E+00	6.51E-01	2.35E-02
2062	359000	3800800	8.00E-01	5.35E-02	8.31E-02	2.09E-02	8.31E-02	2.09E-02	1.00E+00	2.90E-01	2.13E+00	6.75E-01	2.38E-02
2063	359050	3800800	8.18E-01	5.05E-02	7.80E-02	1.96E-02	7.80E-02	1.96E-02	1.03E+00	2.72E-01	2.18E+00	6.98E-01	2.44E-02
2064	359100	3800800	8.23E-01	5.27E-02	8.07E-02	2.06E-02	8.07E-02	2.06E-02	1.03E+00	2.82E-01	2.20E+00	7.20E-01	2.45E-02
2065	359150	3800800	8.68E-01	5.52E-02	8.52E-02	2.18E-02	8.52E-02	2.18E-02	1.09E+00	2.97E-01	2.31E+00	7.72E-01	2.59E-02
2066	359200	3800800	9.36E-01	6.04E-02	9.42E-02	2.42E-02	9.42E-02	2.42E-02	1.17E+00	3.29E-01	2.50E+00	8.32E-01	2.79E-02
2067	359250	3800800	1.02E+00	6.38E-02	9.95E-02	2.57E-02	9.95E-02	2.57E-02	1.27E+00	3.46E-01	2.71E+00	8.95E-01	3.03E-02
2068	359300	3800800	1.11E+00	7.56E-02	1.12E-01	3.08E-02	1.12E-01	3.08E-02	1.39E+00	3.90E-01	2.95E+00	1.01E+00	3.30E-02
2069	359350	3800800	1.14E+00	8.75E-02	1.30E-01	3.60E-02	1.30E-01	3.60E-02	1.43E+00	4.55E-01	3.03E+00	1.24E+00	3.39E-02
2070	359400	3800800	1.26E+00	8.60E-02	1.33E-01	3.55E-02	1.33E-01	3.55E-02	1.58E+00	4.64E-01	3.36E+00	1.51E+00	3.76E-02
2071	359450	3800800	1.18E+00	8.67E-02	1.47E-01	3.59E-02	1.47E-01	3.59E-02	1.48E+00	5.17E-01	3.14E+00	1.79E+00	3.51E-02
2072	359500	3800800	1.16E+00	9.52E-02	1.70E-01	3.96E-02	1.70E-01	3.96E-02	1.46E+00	5.98E-01	3.10E+00	2.09E+00	3.47E-02
2073	359550	3800800	1.11E+00	1.06E-01	1.90E-01	4.43E-02	1.90E-01	4.43E-02	1.39E+00	6.70E-01	2.96E+00	2.35E+00	3.31E-02
2074	359600	3800800	1.18E+00	1.23E-01	2.13E-01	5.21E-02	2.13E-01	5.21E-02	1.49E+00	7.49E-01	3.16E+00	2.57E+00	3.53E-02
2075	359650	3800800	1.40E+00	1.46E-01	2.35E-01	6.19E-02	2.35E-01	6.19E-02	1.76E+00	8.27E-01	3.74E+00	2.67E+00	4.18E-02
2076	359700	3800800	1.44E+00	1.51E-01	2.18E-01	6.43E-02	2.18E-01	6.43E-02	1.81E+00	7.65E-01	3.84E+00	2.49E+00	4.29E-02
2077	359750	3800800	1.47E+00	1.70E-01	2.39E-01	7.27E-02	2.39E-01	7.27E-02	1.85E+00	8.38E-01	3.92E+00	2.78E+00	4.38E-02
2078	359800	3800800	1.72E+00	1.80E-01	2.57E-01	7.70E-02	2.57E-01	7.70E-02	2.17E+00	9.03E-01	4.60E+00	3.01E+00	5.14E-02
2079	359850	3800800	1.82E+00	2.06E-01	2.98E-01	8.87E-02	2.98E-01	8.87E-02	2.28E+00	1.05E+00	4.84E+00	3.07E+00	5.41E-02
2080	359900	3800800	1.93E+00	2.12E-01	2.93E-01	9.12E-02	2.93E-01	9.12E-02	2.43E+00	1.04E+00	5.15E+00	2.84E+00	5.76E-02
2081	359950	3800800	1.78E+00	2.02E-01	2.67E-01	8.70E-02	2.67E-01	8.70E-02	2.23E+00	9.34E-01	4.74E+00	2.58E+00	5.29E-02
2082	360000	3800800	1.55E+00	1.97E-01	2.96E-01	8.45E-02	2.96E-01	8.45E-02	1.94E+00	1.04E+00	4.12E+00	2.88E+00	4.60E-02
2083	360050	3800800	1.68E+00	1.79E-01	2.87E-01	7.68E-02	2.87E-01	7.68E-02	2.11E+00	1.02E+00	4.49E+00	2.81E+00	5.02E-02
2084	360100	3800800	1.99E+00	1.62E-01	2.68E-01	6.92E-02	2.68E-01	6.92E-02	2.50E+00	9.44E-01	5.31E+00	2.71E+00	5.93E-02
2085	360150	3800800	1.95E+00	1.40E-01	2.79E-01	5.96E-02	2.79E-01	5.96E-02	2.45E+00	9.85E-01	5.19E+00	2.91E+00	5.80E-02
2086	360200	3800800	1.95E+00	1.15E-01	2.68E-01	4.90E-02	2.68E-01	4.90E-02	2.45E+00	9.46E-01	5.19E+00	2.57E+00	5.80E-02
2087	360250	3800800	1.80E+00	9.24E-02	2.27E-01	3.89E-02	2.27E-01	3.89E-02	2.27E+00	8.14E-01	4.81E+00	2.11E+00	5.37E-02
2088	360300	3800800	1.46E+00	7.49E-02	1.76E-01	3.13E-02	1.76E-01	3.13E-02	1.84E+00	6.38E-01	3.89E+00	1.53E+00	4.35E-02
2089	360350	3800800	1.38E+00	6.34E-02	1.46E-01	2.63E-02	1.46E-01	2.63E-02	1.73E+00	5.08E-01	3.68E+00	1.62E+00	4.11E-02
2090	360400	3800800	1.31E+00	5.49E-02	1.40E-01	2.26E-02	1.40E-01	2.26E-02	1.65E+00	4.92E-01	3.50E+00	1.56E+00	3.92E-02
2091	360450	3800800	1.22E+00	4.86E-02	1.23E-01	1.99E-02	1.23E-01	1.99E-02	1.53E+00	4.30E-01	3.25E+00	1.35E+00	3.64E-02
2092	360500	3800800	1.19E+00	4.38E-02	1.28E-01	1.78E-02	1.28E-01	1.78E-02	1.49E+00	4.43E-01	3.17E+00	1.24E+00	3.54E-02
2093	360550	3800800	1.10E+00	4.00E-02	1.25E-01	1.61E-02	1.25E-01	1.61E-02	1.38E+00	4.34E-01	2.93E+00	1.17E+00	3.28E-02
2094	360600	3800800	1.01E+00	3.68E-02	1.14E-01	1.48E-02	1.14E-01	1.48E-02	1.27E+00	4.01E-01	2.70E+00	1.14E+00	3.01E-02
2095	360650	3800800	1.06E+00	3.41E-02	1.01E-01	1.36E-02	1.01E-01	1.36E-02	1.33E+00	3.54E-01	2.82E+00	1.23E+00	3.15E-02
2096	360700	3800800	1.03E+00	3.18E-02	1.06E-01	1.27E-02	1.06E-01	1.27E-02	1.29E+00	3.64E-01	2.73E+00	1.35E+00	3.06E-02
2097	360750	3800800	9.14E-01	2.99E-02	1.12E-01	1.19E-02	1.12E-01	1.19E-02	1.15E+00	3.87E-01	2.44E+00	1.41E+00	2.72E-02
2098	360800	3800800	8.17E-01	2.83E-02	1.14E-01	1.12E-02	1.14E-01	1.12E-02	1.03E+00	3.95E-01	2.18E+00	1.42E+00	2.44E-02
2099	360850	3800800	8.20E-01	2.69E-02	1.13E-01	1.06E-02	1.13E-01	1.06E-02	1.03E+00	3.91E-01	2.19E+00	1.39E+00	2.44E-02
2100	360900	3800800	7.98E-01	2.56E-02	1.08E-01	1.01E-02	1.08E-01	1.01E-02	1.00E+00	3.78E-01	2.13E+00	1.32E+00	2.38E-02
2101	360950	3800800	7.48E-01	2.46E-02	1.02E-01	9.73E-03	1.02E-01	9.73E-03	9.38E-01	3.57E-01	1.99E+00	1.23E+00	2.23E-02
2102	361000	3800800	6.88E-01	2.37E-02	9.48E-02	9.38E-03	9.48E-02	9.38E-03	8.63E-01	3.31E-01	1.83E+00	1.13E+00	2.05E-02
2103	361050	3800800	6.54E-01	2.29E-02	8.75E-02	9.04E-03	8.75E-02	9.04E-03	8.20E-01	3.04E-01	1.74E+00	1.03E+00	1.95E-02
2104	361100	3800800	6.12E-01	2.21E-02	8.29E-02	8.73E-03	8.29E-02	8.73E-03	7.67E-01	2.88E-01	1.63E+00	9.23E-01	1.82E-02
2105	361150	3800800	5.68E-01	2.14E-02	7.82E-02	8.44E-03	7.82E-02	8.44E-03	7.12E-01	2.71E-01	1.52E+00	8.53E-01	1.69E-02
2106	358500	3800850	5.50E-01	4.00E-02	5.71E-02	1.50E-02	5.71E-02	1.50E-02	6.87E-01	1.96E-01	1.47E+00	4.54E-01	1.64E-02
2107	358550	3800850	5.70E-01	4.07E-02	5.82E-02	1.53E-02	5.82E-02	1.53E-02	7.13E-01	2.00E-01	1.52E+00	4.72E-01	1.70E-02
2108	358600	3800850	5.91E-01	4.14E-02	5.93E-02	1.56E-02	5.93E-02	1.56E-02	7.39E-01	2.03E-01	1.58E+00	4.91E-01	1.76E-02
2109	358650	3800850	6.12E-01	4.21E-02	6.04E-02	1.59E-02	6.04E-02	1.59E-02	7.66E-01	2.07E-01	1.63E+00	5.10E-01	1.82E-02
2110	358700	3800850	6.32E-01	4.30E-02	6.15E-02	1.63E-02	6.15E-02	1.63E-02	7.91E-01	2.11E-01	1.69E+00	5.29E-01	1.88E-02
2111	358750	3800850	6.52E-01	4.39E-02	6.27E-02	1.67E-02	6.27E-02	1.67E-02	8.16E-01	2.15E-01	1.74E+00	5.49E-01	1.94E-02
2112	358800	3800850	7.01E-01	4.49E-02	6.37E-02	1.71E-02	6.37E-02	1.71E-02	8.78E-01	2.19E-01	1.87E+00	5.69E-01	2.09E-02
2113	358850	3800850	6.96E-01	4.82E-02	7.04E-02	1.87E-02	7.04E-02	1.87E-02	8.72E-01	2.46E-01	1.86E+00	5.88E-01	2.07E-02
2114	358900	3800850	7.10E-01	4.81E-02	7.07E-02	1.87E-02	7.07E-02	1.87E-02	8.89E-01	2.47E-01	1.89E+00	6.08E-01	2.11E-02
2115	358950	3800850	7.21E-01	4.89E-02	7.09E-02	1.90E-02	7.09E-02	1.90E-02	9.03E-01	2.48E-01	1.92E+00	6.26E-01	2.15E-02
2116	359000	3800850	7.41E-01	5.22E-02	7.80E-02	2.05E-02	7.80E-02	2.05E-02	9.28E-01	2.72E-01	1.98E+00	6.44E-01	2.21E-02
2117	359050	3800850	7.99E-01	5.28E-02	7.71E-02	2.07E-02	7.71E-02	2.07E-02	1.00E+00	2.69E-01	2.13E+00	6.79E-01	2.38E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2118	359100	3800850	8.59E-01	5.52E-02	8.15E-02	2.18E-02	8.15E-02	2.18E-02	1.08E+00	2.83E-01	2.29E+00	7.26E-01	2.56E-02
2119	359150	3800850	9.18E-01	5.81E-02	8.71E-02	2.31E-02	8.71E-02	2.31E-02	1.15E+00	3.02E-01	2.45E+00	7.77E-01	2.74E-02
2120	359200	3800850	9.83E-01	6.15E-02	9.28E-02	2.47E-02	9.28E-02	2.47E-02	1.23E+00	3.22E-01	2.62E+00	8.66E-01	2.93E-02
2121	359250	3800850	1.03E+00	6.57E-02	9.86E-02	2.65E-02	9.86E-02	2.65E-02	1.29E+00	3.42E-01	2.74E+00	1.05E+00	3.06E-02
2122	359300	3800850	1.11E+00	7.31E-02	1.10E-01	2.99E-02	1.10E-01	2.99E-02	1.39E+00	3.84E-01	2.95E+00	1.25E+00	3.30E-02
2123	359350	3800850	1.13E+00	7.86E-02	1.22E-01	3.23E-02	1.22E-01	3.23E-02	1.41E+00	4.29E-01	3.00E+00	1.48E+00	3.36E-02
2124	359400	3800850	1.14E+00	8.66E-02	1.42E-01	3.59E-02	1.42E-01	3.59E-02	1.43E+00	5.00E-01	3.03E+00	1.72E+00	3.38E-02
2125	359450	3800850	1.08E+00	9.12E-02	1.58E-01	3.79E-02	1.58E-01	3.79E-02	1.36E+00	5.57E-01	2.88E+00	1.94E+00	3.22E-02
2126	359500	3800850	1.03E+00	1.00E-01	1.73E-01	4.19E-02	1.73E-01	4.19E-02	1.29E+00	6.09E-01	2.74E+00	2.13E+00	3.06E-02
2127	359550	3800850	1.09E+00	1.11E-01	1.83E-01	4.65E-02	1.83E-01	4.65E-02	1.37E+00	6.42E-01	2.90E+00	2.25E+00	3.24E-02
2128	359600	3800850	1.21E+00	1.22E-01	1.84E-01	5.17E-02	1.84E-01	5.17E-02	1.52E+00	6.47E-01	3.23E+00	2.27E+00	3.61E-02
2129	359650	3800850	1.25E+00	1.38E-01	1.93E-01	5.85E-02	1.93E-01	5.85E-02	1.58E+00	6.79E-01	3.34E+00	2.18E+00	3.73E-02
2130	359700	3800850	1.28E+00	1.48E-01	2.06E-01	6.31E-02	2.06E-01	6.31E-02	1.61E+00	7.23E-01	3.42E+00	2.44E+00	3.83E-02
2131	359750	3800850	1.51E+00	1.61E-01	2.28E-01	6.89E-02	2.28E-01	6.89E-02	1.90E+00	8.00E-01	4.03E+00	2.64E+00	4.50E-02
2132	359800	3800850	1.58E+00	1.73E-01	2.50E-01	7.41E-02	2.50E-01	7.41E-02	1.98E+00	8.81E-01	4.21E+00	2.71E+00	4.70E-02
2133	359850	3800850	1.70E+00	1.92E-01	2.70E-01	8.26E-02	2.70E-01	8.26E-02	2.14E+00	9.50E-01	4.53E+00	2.61E+00	5.06E-02
2134	359900	3800850	1.70E+00	1.97E-01	2.60E-01	8.46E-02	2.60E-01	8.46E-02	2.14E+00	9.14E-01	4.53E+00	2.46E+00	5.07E-02
2135	359950	3800850	1.53E+00	1.85E-01	2.60E-01	7.94E-02	2.60E-01	7.94E-02	1.92E+00	9.11E-01	4.07E+00	2.50E+00	4.55E-02
2136	360000	3800850	1.43E+00	1.76E-01	2.72E-01	7.54E-02	2.72E-01	7.54E-02	1.80E+00	9.56E-01	3.82E+00	2.62E+00	4.27E-02
2137	360050	3800850	1.55E+00	1.61E-01	2.54E-01	6.88E-02	2.54E-01	6.88E-02	1.95E+00	8.96E-01	4.14E+00	2.46E+00	4.62E-02
2138	360100	3800850	1.89E+00	1.46E-01	2.50E-01	6.23E-02	2.50E-01	6.23E-02	2.37E+00	8.78E-01	5.04E+00	2.55E+00	5.63E-02
2139	360150	3800850	1.79E+00	1.27E-01	2.65E-01	5.40E-02	2.65E-01	5.40E-02	2.25E+00	9.34E-01	4.77E+00	2.75E+00	5.33E-02
2140	360200	3800850	1.71E+00	1.06E-01	2.48E-01	4.50E-02	2.48E-01	4.50E-02	2.15E+00	8.86E-01	4.56E+00	2.43E+00	5.09E-02
2141	360250	3800850	1.60E+00	8.68E-02	2.25E-01	3.65E-02	2.25E-01	3.65E-02	2.02E+00	8.01E-01	4.27E+00	1.96E+00	4.78E-02
2142	360300	3800850	1.34E+00	7.14E-02	1.80E-01	2.98E-02	1.80E-01	2.98E-02	1.68E+00	6.48E-01	3.56E+00	1.51E+00	3.98E-02
2143	360350	3800850	1.27E+00	6.10E-02	1.41E-01	2.52E-02	1.41E-01	2.52E-02	1.59E+00	4.89E-01	3.38E+00	1.55E+00	3.78E-02
2144	360400	3800850	1.21E+00	5.31E-02	1.41E-01	2.18E-02	1.41E-01	2.18E-02	1.52E+00	4.89E-01	3.24E+00	1.58E+00	3.62E-02
2145	360450	3800850	1.15E+00	4.71E-02	1.25E-01	1.92E-02	1.25E-01	1.92E-02	1.45E+00	4.38E-01	3.07E+00	1.36E+00	3.43E-02
2146	360500	3800850	1.09E+00	4.25E-02	1.15E-01	1.72E-02	1.15E-01	1.72E-02	1.36E+00	3.96E-01	2.89E+00	1.18E+00	3.23E-02
2147	360550	3800850	1.10E+00	3.88E-02	1.16E-01	1.57E-02	1.16E-01	1.57E-02	1.37E+00	4.03E-01	2.92E+00	1.10E+00	3.26E-02
2148	360600	3800850	9.72E-01	3.58E-02	1.11E-01	1.44E-02	1.11E-01	1.44E-02	1.22E+00	3.87E-01	2.59E+00	1.03E+00	2.90E-02
2149	360650	3800850	9.14E-01	3.32E-02	1.02E-01	1.33E-02	1.02E-01	1.33E-02	1.15E+00	3.56E-01	2.44E+00	1.04E+00	2.73E-02
2150	360700	3800850	9.63E-01	3.10E-02	8.99E-02	1.23E-02	8.99E-02	1.23E-02	1.21E+00	3.15E-01	2.57E+00	1.11E+00	2.87E-02
2151	360750	3800850	9.35E-01	2.92E-02	9.39E-02	1.16E-02	9.39E-02	1.16E-02	1.17E+00	3.21E-01	2.49E+00	1.18E+00	2.79E-02
2152	360800	3800850	8.46E-01	2.75E-02	9.90E-02	1.09E-02	9.90E-02	1.09E-02	1.06E+00	3.40E-01	2.26E+00	1.24E+00	2.52E-02
2153	360850	3800850	7.25E-01	2.61E-02	1.01E-01	1.03E-02	1.01E-01	1.03E-02	9.10E-01	3.49E-01	1.93E+00	1.25E+00	2.16E-02
2154	360900	3800850	7.24E-01	2.49E-02	1.01E-01	9.81E-03	1.01E-01	9.81E-03	9.08E-01	3.49E-01	1.93E+00	1.24E+00	2.16E-02
2155	360950	3800850	7.19E-01	2.39E-02	9.80E-02	9.39E-03	9.80E-02	9.39E-03	9.01E-01	3.40E-01	1.92E+00	1.19E+00	2.14E-02
2156	361000	3800850	6.89E-01	2.30E-02	9.36E-02	9.02E-03	9.36E-02	9.02E-03	8.63E-01	3.25E-01	1.84E+00	1.13E+00	2.05E-02
2157	361050	3800850	6.42E-01	2.21E-02	8.80E-02	8.70E-03	8.80E-02	8.70E-03	8.05E-01	3.07E-01	1.71E+00	1.05E+00	1.91E-02
2158	358500	3800900	5.33E-01	4.09E-02	5.67E-02	1.54E-02	5.67E-02	1.54E-02	6.66E-01	1.94E-01	1.42E+00	4.53E-01	1.59E-02
2159	358550	3800900	5.49E-01	4.16E-02	5.75E-02	1.57E-02	5.75E-02	1.57E-02	6.87E-01	1.97E-01	1.46E+00	4.69E-01	1.64E-02
2160	358600	3800900	5.65E-01	4.24E-02	5.84E-02	1.60E-02	5.84E-02	1.60E-02	7.07E-01	2.00E-01	1.51E+00	4.85E-01	1.69E-02
2161	358650	3800900	5.81E-01	4.32E-02	5.92E-02	1.64E-02	5.92E-02	1.64E-02	7.26E-01	2.03E-01	1.55E+00	5.01E-01	1.73E-02
2162	358700	3800900	5.95E-01	4.41E-02	6.00E-02	1.68E-02	6.00E-02	1.68E-02	7.44E-01	2.06E-01	1.59E+00	5.17E-01	1.77E-02
2163	358750	3800900	6.08E-01	4.51E-02	6.07E-02	1.73E-02	6.07E-02	1.73E-02	7.60E-01	2.11E-01	1.62E+00	5.34E-01	1.81E-02
2164	358800	3800900	6.35E-01	4.63E-02	6.39E-02	1.78E-02	6.39E-02	1.78E-02	7.95E-01	2.23E-01	1.69E+00	5.49E-01	1.89E-02
2165	358850	3800900	6.35E-01	4.84E-02	6.87E-02	1.88E-02	6.87E-02	1.88E-02	7.95E-01	2.39E-01	1.69E+00	5.65E-01	1.89E-02
2166	358900	3800900	6.84E-01	4.91E-02	6.89E-02	1.91E-02	6.89E-02	1.91E-02	8.56E-01	2.40E-01	1.82E+00	5.79E-01	2.04E-02
2167	358950	3800900	7.34E-01	5.08E-02	6.99E-02	1.98E-02	6.99E-02	1.98E-02	9.19E-01	2.43E-01	1.96E+00	6.02E-01	2.19E-02
2168	359000	3800900	7.94E-01	5.28E-02	7.32E-02	2.07E-02	7.32E-02	2.07E-02	9.94E-01	2.54E-01	2.12E+00	6.41E-01	2.36E-02
2169	359050	3800900	8.48E-01	5.51E-02	7.77E-02	2.18E-02	7.77E-02	2.18E-02	1.06E+00	2.69E-01	2.26E+00	6.81E-01	2.53E-02
2170	359100	3800900	8.87E-01	5.78E-02	8.24E-02	2.30E-02	8.24E-02	2.30E-02	1.11E+00	2.86E-01	2.36E+00	7.53E-01	2.64E-02
2171	359150	3800900	9.33E-01	6.09E-02	8.72E-02	2.44E-02	8.72E-02	2.44E-02	1.17E+00	3.02E-01	2.49E+00	8.97E-01	2.78E-02
2172	359200	3800900	9.73E-01	6.47E-02	9.39E-02	2.61E-02	9.39E-02	2.61E-02	1.22E+00	3.27E-01	2.59E+00	1.06E+00	2.90E-02
2173	359250	3800900	1.00E+00	6.91E-02	1.03E-01	2.81E-02	1.03E-01	2.81E-02	1.26E+00	3.62E-01	2.68E+00	1.24E+00	2.99E-02
2174	359300	3800900	1.02E+00	7.43E-02	1.18E-01	3.04E-02	1.18E-01	3.04E-02	1.28E+00	4.15E-01	2.72E+00	1.43E+00	3.04E-02
2175	359350	3800900	1.02E+00	8.04E-02	1.33E-01	3.31E-02	1.33E-01	3.31E-02	1.28E+00	4.67E-01	2.72E+00	1.62E+00	3.04E-02
2176	359400	3800900	9.94E-01	8.73E-02	1.47E-01	3.62E-02	1.47E-01	3.62E-02	1.25E+00	5.15E-01	2.65E+00	1.79E+00	2.96E-02
2177	359450	3800900	9.42E-01	9.53E-02	1.57E-01	3.97E-02	1.57E-01	3.97E-02	1.18E+00	5.52E-01	2.51E+00	1.93E+00	2.81E-02
2178	359500	3800900	9.91E-01	1.04E-01	1.63E-01	4.37E-02	1.63E-01	4.37E-02	1.24E+00	5.72E-01	2.64E+00	2.00E+00	2.95E-02
2179	359550	3800900	1.08E+00	1.14E-01	1.62E-01	4.80E-02	1.62E-01	4.80E-02	1.36E+00	5.69E-01	2.88E+00	1.99E+00	3.22E-02
2180	359600	3800900	1.10E+00	1.25E-01	1.72E-01	5.28E-02	1.72E-01	5.28E-02	1.38E+00	6.02E-01	2.93E+00	1.94E+00	3.28E-02
2181	359650	3800900	1.14E+00	1.36E-01	1.88E-01	5.77E-02	1.88E-01	5.77E-02	1.43E+00	6.58E-01	3.04E+00	2.15E+00	3.40E-02
2182	359700	3800900	1.33E+00	1.47E-01	2.05E-01	6.26E-02	2.05E-01	6.26E-02	1.67E+00	7.18E-01	3.54E+00	2.32E+00	3.96E-02
2183	359750	3800900	1.41E+00	1.57E-01	2.25E-01	6.72E-02	2.25E-01	6.72E-02	1.77E+00	7.92E-01	3.75E+00	2.40E+00	4.19E-02
2184	359800	3800900	1.47E+00	1.66E-01	2.34E-01	7.10E-02	2.34E-01	7.10E-02	1.85E+00	8.25E-01	3.92E+00	2.33E+00	4.38E-02
2185	359850	3800900	1.54E+00	1.76E-01	2.36E-01	7.56E-02	2.36E-01	7.56E-02	1.94E+00	8.27E-01	4.11E+00	2.20E+00	4.59E-02
2186	359900	3800900	1.46E+00	1.73E-01	2.28E-01	7.41E-02	2.28E-01	7.41E-02	1.83E+00	7.95E-01	3.88E+00	2.22E+00	4.34E-02
2187	359950	3800900	1.35E+00	1.68E-01	2.47E-01	7.20E-02	2.47E-01	7.20E-02	1.69E+00	8.65E-01	3.60E+00	2.35E+00	4.02E-02
2188	360000	3800900	1.37E+00	1.58E-01	2.47E-01	6.75E-02	2.47E-01	6.75E-02	1.72E+00	8.69E-01	3.66E+00	2.36E+00	4.09E-02
2189	360050	3800900	1.58E+00	1.46E-01	2.33E-01	6.22E-02	2.33E-01	6.22E-02	1.98E+00	8.12E-01	4.21E+00	2.25E+00	4.71E-02
2190	360100	3800900	1.74E+00	1.32E-01	2.31E-01	5.63E-02	2.31E-01	5.63E-02	2.19E+00	8.11E-01	4.64E+00	2.45E+00	5.18E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2191	360150	3800900	1.63E+00	1.16E-01	2.50E-01	4.91E-02	2.50E-01	4.91E-02	2.05E+00	8.80E-01	4.34E+00	2.57E+00	4.85E-02
2192	360200	3800900	1.51E+00	9.81E-02	2.34E-01	4.14E-02	2.34E-01	4.14E-02	1.90E+00	8.30E-01	4.02E+00	2.27E+00	4.49E-02
2193	360250	3800900	1.43E+00	8.14E-02	2.19E-01	3.41E-02	2.19E-01	3.41E-02	1.80E+00	7.77E-01	3.81E+00	1.92E+00	4.25E-02
2194	360300	3800900	1.21E+00	6.79E-02	1.80E-01	2.83E-02	1.80E-01	2.83E-02	1.52E+00	6.43E-01	3.23E+00	1.53E+00	3.61E-02
2195	360350	3800900	1.20E+00	5.85E-02	1.36E-01	2.42E-02	1.36E-01	2.42E-02	1.51E+00	4.73E-01	3.20E+00	1.45E+00	3.57E-02
2196	360400	3800900	1.13E+00	5.12E-02	1.38E-01	2.10E-02	1.38E-01	2.10E-02	1.43E+00	4.77E-01	3.03E+00	1.53E+00	3.38E-02
2197	360450	3800900	1.09E+00	4.56E-02	1.28E-01	1.86E-02	1.28E-01	1.86E-02	1.37E+00	4.46E-01	2.90E+00	1.42E+00	3.24E-02
2198	360500	3800900	1.00E+00	4.12E-02	1.06E-01	1.67E-02	1.06E-01	1.67E-02	1.26E+00	3.73E-01	2.67E+00	1.16E+00	2.98E-02
2199	360550	3800900	1.01E+00	3.77E-02	1.06E-01	1.52E-02	1.06E-01	1.52E-02	1.27E+00	3.66E-01	2.70E+00	1.03E+00	3.02E-02
2200	360600	3800900	9.74E-01	3.48E-02	1.05E-01	1.40E-02	1.05E-01	1.40E-02	1.22E+00	3.63E-01	2.60E+00	9.78E-01	2.90E-02
2201	360650	3800900	8.48E-01	3.24E-02	9.92E-02	1.29E-02	9.92E-02	1.29E-02	1.06E+00	3.45E-01	2.26E+00	9.08E-01	2.53E-02
2202	360700	3800900	8.33E-01	3.03E-02	9.06E-02	1.20E-02	9.06E-02	1.20E-02	1.05E+00	3.16E-01	2.22E+00	9.50E-01	2.48E-02
2203	360750	3800900	8.76E-01	2.85E-02	8.15E-02	1.13E-02	8.15E-02	1.13E-02	1.10E+00	2.81E-01	2.33E+00	1.00E+00	2.61E-02
2204	360800	3800900	8.52E-01	2.69E-02	8.36E-02	1.06E-02	8.36E-02	1.06E-02	1.07E+00	2.88E-01	2.27E+00	1.04E+00	2.54E-02
2205	360850	3800900	7.80E-01	2.55E-02	8.80E-02	1.01E-02	8.80E-02	1.01E-02	9.79E-01	3.02E-01	2.08E+00	1.09E+00	2.32E-02
2206	360900	3800900	6.81E-01	2.44E-02	9.02E-02	9.58E-03	9.02E-02	9.58E-03	8.54E-01	3.11E-01	1.82E+00	1.11E+00	2.03E-02
2207	360950	3800900	6.40E-01	2.33E-02	9.04E-02	9.16E-03	9.04E-02	9.16E-03	8.02E-01	3.12E-01	1.71E+00	1.11E+00	1.91E-02
2208	361000	3800900	6.45E-01	2.24E-02	8.88E-02	8.79E-03	8.88E-02	8.79E-03	8.09E-01	3.07E-01	1.72E+00	1.08E+00	1.92E-02
2209	358550	3800950	5.20E-01	4.26E-02	5.61E-02	1.62E-02	5.61E-02	1.62E-02	6.50E-01	1.92E-01	1.39E+00	4.59E-01	1.55E-02
2210	358600	3800950	5.31E-01	4.34E-02	5.66E-02	1.65E-02	5.66E-02	1.65E-02	6.64E-01	1.94E-01	1.41E+00	4.73E-01	1.58E-02
2211	358650	3800950	5.40E-01	4.43E-02	5.75E-02	1.69E-02	5.75E-02	1.69E-02	6.76E-01	2.00E-01	1.44E+00	4.86E-01	1.61E-02
2212	358700	3800950	5.48E-01	4.53E-02	5.92E-02	1.74E-02	5.92E-02	1.74E-02	6.86E-01	2.06E-01	1.46E+00	4.99E-01	1.63E-02
2213	358750	3800950	5.93E-01	4.64E-02	6.16E-02	1.79E-02	6.16E-02	1.79E-02	7.42E-01	2.15E-01	1.58E+00	5.11E-01	1.77E-02
2214	358800	3800950	6.34E-01	4.79E-02	6.52E-02	1.87E-02	6.52E-02	1.87E-02	7.94E-01	2.27E-01	1.69E+00	5.23E-01	1.89E-02
2215	358850	3800950	6.73E-01	4.91E-02	6.46E-02	1.91E-02	6.46E-02	1.91E-02	8.42E-01	2.25E-01	1.79E+00	5.38E-01	2.01E-02
2216	358900	3800950	7.29E-01	5.08E-02	6.64E-02	1.99E-02	6.64E-02	1.99E-02	9.13E-01	2.31E-01	1.94E+00	5.70E-01	2.17E-02
2217	358950	3800950	7.62E-01	5.26E-02	7.00E-02	2.07E-02	7.00E-02	2.07E-02	9.54E-01	2.42E-01	2.03E+00	6.03E-01	2.27E-02
2218	359000	3800950	8.05E-01	5.48E-02	7.39E-02	2.17E-02	7.39E-02	2.17E-02	1.01E+00	2.56E-01	2.15E+00	6.61E-01	2.40E-02
2219	359050	3800950	8.58E-01	5.73E-02	7.87E-02	2.28E-02	7.87E-02	2.28E-02	1.07E+00	2.73E-01	2.29E+00	7.79E-01	2.56E-02
2220	359100	3800950	8.84E-01	6.03E-02	8.46E-02	2.41E-02	8.46E-02	2.41E-02	1.11E+00	2.94E-01	2.36E+00	9.11E-01	2.63E-02
2221	359150	3800950	9.14E-01	6.37E-02	9.10E-02	2.57E-02	9.10E-02	2.57E-02	1.15E+00	3.16E-01	2.44E+00	1.06E+00	2.72E-02
2222	359200	3800950	9.35E-01	6.76E-02	1.01E-01	2.74E-02	1.01E-01	2.74E-02	1.17E+00	3.53E-01	2.49E+00	1.21E+00	2.79E-02
2223	359250	3800950	9.44E-01	7.22E-02	1.13E-01	2.95E-02	1.13E-01	2.95E-02	1.18E+00	3.97E-01	2.52E+00	1.37E+00	2.81E-02
2224	359300	3800950	9.36E-01	7.75E-02	1.25E-01	3.18E-02	1.25E-01	3.18E-02	1.17E+00	4.38E-01	2.50E+00	1.52E+00	2.79E-02
2225	359350	3800950	9.09E-01	8.36E-02	1.35E-01	3.46E-02	1.35E-01	3.46E-02	1.14E+00	4.74E-01	2.42E+00	1.65E+00	2.71E-02
2226	359400	3800950	8.60E-01	9.06E-02	1.43E-01	3.76E-02	1.43E-01	3.76E-02	1.08E+00	5.00E-01	2.29E+00	1.74E+00	2.56E-02
2227	359450	3800950	9.01E-01	9.83E-02	1.46E-01	4.11E-02	1.46E-01	4.11E-02	1.13E+00	5.11E-01	2.40E+00	1.78E+00	2.69E-02
2228	359500	3800950	9.64E-01	1.07E-01	1.47E-01	4.48E-02	1.47E-01	4.48E-02	1.21E+00	5.16E-01	2.57E+00	1.75E+00	2.87E-02
2229	359550	3800950	9.84E-01	1.16E-01	1.59E-01	4.88E-02	1.59E-01	4.88E-02	1.23E+00	5.54E-01	2.62E+00	1.74E+00	2.93E-02
2230	359600	3800950	1.01E+00	1.25E-01	1.72E-01	5.30E-02	1.72E-01	5.30E-02	1.27E+00	6.02E-01	2.70E+00	1.91E+00	3.02E-02
2231	359650	3800950	1.17E+00	1.35E-01	1.85E-01	5.72E-02	1.85E-01	5.72E-02	1.47E+00	6.47E-01	3.12E+00	2.05E+00	3.49E-02
2232	359700	3800950	1.25E+00	1.44E-01	2.03E-01	6.12E-02	2.03E-01	6.12E-02	1.57E+00	7.13E-01	3.34E+00	2.13E+00	3.73E-02
2233	359750	3800950	1.29E+00	1.51E-01	2.13E-01	6.46E-02	2.13E-01	6.46E-02	1.63E+00	7.50E-01	3.45E+00	2.10E+00	3.85E-02
2234	359800	3800950	1.38E+00	1.57E-01	2.12E-01	6.71E-02	2.12E-01	6.71E-02	1.73E+00	7.45E-01	3.67E+00	2.01E+00	4.10E-02
2235	359850	3800950	1.33E+00	1.63E-01	2.10E-01	6.98E-02	2.10E-01	6.98E-02	1.67E+00	7.33E-01	3.55E+00	2.01E+00	3.96E-02
2236	359900	3800950	1.26E+00	1.63E-01	2.26E-01	6.97E-02	2.26E-01	6.97E-02	1.58E+00	7.87E-01	3.35E+00	2.17E+00	3.74E-02
2237	359950	3800950	1.36E+00	1.59E-01	2.42E-01	6.84E-02	2.42E-01	6.84E-02	1.70E+00	8.47E-01	3.61E+00	2.24E+00	4.04E-02
2238	360000	3800950	1.32E+00	1.44E-01	2.26E-01	6.17E-02	2.26E-01	6.17E-02	1.66E+00	7.96E-01	3.52E+00	2.14E+00	3.93E-02
2239	360050	3800950	1.53E+00	1.32E-01	2.19E-01	5.64E-02	2.19E-01	5.64E-02	1.92E+00	7.66E-01	4.08E+00	2.08E+00	4.56E-02
2240	360100	3800950	1.57E+00	1.20E-01	2.21E-01	5.11E-02	2.21E-01	5.11E-02	1.97E+00	7.72E-01	4.18E+00	2.34E+00	4.67E-02
2241	360150	3800950	1.47E+00	1.06E-01	2.35E-01	4.48E-02	2.35E-01	4.48E-02	1.85E+00	8.26E-01	3.92E+00	2.40E+00	4.38E-02
2242	360200	3800950	1.34E+00	9.07E-02	2.25E-01	3.82E-02	2.25E-01	3.82E-02	1.68E+00	7.91E-01	3.57E+00	2.11E+00	3.99E-02
2243	360250	3800950	1.28E+00	7.64E-02	2.11E-01	3.20E-02	2.11E-01	3.20E-02	1.60E+00	7.46E-01	3.40E+00	1.87E+00	3.80E-02
2244	360300	3800950	1.10E+00	6.45E-02	1.77E-01	2.68E-02	1.77E-01	2.68E-02	1.38E+00	6.30E-01	2.93E+00	1.52E+00	3.28E-02
2245	360350	3800950	1.12E+00	5.61E-02	1.35E-01	2.31E-02	1.35E-01	2.31E-02	1.40E+00	4.81E-01	2.97E+00	1.35E+00	3.32E-02
2246	360400	3800950	1.05E+00	4.94E-02	1.33E-01	2.02E-02	1.33E-01	2.02E-02	1.32E+00	4.58E-01	2.81E+00	1.44E+00	3.14E-02
2247	360450	3800950	1.00E+00	4.41E-02	1.27E-01	1.80E-02	1.27E-01	1.80E-02	1.26E+00	4.40E-01	2.67E+00	1.40E+00	2.99E-02
2248	360500	3800950	9.70E-01	4.00E-02	1.11E-01	1.62E-02	1.11E-01	1.62E-02	1.22E+00	3.87E-01	2.59E+00	1.20E+00	2.89E-02
2249	360550	3800950	8.98E-01	3.67E-02	9.56E-02	1.48E-02	9.56E-02	1.48E-02	1.13E+00	3.28E-01	2.39E+00	1.01E+00	2.68E-02
2250	360600	3800950	9.24E-01	3.39E-02	9.69E-02	1.36E-02	9.69E-02	1.36E-02	1.16E+00	3.35E-01	2.46E+00	9.15E-01	2.75E-02
2251	360650	3800950	8.62E-01	3.16E-02	9.43E-02	1.26E-02	9.43E-02	1.26E-02	1.08E+00	3.27E-01	2.30E+00	8.68E-01	2.57E-02
2252	360700	3800950	7.45E-01	2.96E-02	8.87E-02	1.18E-02	8.87E-02	1.18E-02	9.35E-01	3.08E-01	1.99E+00	8.05E-01	2.22E-02
2253	360750	3800950	7.65E-01	2.79E-02	8.11E-02	1.10E-02	8.11E-02	1.10E-02	9.60E-01	2.82E-01	2.04E+00	8.66E-01	2.28E-02
2254	360800	3800950	7.97E-01	2.63E-02	7.40E-02	1.04E-02	7.40E-02	1.04E-02	1.00E+00	2.54E-01	2.12E+00	9.06E-01	2.37E-02
2255	360850	3800950	7.77E-01	2.50E-02	7.57E-02	9.85E-03	7.57E-02	9.85E-03	9.75E-01	2.61E-01	2.07E+00	9.28E-01	2.32E-02
2256	360900	3800950	7.18E-01	2.39E-02	7.88E-02	9.37E-03	7.88E-02	9.37E-03	9.01E-01	2.70E-01	1.92E+00	9.71E-01	2.14E-02
2257	360950	3800950	6.37E-01	2.28E-02	8.10E-02	8.96E-03	8.10E-02	8.96E-03	7.99E-01	2.78E-01	1.70E+00	9.92E-01	1.90E-02
2258	358600	3801000	5.10E-01	4.44E-02	5.62E-02	1.70E-02	5.62E-02	1.70E-02	6.38E-01	1.95E-01	1.36E+00	4.55E-01	1.52E-02
2259	358650	3801000	5.45E-01	4.54E-02	5.75E-02	1.75E-02	5.75E-02	1.75E-02	6.81E-01	2.00E-01	1.45E+00	4.65E-01	1.62E-02
2260	358700	3801000	5.90E-01	4.65E-02	5.89E-02	1.80E-02	5.89E-02	1.80E-02	7.38E-01	2.05E-01	1.57E+00	4.75E-01	1.76E-02
2261	358750	3801000	6.33E-01	4.77E-02	6.03E-02	1.85E-02	6.03E-02	1.85E-02	7.92E-01	2.10E-01	1.69E+00	4.84E-01	1.89E-02
2262	358800	3801000	6.70E-01	4.91E-02	6.16E-02	1.91E-02	6.16E-02	1.91E-02	8.39E-01	2.14E-01	1.79E+00	5.12E-01	2.00E-02
2263	358850	3801000	6.95E-01	5.07E-02	6.38E-02	1.98E-02	6.38E-02	1.98E-02	8.69E-01	2.20E-01	1.85E+00	5.44E-01	2.07E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2264	358900	3801000	7.32E-01	5.24E-02	6.80E-02	2.06E-02	6.80E-02	2.06E-02	9.17E-01	2.35E-01	1.95E+00	5.85E-01	2.18E-02
2265	358950	3801000	7.69E-01	5.45E-02	7.25E-02	2.16E-02	7.25E-02	2.16E-02	9.62E-01	2.51E-01	2.05E+00	6.82E-01	2.29E-02
2266	359000	3801000	8.02E-01	5.68E-02	7.74E-02	2.26E-02	7.74E-02	2.26E-02	1.00E+00	2.68E-01	2.14E+00	7.90E-01	2.39E-02
2267	359050	3801000	8.31E-01	5.95E-02	8.25E-02	2.38E-02	8.25E-02	2.38E-02	1.04E+00	2.86E-01	2.22E+00	9.09E-01	2.48E-02
2268	359100	3801000	8.64E-01	6.26E-02	8.80E-02	2.52E-02	8.80E-02	2.52E-02	1.08E+00	3.06E-01	2.30E+00	1.04E+00	2.57E-02
2269	359150	3801000	8.67E-01	6.62E-02	9.77E-02	2.68E-02	9.77E-02	2.68E-02	1.09E+00	3.42E-01	2.31E+00	1.17E+00	2.58E-02
2270	359200	3801000	8.69E-01	7.02E-02	1.08E-01	2.86E-02	1.08E-01	2.86E-02	1.09E+00	3.77E-01	2.32E+00	1.29E+00	2.59E-02
2271	359250	3801000	8.57E-01	7.49E-02	1.17E-01	3.07E-02	1.17E-01	3.07E-02	1.07E+00	4.10E-01	2.29E+00	1.41E+00	2.56E-02
2272	359300	3801000	8.29E-01	8.02E-02	1.25E-01	3.31E-02	1.25E-01	3.31E-02	1.04E+00	4.37E-01	2.21E+00	1.51E+00	2.47E-02
2273	359350	3801000	7.83E-01	8.62E-02	1.30E-01	3.57E-02	1.30E-01	3.57E-02	9.82E-01	4.54E-01	2.09E+00	1.57E+00	2.33E-02
2274	359400	3801000	8.18E-01	9.28E-02	1.31E-01	3.87E-02	1.31E-01	3.87E-02	1.03E+00	4.59E-01	2.18E+00	1.59E+00	2.44E-02
2275	359450	3801000	8.62E-01	1.00E-01	1.35E-01	4.19E-02	1.35E-01	4.19E-02	1.08E+00	4.71E-01	2.30E+00	1.55E+00	2.57E-02
2276	359500	3801000	8.85E-01	1.08E-01	1.46E-01	4.53E-02	1.46E-01	4.53E-02	1.11E+00	5.11E-01	2.36E+00	1.56E+00	2.64E-02
2277	359550	3801000	9.06E-01	1.16E-01	1.58E-01	4.89E-02	1.58E-01	4.89E-02	1.14E+00	5.51E-01	2.42E+00	1.70E+00	2.70E-02
2278	359600	3801000	1.04E+00	1.24E-01	1.67E-01	5.25E-02	1.67E-01	5.25E-02	1.31E+00	5.86E-01	2.77E+00	1.81E+00	3.10E-02
2279	359650	3801000	1.12E+00	1.32E-01	1.84E-01	5.59E-02	1.84E-01	5.59E-02	1.40E+00	6.44E-01	2.98E+00	1.89E+00	3.33E-02
2280	359700	3801000	1.14E+00	1.39E-01	1.94E-01	5.90E-02	1.94E-01	5.90E-02	1.43E+00	6.82E-01	3.03E+00	1.89E+00	3.39E-02
2281	359750	3801000	1.22E+00	1.44E-01	1.96E-01	6.14E-02	1.96E-01	6.14E-02	1.53E+00	6.88E-01	3.25E+00	1.86E+00	3.63E-02
2282	359800	3801000	1.23E+00	1.47E-01	1.92E-01	6.29E-02	1.92E-01	6.29E-02	1.55E+00	6.73E-01	3.29E+00	1.78E+00	3.68E-02
2283	359850	3801000	1.18E+00	1.48E-01	1.95E-01	6.31E-02	1.95E-01	6.31E-02	1.48E+00	6.81E-01	3.15E+00	1.90E+00	3.52E-02
2284	359900	3801000	1.17E+00	1.45E-01	2.10E-01	6.18E-02	2.10E-01	6.18E-02	1.47E+00	7.31E-01	3.12E+00	1.95E+00	3.48E-02
2285	359950	3801000	1.20E+00	1.39E-01	2.15E-01	5.96E-02	2.15E-01	5.96E-02	1.50E+00	7.52E-01	3.19E+00	2.00E+00	3.57E-02
2286	360000	3801000	1.27E+00	1.29E-01	2.01E-01	5.50E-02	2.01E-01	5.50E-02	1.60E+00	7.04E-01	3.39E+00	1.91E+00	3.79E-02
2287	360050	3801000	1.44E+00	1.21E-01	2.05E-01	5.13E-02	2.05E-01	5.13E-02	1.81E+00	7.16E-01	3.85E+00	1.98E+00	4.30E-02
2288	360100	3801000	1.40E+00	1.10E-01	2.11E-01	4.65E-02	2.11E-01	4.65E-02	1.76E+00	7.35E-01	3.74E+00	2.21E+00	4.18E-02
2289	360150	3801000	1.33E+00	9.72E-02	2.20E-01	4.11E-02	2.20E-01	4.11E-02	1.66E+00	7.75E-01	3.53E+00	2.23E+00	3.95E-02
2290	360200	3801000	1.23E+00	8.41E-02	2.14E-01	3.54E-02	2.14E-01	3.54E-02	1.54E+00	7.53E-01	3.27E+00	1.96E+00	3.66E-02
2291	360250	3801000	1.14E+00	7.17E-02	2.02E-01	3.00E-02	2.02E-01	3.00E-02	1.44E+00	7.11E-01	3.05E+00	1.79E+00	3.41E-02
2292	360300	3801000	1.03E+00	6.13E-02	1.73E-01	2.54E-02	1.73E-01	2.54E-02	1.29E+00	6.11E-01	2.74E+00	1.49E+00	3.06E-02
2293	360350	3801000	1.03E+00	5.37E-02	1.35E-01	2.21E-02	1.35E-01	2.21E-02	1.29E+00	4.81E-01	2.75E+00	1.23E+00	3.07E-02
2294	360400	3801000	9.66E-01	4.75E-02	1.26E-01	1.95E-02	1.26E-01	1.95E-02	1.21E+00	4.35E-01	2.58E+00	1.33E+00	2.88E-02
2295	360450	3801000	9.59E-01	4.27E-02	1.23E-01	1.73E-02	1.23E-01	1.73E-02	1.20E+00	4.26E-01	2.56E+00	1.34E+00	2.86E-02
2296	360500	3801000	9.17E-01	3.88E-02	1.12E-01	1.57E-02	1.12E-01	1.57E-02	1.15E+00	3.89E-01	2.44E+00	1.21E+00	2.73E-02
2297	360550	3801000	8.45E-01	3.56E-02	9.39E-02	1.43E-02	9.39E-02	1.43E-02	1.06E+00	3.28E-01	2.25E+00	9.91E-01	2.52E-02
2298	360600	3801000	8.42E-01	3.30E-02	8.85E-02	1.32E-02	8.85E-02	1.32E-02	1.06E+00	3.04E-01	2.24E+00	8.91E-01	2.51E-02
2299	360650	3801000	8.34E-01	3.08E-02	8.82E-02	1.23E-02	8.82E-02	1.23E-02	1.05E+00	3.04E-01	2.22E+00	8.18E-01	2.49E-02
2300	360700	3801000	7.83E-01	2.89E-02	8.50E-02	1.15E-02	8.50E-02	1.15E-02	9.83E-01	2.94E-01	2.09E+00	7.73E-01	2.33E-02
2301	360750	3801000	7.65E-01	2.73E-02	7.97E-02	1.08E-02	7.97E-02	1.08E-02	9.60E-01	2.77E-01	2.04E+00	7.36E-01	2.28E-02
2302	360800	3801000	7.09E-01	2.58E-02	7.29E-02	1.02E-02	7.29E-02	1.02E-02	8.89E-01	2.54E-01	1.89E+00	7.90E-01	2.11E-02
2303	360850	3801000	7.27E-01	2.45E-02	6.75E-02	9.66E-03	6.75E-02	9.66E-03	9.12E-01	2.32E-01	1.94E+00	8.22E-01	2.17E-02
2304	360900	3801000	7.10E-01	2.34E-02	6.88E-02	9.20E-03	6.88E-02	9.20E-03	8.90E-01	2.37E-01	1.89E+00	8.33E-01	2.12E-02
2305	358650	3801050	5.68E-01	4.65E-02	5.66E-02	1.80E-02	5.66E-02	1.80E-02	7.10E-01	1.97E-01	1.52E+00	4.47E-01	1.69E-02
2306	358700	3801050	6.16E-01	4.77E-02	5.76E-02	1.85E-02	5.76E-02	1.85E-02	7.70E-01	2.00E-01	1.64E+00	4.72E-01	1.83E-02
2307	358750	3801050	6.34E-01	4.90E-02	6.03E-02	1.91E-02	6.03E-02	1.91E-02	7.94E-01	2.07E-01	1.69E+00	4.99E-01	1.89E-02
2308	358800	3801050	6.67E-01	5.05E-02	6.38E-02	1.98E-02	6.38E-02	1.98E-02	8.35E-01	2.20E-01	1.78E+00	5.27E-01	1.99E-02
2309	358850	3801050	6.99E-01	5.22E-02	6.76E-02	2.06E-02	6.76E-02	2.06E-02	8.75E-01	2.33E-01	1.86E+00	6.02E-01	2.08E-02
2310	358900	3801050	7.29E-01	5.41E-02	7.16E-02	2.14E-02	7.16E-02	2.14E-02	9.12E-01	2.47E-01	1.94E+00	6.92E-01	2.17E-02
2311	358950	3801050	7.56E-01	5.63E-02	7.59E-02	2.24E-02	7.59E-02	2.24E-02	9.46E-01	2.63E-01	2.01E+00	7.90E-01	2.25E-02
2312	359000	3801050	7.78E-01	5.87E-02	8.03E-02	2.35E-02	8.03E-02	2.35E-02	9.74E-01	2.78E-01	2.07E+00	8.96E-01	2.32E-02
2313	359050	3801050	7.93E-01	6.15E-02	8.52E-02	2.48E-02	8.52E-02	2.48E-02	9.94E-01	2.97E-01	2.12E+00	1.00E+00	2.36E-02
2314	359100	3801050	8.01E-01	6.47E-02	9.39E-02	2.62E-02	9.39E-02	2.62E-02	1.00E+00	3.28E-01	2.14E+00	1.11E+00	2.39E-02
2315	359150	3801050	7.99E-01	6.84E-02	1.02E-01	2.78E-02	1.02E-01	2.78E-02	1.00E+00	3.57E-01	2.13E+00	1.22E+00	2.38E-02
2316	359200	3801050	7.84E-01	7.25E-02	1.09E-01	2.97E-02	1.09E-01	2.97E-02	9.83E-01	3.83E-01	2.09E+00	1.31E+00	2.34E-02
2317	359250	3801050	7.56E-01	7.71E-02	1.15E-01	3.17E-02	1.15E-01	3.17E-02	9.47E-01	4.03E-01	2.02E+00	1.38E+00	2.25E-02
2318	359300	3801050	7.13E-01	8.23E-02	1.18E-01	3.40E-02	1.18E-01	3.40E-02	8.93E-01	4.14E-01	1.90E+00	1.42E+00	2.12E-02
2319	359350	3801050	7.43E-01	8.80E-02	1.18E-01	3.66E-02	1.18E-01	3.66E-02	9.32E-01	4.15E-01	1.98E+00	1.42E+00	2.21E-02
2320	359400	3801050	7.73E-01	9.42E-02	1.24E-01	3.93E-02	1.24E-01	3.93E-02	9.71E-01	4.33E-01	2.06E+00	1.38E+00	2.31E-02
2321	359450	3801050	8.00E-01	1.01E-01	1.35E-01	4.23E-02	1.35E-01	4.23E-02	1.00E+00	4.72E-01	2.13E+00	1.40E+00	2.39E-02
2322	359500	3801050	8.14E-01	1.08E-01	1.45E-01	4.53E-02	1.45E-01	4.53E-02	1.02E+00	5.07E-01	2.17E+00	1.52E+00	2.43E-02
2323	359550	3801050	9.26E-01	1.15E-01	1.53E-01	4.84E-02	1.53E-01	4.84E-02	1.16E+00	5.34E-01	2.47E+00	1.62E+00	2.76E-02
2324	359600	3801050	1.00E+00	1.21E-01	1.67E-01	5.14E-02	1.67E-01	5.14E-02	1.26E+00	5.84E-01	2.67E+00	1.69E+00	2.98E-02
2325	359650	3801050	9.99E-01	1.28E-01	1.77E-01	5.41E-02	1.77E-01	5.41E-02	1.25E+00	6.20E-01	2.66E+00	1.70E+00	2.98E-02
2326	359700	3801050	1.08E+00	1.33E-01	1.80E-01	5.64E-02	1.80E-01	5.64E-02	1.36E+00	6.33E-01	2.89E+00	1.71E+00	3.23E-02
2327	359750	3801050	1.13E+00	1.36E-01	1.79E-01	5.80E-02	1.79E-01	5.80E-02	1.42E+00	6.25E-01	3.01E+00	1.63E+00	3.37E-02
2328	359800	3801050	1.08E+00	1.38E-01	1.78E-01	5.87E-02	1.78E-01	5.87E-02	1.36E+00	6.21E-01	2.89E+00	1.70E+00	3.23E-02
2329	359850	3801050	1.05E+00	1.36E-01	1.88E-01	5.82E-02	1.88E-01	5.82E-02	1.32E+00	6.54E-01	2.80E+00	1.80E+00	3.13E-02
2330	359900	3801050	1.09E+00	1.32E-01	1.97E-01	5.64E-02	1.97E-01	5.64E-02	1.37E+00	6.86E-01	2.91E+00	1.81E+00	3.25E-02
2331	359950	3801050	1.09E+00	1.25E-01	1.93E-01	5.34E-02	1.93E-01	5.34E-02	1.36E+00	6.75E-01	2.90E+00	1.79E+00	3.24E-02
2332	360000	3801050	1.21E+00	1.18E-01	1.89E-01	5.03E-02	1.89E-01	5.03E-02	1.52E+00	6.58E-01	3.23E+00	1.75E+00	3.61E-02
2333	360050	3801050	1.34E+00	1.10E-01	1.92E-01	4.68E-02	1.92E-01	4.68E-02	1.68E+00	6.68E-01	3.57E+00	1.89E+00	3.99E-02
2334	360100	3801050	1.30E+00	1.01E-01	2.00E-01	4.26E-02	2.00E-01	4.26E-02	1.63E+00	6.97E-01	3.46E+00	2.08E+00	3.87E-02
2335	360150	3801050	1.20E+00	8.96E-02	2.07E-01	3.78E-02	2.07E-01	3.78E-02	1.50E+00	7.26E-01	3.19E+00	2.07E+00	3.56E-02
2336	360200	3801050	1.14E+00	7.83E-02	2.04E-01	3.28E-02	2.04E-01	3.28E-02	1.43E+00	7.14E-01	3.03E+00	1.86E+00	3.39E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2337	360250	3801050	1.03E+00	6.75E-02	1.92E-01	2.81E-02	1.92E-01	2.81E-02	1.30E+00	6.76E-01	2.75E+00	1.72E+00	3.07E-02
2338	360300	3801050	9.54E-01	5.82E-02	1.67E-01	2.41E-02	1.67E-01	2.41E-02	1.20E+00	5.90E-01	2.54E+00	1.45E+00	2.84E-02
2339	360350	3801050	9.45E-01	5.26E-02	1.41E-01	2.17E-02	1.41E-01	2.17E-02	1.19E+00	5.00E-01	2.52E+00	1.15E+00	2.82E-02
2340	360400	3801050	9.01E-01	4.58E-02	1.20E-01	1.88E-02	1.20E-01	1.88E-02	1.13E+00	4.12E-01	2.40E+00	1.22E+00	2.69E-02
2341	360450	3801050	9.02E-01	4.12E-02	1.18E-01	1.68E-02	1.18E-01	1.68E-02	1.13E+00	4.08E-01	2.40E+00	1.25E+00	2.69E-02
2342	360500	3801050	8.58E-01	3.76E-02	1.11E-01	1.52E-02	1.11E-01	1.52E-02	1.08E+00	3.83E-01	2.29E+00	1.18E+00	2.56E-02
2343	360550	3801050	8.25E-01	3.46E-02	9.67E-02	1.39E-02	9.67E-02	1.39E-02	1.04E+00	3.36E-01	2.20E+00	1.02E+00	2.46E-02
2344	360600	3801050	7.49E-01	3.21E-02	8.04E-02	1.29E-02	8.04E-02	1.29E-02	9.38E-01	2.77E-01	2.00E+00	8.67E-01	2.23E-02
2345	360650	3801050	7.78E-01	3.01E-02	8.15E-02	1.20E-02	8.15E-02	1.20E-02	9.75E-01	2.80E-01	2.07E+00	7.87E-01	2.32E-02
2346	360700	3801050	7.88E-01	2.83E-02	8.02E-02	1.12E-02	8.02E-02	1.12E-02	9.88E-01	2.77E-01	2.10E+00	7.33E-01	2.35E-02
2347	360750	3801050	8.00E-01	2.67E-02	7.69E-02	1.06E-02	7.69E-02	1.06E-02	1.00E+00	2.66E-01	2.13E+00	6.91E-01	2.38E-02
2348	360800	3801050	7.69E-01	2.53E-02	7.19E-02	9.99E-03	7.19E-02	9.99E-03	9.65E-01	2.49E-01	2.05E+00	6.79E-01	2.29E-02
2349	358700	3801100	6.22E-01	4.89E-02	6.04E-02	1.91E-02	6.04E-02	1.91E-02	7.78E-01	2.08E-01	1.66E+00	4.85E-01	1.85E-02
2350	358750	3801100	6.38E-01	5.03E-02	6.36E-02	1.97E-02	6.36E-02	1.97E-02	7.98E-01	2.19E-01	1.70E+00	5.35E-01	1.90E-02
2351	358800	3801100	6.64E-01	5.18E-02	6.70E-02	2.04E-02	6.70E-02	2.04E-02	8.31E-01	2.31E-01	1.77E+00	6.11E-01	1.98E-02
2352	358850	3801100	6.88E-01	5.36E-02	7.06E-02	2.12E-02	7.06E-02	2.12E-02	8.61E-01	2.44E-01	1.84E+00	6.93E-01	2.05E-02
2353	358900	3801100	7.09E-01	5.56E-02	7.43E-02	2.21E-02	7.43E-02	2.21E-02	8.87E-01	2.57E-01	1.89E+00	7.82E-01	2.11E-02
2354	358950	3801100	7.26E-01	5.79E-02	7.81E-02	2.32E-02	7.81E-02	2.32E-02	9.08E-01	2.71E-01	1.93E+00	8.74E-01	2.16E-02
2355	359000	3801100	7.36E-01	6.05E-02	8.25E-02	2.43E-02	8.25E-02	2.43E-02	9.21E-01	2.88E-01	1.96E+00	9.67E-01	2.19E-02
2356	359050	3801100	7.39E-01	6.33E-02	8.98E-02	2.56E-02	8.98E-02	2.56E-02	9.25E-01	3.13E-01	1.97E+00	1.06E+00	2.20E-02
2357	359100	3801100	7.33E-01	6.66E-02	9.66E-02	2.71E-02	9.66E-02	2.71E-02	9.18E-01	3.37E-01	1.96E+00	1.14E+00	2.19E-02
2358	359150	3801100	7.17E-01	7.02E-02	1.02E-01	2.87E-02	1.02E-01	2.87E-02	8.98E-01	3.57E-01	1.91E+00	1.21E+00	2.14E-02
2359	359200	3801100	6.89E-01	7.43E-02	1.06E-01	3.05E-02	1.06E-01	3.05E-02	8.64E-01	3.72E-01	1.84E+00	1.26E+00	2.05E-02
2360	359250	3801100	6.49E-01	7.88E-02	1.08E-01	3.25E-02	1.08E-01	3.25E-02	8.13E-01	3.79E-01	1.73E+00	1.29E+00	1.93E-02
2361	359300	3801100	6.76E-01	8.37E-02	1.09E-01	3.47E-02	1.09E-01	3.47E-02	8.48E-01	3.81E-01	1.80E+00	1.28E+00	2.01E-02
2362	359350	3801100	6.96E-01	8.90E-02	1.16E-01	3.71E-02	1.16E-01	3.71E-02	8.73E-01	4.05E-01	1.86E+00	1.24E+00	2.07E-02
2363	359400	3801100	7.27E-01	9.47E-02	1.26E-01	3.96E-02	1.26E-01	3.96E-02	9.11E-01	4.38E-01	1.94E+00	1.27E+00	2.17E-02
2364	359450	3801100	7.36E-01	1.01E-01	1.34E-01	4.22E-02	1.34E-01	4.22E-02	9.23E-01	4.68E-01	1.96E+00	1.36E+00	2.19E-02
2365	359500	3801100	8.29E-01	1.07E-01	1.41E-01	4.49E-02	1.41E-01	4.49E-02	1.04E+00	4.92E-01	2.21E+00	1.45E+00	2.47E-02
2366	359550	3801100	8.98E-01	1.12E-01	1.52E-01	4.75E-02	1.52E-01	4.75E-02	1.13E+00	5.32E-01	2.39E+00	1.51E+00	2.67E-02
2367	359600	3801100	9.00E-01	1.18E-01	1.62E-01	4.99E-02	1.62E-01	4.99E-02	1.13E+00	5.66E-01	2.40E+00	1.54E+00	2.68E-02
2368	359650	3801100	9.73E-01	1.23E-01	1.66E-01	5.20E-02	1.66E-01	5.20E-02	1.22E+00	5.82E-01	2.59E+00	1.57E+00	2.90E-02
2369	359700	3801100	1.02E+00	1.26E-01	1.66E-01	5.36E-02	1.66E-01	5.36E-02	1.28E+00	5.79E-01	2.73E+00	1.53E+00	3.05E-02
2370	359750	3801100	9.94E-01	1.28E-01	1.63E-01	5.45E-02	1.63E-01	5.45E-02	1.25E+00	5.68E-01	2.65E+00	1.53E+00	2.96E-02
2371	359800	3801100	9.64E-01	1.28E-01	1.70E-01	5.45E-02	1.70E-01	5.45E-02	1.21E+00	5.92E-01	2.57E+00	1.64E+00	2.87E-02
2372	359850	3801100	1.01E+00	1.26E-01	1.80E-01	5.35E-02	1.80E-01	5.35E-02	1.27E+00	6.24E-01	2.70E+00	1.68E+00	3.02E-02
2373	359900	3801100	1.06E+00	1.21E-01	1.83E-01	5.15E-02	1.83E-01	5.15E-02	1.33E+00	6.37E-01	2.82E+00	1.67E+00	3.15E-02
2374	359950	3801100	1.05E+00	1.14E-01	1.76E-01	4.85E-02	1.76E-01	4.85E-02	1.32E+00	6.12E-01	2.81E+00	1.63E+00	3.14E-02
2375	360000	3801100	1.14E+00	1.09E-01	1.79E-01	4.61E-02	1.79E-01	4.61E-02	1.43E+00	6.23E-01	3.03E+00	1.70E+00	3.39E-02
2376	360050	3801100	1.23E+00	1.01E-01	1.81E-01	4.29E-02	1.81E-01	4.29E-02	1.55E+00	6.34E-01	3.28E+00	1.81E+00	3.67E-02
2377	360100	3801100	1.19E+00	9.26E-02	1.90E-01	3.91E-02	1.90E-01	3.91E-02	1.50E+00	6.61E-01	3.18E+00	1.96E+00	3.55E-02
2378	360150	3801100	1.10E+00	8.30E-02	1.94E-01	3.49E-02	1.94E-01	3.49E-02	1.38E+00	6.81E-01	2.94E+00	1.93E+00	3.28E-02
2379	360200	3801100	1.06E+00	7.31E-02	1.93E-01	3.06E-02	1.93E-01	3.06E-02	1.32E+00	6.75E-01	2.81E+00	1.76E+00	3.15E-02
2380	360250	3801100	9.53E-01	6.36E-02	1.82E-01	2.64E-02	1.82E-01	2.64E-02	1.20E+00	6.41E-01	2.54E+00	1.63E+00	2.84E-02
2381	360300	3801100	8.86E-01	5.53E-02	1.61E-01	2.29E-02	1.61E-01	2.29E-02	1.11E+00	5.66E-01	2.36E+00	1.40E+00	2.64E-02
2382	360350	3801100	8.66E-01	4.98E-02	1.35E-01	2.05E-02	1.35E-01	2.05E-02	1.09E+00	4.79E-01	2.31E+00	1.12E+00	2.58E-02
2383	360400	3801100	8.42E-01	4.42E-02	1.13E-01	1.81E-02	1.13E-01	1.81E-02	1.06E+00	3.89E-01	2.24E+00	1.11E+00	2.51E-02
2384	360450	3801100	8.37E-01	3.99E-02	1.13E-01	1.62E-02	1.13E-01	1.62E-02	1.05E+00	3.89E-01	2.23E+00	1.16E+00	2.49E-02
2385	360500	3801100	8.05E-01	3.64E-02	1.08E-01	1.47E-02	1.08E-01	1.47E-02	1.01E+00	3.73E-01	2.15E+00	1.13E+00	2.40E-02
2386	360550	3801100	7.95E-01	3.36E-02	9.76E-02	1.35E-02	9.76E-02	1.35E-02	9.97E-01	3.38E-01	2.12E+00	1.02E+00	2.37E-02
2387	360600	3801100	7.24E-01	3.13E-02	8.27E-02	1.25E-02	8.27E-02	1.25E-02	9.09E-01	2.87E-01	1.93E+00	8.51E-01	2.16E-02
2388	360650	3801100	7.05E-01	2.93E-02	7.47E-02	1.17E-02	7.47E-02	1.17E-02	8.84E-01	2.56E-01	1.88E+00	7.73E-01	2.10E-02
2389	360700	3801100	7.65E-01	2.76E-02	7.49E-02	1.10E-02	7.49E-02	1.10E-02	9.60E-01	2.58E-01	2.04E+00	6.98E-01	2.28E-02
2390	358750	3801150	6.29E-01	5.15E-02	6.63E-02	2.03E-02	6.63E-02	2.03E-02	7.86E-01	2.29E-01	1.68E+00	6.13E-01	1.87E-02
2391	358800	3801150	6.48E-01	5.31E-02	6.95E-02	2.10E-02	6.95E-02	2.10E-02	8.10E-01	2.40E-01	1.73E+00	6.88E-01	1.93E-02
2392	358850	3801150	6.64E-01	5.50E-02	7.27E-02	2.19E-02	7.27E-02	2.19E-02	8.31E-01	2.51E-01	1.77E+00	7.66E-01	1.98E-02
2393	358900	3801150	6.76E-01	5.70E-02	7.59E-02	2.28E-02	7.59E-02	2.28E-02	8.45E-01	2.63E-01	1.80E+00	8.46E-01	2.01E-02
2394	358950	3801150	6.82E-01	5.94E-02	7.96E-02	2.39E-02	7.96E-02	2.39E-02	8.53E-01	2.77E-01	1.82E+00	9.26E-01	2.03E-02
2395	359000	3801150	6.82E-01	6.20E-02	8.57E-02	2.50E-02	8.57E-02	2.50E-02	8.53E-01	2.99E-01	1.82E+00	1.00E+00	2.03E-02
2396	359050	3801150	6.74E-01	6.49E-02	9.12E-02	2.63E-02	9.12E-02	2.63E-02	8.43E-01	3.18E-01	1.80E+00	1.07E+00	2.01E-02
2397	359100	3801150	6.56E-01	6.81E-02	9.57E-02	2.78E-02	9.57E-02	2.78E-02	8.22E-01	3.34E-01	1.75E+00	1.12E+00	1.96E-02
2398	359150	3801150	6.30E-01	7.17E-02	9.87E-02	2.94E-02	9.87E-02	2.94E-02	7.88E-01	3.45E-01	1.68E+00	1.16E+00	1.88E-02
2399	359200	3801150	5.92E-01	7.56E-02	9.99E-02	3.11E-02	9.99E-02	3.11E-02	7.42E-01	3.49E-01	1.58E+00	1.17E+00	1.77E-02
2400	359250	3801150	6.16E-01	7.99E-02	1.02E-01	3.30E-02	1.02E-01	3.30E-02	7.73E-01	3.56E-01	1.64E+00	1.16E+00	1.84E-02
2401	359300	3801150	6.29E-01	8.45E-02	1.09E-01	3.51E-02	1.09E-01	3.51E-02	7.89E-01	3.79E-01	1.68E+00	1.11E+00	1.87E-02
2402	359350	3801150	6.63E-01	8.94E-02	1.17E-01	3.73E-02	1.17E-01	3.73E-02	8.31E-01	4.08E-01	1.77E+00	1.15E+00	1.97E-02
2403	359400	3801150	6.69E-01	9.44E-02	1.24E-01	3.95E-02	1.24E-01	3.95E-02	8.38E-01	4.33E-01	1.78E+00	1.23E+00	1.99E-02
2404	359450	3801150	7.46E-01	9.96E-02	1.30E-01	4.18E-02	1.30E-01	4.18E-02	9.37E-01	4.54E-01	1.99E+00	1.30E+00	2.22E-02
2405	359500	3801150	8.09E-01	1.05E-01	1.39E-01	4.41E-02	1.39E-01	4.41E-02	1.02E+00	4.87E-01	2.16E+00	1.36E+00	2.41E-02
2406	359550	3801150	8.20E-01	1.09E-01	1.48E-01	4.62E-02	1.48E-01	4.62E-02	1.03E+00	5.18E-01	2.19E+00	1.41E+00	2.44E-02
2407	359600	3801150	8.71E-01	1.14E-01	1.53E-01	4.81E-02	1.53E-01	4.81E-02	1.09E+00	5.36E-01	2.32E+00	1.44E+00	2.60E-02
2408	359650	3801150	9.18E-01	1.17E-01	1.54E-01	4.96E-02	1.54E-01	4.96E-02	1.15E+00	5.37E-01	2.45E+00	1.42E+00	2.74E-02
2409	359700	3801150	9.28E-01	1.19E-01	1.53E-01	5.06E-02	1.53E-01	5.06E-02	1.16E+00	5.34E-01	2.47E+00	1.40E+00	2.76E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2410	359750	3801150	8.98E-01	1.20E-01	1.57E-01	5.10E-02	1.57E-01	5.10E-02	1.13E+00	5.44E-01	2.39E+00	1.49E+00	2.68E-02
2411	359800	3801150	9.41E-01	1.19E-01	1.63E-01	5.06E-02	1.63E-01	5.06E-02	1.18E+00	5.64E-01	2.51E+00	1.56E+00	2.81E-02
2412	359850	3801150	9.68E-01	1.16E-01	1.70E-01	4.93E-02	1.70E-01	4.93E-02	1.21E+00	5.90E-01	2.58E+00	1.55E+00	2.88E-02
2413	359900	3801150	9.91E-01	1.11E-01	1.69E-01	4.71E-02	1.69E-01	4.71E-02	1.24E+00	5.87E-01	2.64E+00	1.53E+00	2.95E-02
2414	359950	3801150	1.02E+00	1.06E-01	1.63E-01	4.47E-02	1.63E-01	4.47E-02	1.28E+00	5.66E-01	2.72E+00	1.51E+00	3.04E-02
2415	360000	3801150	1.09E+00	1.02E-01	1.76E-01	4.32E-02	1.76E-01	4.32E-02	1.37E+00	6.13E-01	2.92E+00	1.70E+00	3.26E-02
2416	360050	3801150	1.12E+00	9.35E-02	1.74E-01	3.95E-02	1.74E-01	3.95E-02	1.41E+00	6.08E-01	3.00E+00	1.73E+00	3.35E-02
2417	360100	3801150	1.10E+00	8.64E-02	1.82E-01	3.64E-02	1.82E-01	3.64E-02	1.39E+00	6.35E-01	2.94E+00	1.85E+00	3.29E-02
2418	360150	3801150	1.02E+00	7.71E-02	1.83E-01	3.23E-02	1.83E-01	3.23E-02	1.27E+00	6.39E-01	2.71E+00	1.79E+00	3.03E-02
2419	360200	3801150	9.80E-01	6.84E-02	1.82E-01	2.85E-02	1.82E-01	2.85E-02	1.23E+00	6.37E-01	2.61E+00	1.66E+00	2.92E-02
2420	360250	3801150	9.03E-01	6.00E-02	1.73E-01	2.49E-02	1.73E-01	2.49E-02	1.13E+00	6.06E-01	2.41E+00	1.54E+00	2.69E-02
2421	360300	3801150	8.22E-01	5.27E-02	1.54E-01	2.17E-02	1.54E-01	2.17E-02	1.03E+00	5.40E-01	2.19E+00	1.34E+00	2.45E-02
2422	360350	3801150	7.92E-01	4.77E-02	1.32E-01	1.96E-02	1.32E-01	1.96E-02	9.94E-01	4.66E-01	2.11E+00	1.10E+00	2.36E-02
2423	360400	3801150	7.86E-01	4.32E-02	1.11E-01	1.77E-02	1.11E-01	1.77E-02	9.87E-01	3.82E-01	2.10E+00	1.01E+00	2.34E-02
2424	360450	3801150	7.70E-01	3.86E-02	1.08E-01	1.56E-02	1.08E-01	1.56E-02	9.66E-01	3.70E-01	2.05E+00	1.07E+00	2.29E-02
2425	360500	3801150	7.64E-01	3.54E-02	1.05E-01	1.43E-02	1.05E-01	1.43E-02	9.59E-01	3.61E-01	2.04E+00	1.07E+00	2.28E-02
2426	360550	3801150	7.49E-01	3.27E-02	9.70E-02	1.31E-02	9.70E-02	1.31E-02	9.39E-01	3.35E-01	2.00E+00	1.00E+00	2.23E-02
2427	360600	3801150	7.15E-01	3.05E-02	8.49E-02	1.22E-02	8.49E-02	1.22E-02	8.97E-01	2.94E-01	1.91E+00	8.70E-01	2.13E-02
2428	360650	3801150	6.33E-01	2.86E-02	7.04E-02	1.14E-02	7.04E-02	1.14E-02	7.92E-01	2.44E-01	1.69E+00	7.46E-01	1.89E-02
2429	360700	3797300	3.97E-01	3.53E-02	1.52E-01	1.41E-02	1.52E-01	1.41E-02	4.95E-01	5.26E-01	1.06E+00	7.55E-01	1.18E-02
2430	360800	3797300	3.97E-01	3.59E-02	1.44E-01	1.41E-02	1.44E-01	1.41E-02	4.95E-01	4.83E-01	1.06E+00	6.56E-01	1.18E-02
2431	360900	3797300	3.97E-01	3.67E-02	1.38E-01	1.40E-02	1.38E-01	1.40E-02	4.94E-01	4.44E-01	1.06E+00	5.89E-01	1.18E-02
2432	361000	3797300	3.85E-01	3.68E-02	1.27E-01	1.38E-02	1.27E-01	1.38E-02	4.79E-01	4.02E-01	1.03E+00	5.87E-01	1.15E-02
2433	361100	3797300	3.76E-01	3.58E-02	1.17E-01	1.32E-02	1.17E-01	1.32E-02	4.68E-01	3.71E-01	1.00E+00	5.73E-01	1.12E-02
2434	361200	3797300	3.72E-01	3.34E-02	1.05E-01	1.24E-02	1.05E-01	1.24E-02	4.64E-01	3.48E-01	9.93E-01	5.45E-01	1.11E-02
2435	361300	3797300	3.69E-01	3.06E-02	1.11E-01	1.16E-02	1.11E-01	1.16E-02	4.59E-01	3.62E-01	9.84E-01	5.05E-01	1.10E-02
2436	361400	3797300	3.60E-01	2.88E-02	1.10E-01	1.10E-02	1.10E-01	1.10E-02	4.48E-01	3.57E-01	9.60E-01	4.59E-01	1.07E-02
2437	361500	3797300	3.58E-01	2.73E-02	1.01E-01	1.05E-02	1.01E-01	1.05E-02	4.46E-01	3.29E-01	9.55E-01	4.10E-01	1.07E-02
2438	361600	3797300	3.47E-01	2.59E-02	8.69E-02	9.99E-03	8.69E-02	9.99E-03	4.32E-01	2.86E-01	9.26E-01	3.85E-01	1.04E-02
2439	361700	3797300	3.36E-01	2.47E-02	7.17E-02	9.59E-03	7.17E-02	9.59E-03	4.18E-01	2.39E-01	8.95E-01	3.58E-01	1.00E-02
2440	361800	3797300	3.24E-01	2.38E-02	5.76E-02	9.25E-03	5.76E-02	9.25E-03	4.03E-01	1.94E-01	8.64E-01	3.22E-01	9.65E-03
2441	361900	3797300	3.15E-01	2.30E-02	4.58E-02	8.96E-03	4.58E-02	8.96E-03	3.91E-01	1.56E-01	8.40E-01	3.29E-01	9.38E-03
2442	362000	3797300	2.99E-01	2.24E-02	4.27E-02	8.72E-03	4.27E-02	8.72E-03	3.71E-01	1.41E-01	7.96E-01	3.40E-01	8.90E-03
2443	362100	3797300	2.74E-01	2.19E-02	3.95E-02	8.51E-03	3.95E-02	8.51E-03	3.40E-01	1.31E-01	7.30E-01	3.42E-01	8.16E-03
2444	360500	3797400	4.22E-01	3.49E-02	1.75E-01	1.42E-02	1.75E-01	1.42E-02	5.26E-01	6.21E-01	1.12E+00	8.64E-01	1.26E-02
2445	360600	3797400	4.21E-01	3.53E-02	1.64E-01	1.43E-02	1.64E-01	1.43E-02	5.24E-01	5.79E-01	1.12E+00	8.34E-01	1.25E-02
2446	360700	3797400	4.11E-01	3.56E-02	1.51E-01	1.42E-02	1.51E-01	1.42E-02	5.12E-01	5.25E-01	1.10E+00	7.58E-01	1.22E-02
2447	360800	3797400	4.16E-01	3.63E-02	1.42E-01	1.42E-02	1.42E-01	1.42E-02	5.18E-01	4.79E-01	1.11E+00	6.64E-01	1.24E-02
2448	360900	3797400	4.10E-01	3.72E-02	1.38E-01	1.42E-02	1.38E-01	1.42E-02	5.11E-01	4.42E-01	1.09E+00	6.10E-01	1.22E-02
2449	361000	3797400	3.99E-01	3.74E-02	1.32E-01	1.39E-02	1.32E-01	1.39E-02	4.97E-01	4.19E-01	1.06E+00	6.12E-01	1.19E-02
2450	361100	3797400	3.88E-01	3.62E-02	1.23E-01	1.34E-02	1.23E-01	1.34E-02	4.83E-01	3.86E-01	1.03E+00	5.92E-01	1.16E-02
2451	361200	3797400	3.87E-01	3.36E-02	1.13E-01	1.24E-02	1.13E-01	1.24E-02	4.82E-01	3.72E-01	1.03E+00	5.57E-01	1.15E-02
2452	361300	3797400	3.82E-01	3.07E-02	1.18E-01	1.16E-02	1.18E-01	1.16E-02	4.76E-01	3.83E-01	1.02E+00	5.11E-01	1.14E-02
2453	361400	3797400	3.72E-01	2.88E-02	1.13E-01	1.10E-02	1.13E-01	1.10E-02	4.63E-01	3.68E-01	9.93E-01	4.60E-01	1.11E-02
2454	361500	3797400	3.70E-01	2.71E-02	1.00E-01	1.04E-02	1.00E-01	1.04E-02	4.60E-01	3.28E-01	9.85E-01	4.08E-01	1.10E-02
2455	361600	3797400	3.54E-01	2.57E-02	8.36E-02	9.94E-03	8.36E-02	9.94E-03	4.40E-01	2.76E-01	9.43E-01	3.82E-01	1.05E-02
2456	361700	3797400	3.48E-01	2.46E-02	6.71E-02	9.53E-03	6.71E-02	9.53E-03	4.33E-01	2.25E-01	9.27E-01	3.48E-01	1.04E-02
2457	361800	3797400	3.29E-01	2.37E-02	5.28E-02	9.20E-03	5.28E-02	9.20E-03	4.10E-01	1.79E-01	8.78E-01	3.23E-01	9.81E-03
2458	361900	3797400	3.17E-01	2.29E-02	4.51E-02	8.93E-03	4.51E-02	8.93E-03	3.94E-01	1.50E-01	8.45E-01	3.39E-01	9.44E-03
2459	362000	3797400	2.94E-01	2.24E-02	4.16E-02	8.70E-03	4.16E-02	8.70E-03	3.65E-01	1.39E-01	7.84E-01	3.46E-01	8.76E-03
2460	362100	3797400	2.64E-01	2.19E-02	3.82E-02	8.51E-03	3.82E-02	8.51E-03	3.28E-01	1.28E-01	7.03E-01	3.45E-01	7.86E-03
2461	362200	3797400	2.29E-01	2.15E-02	4.00E-02	8.35E-03	4.00E-02	8.35E-03	2.85E-01	1.27E-01	6.11E-01	3.37E-01	6.83E-03
2462	362300	3797400	2.23E-01	2.12E-02	4.16E-02	8.22E-03	4.16E-02	8.22E-03	2.76E-01	1.33E-01	5.95E-01	3.24E-01	6.65E-03
2463	360400	3797500	4.47E-01	3.45E-02	1.85E-01	1.41E-02	1.85E-01	1.41E-02	5.58E-01	6.56E-01	1.19E+00	9.21E-01	1.33E-02
2464	360500	3797500	4.41E-01	3.54E-02	1.79E-01	1.44E-02	1.79E-01	1.44E-02	5.50E-01	6.38E-01	1.17E+00	8.83E-01	1.31E-02
2465	360600	3797500	4.39E-01	3.57E-02	1.65E-01	1.45E-02	1.65E-01	1.45E-02	5.48E-01	5.86E-01	1.17E+00	8.46E-01	1.31E-02
2466	360700	3797500	4.29E-01	3.59E-02	1.49E-01	1.44E-02	1.49E-01	1.44E-02	5.34E-01	5.23E-01	1.14E+00	7.59E-01	1.28E-02
2467	360800	3797500	4.36E-01	3.66E-02	1.40E-01	1.43E-02	1.40E-01	1.43E-02	5.44E-01	4.71E-01	1.16E+00	6.76E-01	1.30E-02
2468	360900	3797500	4.24E-01	3.77E-02	1.41E-01	1.43E-02	1.41E-01	1.43E-02	5.29E-01	4.52E-01	1.13E+00	6.41E-01	1.26E-02
2469	361000	3797500	4.12E-01	3.81E-02	1.39E-01	1.41E-02	1.39E-01	1.41E-02	5.13E-01	4.37E-01	1.10E+00	6.36E-01	1.23E-02
2470	361100	3797500	4.00E-01	3.68E-02	1.29E-01	1.35E-02	1.29E-01	1.35E-02	4.99E-01	4.03E-01	1.07E+00	6.10E-01	1.19E-02
2471	361200	3797500	4.04E-01	3.37E-02	1.23E-01	1.24E-02	1.23E-01	1.24E-02	5.04E-01	4.00E-01	1.08E+00	5.68E-01	1.20E-02
2472	361300	3797500	3.94E-01	3.07E-02	1.25E-01	1.16E-02	1.25E-01	1.16E-02	4.91E-01	4.04E-01	1.05E+00	5.16E-01	1.17E-02
2473	361400	3797500	3.88E-01	2.87E-02	1.16E-01	1.09E-02	1.16E-01	1.09E-02	4.83E-01	3.75E-01	1.03E+00	4.60E-01	1.16E-02
2474	361500	3797500	3.78E-01	2.69E-02	9.85E-02	1.04E-02	9.85E-02	1.04E-02	4.71E-01	3.22E-01	1.01E+00	4.05E-01	1.13E-02
2475	361600	3797500	3.70E-01	2.55E-02	7.90E-02	9.87E-03	7.90E-02	9.87E-03	4.61E-01	2.63E-01	9.87E-01	3.75E-01	1.10E-02
2476	361700	3797500	3.57E-01	2.44E-02	6.17E-02	9.47E-03	6.17E-02	9.47E-03	4.44E-01	2.09E-01	9.51E-01	3.40E-01	1.06E-02
2477	361800	3797500	3.35E-01	2.35E-02	4.79E-02	9.16E-03	4.79E-02	9.16E-03	4.16E-01	1.64E-01	8.92E-01	3.35E-01	9.97E-03
2478	361900	3797500	3.15E-01	2.29E-02	4.40E-02	8.90E-03	4.40E-02	8.90E-03	3.91E-01	1.47E-01	8.39E-01	3.47E-01	9.38E-03
2479	362000	3797500	2.85E-01	2.23E-02	4.03E-02	8.68E-03	4.03E-02	8.68E-03	3.55E-01	1.35E-01	7.61E-01	3.49E-01	8.50E-03
2480	362100	3797500	2.50E-01	2.19E-02	3.92E-02	8.51E-03	3.92E-02	8.51E-03	3.11E-01	1.25E-01	6.66E-01	3.44E-01	7.44E-03
2481	362200	3797500	2.34E-01	2.16E-02	4.10E-02	8.36E-03	4.10E-02	8.36E-03	2.90E-01	1.31E-01	6.25E-01	3.33E-01	6.98E-03
2482	362300	3797500	2.28E-01	2.13E-02	4.24E-02	8.25E-03	4.24E-02	8.25E-03	2.82E-01	1.36E-01	6.09E-01	3.17E-01	6.80E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2483	362400	3797500	2.19E-01	2.11E-02	4.33E-02	8.15E-03	4.33E-02	8.15E-03	2.71E-01	1.40E-01	5.85E-01	3.15E-01	6.54E-03
2484	360300	3797600	4.70E-01	3.35E-02	1.85E-01	1.37E-02	1.85E-01	1.37E-02	5.86E-01	6.56E-01	1.25E+00	9.95E-01	1.40E-02
2485	360400	3797600	4.68E-01	3.49E-02	1.91E-01	1.43E-02	1.91E-01	1.43E-02	5.83E-01	6.79E-01	1.25E+00	9.46E-01	1.39E-02
2486	360500	3797600	4.61E-01	3.58E-02	1.84E-01	1.46E-02	1.84E-01	1.46E-02	5.76E-01	6.55E-01	1.23E+00	9.02E-01	1.38E-02
2487	360600	3797600	4.59E-01	3.61E-02	1.67E-01	1.47E-02	1.67E-01	1.47E-02	5.73E-01	5.93E-01	1.22E+00	8.55E-01	1.37E-02
2488	360700	3797600	4.47E-01	3.63E-02	1.47E-01	1.45E-02	1.47E-01	1.45E-02	5.57E-01	5.17E-01	1.19E+00	7.57E-01	1.33E-02
2489	360800	3797600	4.56E-01	3.69E-02	1.39E-01	1.44E-02	1.39E-01	1.44E-02	5.69E-01	4.61E-01	1.22E+00	6.85E-01	1.36E-02
2490	360900	3797600	4.41E-01	3.83E-02	1.47E-01	1.45E-02	1.47E-01	1.45E-02	5.50E-01	4.71E-01	1.18E+00	6.72E-01	1.32E-02
2491	361000	3797600	4.24E-01	3.90E-02	1.46E-01	1.43E-02	1.46E-01	1.43E-02	5.28E-01	4.57E-01	1.13E+00	6.61E-01	1.26E-02
2492	361100	3797600	4.24E-01	3.73E-02	1.36E-01	1.36E-02	1.36E-01	1.36E-02	5.28E-01	4.20E-01	1.13E+00	6.27E-01	1.26E-02
2493	361200	3797600	4.20E-01	3.37E-02	1.33E-01	1.24E-02	1.33E-01	1.24E-02	5.24E-01	4.30E-01	1.12E+00	5.77E-01	1.25E-02
2494	361300	3797600	4.09E-01	3.07E-02	1.32E-01	1.16E-02	1.32E-01	1.16E-02	5.10E-01	4.24E-01	1.09E+00	5.18E-01	1.22E-02
2495	361400	3797600	4.02E-01	2.85E-02	1.17E-01	1.09E-02	1.17E-01	1.09E-02	5.01E-01	3.77E-01	1.07E+00	4.57E-01	1.20E-02
2496	361500	3797600	3.91E-01	2.66E-02	9.45E-02	1.03E-02	9.45E-02	1.03E-02	4.87E-01	3.11E-01	1.04E+00	4.02E-01	1.16E-02
2497	361600	3797600	3.84E-01	2.52E-02	7.31E-02	9.79E-03	7.31E-02	9.79E-03	4.79E-01	2.45E-01	1.02E+00	3.69E-01	1.15E-02
2498	361700	3797600	3.62E-01	2.42E-02	5.59E-02	9.41E-03	5.59E-02	9.41E-03	4.51E-01	1.91E-01	9.65E-01	3.31E-01	1.08E-02
2499	361800	3797600	3.35E-01	2.34E-02	4.68E-02	9.11E-03	4.68E-02	9.11E-03	4.17E-01	1.56E-01	8.95E-01	3.45E-01	1.00E-02
2500	361900	3797600	3.08E-01	2.28E-02	4.26E-02	8.87E-03	4.26E-02	8.87E-03	3.83E-01	1.43E-01	8.21E-01	3.52E-01	9.17E-03
2501	362000	3797600	2.72E-01	2.23E-02	3.87E-02	8.67E-03	3.87E-02	8.67E-03	3.38E-01	1.31E-01	7.25E-01	3.50E-01	8.10E-03
2502	362100	3797600	2.46E-01	2.19E-02	4.02E-02	8.51E-03	4.02E-02	8.51E-03	3.04E-01	1.29E-01	6.55E-01	3.41E-01	7.32E-03
2503	362200	3797600	2.40E-01	2.16E-02	4.18E-02	8.38E-03	4.18E-02	8.38E-03	2.98E-01	1.35E-01	6.41E-01	3.26E-01	7.16E-03
2504	362300	3797600	2.32E-01	2.14E-02	4.30E-02	8.28E-03	4.30E-02	8.28E-03	2.87E-01	1.39E-01	6.18E-01	3.17E-01	6.90E-03
2505	362400	3797600	2.26E-01	2.12E-02	4.38E-02	8.19E-03	4.38E-02	8.19E-03	2.80E-01	1.42E-01	6.03E-01	3.20E-01	6.74E-03
2506	362500	3797600	2.24E-01	2.10E-02	4.41E-02	8.12E-03	4.41E-02	8.12E-03	2.77E-01	1.44E-01	5.97E-01	3.19E-01	6.67E-03
2507	360200	3797700	4.92E-01	3.28E-02	1.73E-01	1.34E-02	1.73E-01	1.34E-02	6.14E-01	6.11E-01	1.31E+00	1.03E+00	1.47E-02
2508	360300	3797700	4.92E-01	3.39E-02	1.92E-01	1.39E-02	1.92E-01	1.39E-02	6.15E-01	6.80E-01	1.31E+00	1.03E+00	1.47E-02
2509	360400	3797700	4.89E-01	3.53E-02	1.97E-01	1.45E-02	1.97E-01	1.45E-02	6.11E-01	7.03E-01	1.30E+00	9.79E-01	1.46E-02
2510	360500	3797700	4.86E-01	3.62E-02	1.89E-01	1.48E-02	1.89E-01	1.48E-02	6.07E-01	6.73E-01	1.30E+00	9.19E-01	1.45E-02
2511	360600	3797700	4.79E-01	3.66E-02	1.68E-01	1.48E-02	1.68E-01	1.48E-02	5.98E-01	6.00E-01	1.28E+00	8.62E-01	1.43E-02
2512	360700	3797700	4.72E-01	3.66E-02	1.44E-01	1.46E-02	1.44E-01	1.46E-02	5.89E-01	5.09E-01	1.26E+00	7.70E-01	1.41E-02
2513	360800	3797700	4.77E-01	3.73E-02	1.43E-01	1.45E-02	1.43E-01	1.45E-02	5.95E-01	4.74E-01	1.27E+00	6.94E-01	1.42E-02
2514	360900	3797700	4.60E-01	3.90E-02	1.54E-01	1.46E-02	1.54E-01	1.46E-02	5.73E-01	4.91E-01	1.23E+00	7.05E-01	1.37E-02
2515	361000	3797700	4.39E-01	4.00E-02	1.54E-01	1.46E-02	1.54E-01	1.46E-02	5.47E-01	4.79E-01	1.17E+00	6.85E-01	1.31E-02
2516	361100	3797700	4.47E-01	3.80E-02	1.43E-01	1.37E-02	1.43E-01	1.37E-02	5.57E-01	4.38E-01	1.19E+00	6.42E-01	1.33E-02
2517	361200	3797700	4.35E-01	3.36E-02	1.44E-01	1.25E-02	1.44E-01	1.25E-02	5.43E-01	4.63E-01	1.16E+00	5.84E-01	1.30E-02
2518	361300	3797700	4.23E-01	3.06E-02	1.37E-01	1.16E-02	1.37E-01	1.16E-02	5.28E-01	4.40E-01	1.13E+00	5.19E-01	1.26E-02
2519	361400	3797700	4.18E-01	2.82E-02	1.15E-01	1.08E-02	1.15E-01	1.08E-02	5.22E-01	3.72E-01	1.12E+00	4.53E-01	1.25E-02
2520	361500	3797700	4.11E-01	2.63E-02	8.83E-02	1.02E-02	8.83E-02	1.02E-02	5.12E-01	2.93E-01	1.10E+00	3.97E-01	1.22E-02
2521	361600	3797700	3.95E-01	2.50E-02	6.63E-02	9.71E-03	6.63E-02	9.71E-03	4.92E-01	2.25E-01	1.05E+00	3.59E-01	1.18E-02
2522	361700	3797700	3.63E-01	2.40E-02	5.00E-02	9.36E-03	5.00E-02	9.36E-03	4.52E-01	1.72E-01	9.67E-01	3.40E-01	1.08E-02
2523	361800	3797700	3.31E-01	2.33E-02	4.52E-02	9.08E-03	4.52E-02	9.08E-03	4.12E-01	1.52E-01	8.83E-01	3.52E-01	9.86E-03
2524	361900	3797700	2.96E-01	2.28E-02	4.08E-02	8.85E-03	4.08E-02	8.85E-03	3.68E-01	1.38E-01	7.88E-01	3.54E-01	8.81E-03
2525	362000	3797700	2.58E-01	2.23E-02	3.93E-02	8.67E-03	3.93E-02	8.67E-03	3.20E-01	1.27E-01	6.89E-01	3.48E-01	7.70E-03
2526	362100	3797700	2.53E-01	2.20E-02	4.11E-02	8.53E-03	4.11E-02	8.53E-03	3.13E-01	1.33E-01	6.75E-01	3.35E-01	7.54E-03
2527	362200	3797700	2.45E-01	2.17E-02	4.25E-02	8.41E-03	4.25E-02	8.41E-03	3.03E-01	1.38E-01	6.53E-01	3.18E-01	7.29E-03
2528	362300	3797700	2.37E-01	2.15E-02	4.35E-02	8.32E-03	4.35E-02	8.32E-03	2.93E-01	1.42E-01	6.32E-01	3.23E-01	7.06E-03
2529	362400	3797700	2.34E-01	2.13E-02	4.40E-02	8.24E-03	4.40E-02	8.24E-03	2.90E-01	1.44E-01	6.25E-01	3.23E-01	6.99E-03
2530	362500	3797700	2.29E-01	2.12E-02	4.40E-02	8.18E-03	4.40E-02	8.18E-03	2.84E-01	1.44E-01	6.11E-01	3.19E-01	6.83E-03
2531	362600	3797700	2.21E-01	2.10E-02	4.37E-02	8.13E-03	4.37E-02	8.13E-03	2.73E-01	1.43E-01	5.90E-01	3.11E-01	6.59E-03
2532	360000	3797800	5.39E-01	3.04E-02	1.47E-01	1.22E-02	1.47E-01	1.22E-02	6.74E-01	5.14E-01	1.44E+00	8.97E-01	1.61E-02
2533	360100	3797800	5.27E-01	3.18E-02	1.63E-01	1.29E-02	1.63E-01	1.29E-02	6.59E-01	5.76E-01	1.41E+00	9.95E-01	1.57E-02
2534	360200	3797800	5.16E-01	3.31E-02	1.78E-01	1.35E-02	1.78E-01	1.35E-02	6.45E-01	6.32E-01	1.38E+00	1.07E+00	1.54E-02
2535	360300	3797800	5.17E-01	3.43E-02	1.99E-01	1.41E-02	1.99E-01	1.41E-02	6.45E-01	7.06E-01	1.38E+00	1.08E+00	1.54E-02
2536	360400	3797800	5.12E-01	3.58E-02	2.04E-01	1.47E-02	2.04E-01	1.47E-02	6.39E-01	7.28E-01	1.37E+00	1.01E+00	1.53E-02
2537	360500	3797800	5.12E-01	3.67E-02	1.93E-01	1.50E-02	1.93E-01	1.50E-02	6.40E-01	6.91E-01	1.37E+00	9.35E-01	1.53E-02
2538	360600	3797800	4.99E-01	3.70E-02	1.69E-01	1.50E-02	1.69E-01	1.50E-02	6.23E-01	6.05E-01	1.33E+00	8.66E-01	1.49E-02
2539	360700	3797800	4.99E-01	3.71E-02	1.40E-01	1.48E-02	1.40E-01	1.48E-02	6.23E-01	4.99E-01	1.33E+00	7.86E-01	1.49E-02
2540	362100	3797800	2.59E-01	2.21E-02	4.19E-02	8.55E-03	4.19E-02	8.55E-03	3.20E-01	1.37E-01	6.90E-01	3.26E-01	7.71E-03
2541	362200	3797800	2.49E-01	2.18E-02	4.31E-02	8.44E-03	4.31E-02	8.44E-03	3.08E-01	1.41E-01	6.64E-01	3.25E-01	7.42E-03
2542	362300	3797800	2.46E-01	2.16E-02	4.38E-02	8.36E-03	4.38E-02	8.36E-03	3.04E-01	1.44E-01	6.55E-01	3.26E-01	7.32E-03
2543	362400	3797800	2.41E-01	2.14E-02	4.40E-02	8.30E-03	4.40E-02	8.30E-03	2.98E-01	1.45E-01	6.42E-01	3.23E-01	7.17E-03
2544	362500	3797800	2.32E-01	2.13E-02	4.38E-02	8.24E-03	4.38E-02	8.24E-03	2.88E-01	1.44E-01	6.20E-01	3.16E-01	6.93E-03
2545	362600	3797800	2.22E-01	2.12E-02	4.31E-02	8.20E-03	4.31E-02	8.20E-03	2.74E-01	1.42E-01	5.91E-01	3.05E-01	6.60E-03
2546	362700	3797800	2.12E-01	2.11E-02	4.19E-02	8.16E-03	4.19E-02	8.16E-03	2.61E-01	1.38E-01	5.64E-01	2.92E-01	6.30E-03
2547	359800	3797900	5.45E-01	2.94E-02	1.19E-01	1.14E-02	1.19E-01	1.14E-02	6.80E-01	4.24E-01	1.45E+00	9.22E-01	1.62E-02
2548	359900	3797900	5.56E-01	3.03E-02	1.26E-01	1.20E-02	1.26E-01	1.20E-02	6.95E-01	4.34E-01	1.48E+00	8.46E-01	1.66E-02
2549	360000	3797900	5.69E-01	3.06E-02	1.49E-01	1.23E-02	1.49E-01	1.23E-02	7.12E-01	5.23E-01	1.52E+00	9.27E-01	1.70E-02
2550	360100	3797900	5.56E-01	3.21E-02	1.67E-01	1.31E-02	1.67E-01	1.31E-02	6.95E-01	5.93E-01	1.48E+00	1.04E+00	1.66E-02
2551	360200	3797900	5.42E-01	3.36E-02	1.84E-01	1.37E-02	1.84E-01	1.37E-02	6.77E-01	6.53E-01	1.45E+00	1.11E+00	1.62E-02
2552	360300	3797900	5.43E-01	3.47E-02	2.06E-01	1.43E-02	2.06E-01	1.43E-02	6.78E-01	7.33E-01	1.45E+00	1.12E+00	1.62E-02
2553	360400	3797900	5.40E-01	3.63E-02	2.11E-01	1.50E-02	2.11E-01	1.50E-02	6.75E-01	7.54E-01	1.44E+00	1.05E+00	1.61E-02
2554	360500	3797900	5.40E-01	3.72E-02	1.98E-01	1.53E-02	1.98E-01	1.53E-02	6.75E-01	7.09E-01	1.44E+00	9.49E-01	1.61E-02
2555	360600	3797900	5.26E-01	3.75E-02	1.70E-01	1.52E-02	1.70E-01	1.52E-02	6.56E-01	6.09E-01	1.40E+00	8.67E-01	1.57E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2556	362200	3797900	2.58E-01	2.19E-02	4.36E-02	8.49E-03	4.36E-02	8.49E-03	3.20E-01	1.43E-01	6.89E-01	3.29E-01	7.70E-03
2557	362300	3797900	2.53E-01	2.18E-02	4.40E-02	8.41E-03	4.40E-02	8.41E-03	3.13E-01	1.45E-01	6.74E-01	3.26E-01	7.54E-03
2558	362400	3797900	2.44E-01	2.16E-02	4.38E-02	8.36E-03	4.38E-02	8.36E-03	3.03E-01	1.45E-01	6.52E-01	3.20E-01	7.28E-03
2559	362500	3797900	2.33E-01	2.15E-02	4.32E-02	8.31E-03	4.32E-02	8.31E-03	2.88E-01	1.43E-01	6.21E-01	3.10E-01	6.94E-03
2560	362600	3797900	2.20E-01	2.14E-02	4.21E-02	8.27E-03	4.21E-02	8.27E-03	2.72E-01	1.39E-01	5.86E-01	2.96E-01	6.54E-03
2561	362700	3797900	2.16E-01	2.13E-02	4.07E-02	8.23E-03	4.07E-02	8.23E-03	2.67E-01	1.34E-01	5.76E-01	2.81E-01	6.44E-03
2562	359600	3798000	5.64E-01	2.70E-02	1.40E-01	1.00E-02	1.40E-01	1.00E-02	7.05E-01	4.93E-01	1.50E+00	1.10E+00	1.68E-02
2563	359700	3798000	5.61E-01	2.80E-02	1.37E-01	1.06E-02	1.37E-01	1.06E-02	7.01E-01	4.86E-01	1.49E+00	1.07E+00	1.67E-02
2564	359800	3798000	5.66E-01	2.87E-02	1.26E-01	1.10E-02	1.26E-01	1.10E-02	7.07E-01	4.51E-01	1.51E+00	9.77E-01	1.69E-02
2565	359900	3798000	5.87E-01	2.98E-02	1.25E-01	1.19E-02	1.25E-01	1.19E-02	7.34E-01	4.32E-01	1.57E+00	8.85E-01	1.75E-02
2566	360000	3798000	6.01E-01	3.09E-02	1.51E-01	1.24E-02	1.51E-01	1.24E-02	7.52E-01	5.32E-01	1.60E+00	9.57E-01	1.79E-02
2567	360100	3798000	5.80E-01	3.25E-02	1.72E-01	1.32E-02	1.72E-01	1.32E-02	7.26E-01	6.12E-01	1.55E+00	1.08E+00	1.73E-02
2568	360200	3798000	5.70E-01	3.41E-02	1.90E-01	1.40E-02	1.90E-01	1.40E-02	7.12E-01	6.76E-01	1.52E+00	1.16E+00	1.70E-02
2569	360300	3798000	5.70E-01	3.53E-02	2.14E-01	1.46E-02	2.14E-01	1.46E-02	7.13E-01	7.62E-01	1.52E+00	1.16E+00	1.70E-02
2570	360400	3798000	5.70E-01	3.70E-02	2.18E-01	1.53E-02	2.18E-01	1.53E-02	7.13E-01	7.81E-01	1.52E+00	1.08E+00	1.70E-02
2571	360500	3798000	5.70E-01	3.78E-02	2.02E-01	1.55E-02	2.02E-01	1.55E-02	7.12E-01	7.25E-01	1.52E+00	9.59E-01	1.70E-02
2572	362300	3798000	2.58E-01	2.19E-02	4.38E-02	8.47E-03	4.38E-02	8.47E-03	3.20E-01	1.45E-01	6.89E-01	3.23E-01	7.70E-03
2573	362400	3798000	2.46E-01	2.18E-02	4.33E-02	8.42E-03	4.33E-02	8.42E-03	3.05E-01	1.43E-01	6.56E-01	3.13E-01	7.33E-03
2574	362500	3798000	2.31E-01	2.17E-02	4.23E-02	8.37E-03	4.23E-02	8.37E-03	2.86E-01	1.40E-01	6.16E-01	3.00E-01	6.88E-03
2575	362600	3798000	2.24E-01	2.16E-02	4.09E-02	8.34E-03	4.09E-02	8.34E-03	2.78E-01	1.35E-01	5.99E-01	2.84E-01	6.69E-03
2576	362700	3798000	2.18E-01	2.15E-02	3.91E-02	8.30E-03	3.91E-02	8.30E-03	2.70E-01	1.29E-01	5.81E-01	2.67E-01	6.50E-03
2577	359400	3798100	5.40E-01	2.33E-02	1.37E-01	8.63E-03	1.37E-01	8.63E-03	6.75E-01	4.43E-01	1.44E+00	1.01E+00	1.61E-02
2578	359500	3798100	5.86E-01	2.60E-02	1.41E-01	9.61E-03	1.41E-01	9.61E-03	7.32E-01	4.79E-01	1.56E+00	1.17E+00	1.75E-02
2579	359600	3798100	5.94E-01	2.78E-02	1.44E-01	1.03E-02	1.44E-01	1.03E-02	7.43E-01	5.07E-01	1.58E+00	1.15E+00	1.77E-02
2580	359700	3798100	5.83E-01	2.87E-02	1.43E-01	1.08E-02	1.43E-01	1.08E-02	7.29E-01	5.09E-01	1.55E+00	1.11E+00	1.74E-02
2581	359800	3798100	5.91E-01	2.90E-02	1.34E-01	1.12E-02	1.34E-01	1.12E-02	7.39E-01	4.79E-01	1.58E+00	1.03E+00	1.76E-02
2582	359900	3798100	6.26E-01	2.97E-02	1.25E-01	1.17E-02	1.25E-01	1.17E-02	7.83E-01	4.43E-01	1.67E+00	9.24E-01	1.86E-02
2583	360000	3798100	6.34E-01	3.11E-02	1.53E-01	1.25E-02	1.53E-01	1.25E-02	7.93E-01	5.41E-01	1.69E+00	9.86E-01	1.89E-02
2584	360100	3798100	6.26E-01	3.29E-02	1.78E-01	1.34E-02	1.78E-01	1.34E-02	7.83E-01	6.31E-01	1.67E+00	1.12E+00	1.86E-02
2585	360200	3798100	6.00E-01	3.47E-02	1.97E-01	1.42E-02	1.97E-01	1.42E-02	7.49E-01	6.99E-01	1.60E+00	1.21E+00	1.79E-02
2586	360300	3798100	6.00E-01	3.60E-02	2.22E-01	1.49E-02	2.22E-01	1.49E-02	7.50E-01	7.92E-01	1.60E+00	1.21E+00	1.79E-02
2587	360400	3798100	6.03E-01	3.78E-02	2.26E-01	1.56E-02	2.26E-01	1.56E-02	7.53E-01	8.08E-01	1.61E+00	1.11E+00	1.80E-02
2588	362300	3798100	2.61E-01	2.21E-02	4.34E-02	8.53E-03	4.34E-02	8.53E-03	3.24E-01	1.44E-01	6.96E-01	3.16E-01	7.78E-03
2589	362400	3798100	2.45E-01	2.19E-02	4.24E-02	8.48E-03	4.24E-02	8.48E-03	3.04E-01	1.41E-01	6.53E-01	3.03E-01	7.30E-03
2590	362500	3798100	2.33E-01	2.18E-02	4.10E-02	8.44E-03	4.10E-02	8.44E-03	2.89E-01	1.36E-01	6.21E-01	2.87E-01	6.95E-03
2591	362600	3798100	2.26E-01	2.17E-02	3.92E-02	8.41E-03	3.92E-02	8.41E-03	2.80E-01	1.30E-01	6.03E-01	2.70E-01	6.74E-03
2592	362700	3798100	2.17E-01	2.17E-02	3.72E-02	8.37E-03	3.72E-02	8.37E-03	2.68E-01	1.23E-01	5.77E-01	2.51E-01	6.45E-03
2593	362800	3798100	2.08E-01	2.16E-02	3.52E-02	8.34E-03	3.52E-02	8.34E-03	2.57E-01	1.15E-01	5.55E-01	2.47E-01	6.20E-03
2594	359000	3798200	5.07E-01	1.76E-02	1.64E-01	6.59E-03	1.64E-01	6.59E-03	6.34E-01	5.34E-01	1.35E+00	8.98E-01	1.51E-02
2595	359100	3798200	5.00E-01	1.88E-02	1.47E-01	7.07E-03	1.47E-01	7.07E-03	6.25E-01	4.88E-01	1.33E+00	8.23E-01	1.49E-02
2596	359200	3798200	5.32E-01	1.99E-02	1.31E-01	7.50E-03	1.31E-01	7.50E-03	6.65E-01	4.13E-01	1.42E+00	6.97E-01	1.59E-02
2597	359300	3798200	5.18E-01	2.09E-02	1.37E-01	7.86E-03	1.37E-01	7.86E-03	6.47E-01	4.46E-01	1.38E+00	8.39E-01	1.54E-02
2598	359400	3798200	5.47E-01	2.40E-02	1.37E-01	8.83E-03	1.37E-01	8.83E-03	6.84E-01	4.53E-01	1.46E+00	9.83E-01	1.63E-02
2599	359500	3798200	6.11E-01	2.67E-02	1.42E-01	9.71E-03	1.42E-01	9.71E-03	7.65E-01	4.80E-01	1.63E+00	1.20E+00	1.82E-02
2600	359600	3798200	6.22E-01	2.89E-02	1.49E-01	1.06E-02	1.49E-01	1.06E-02	7.78E-01	5.24E-01	1.66E+00	1.24E+00	1.85E-02
2601	359700	3798200	6.23E-01	2.94E-02	1.50E-01	1.10E-02	1.50E-01	1.10E-02	7.80E-01	5.33E-01	1.66E+00	1.16E+00	1.86E-02
2602	359800	3798200	6.22E-01	2.94E-02	1.43E-01	1.13E-02	1.43E-01	1.13E-02	7.78E-01	5.10E-01	1.66E+00	1.09E+00	1.85E-02
2603	359900	3798200	6.52E-01	2.99E-02	1.31E-01	1.18E-02	1.31E-01	1.18E-02	8.16E-01	4.65E-01	1.74E+00	9.64E-01	1.94E-02
2604	360000	3798200	6.63E-01	3.14E-02	1.55E-01	1.26E-02	1.55E-01	1.26E-02	8.30E-01	5.49E-01	1.77E+00	1.01E+00	1.98E-02
2605	360100	3798200	6.44E-01	3.34E-02	1.83E-01	1.36E-02	1.83E-01	1.36E-02	8.05E-01	6.52E-01	1.72E+00	1.17E+00	1.92E-02
2606	360200	3798200	6.36E-01	3.54E-02	2.04E-01	1.45E-02	2.04E-01	1.45E-02	7.96E-01	7.24E-01	1.70E+00	1.26E+00	1.90E-02
2607	362400	3798200	2.42E-01	2.21E-02	4.11E-02	8.55E-03	4.11E-02	8.55E-03	3.00E-01	1.36E-01	6.45E-01	2.90E-01	7.21E-03
2608	362500	3798200	2.35E-01	2.20E-02	3.93E-02	8.51E-03	3.93E-02	8.51E-03	2.91E-01	1.30E-01	6.25E-01	2.71E-01	6.99E-03
2609	362600	3798200	2.24E-01	2.19E-02	3.72E-02	8.47E-03	3.72E-02	8.47E-03	2.78E-01	1.23E-01	5.98E-01	2.52E-01	6.68E-03
2610	362700	3798200	2.20E-01	2.18E-02	3.53E-02	8.44E-03	3.53E-02	8.44E-03	2.72E-01	1.15E-01	5.87E-01	2.47E-01	6.56E-03
2611	362800	3798200	2.23E-01	2.17E-02	3.55E-02	8.41E-03	3.55E-02	8.41E-03	2.76E-01	1.16E-01	5.95E-01	2.44E-01	6.65E-03
2612	358900	3798300	5.19E-01	1.69E-02	1.62E-01	6.33E-03	1.62E-01	6.33E-03	6.48E-01	5.29E-01	1.38E+00	9.20E-01	1.55E-02
2613	359000	3798300	5.39E-01	1.82E-02	1.74E-01	6.80E-03	1.74E-01	6.80E-03	6.73E-01	5.66E-01	1.44E+00	9.37E-01	1.61E-02
2614	359100	3798300	5.21E-01	1.93E-02	1.66E-01	7.25E-03	1.66E-01	7.25E-03	6.51E-01	5.45E-01	1.39E+00	8.91E-01	1.55E-02
2615	359200	3798300	5.44E-01	2.06E-02	1.38E-01	7.74E-03	1.38E-01	7.74E-03	6.79E-01	4.67E-01	1.45E+00	7.81E-01	1.62E-02
2616	359300	3798300	5.52E-01	2.19E-02	1.42E-01	8.20E-03	1.42E-01	8.20E-03	6.90E-01	4.56E-01	1.47E+00	8.51E-01	1.65E-02
2617	359400	3798300	5.73E-01	2.39E-02	1.39E-01	8.68E-03	1.39E-01	8.68E-03	7.18E-01	4.66E-01	1.53E+00	9.61E-01	1.71E-02
2618	359500	3798300	6.31E-01	2.80E-02	1.41E-01	1.01E-02	1.41E-01	1.01E-02	7.89E-01	4.76E-01	1.68E+00	1.16E+00	1.88E-02
2619	359600	3798300	6.76E-01	3.03E-02	1.49E-01	1.10E-02	1.49E-01	1.10E-02	8.46E-01	5.24E-01	1.80E+00	1.18E+00	2.01E-02
2620	359700	3798300	6.71E-01	3.03E-02	1.56E-01	1.12E-02	1.56E-01	1.12E-02	8.40E-01	5.56E-01	1.79E+00	1.19E+00	2.00E-02
2621	359800	3798300	6.51E-01	2.98E-02	1.52E-01	1.14E-02	1.52E-01	1.14E-02	8.15E-01	5.43E-01	1.74E+00	1.15E+00	1.94E-02
2622	359900	3798300	6.86E-01	3.01E-02	1.37E-01	1.19E-02	1.37E-01	1.19E-02	8.58E-01	4.88E-01	1.83E+00	1.00E+00	2.04E-02
2623	360000	3798300	6.89E-01	3.16E-02	1.58E-01	1.27E-02	1.58E-01	1.27E-02	8.62E-01	5.58E-01	1.84E+00	1.04E+00	2.05E-02
2624	360100	3798300	6.85E-01	3.40E-02	1.89E-01	1.39E-02	1.89E-01	1.39E-02	8.58E-01	6.74E-01	1.83E+00	1.22E+00	2.04E-02
2625	362400	3798300	2.43E-01	2.23E-02	3.93E-02	8.60E-03	3.93E-02	8.60E-03	3.01E-01	1.30E-01	6.48E-01	2.73E-01	7.24E-03
2626	362500	3798300	2.32E-01	2.21E-02	3.71E-02	8.56E-03	3.71E-02	8.56E-03	2.87E-01	1.23E-01	6.18E-01	2.53E-01	6.91E-03
2627	362600	3798300	2.33E-01	2.20E-02	3.53E-02	8.53E-03	3.53E-02	8.53E-03	2.89E-01	1.15E-01	6.21E-01	2.46E-01	6.94E-03
2628	362700	3798300	2.36E-01	2.19E-02	3.55E-02	8.50E-03	3.55E-02	8.50E-03	2.92E-01	1.16E-01	6.30E-01	2.43E-01	7.04E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2629	362800	3798300	2.36E-01	2.19E-02	3.56E-02	8.46E-03	3.56E-02	8.46E-03	2.93E-01	1.16E-01	6.30E-01	2.37E-01	7.04E-03
2630	358700	3798400	5.19E-01	1.52E-02	9.88E-02	5.68E-03	9.88E-02	5.68E-03	6.49E-01	3.36E-01	1.38E+00	6.82E-01	1.55E-02
2631	358800	3798400	5.33E-01	1.61E-02	1.25E-01	5.99E-03	1.25E-01	5.99E-03	6.66E-01	4.19E-01	1.42E+00	8.04E-01	1.59E-02
2632	358900	3798400	5.29E-01	1.74E-02	1.53E-01	6.48E-03	1.53E-01	6.48E-03	6.61E-01	5.06E-01	1.41E+00	9.03E-01	1.58E-02
2633	359000	3798400	5.61E-01	1.86E-02	1.78E-01	6.94E-03	1.78E-01	6.94E-03	7.01E-01	5.76E-01	1.49E+00	9.57E-01	1.67E-02
2634	359100	3798400	5.65E-01	2.05E-02	1.85E-01	7.58E-03	1.85E-01	7.58E-03	7.06E-01	5.95E-01	1.51E+00	9.46E-01	1.68E-02
2635	359200	3798400	5.42E-01	2.07E-02	1.67E-01	7.73E-03	1.67E-01	7.73E-03	6.77E-01	5.56E-01	1.44E+00	9.47E-01	1.61E-02
2636	359300	3798400	5.77E-01	2.21E-02	1.47E-01	8.20E-03	1.47E-01	8.20E-03	7.22E-01	4.65E-01	1.54E+00	9.41E-01	1.72E-02
2637	359400	3798400	5.58E-01	2.50E-02	1.44E-01	9.04E-03	1.44E-01	9.04E-03	6.99E-01	4.78E-01	1.49E+00	9.56E-01	1.66E-02
2638	359500	3798400	6.47E-01	2.95E-02	1.40E-01	1.05E-02	1.40E-01	1.05E-02	8.10E-01	4.78E-01	1.72E+00	1.07E+00	1.93E-02
2639	359600	3798400	7.15E-01	3.20E-02	1.50E-01	1.15E-02	1.50E-01	1.15E-02	8.95E-01	5.25E-01	1.91E+00	1.18E+00	2.13E-02
2640	359700	3798400	7.04E-01	3.13E-02	1.62E-01	1.15E-02	1.62E-01	1.15E-02	8.81E-01	5.77E-01	1.88E+00	1.21E+00	2.10E-02
2641	359800	3798400	6.78E-01	3.01E-02	1.61E-01	1.15E-02	1.61E-01	1.15E-02	8.49E-01	5.77E-01	1.81E+00	1.20E+00	2.02E-02
2642	362400	3798400	2.40E-01	2.24E-02	3.70E-02	8.65E-03	3.70E-02	8.65E-03	2.98E-01	1.23E-01	6.41E-01	2.53E-01	7.16E-03
2643	362500	3798400	2.47E-01	2.23E-02	3.53E-02	8.61E-03	3.53E-02	8.61E-03	3.06E-01	1.16E-01	6.59E-01	2.45E-01	7.36E-03
2644	362600	3798400	2.50E-01	2.21E-02	3.55E-02	8.58E-03	3.55E-02	8.58E-03	3.10E-01	1.17E-01	6.67E-01	2.42E-01	7.45E-03
2645	362700	3798400	2.50E-01	2.20E-02	3.56E-02	8.55E-03	3.56E-02	8.55E-03	3.09E-01	1.17E-01	6.66E-01	2.36E-01	7.44E-03
2646	362800	3798400	2.47E-01	2.20E-02	3.55E-02	8.51E-03	3.55E-02	8.51E-03	3.05E-01	1.16E-01	6.58E-01	2.27E-01	7.35E-03
2647	358700	3798500	5.27E-01	1.57E-02	8.39E-02	5.84E-03	8.39E-02	5.84E-03	6.59E-01	2.89E-01	1.41E+00	5.98E-01	1.57E-02
2648	358800	3798500	5.66E-01	1.67E-02	1.09E-01	6.20E-03	1.09E-01	6.20E-03	7.07E-01	3.70E-01	1.51E+00	7.34E-01	1.69E-02
2649	358900	3798500	5.71E-01	1.80E-02	1.38E-01	6.66E-03	1.38E-01	6.66E-03	7.14E-01	4.63E-01	1.52E+00	8.59E-01	1.70E-02
2650	359000	3798500	5.88E-01	1.93E-02	1.70E-01	7.14E-03	1.70E-01	7.14E-03	7.35E-01	5.58E-01	1.57E+00	9.50E-01	1.75E-02
2651	359100	3798500	6.08E-01	2.00E-02	2.08E-01	7.43E-03	2.08E-01	7.43E-03	7.60E-01	6.72E-01	1.62E+00	1.11E+00	1.81E-02
2652	359200	3798500	5.82E-01	2.18E-02	1.99E-01	8.06E-03	1.99E-01	8.06E-03	7.27E-01	6.52E-01	1.55E+00	1.08E+00	1.73E-02
2653	359300	3798500	6.14E-01	2.17E-02	1.54E-01	8.03E-03	1.54E-01	8.03E-03	7.69E-01	5.32E-01	1.64E+00	9.52E-01	1.83E-02
2654	359400	3798500	6.21E-01	2.57E-02	1.49E-01	9.16E-03	1.49E-01	9.16E-03	7.77E-01	4.90E-01	1.66E+00	8.27E-01	1.85E-02
2655	359500	3798500	6.41E-01	3.15E-02	1.40E-01	1.11E-02	1.40E-01	1.11E-02	8.02E-01	4.89E-01	1.71E+00	1.02E+00	1.91E-02
2656	359600	3798500	7.38E-01	3.41E-02	1.48E-01	1.21E-02	1.48E-01	1.21E-02	9.24E-01	5.19E-01	1.97E+00	1.18E+00	2.20E-02
2657	362400	3798500	2.62E-01	2.24E-02	3.52E-02	8.69E-03	3.52E-02	8.69E-03	3.25E-01	1.16E-01	6.99E-01	2.42E-01	7.81E-03
2658	362500	3798500	2.65E-01	2.23E-02	3.55E-02	8.65E-03	3.55E-02	8.65E-03	3.29E-01	1.17E-01	7.07E-01	2.39E-01	7.90E-03
2659	362600	3798500	2.64E-01	2.22E-02	3.56E-02	8.62E-03	3.56E-02	8.62E-03	3.27E-01	1.17E-01	7.04E-01	2.33E-01	7.87E-03
2660	362700	3798500	2.60E-01	2.21E-02	3.54E-02	8.59E-03	3.54E-02	8.59E-03	3.22E-01	1.16E-01	6.93E-01	2.24E-01	7.74E-03
2661	362800	3798500	2.53E-01	2.21E-02	3.51E-02	8.58E-03	3.51E-02	8.58E-03	3.13E-01	1.15E-01	6.75E-01	2.17E-01	7.54E-03
2662	358600	3798600	4.52E-01	1.53E-02	7.72E-02	5.65E-03	7.72E-02	5.65E-03	5.64E-01	2.66E-01	1.20E+00	7.66E-01	1.35E-02
2663	358700	3798600	5.15E-01	1.60E-02	8.46E-02	5.94E-03	8.46E-02	5.94E-03	6.43E-01	2.90E-01	1.37E+00	8.18E-01	1.53E-02
2664	358800	3798600	5.80E-01	1.72E-02	9.18E-02	6.36E-03	9.18E-02	6.36E-03	7.25E-01	3.17E-01	1.55E+00	7.17E-01	1.73E-02
2665	358900	3798600	6.16E-01	1.84E-02	1.19E-01	6.79E-03	1.19E-01	6.79E-03	7.70E-01	4.08E-01	1.64E+00	7.88E-01	1.84E-02
2666	359000	3798600	6.10E-01	1.96E-02	1.53E-01	7.23E-03	1.53E-01	7.23E-03	7.63E-01	5.12E-01	1.63E+00	9.14E-01	1.82E-02
2667	359100	3798600	6.50E-01	1.99E-02	2.06E-01	7.35E-03	2.06E-01	7.35E-03	8.14E-01	6.78E-01	1.73E+00	1.21E+00	1.94E-02
2668	359200	3798600	6.51E-01	2.08E-02	2.15E-01	7.67E-03	2.15E-01	7.67E-03	8.15E-01	7.11E-01	1.74E+00	1.24E+00	1.94E-02
2669	359300	3798600	6.16E-01	2.24E-02	1.80E-01	8.11E-03	1.80E-01	8.11E-03	7.71E-01	6.14E-01	1.64E+00	1.06E+00	1.84E-02
2670	359400	3798600	6.22E-01	2.68E-02	1.56E-01	9.44E-03	1.56E-01	9.44E-03	7.79E-01	5.03E-01	1.66E+00	7.76E-01	1.85E-02
2671	362400	3798600	2.81E-01	2.25E-02	3.54E-02	8.72E-03	3.54E-02	8.72E-03	3.49E-01	1.17E-01	7.49E-01	2.35E-01	8.37E-03
2672	362500	3798600	2.79E-01	2.24E-02	3.55E-02	8.68E-03	3.55E-02	8.68E-03	3.46E-01	1.17E-01	7.44E-01	2.29E-01	8.32E-03
2673	362600	3798600	2.74E-01	2.23E-02	3.53E-02	8.65E-03	3.53E-02	8.65E-03	3.39E-01	1.16E-01	7.30E-01	2.20E-01	8.16E-03
2674	362700	3798600	2.66E-01	2.23E-02	3.53E-02	8.65E-03	3.53E-02	8.65E-03	3.29E-01	1.15E-01	7.08E-01	2.20E-01	7.91E-03
2675	362800	3798600	2.55E-01	2.23E-02	3.53E-02	8.66E-03	3.53E-02	8.66E-03	3.16E-01	1.15E-01	6.80E-01	2.21E-01	7.60E-03
2676	358500	3798700	4.57E-01	1.51E-02	5.93E-02	5.53E-03	5.93E-02	5.53E-03	5.69E-01	2.05E-01	1.22E+00	5.74E-01	1.36E-02
2677	358600	3798700	4.55E-01	1.57E-02	7.85E-02	5.73E-03	7.85E-02	5.73E-03	5.68E-01	2.72E-01	1.21E+00	8.01E-01	1.36E-02
2678	358700	3798700	4.80E-01	1.60E-02	9.02E-02	5.89E-03	9.02E-02	5.89E-03	6.00E-01	3.13E-01	1.28E+00	9.23E-01	1.43E-02
2679	358800	3798700	5.70E-01	1.74E-02	9.50E-02	6.39E-03	9.50E-02	6.39E-03	7.13E-01	3.28E-01	1.52E+00	9.38E-01	1.70E-02
2680	358900	3798700	6.39E-01	1.85E-02	1.01E-01	6.79E-03	1.01E-01	6.79E-03	8.00E-01	3.49E-01	1.71E+00	8.89E-01	1.91E-02
2681	359000	3798700	6.69E-01	1.96E-02	1.31E-01	7.18E-03	1.31E-01	7.18E-03	8.38E-01	4.50E-01	1.78E+00	8.45E-01	2.00E-02
2682	359100	3798700	6.73E-01	1.98E-02	1.83E-01	7.28E-03	1.83E-01	7.28E-03	8.43E-01	6.16E-01	1.79E+00	1.18E+00	2.01E-02
2683	362400	3798700	2.95E-01	2.25E-02	3.54E-02	8.73E-03	3.54E-02	8.73E-03	3.66E-01	1.17E-01	7.87E-01	2.23E-01	8.79E-03
2684	362500	3798700	2.88E-01	2.24E-02	3.58E-02	8.70E-03	3.58E-02	8.70E-03	3.58E-01	1.17E-01	7.69E-01	2.19E-01	8.59E-03
2685	362600	3798700	2.78E-01	2.24E-02	3.59E-02	8.70E-03	3.59E-02	8.70E-03	3.45E-01	1.18E-01	7.42E-01	2.23E-01	8.29E-03
2686	362700	3798700	2.66E-01	2.24E-02	3.59E-02	8.71E-03	3.59E-02	8.71E-03	3.30E-01	1.18E-01	7.09E-01	2.24E-01	7.92E-03
2687	362800	3798700	2.52E-01	2.24E-02	3.57E-02	8.72E-03	3.57E-02	8.72E-03	3.12E-01	1.17E-01	6.72E-01	2.27E-01	7.50E-03
2688	358500	3798800	4.42E-01	1.54E-02	5.89E-02	5.58E-03	5.89E-02	5.58E-03	5.52E-01	2.03E-01	1.18E+00	5.73E-01	1.32E-02
2689	358600	3798800	4.16E-01	1.56E-02	7.43E-02	5.67E-03	7.43E-02	5.67E-03	5.20E-01	2.57E-01	1.11E+00	7.54E-01	1.24E-02
2690	358700	3798800	4.53E-01	1.56E-02	7.81E-02	5.71E-03	7.81E-02	5.71E-03	5.66E-01	2.71E-01	1.21E+00	7.81E-01	1.35E-02
2691	358800	3798800	5.32E-01	1.70E-02	9.09E-02	6.20E-03	9.09E-02	6.20E-03	6.66E-01	3.16E-01	1.42E+00	9.19E-01	1.59E-02
2692	358900	3798800	6.34E-01	1.84E-02	9.77E-02	6.71E-03	9.77E-02	6.71E-03	7.93E-01	3.39E-01	1.69E+00	9.59E-01	1.89E-02
2693	359000	3798800	7.06E-01	1.95E-02	1.11E-01	7.12E-03	1.11E-01	7.12E-03	8.84E-01	3.86E-01	1.88E+00	8.47E-01	2.10E-02
2694	362400	3798800	3.03E-01	2.24E-02	3.64E-02	8.73E-03	3.64E-02	8.73E-03	3.76E-01	1.20E-01	8.08E-01	2.21E-01	9.03E-03
2695	362500	3798800	2.91E-01	2.24E-02	3.66E-02	8.74E-03	3.66E-02	8.74E-03	3.61E-01	1.20E-01	7.76E-01	2.25E-01	8.67E-03
2696	362600	3798800	2.76E-01	2.24E-02	3.66E-02	8.76E-03	3.66E-02	8.76E-03	3.43E-01	1.20E-01	7.37E-01	2.25E-01	8.23E-03
2697	362700	3798800	2.60E-01	2.24E-02	3.64E-02	8.77E-03	3.64E-02	8.77E-03	3.23E-01	1.20E-01	6.94E-01	2.29E-01	7.75E-03
2698	362800	3798800	2.43E-01	2.24E-02	3.60E-02	8.77E-03	3.60E-02	8.77E-03	3.01E-01	1.18E-01	6.48E-01	2.33E-01	7.24E-03
2699	358400	3798900	4.63E-01	1.54E-02	3.94E-02	5.54E-03	3.94E-02	5.54E-03	5.77E-01	1.35E-01	1.23E+00	4.04E-01	1.38E-02
2700	358500	3798900	4.32E-01	1.53E-02	4.95E-02	5.51E-03	4.95E-02	5.51E-03	5.39E-01	1.70E-01	1.15E+00	4.52E-01	1.29E-02
2701	358600	3798900	4.29E-01	1.52E-02	5.71E-02	5.49E-03	5.71E-02	5.49E-03	5.36E-01	1.97E-01	1.14E+00	5.32E-01	1.28E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2702	358700	3798900	3.85E-01	1.53E-02	5.89E-02	5.55E-03	5.89E-02	5.55E-03	4.82E-01	2.04E-01	1.03E+00	5.39E-01	1.15E-02
2703	358800	3798900	4.66E-01	1.56E-02	5.79E-02	5.69E-03	5.79E-02	5.69E-03	5.83E-01	2.02E-01	1.24E+00	5.37E-01	1.39E-02
2704	358900	3798900	5.93E-01	1.77E-02	7.85E-02	6.42E-03	7.85E-02	6.42E-03	7.43E-01	2.73E-01	1.58E+00	7.47E-01	1.77E-02
2705	362400	3798900	3.03E-01	2.24E-02	3.72E-02	8.76E-03	3.72E-02	8.76E-03	3.77E-01	1.23E-01	8.09E-01	2.26E-01	9.04E-03
2706	362500	3798900	2.86E-01	2.24E-02	3.72E-02	8.79E-03	3.72E-02	8.79E-03	3.55E-01	1.23E-01	7.63E-01	2.26E-01	8.53E-03
2707	362600	3798900	2.67E-01	2.24E-02	3.70E-02	8.80E-03	3.70E-02	8.80E-03	3.32E-01	1.22E-01	7.13E-01	2.30E-01	7.97E-03
2708	362700	3798900	2.48E-01	2.24E-02	3.66E-02	8.81E-03	3.66E-02	8.81E-03	3.08E-01	1.21E-01	6.62E-01	2.34E-01	7.39E-03
2709	362800	3798900	2.29E-01	2.24E-02	3.63E-02	8.81E-03	3.63E-02	8.81E-03	2.84E-01	1.20E-01	6.10E-01	2.36E-01	6.82E-03
2710	358400	3799000	4.58E-01	1.68E-02	3.69E-02	5.94E-03	3.69E-02	5.94E-03	5.71E-01	1.25E-01	1.22E+00	3.63E-01	1.36E-02
2711	358500	3799000	4.52E-01	1.63E-02	4.17E-02	5.77E-03	4.17E-02	5.77E-03	5.65E-01	1.42E-01	1.20E+00	4.18E-01	1.35E-02
2712	358600	3799000	4.68E-01	1.70E-02	5.12E-02	6.02E-03	5.12E-02	6.02E-03	5.85E-01	1.76E-01	1.25E+00	4.63E-01	1.40E-02
2713	358700	3799000	4.27E-01	1.66E-02	5.51E-02	5.87E-03	5.51E-02	5.87E-03	5.35E-01	1.91E-01	1.14E+00	4.92E-01	1.27E-02
2714	358800	3799000	3.78E-01	1.65E-02	4.73E-02	5.85E-03	4.73E-02	5.85E-03	4.73E-01	1.65E-01	1.01E+00	4.92E-01	1.13E-02
2715	358900	3799000	5.17E-01	1.75E-02	5.87E-02	6.22E-03	5.87E-02	6.22E-03	6.47E-01	2.06E-01	1.38E+00	6.06E-01	1.54E-02
2716	362400	3799000	2.95E-01	2.24E-02	3.79E-02	8.80E-03	3.79E-02	8.80E-03	3.66E-01	1.26E-01	7.86E-01	2.25E-01	8.78E-03
2717	362500	3799000	2.73E-01	2.24E-02	3.76E-02	8.82E-03	3.76E-02	8.82E-03	3.39E-01	1.25E-01	7.29E-01	2.30E-01	8.14E-03
2718	362600	3799000	2.52E-01	2.24E-02	3.73E-02	8.83E-03	3.73E-02	8.83E-03	3.12E-01	1.24E-01	6.71E-01	2.33E-01	7.49E-03
2719	362700	3799000	2.30E-01	2.24E-02	3.73E-02	8.84E-03	3.73E-02	8.84E-03	2.85E-01	1.24E-01	6.13E-01	2.38E-01	6.85E-03
2720	362800	3799000	2.13E-01	2.24E-02	3.71E-02	8.83E-03	3.71E-02	8.83E-03	2.64E-01	1.23E-01	5.68E-01	2.43E-01	6.34E-03
2721	358300	3799100	4.75E-01	1.75E-02	2.92E-02	6.13E-03	2.92E-02	6.13E-03	5.92E-01	9.91E-02	1.27E+00	2.83E-01	1.41E-02
2722	358400	3799100	5.00E-01	1.82E-02	3.43E-02	6.35E-03	3.43E-02	6.35E-03	6.24E-01	1.13E-01	1.33E+00	3.14E-01	1.49E-02
2723	358500	3799100	4.70E-01	1.79E-02	4.14E-02	6.22E-03	4.14E-02	6.22E-03	5.87E-01	1.38E-01	1.25E+00	3.97E-01	1.40E-02
2724	358600	3799100	4.89E-01	1.81E-02	4.42E-02	6.24E-03	4.42E-02	6.24E-03	6.11E-01	1.48E-01	1.30E+00	4.22E-01	1.46E-02
2725	358700	3799100	3.81E-01	1.74E-02	4.17E-02	6.05E-03	4.17E-02	6.05E-03	4.77E-01	1.44E-01	1.02E+00	3.18E-01	1.14E-02
2726	358800	3799100	4.06E-01	1.78E-02	4.26E-02	6.23E-03	4.26E-02	6.23E-03	5.08E-01	1.47E-01	1.08E+00	4.13E-01	1.21E-02
2727	362400	3799100	2.77E-01	2.24E-02	3.86E-02	8.83E-03	3.86E-02	8.83E-03	3.44E-01	1.29E-01	7.39E-01	2.28E-01	8.26E-03
2728	362500	3799100	2.57E-01	2.24E-02	3.86E-02	8.85E-03	3.86E-02	8.85E-03	3.19E-01	1.29E-01	6.86E-01	2.32E-01	7.67E-03
2729	362600	3799100	2.41E-01	2.24E-02	3.84E-02	8.85E-03	3.84E-02	8.85E-03	2.98E-01	1.28E-01	6.42E-01	2.39E-01	7.17E-03
2730	362700	3799100	2.24E-01	2.24E-02	3.81E-02	8.85E-03	3.81E-02	8.85E-03	2.77E-01	1.27E-01	5.97E-01	2.43E-01	6.67E-03
2731	362800	3799100	2.07E-01	2.23E-02	3.78E-02	8.83E-03	3.78E-02	8.83E-03	2.57E-01	1.26E-01	5.53E-01	2.45E-01	6.18E-03
2732	358200	3799200	4.58E-01	1.77E-02	2.78E-02	6.10E-03	2.78E-02	6.10E-03	5.71E-01	9.11E-02	1.22E+00	2.74E-01	1.37E-02
2733	358300	3799200	4.79E-01	1.82E-02	2.67E-02	6.24E-03	2.67E-02	6.24E-03	5.97E-01	9.04E-02	1.28E+00	3.16E-01	1.43E-02
2734	358400	3799200	4.81E-01	1.83E-02	3.19E-02	6.28E-03	3.19E-02	6.28E-03	6.01E-01	1.03E-01	1.28E+00	3.53E-01	1.43E-02
2735	358500	3799200	4.15E-01	1.83E-02	3.51E-02	6.28E-03	3.51E-02	6.28E-03	5.19E-01	1.14E-01	1.11E+00	3.53E-01	1.24E-02
2736	358600	3799200	3.84E-01	1.84E-02	3.38E-02	6.30E-03	3.38E-02	6.30E-03	4.80E-01	1.09E-01	1.02E+00	2.91E-01	1.14E-02
2737	358700	3799200	3.04E-01	1.82E-02	2.92E-02	6.33E-03	2.92E-02	6.33E-03	3.80E-01	1.00E-01	8.09E-01	2.29E-01	9.05E-03
2738	362300	3799200	2.94E-01	2.23E-02	4.05E-02	8.83E-03	4.05E-02	8.83E-03	3.65E-01	1.36E-01	7.83E-01	2.24E-01	8.75E-03
2739	362400	3799200	2.74E-01	2.23E-02	4.02E-02	8.85E-03	4.02E-02	8.85E-03	3.40E-01	1.35E-01	7.30E-01	2.31E-01	8.15E-03
2740	362500	3799200	2.54E-01	2.23E-02	3.98E-02	8.86E-03	3.98E-02	8.86E-03	3.15E-01	1.33E-01	6.76E-01	2.37E-01	7.55E-03
2741	362600	3799200	2.34E-01	2.23E-02	3.93E-02	8.85E-03	3.93E-02	8.85E-03	2.90E-01	1.32E-01	6.23E-01	2.41E-01	6.97E-03
2742	362700	3799200	2.15E-01	2.22E-02	3.87E-02	8.84E-03	3.87E-02	8.84E-03	2.66E-01	1.30E-01	5.73E-01	2.42E-01	6.40E-03
2743	358200	3799300	3.58E-01	1.80E-02	2.59E-02	6.17E-03	2.59E-02	6.17E-03	4.47E-01	8.44E-02	9.54E-01	2.51E-01	1.07E-02
2744	358300	3799300	3.84E-01	1.82E-02	2.36E-02	6.25E-03	2.36E-02	6.25E-03	4.79E-01	8.21E-02	1.02E+00	2.90E-01	1.14E-02
2745	358400	3799300	3.96E-01	1.83E-02	2.52E-02	6.27E-03	2.52E-02	6.27E-03	4.95E-01	8.83E-02	1.06E+00	3.07E-01	1.18E-02
2746	358500	3799300	3.58E-01	1.79E-02	2.21E-02	6.17E-03	2.21E-02	6.17E-03	4.47E-01	7.47E-02	9.54E-01	2.50E-01	1.07E-02
2747	358600	3799300	3.01E-01	1.88E-02	2.07E-02	6.47E-03	2.07E-02	6.47E-03	3.76E-01	7.16E-02	8.03E-01	1.99E-01	8.97E-03
2748	358700	3799300	2.88E-01	2.01E-02	2.26E-02	6.90E-03	2.26E-02	6.90E-03	3.59E-01	7.34E-02	7.68E-01	2.25E-01	8.58E-03
2749	362300	3799300	2.89E-01	2.22E-02	4.20E-02	8.85E-03	4.20E-02	8.85E-03	3.59E-01	1.42E-01	7.70E-01	2.61E-01	8.61E-03
2750	362400	3799300	2.65E-01	2.22E-02	4.13E-02	8.85E-03	4.13E-02	8.85E-03	3.29E-01	1.39E-01	7.07E-01	2.59E-01	7.90E-03
2751	362500	3799300	2.42E-01	2.22E-02	4.05E-02	8.85E-03	4.05E-02	8.85E-03	3.01E-01	1.36E-01	6.45E-01	2.55E-01	7.21E-03
2752	362600	3799300	2.20E-01	2.22E-02	3.96E-02	8.83E-03	3.96E-02	8.83E-03	2.74E-01	1.33E-01	5.88E-01	2.49E-01	6.57E-03
2753	362700	3799300	2.11E-01	2.21E-02	3.88E-02	8.81E-03	3.88E-02	8.81E-03	2.62E-01	1.30E-01	5.63E-01	2.43E-01	6.29E-03
2754	358200	3799400	3.67E-01	1.77E-02	2.09E-02	6.08E-03	2.09E-02	6.08E-03	4.58E-01	6.77E-02	9.78E-01	1.80E-01	1.09E-02
2755	358300	3799400	3.70E-01	1.77E-02	1.86E-02	6.14E-03	1.86E-02	6.14E-03	4.62E-01	6.38E-02	9.86E-01	1.81E-01	1.10E-02
2756	358400	3799400	3.66E-01	1.84E-02	1.89E-02	6.36E-03	1.89E-02	6.36E-03	4.57E-01	6.50E-02	9.76E-01	1.82E-01	1.09E-02
2757	358500	3799400	3.92E-01	1.94E-02	2.01E-02	6.65E-03	2.01E-02	6.65E-03	4.90E-01	6.91E-02	1.05E+00	2.22E-01	1.17E-02
2758	358600	3799400	4.08E-01	2.11E-02	2.41E-02	7.14E-03	2.41E-02	7.14E-03	5.11E-01	8.06E-02	1.09E+00	2.72E-01	1.22E-02
2759	362200	3799400	3.02E-01	2.22E-02	4.39E-02	8.85E-03	4.39E-02	8.85E-03	3.75E-01	1.48E-01	8.05E-01	3.01E-01	8.99E-03
2760	362300	3799400	2.74E-01	2.21E-02	4.28E-02	8.84E-03	4.28E-02	8.84E-03	3.41E-01	1.45E-01	7.30E-01	2.95E-01	8.16E-03
2761	362400	3799400	2.48E-01	2.21E-02	4.16E-02	8.83E-03	4.16E-02	8.83E-03	3.08E-01	1.40E-01	6.60E-01	2.87E-01	7.38E-03
2762	362500	3799400	2.23E-01	2.20E-02	4.04E-02	8.81E-03	4.04E-02	8.81E-03	2.77E-01	1.36E-01	5.95E-01	2.77E-01	6.65E-03
2763	362600	3799400	2.19E-01	2.20E-02	3.91E-02	8.79E-03	3.91E-02	8.79E-03	2.72E-01	1.31E-01	5.84E-01	2.67E-01	6.53E-03
2764	362700	3799400	2.17E-01	2.19E-02	3.81E-02	8.76E-03	3.81E-02	8.76E-03	2.69E-01	1.28E-01	5.78E-01	2.56E-01	6.46E-03
2765	358200	3799500	3.27E-01	1.92E-02	2.22E-02	6.59E-03	2.22E-02	6.59E-03	4.09E-01	7.20E-02	8.72E-01	1.42E-01	9.75E-03
2766	358300	3799500	3.69E-01	2.02E-02	2.31E-02	6.88E-03	2.31E-02	6.88E-03	4.61E-01	7.52E-02	9.84E-01	1.72E-01	1.10E-02
2767	358400	3799500	4.08E-01	2.17E-02	2.51E-02	7.34E-03	2.51E-02	7.34E-03	5.11E-01	8.19E-02	1.09E+00	2.13E-01	1.22E-02
2768	358500	3799500	4.40E-01	2.35E-02	2.63E-02	7.89E-03	2.63E-02	7.89E-03	5.50E-01	8.61E-02	1.17E+00	2.64E-01	1.31E-02
2769	358600	3799500	4.77E-01	2.49E-02	2.53E-02	8.29E-03	2.53E-02	8.29E-03	5.96E-01	8.77E-02	1.27E+00	3.08E-01	1.42E-02
2770	362100	3799500	3.11E-01	2.21E-02	4.58E-02	8.85E-03	4.58E-02	8.85E-03	3.87E-01	1.56E-01	8.29E-01	3.47E-01	9.26E-03
2771	362200	3799500	2.79E-01	2.21E-02	4.42E-02	8.83E-03	4.42E-02	8.83E-03	3.47E-01	1.50E-01	7.43E-01	3.36E-01	8.30E-03
2772	362300	3799500	2.49E-01	2.20E-02	4.26E-02	8.81E-03	4.26E-02	8.81E-03	3.10E-01	1.44E-01	6.64E-01	3.22E-01	7.42E-03
2773	362400	3799500	2.26E-01	2.19E-02	4.10E-02	8.79E-03	4.10E-02	8.79E-03	2.81E-01	1.38E-01	6.03E-01	3.08E-01	6.74E-03
2774	362500	3799500	2.24E-01	2.18E-02	3.94E-02	8.76E-03	3.94E-02	8.76E-03	2.78E-01	1.33E-01	5.97E-01	2.93E-01	6.67E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2775	362600	3799500	2.20E-01	2.18E-02	3.79E-02	8.73E-03	3.79E-02	8.73E-03	2.73E-01	1.27E-01	5.86E-01	2.78E-01	6.55E-03
2776	358100	3799600	2.72E-01	2.06E-02	2.67E-02	7.06E-03	2.67E-02	7.06E-03	3.39E-01	8.95E-02	7.24E-01	1.73E-01	8.09E-03
2777	358200	3799600	3.16E-01	2.25E-02	2.98E-02	7.66E-03	2.98E-02	7.66E-03	3.94E-01	1.00E-01	8.43E-01	2.13E-01	9.42E-03
2778	358300	3799600	3.71E-01	2.52E-02	3.29E-02	8.50E-03	3.29E-02	8.50E-03	4.62E-01	1.11E-01	9.88E-01	2.62E-01	1.10E-02
2779	358400	3799600	4.24E-01	2.76E-02	3.68E-02	9.23E-03	3.68E-02	9.23E-03	5.29E-01	1.21E-01	1.13E+00	2.83E-01	1.26E-02
2780	358500	3799600	4.30E-01	2.87E-02	3.68E-02	9.54E-03	3.68E-02	9.54E-03	5.37E-01	1.22E-01	1.15E+00	2.70E-01	1.28E-02
2781	362000	3799600	3.13E-01	2.21E-02	4.74E-02	8.85E-03	4.74E-02	8.85E-03	3.90E-01	1.62E-01	8.35E-01	3.99E-01	9.34E-03
2782	362100	3799600	2.77E-01	2.20E-02	4.54E-02	8.82E-03	4.54E-02	8.82E-03	3.45E-01	1.54E-01	7.40E-01	3.80E-01	8.26E-03
2783	362200	3799600	2.45E-01	2.19E-02	4.33E-02	8.79E-03	4.33E-02	8.79E-03	3.05E-01	1.47E-01	6.53E-01	3.60E-01	7.30E-03
2784	362300	3799600	2.28E-01	2.18E-02	4.13E-02	8.76E-03	4.13E-02	8.76E-03	2.83E-01	1.42E-01	6.08E-01	3.39E-01	6.79E-03
2785	362400	3799600	2.24E-01	2.17E-02	4.00E-02	8.73E-03	4.00E-02	8.73E-03	2.78E-01	1.37E-01	5.96E-01	3.19E-01	6.66E-03
2786	362500	3799600	2.18E-01	2.16E-02	3.87E-02	8.69E-03	3.87E-02	8.69E-03	2.72E-01	1.32E-01	5.83E-01	2.99E-01	6.51E-03
2787	362600	3799600	2.23E-01	2.15E-02	3.73E-02	8.65E-03	3.73E-02	8.65E-03	2.77E-01	1.27E-01	5.94E-01	2.80E-01	6.64E-03
2788	358100	3799700	3.76E-01	2.54E-02	3.70E-02	8.68E-03	3.70E-02	8.68E-03	4.69E-01	1.24E-01	1.00E+00	2.90E-01	1.12E-02
2789	358200	3799700	3.87E-01	2.58E-02	3.65E-02	8.78E-03	3.65E-02	8.78E-03	4.82E-01	1.23E-01	1.03E+00	2.76E-01	1.15E-02
2790	358300	3799700	4.24E-01	2.83E-02	3.91E-02	9.55E-03	3.91E-02	9.55E-03	5.29E-01	1.32E-01	1.13E+00	3.07E-01	1.26E-02
2791	358400	3799700	3.57E-01	2.70E-02	3.32E-02	9.07E-03	3.32E-02	9.07E-03	4.45E-01	1.12E-01	9.51E-01	2.29E-01	1.06E-02
2792	358500	3799700	3.77E-01	2.95E-02	3.45E-02	9.84E-03	3.45E-02	9.84E-03	4.71E-01	1.17E-01	1.00E+00	2.49E-01	1.12E-02
2793	358600	3799700	4.26E-01	3.31E-02	3.69E-02	1.09E-02	3.69E-02	1.09E-02	5.32E-01	1.22E-01	1.14E+00	2.80E-01	1.27E-02
2794	361800	3799700	3.50E-01	2.22E-02	5.20E-02	8.93E-03	5.20E-02	8.93E-03	4.36E-01	1.81E-01	9.33E-01	4.85E-01	1.04E-02
2795	361900	3799700	3.06E-01	2.21E-02	5.03E-02	8.87E-03	5.03E-02	8.87E-03	3.82E-01	1.74E-01	8.17E-01	4.57E-01	9.13E-03
2796	362000	3799700	2.68E-01	2.19E-02	4.84E-02	8.82E-03	4.84E-02	8.82E-03	3.34E-01	1.68E-01	7.13E-01	4.28E-01	7.97E-03
2797	362100	3799700	2.33E-01	2.18E-02	4.64E-02	8.77E-03	4.64E-02	8.77E-03	2.91E-01	1.60E-01	6.22E-01	3.98E-01	6.95E-03
2798	362200	3799700	2.23E-01	2.17E-02	4.45E-02	8.73E-03	4.45E-02	8.73E-03	2.77E-01	1.53E-01	5.94E-01	3.70E-01	6.64E-03
2799	362300	3799700	2.29E-01	2.16E-02	4.26E-02	8.68E-03	4.26E-02	8.68E-03	2.85E-01	1.47E-01	6.11E-01	3.43E-01	6.83E-03
2800	362400	3799700	2.34E-01	2.15E-02	4.08E-02	8.64E-03	4.08E-02	8.64E-03	2.91E-01	1.40E-01	6.24E-01	3.18E-01	6.97E-03
2801	362500	3799700	2.36E-01	2.14E-02	3.91E-02	8.60E-03	3.91E-02	8.60E-03	2.94E-01	1.34E-01	6.30E-01	2.94E-01	7.04E-03
2802	358100	3799800	2.77E-01	2.40E-02	2.91E-02	8.27E-03	2.91E-02	8.27E-03	3.45E-01	9.79E-02	7.38E-01	2.16E-01	8.25E-03
2803	358200	3799800	2.83E-01	2.51E-02	3.01E-02	8.57E-03	3.01E-02	8.57E-03	3.53E-01	1.02E-01	7.55E-01	2.11E-01	8.44E-03
2804	358300	3799800	2.97E-01	2.62E-02	3.09E-02	8.91E-03	3.09E-02	8.91E-03	3.71E-01	1.04E-01	7.93E-01	1.99E-01	8.86E-03
2805	358400	3799800	2.68E-01	2.71E-02	2.92E-02	9.13E-03	2.92E-02	9.13E-03	3.35E-01	9.84E-02	7.15E-01	1.97E-01	7.99E-03
2806	358500	3799800	2.79E-01	2.91E-02	3.01E-02	9.73E-03	3.01E-02	9.73E-03	3.48E-01	1.01E-01	7.43E-01	2.07E-01	8.31E-03
2807	358600	3799800	2.92E-01	3.18E-02	3.12E-02	1.05E-02	3.12E-02	1.05E-02	3.64E-01	1.05E-01	7.78E-01	2.16E-01	8.69E-03
2808	361800	3799800	3.03E-01	2.21E-02	5.65E-02	8.91E-03	5.65E-02	8.91E-03	3.78E-01	1.97E-01	8.07E-01	5.16E-01	9.02E-03
2809	361900	3799800	2.71E-01	2.19E-02	5.34E-02	8.82E-03	5.34E-02	8.82E-03	3.38E-01	1.86E-01	7.23E-01	4.74E-01	8.07E-03
2810	362000	3799800	2.51E-01	2.17E-02	5.05E-02	8.75E-03	5.05E-02	8.75E-03	3.12E-01	1.75E-01	6.69E-01	4.34E-01	7.47E-03
2811	362100	3799800	2.39E-01	2.15E-02	4.77E-02	8.69E-03	4.77E-02	8.69E-03	2.97E-01	1.65E-01	6.37E-01	3.97E-01	7.12E-03
2812	362200	3799800	2.41E-01	2.14E-02	4.51E-02	8.64E-03	4.51E-02	8.64E-03	3.00E-01	1.56E-01	6.42E-01	3.63E-01	7.18E-03
2813	362300	3799800	2.43E-01	2.13E-02	4.28E-02	8.59E-03	4.28E-02	8.59E-03	3.03E-01	1.47E-01	6.49E-01	3.32E-01	7.25E-03
2814	362400	3799800	2.44E-01	2.12E-02	4.07E-02	8.55E-03	4.07E-02	8.55E-03	3.03E-01	1.40E-01	6.50E-01	3.05E-01	7.26E-03
2815	358100	3799900	3.07E-01	2.57E-02	3.18E-02	8.90E-03	3.18E-02	8.90E-03	3.82E-01	9.92E-02	8.17E-01	2.65E-01	9.13E-03
2816	358200	3799900	2.00E-01	2.40E-02	2.68E-02	8.23E-03	2.68E-02	8.23E-03	2.48E-01	8.39E-02	5.34E-01	1.75E-01	5.96E-03
2817	358300	3799900	2.20E-01	2.65E-02	2.85E-02	9.02E-03	2.85E-02	9.02E-03	2.73E-01	8.92E-02	5.86E-01	1.89E-01	6.55E-03
2818	358400	3799900	2.41E-01	2.67E-02	2.75E-02	9.05E-03	2.75E-02	9.05E-03	3.00E-01	8.56E-02	6.43E-01	2.05E-01	7.19E-03
2819	358500	3799900	2.64E-01	2.87E-02	2.69E-02	9.63E-03	2.69E-02	9.63E-03	3.29E-01	8.37E-02	7.05E-01	2.21E-01	7.88E-03
2820	361700	3799900	3.24E-01	2.23E-02	6.28E-02	8.98E-03	6.28E-02	8.98E-03	4.04E-01	2.19E-01	8.64E-01	5.71E-01	9.65E-03
2821	361800	3799900	3.06E-01	2.19E-02	5.83E-02	8.85E-03	5.83E-02	8.85E-03	3.82E-01	2.03E-01	8.16E-01	5.14E-01	9.12E-03
2822	361900	3799900	2.87E-01	2.17E-02	5.42E-02	8.74E-03	5.42E-02	8.74E-03	3.59E-01	1.88E-01	7.66E-01	4.62E-01	8.56E-03
2823	362000	3799900	2.68E-01	2.15E-02	5.05E-02	8.66E-03	5.05E-02	8.66E-03	3.34E-01	1.75E-01	7.14E-01	4.16E-01	7.98E-03
2824	362100	3799900	2.49E-01	2.13E-02	4.72E-02	8.59E-03	4.72E-02	8.59E-03	3.10E-01	1.63E-01	6.63E-01	3.76E-01	7.41E-03
2825	362200	3799900	2.43E-01	2.12E-02	4.43E-02	8.54E-03	4.43E-02	8.54E-03	3.03E-01	1.53E-01	6.49E-01	3.40E-01	7.25E-03
2826	362300	3799900	2.42E-01	2.11E-02	4.17E-02	8.49E-03	4.17E-02	8.49E-03	3.01E-01	1.44E-01	6.45E-01	3.09E-01	7.20E-03
2827	358100	3800000	2.29E-01	2.59E-02	2.95E-02	9.01E-03	2.95E-02	9.01E-03	2.85E-01	9.49E-02	6.09E-01	2.55E-01	6.81E-03
2828	358200	3800000	2.02E-01	2.53E-02	2.73E-02	8.71E-03	2.73E-02	8.71E-03	2.50E-01	8.60E-02	5.38E-01	1.63E-01	6.01E-03
2829	358300	3800000	2.13E-01	2.66E-02	2.71E-02	9.08E-03	2.71E-02	9.08E-03	2.64E-01	8.53E-02	5.67E-01	1.79E-01	6.33E-03
2830	358400	3800000	2.27E-01	2.81E-02	2.71E-02	9.55E-03	2.71E-02	9.55E-03	2.82E-01	8.40E-02	6.05E-01	1.96E-01	6.76E-03
2831	358500	3800000	2.44E-01	3.00E-02	2.80E-02	1.01E-02	2.80E-02	1.01E-02	3.04E-01	8.81E-02	6.51E-01	2.16E-01	7.27E-03
2832	361700	3800000	3.50E-01	2.22E-02	6.18E-02	8.91E-03	6.18E-02	8.91E-03	4.38E-01	2.15E-01	9.34E-01	5.38E-01	1.04E-02
2833	361800	3800000	3.19E-01	2.18E-02	5.66E-02	8.76E-03	5.66E-02	8.76E-03	3.98E-01	1.97E-01	8.50E-01	4.76E-01	9.50E-03
2834	361900	3800000	2.89E-01	2.15E-02	5.20E-02	8.64E-03	5.20E-02	8.64E-03	3.61E-01	1.81E-01	7.71E-01	4.23E-01	8.62E-03
2835	362000	3800000	2.65E-01	2.13E-02	4.81E-02	8.55E-03	4.81E-02	8.55E-03	3.30E-01	1.67E-01	7.06E-01	3.88E-01	7.89E-03
2836	362100	3800000	2.46E-01	2.11E-02	4.48E-02	8.48E-03	4.48E-02	8.48E-03	3.06E-01	1.55E-01	6.56E-01	3.64E-01	7.33E-03
2837	362200	3800000	2.45E-01	2.10E-02	4.18E-02	8.44E-03	4.18E-02	8.44E-03	3.05E-01	1.44E-01	6.53E-01	3.41E-01	7.30E-03
2838	358100	3800100	2.10E-01	2.56E-02	2.82E-02	8.88E-03	2.82E-02	8.88E-03	2.62E-01	8.95E-02	5.61E-01	1.78E-01	6.27E-03
2839	358200	3800100	2.22E-01	2.67E-02	2.75E-02	9.19E-03	2.75E-02	9.19E-03	2.76E-01	8.72E-02	5.91E-01	1.64E-01	6.61E-03
2840	358300	3800100	2.34E-01	2.79E-02	2.75E-02	9.57E-03	2.75E-02	9.57E-03	2.91E-01	8.63E-02	6.23E-01	1.66E-01	6.96E-03
2841	358400	3800100	2.46E-01	2.94E-02	2.77E-02	1.00E-02	2.77E-02	1.00E-02	3.06E-01	8.70E-02	6.56E-01	1.73E-01	7.33E-03
2842	358500	3800100	2.62E-01	3.10E-02	2.90E-02	1.05E-02	2.90E-02	1.05E-02	3.26E-01	9.25E-02	6.99E-01	1.92E-01	7.81E-03
2843	361700	3800100	3.39E-01	2.20E-02	5.65E-02	8.80E-03	5.65E-02	8.80E-03	4.24E-01	1.96E-01	9.04E-01	5.26E-01	1.01E-02
2844	361800	3800100	3.05E-01	2.16E-02	5.15E-02	8.65E-03	5.15E-02	8.65E-03	3.81E-01	1.78E-01	8.15E-01	4.85E-01	9.10E-03
2845	361900	3800100	2.82E-01	2.13E-02	4.73E-02	8.54E-03	4.73E-02	8.54E-03	3.51E-01	1.64E-01	7.52E-01	4.48E-01	8.40E-03
2846	362000	3800100	2.69E-01	2.11E-02	4.37E-02	8.45E-03	4.37E-02	8.45E-03	3.35E-01	1.51E-01	7.17E-01	4.14E-01	8.01E-03
2847	362100	3800100	2.71E-01	2.09E-02	4.07E-02	8.39E-03	4.07E-02	8.39E-03	3.37E-01	1.40E-01	7.22E-01	3.84E-01	8.06E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2848	358000	3800200	2.39E-01	2.86E-02	3.52E-02	1.01E-02	3.52E-02	1.01E-02	2.97E-01	1.14E-01	6.36E-01	2.94E-01	7.11E-03
2849	358100	3800200	2.19E-01	2.69E-02	2.97E-02	9.45E-03	2.97E-02	9.45E-03	2.73E-01	9.49E-02	5.85E-01	1.86E-01	6.54E-03
2850	358200	3800200	2.32E-01	2.79E-02	2.93E-02	9.68E-03	2.93E-02	9.68E-03	2.88E-01	9.37E-02	6.18E-01	1.73E-01	6.91E-03
2851	358300	3800200	2.48E-01	2.91E-02	2.86E-02	1.00E-02	2.86E-02	1.00E-02	3.08E-01	9.15E-02	6.61E-01	1.76E-01	7.38E-03
2852	358400	3800200	2.65E-01	3.04E-02	2.81E-02	1.05E-02	2.81E-02	1.05E-02	3.30E-01	8.90E-02	7.07E-01	1.87E-01	7.90E-03
2853	361700	3800200	3.56E-01	2.17E-02	5.36E-02	8.70E-03	5.36E-02	8.70E-03	4.44E-01	1.86E-01	9.48E-01	5.47E-01	1.06E-02
2854	361800	3800200	3.24E-01	2.13E-02	4.97E-02	8.54E-03	4.97E-02	8.54E-03	4.05E-01	1.72E-01	8.64E-01	4.98E-01	9.66E-03
2855	361900	3800200	2.96E-01	2.10E-02	4.62E-02	8.42E-03	4.62E-02	8.42E-03	3.70E-01	1.60E-01	7.90E-01	4.55E-01	8.83E-03
2856	362000	3800200	2.82E-01	2.07E-02	4.32E-02	8.33E-03	4.32E-02	8.33E-03	3.52E-01	1.48E-01	7.52E-01	4.22E-01	8.40E-03
2857	362100	3800200	2.81E-01	2.06E-02	4.22E-02	8.26E-03	4.22E-02	8.26E-03	3.50E-01	1.43E-01	7.49E-01	3.92E-01	8.37E-03
2858	358000	3800300	2.49E-01	3.01E-02	3.93E-02	1.08E-02	3.93E-02	1.08E-02	3.10E-01	1.28E-01	6.64E-01	2.62E-01	7.42E-03
2859	358100	3800300	2.47E-01	2.99E-02	3.61E-02	1.06E-02	3.61E-02	1.06E-02	3.07E-01	1.16E-01	6.58E-01	2.29E-01	7.35E-03
2860	358200	3800300	2.37E-01	2.92E-02	3.08E-02	1.02E-02	3.08E-02	1.02E-02	2.95E-01	9.73E-02	6.32E-01	1.99E-01	7.06E-03
2861	358300	3800300	2.54E-01	3.03E-02	2.94E-02	1.05E-02	2.94E-02	1.05E-02	3.17E-01	9.20E-02	6.78E-01	2.09E-01	7.58E-03
2862	358400	3800300	2.74E-01	3.15E-02	2.93E-02	1.09E-02	2.93E-02	1.09E-02	3.42E-01	9.15E-02	7.31E-01	2.20E-01	8.17E-03
2863	361600	3800300	3.87E-01	2.19E-02	6.54E-02	8.77E-03	6.54E-02	8.77E-03	4.84E-01	2.28E-01	1.03E+00	6.65E-01	1.15E-02
2864	361700	3800300	3.49E-01	2.13E-02	6.03E-02	8.56E-03	6.03E-02	8.56E-03	4.36E-01	2.10E-01	9.30E-01	6.04E-01	1.04E-02
2865	361800	3800300	3.19E-01	2.09E-02	5.59E-02	8.40E-03	5.59E-02	8.40E-03	3.98E-01	1.94E-01	8.50E-01	5.51E-01	9.50E-03
2866	361900	3800300	2.94E-01	2.06E-02	5.20E-02	8.28E-03	5.20E-02	8.28E-03	3.68E-01	1.80E-01	7.85E-01	5.05E-01	8.77E-03
2867	362000	3800300	2.73E-01	2.04E-02	4.87E-02	8.19E-03	4.87E-02	8.19E-03	3.40E-01	1.69E-01	7.28E-01	4.64E-01	8.13E-03
2868	362100	3800300	2.69E-01	2.02E-02	4.58E-02	8.12E-03	4.58E-02	8.12E-03	3.35E-01	1.58E-01	7.17E-01	4.28E-01	8.01E-03
2869	358000	3800400	2.37E-01	2.93E-02	3.52E-02	1.05E-02	3.52E-02	1.05E-02	2.95E-01	1.13E-01	6.32E-01	2.17E-01	7.06E-03
2870	358100	3800400	2.36E-01	2.95E-02	3.22E-02	1.04E-02	3.22E-02	1.04E-02	2.93E-01	1.03E-01	6.29E-01	2.17E-01	7.03E-03
2871	358200	3800400	2.39E-01	3.04E-02	3.21E-02	1.07E-02	3.21E-02	1.07E-02	2.97E-01	1.02E-01	6.36E-01	2.28E-01	7.11E-03
2872	358300	3800400	2.48E-01	3.14E-02	3.21E-02	1.11E-02	3.21E-02	1.11E-02	3.09E-01	1.02E-01	6.62E-01	2.40E-01	7.40E-03
2873	358400	3800400	2.68E-01	3.25E-02	3.21E-02	1.14E-02	3.21E-02	1.14E-02	3.34E-01	1.01E-01	7.14E-01	2.55E-01	7.97E-03
2874	361500	3800400	4.55E-01	2.21E-02	7.75E-02	8.83E-03	7.75E-02	8.83E-03	5.70E-01	2.70E-01	1.21E+00	7.80E-01	1.36E-02
2875	361600	3800400	4.10E-01	2.14E-02	7.08E-02	8.57E-03	7.08E-02	8.57E-03	5.13E-01	2.47E-01	1.09E+00	7.02E-01	1.22E-02
2876	361700	3800400	3.72E-01	2.09E-02	6.51E-02	8.37E-03	6.51E-02	8.37E-03	4.64E-01	2.26E-01	9.91E-01	6.35E-01	1.11E-02
2877	361800	3800400	3.38E-01	2.05E-02	6.02E-02	8.22E-03	6.02E-02	8.22E-03	4.22E-01	2.09E-01	9.01E-01	5.78E-01	1.01E-02
2878	361900	3800400	3.09E-01	2.02E-02	5.60E-02	8.11E-03	5.60E-02	8.11E-03	3.86E-01	1.94E-01	8.24E-01	5.28E-01	9.21E-03
2879	362000	3800400	2.84E-01	2.00E-02	5.23E-02	8.02E-03	5.23E-02	8.02E-03	3.54E-01	1.81E-01	7.56E-01	4.84E-01	8.45E-03
2880	358000	3800500	2.43E-01	3.05E-02	3.66E-02	1.11E-02	3.66E-02	1.11E-02	3.04E-01	1.19E-01	6.49E-01	2.50E-01	7.25E-03
2881	358100	3800500	2.66E-01	3.08E-02	3.46E-02	1.10E-02	3.46E-02	1.10E-02	3.32E-01	1.11E-01	7.09E-01	2.38E-01	7.92E-03
2882	358200	3800500	2.92E-01	3.17E-02	3.46E-02	1.13E-02	3.46E-02	1.13E-02	3.64E-01	1.11E-01	7.77E-01	2.51E-01	8.69E-03
2883	358300	3800500	3.21E-01	3.27E-02	3.47E-02	1.16E-02	3.47E-02	1.16E-02	4.01E-01	1.13E-01	8.56E-01	2.65E-01	9.56E-03
2884	358400	3800500	3.55E-01	3.37E-02	3.49E-02	1.20E-02	3.49E-02	1.20E-02	4.44E-01	1.18E-01	9.46E-01	2.81E-01	1.06E-02
2885	361500	3800500	4.40E-01	2.14E-02	7.50E-02	8.54E-03	7.50E-02	8.54E-03	5.51E-01	2.61E-01	1.17E+00	7.48E-01	1.31E-02
2886	361600	3800500	3.94E-01	2.08E-02	6.94E-02	8.31E-03	6.94E-02	8.31E-03	4.93E-01	2.41E-01	1.05E+00	6.79E-01	1.17E-02
2887	361700	3800500	3.54E-01	2.03E-02	6.44E-02	8.13E-03	6.44E-02	8.13E-03	4.42E-01	2.24E-01	9.43E-01	6.19E-01	1.05E-02
2888	361800	3800500	3.19E-01	1.99E-02	6.01E-02	8.00E-03	6.01E-02	8.00E-03	3.99E-01	2.08E-01	8.51E-01	5.66E-01	9.51E-03
2889	361900	3800500	2.91E-01	1.97E-02	5.63E-02	7.90E-03	5.63E-02	7.90E-03	3.63E-01	1.95E-01	7.75E-01	5.20E-01	8.66E-03
2890	362000	3800500	2.66E-01	1.95E-02	5.29E-02	7.82E-03	5.29E-02	7.82E-03	3.32E-01	1.83E-01	7.10E-01	4.79E-01	7.93E-03
2891	358000	3800600	2.94E-01	3.14E-02	3.79E-02	1.15E-02	3.79E-02	1.15E-02	3.67E-01	1.23E-01	7.84E-01	2.49E-01	8.76E-03
2892	358100	3800600	3.24E-01	3.22E-02	3.80E-02	1.17E-02	3.80E-02	1.17E-02	4.04E-01	1.28E-01	8.63E-01	2.56E-01	9.64E-03
2893	358200	3800600	3.54E-01	3.31E-02	3.96E-02	1.20E-02	3.96E-02	1.20E-02	4.42E-01	1.34E-01	9.45E-01	2.79E-01	1.06E-02
2894	358300	3800600	3.91E-01	3.40E-02	4.13E-02	1.23E-02	4.13E-02	1.23E-02	4.89E-01	1.40E-01	1.04E+00	3.06E-01	1.17E-02
2895	358400	3800600	4.34E-01	3.50E-02	4.34E-02	1.26E-02	4.34E-02	1.26E-02	5.42E-01	1.48E-01	1.16E+00	3.36E-01	1.29E-02
2896	361400	3800600	4.81E-01	2.12E-02	7.10E-02	8.43E-03	7.10E-02	8.43E-03	6.03E-01	2.50E-01	1.28E+00	7.01E-01	1.43E-02
2897	361500	3800600	4.26E-01	2.05E-02	6.49E-02	8.18E-03	6.49E-02	8.18E-03	5.33E-01	2.24E-01	1.14E+00	6.48E-01	1.27E-02
2898	361600	3800600	3.93E-01	2.00E-02	6.16E-02	7.99E-03	6.16E-02	7.99E-03	4.92E-01	2.13E-01	1.05E+00	6.01E-01	1.17E-02
2899	361700	3800600	3.62E-01	1.96E-02	5.84E-02	7.85E-03	5.84E-02	7.85E-03	4.53E-01	2.02E-01	9.65E-01	5.58E-01	1.08E-02
2900	361800	3800600	3.33E-01	1.93E-02	5.54E-02	7.74E-03	5.54E-02	7.74E-03	4.16E-01	1.91E-01	8.88E-01	5.18E-01	9.92E-03
2901	361900	3800600	3.06E-01	1.91E-02	5.27E-02	7.66E-03	5.27E-02	7.66E-03	3.82E-01	1.82E-01	8.16E-01	4.81E-01	9.12E-03
2902	358000	3800700	3.53E-01	3.29E-02	4.26E-02	1.20E-02	4.26E-02	1.20E-02	4.41E-01	1.43E-01	9.42E-01	2.72E-01	1.05E-02
2903	358100	3800700	3.67E-01	3.37E-02	4.41E-02	1.23E-02	4.41E-02	1.23E-02	4.58E-01	1.49E-01	9.79E-01	2.96E-01	1.09E-02
2904	358200	3800700	4.03E-01	3.46E-02	4.59E-02	1.26E-02	4.59E-02	1.26E-02	5.03E-01	1.56E-01	1.07E+00	3.22E-01	1.20E-02
2905	358300	3800700	4.43E-01	3.55E-02	4.79E-02	1.30E-02	4.79E-02	1.30E-02	5.53E-01	1.63E-01	1.18E+00	3.52E-01	1.32E-02
2906	358400	3800700	4.88E-01	3.64E-02	5.03E-02	1.33E-02	5.03E-02	1.33E-02	6.10E-01	1.72E-01	1.30E+00	3.85E-01	1.46E-02
2907	361300	3800700	5.31E-01	2.09E-02	7.48E-02	8.28E-03	7.48E-02	8.28E-03	6.65E-01	2.61E-01	1.41E+00	7.36E-01	1.58E-02
2908	361400	3800700	4.95E-01	2.02E-02	6.95E-02	8.00E-03	6.95E-02	8.00E-03	6.19E-01	2.43E-01	1.32E+00	6.74E-01	1.47E-02
2909	361500	3800700	4.51E-01	1.96E-02	6.42E-02	7.80E-03	6.42E-02	7.80E-03	5.65E-01	2.25E-01	1.20E+00	6.17E-01	1.35E-02
2910	361600	3800700	4.07E-01	1.92E-02	5.92E-02	7.65E-03	5.92E-02	7.65E-03	5.09E-01	2.07E-01	1.08E+00	5.65E-01	1.21E-02
2911	361700	3800700	3.64E-01	1.89E-02	5.45E-02	7.53E-03	5.45E-02	7.53E-03	4.55E-01	1.91E-01	9.69E-01	5.18E-01	1.08E-02
2912	361800	3800700	3.27E-01	1.86E-02	5.02E-02	7.45E-03	5.02E-02	7.45E-03	4.09E-01	1.76E-01	8.72E-01	4.76E-01	9.75E-03
2913	358000	3800800	3.99E-01	3.43E-02	4.70E-02	1.27E-02	4.70E-02	1.27E-02	4.99E-01	1.59E-01	1.07E+00	3.00E-01	1.19E-02
2914	358100	3800800	3.95E-01	3.51E-02	4.85E-02	1.30E-02	4.85E-02	1.30E-02	4.93E-01	1.65E-01	1.05E+00	3.24E-01	1.18E-02
2915	358200	3800800	4.30E-01	3.60E-02	5.02E-02	1.33E-02	5.02E-02	1.33E-02	5.37E-01	1.71E-01	1.15E+00	3.51E-01	1.28E-02
2916	358300	3800800	4.69E-01	3.70E-02	5.22E-02	1.37E-02	5.22E-02	1.37E-02	5.85E-01	1.78E-01	1.25E+00	3.81E-01	1.40E-02
2917	358400	3800800	5.11E-01	3.80E-02	5.43E-02	1.41E-02	5.43E-02	1.41E-02	6.38E-01	1.86E-01	1.36E+00	4.14E-01	1.52E-02
2918	361200	3800800	5.23E-01	2.08E-02	7.36E-02	8.18E-03	7.36E-02	8.18E-03	6.55E-01	2.55E-01	1.40E+00	7.86E-01	1.56E-02
2919	361300	3800800	5.04E-01	1.98E-02	6.53E-02	7.83E-03	6.53E-02	7.83E-03	6.31E-01	2.26E-01	1.34E+00	6.62E-01	1.50E-02
2920	361400	3800800	4.69E-01	1.92E-02	6.06E-02	7.60E-03	6.06E-02	7.60E-03	5.87E-01	2.09E-01	1.25E+00	6.08E-01	1.40E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2921	361500	3800800	4.24E-01	1.87E-02	5.71E-02	7.43E-03	5.71E-02	7.43E-03	5.31E-01	1.98E-01	1.13E+00	5.71E-01	1.26E-02
2922	361600	3800800	4.07E-01	1.84E-02	5.47E-02	7.30E-03	5.47E-02	7.30E-03	5.08E-01	1.91E-01	1.08E+00	5.34E-01	1.21E-02
2923	361700	3800800	3.89E-01	1.81E-02	5.22E-02	7.21E-03	5.22E-02	7.21E-03	4.85E-01	1.82E-01	1.04E+00	4.98E-01	1.16E-02
2924	361800	3800800	3.67E-01	1.79E-02	4.95E-02	7.15E-03	4.95E-02	7.15E-03	4.58E-01	1.73E-01	9.78E-01	4.65E-01	1.09E-02
2925	358000	3800900	4.16E-01	3.57E-02	4.94E-02	1.33E-02	4.94E-02	1.33E-02	5.20E-01	1.67E-01	1.11E+00	3.17E-01	1.24E-02
2926	358100	3800900	4.03E-01	3.66E-02	5.07E-02	1.37E-02	5.07E-02	1.37E-02	5.03E-01	1.72E-01	1.08E+00	3.40E-01	1.20E-02
2927	358200	3800900	4.34E-01	3.75E-02	5.20E-02	1.40E-02	5.20E-02	1.40E-02	5.41E-01	1.77E-01	1.16E+00	3.65E-01	1.29E-02
2928	358300	3800900	4.66E-01	3.85E-02	5.35E-02	1.44E-02	5.35E-02	1.44E-02	5.82E-01	1.83E-01	1.24E+00	3.93E-01	1.39E-02
2929	358400	3800900	4.99E-01	3.96E-02	5.51E-02	1.49E-02	5.51E-02	1.49E-02	6.23E-01	1.88E-01	1.33E+00	4.22E-01	1.49E-02
2930	361100	3800900	5.98E-01	2.09E-02	8.15E-02	8.20E-03	8.15E-02	8.20E-03	7.49E-01	2.83E-01	1.59E+00	9.73E-01	1.78E-02
2931	361200	3800900	5.26E-01	1.98E-02	7.28E-02	7.75E-03	7.28E-02	7.75E-03	6.58E-01	2.51E-01	1.40E+00	8.38E-01	1.57E-02
2932	361300	3800900	4.68E-01	1.90E-02	6.71E-02	7.46E-03	6.71E-02	7.46E-03	5.86E-01	2.31E-01	1.25E+00	7.22E-01	1.40E-02
2933	361400	3800900	4.12E-01	1.84E-02	6.16E-02	7.25E-03	6.16E-02	7.25E-03	5.15E-01	2.12E-01	1.10E+00	6.33E-01	1.23E-02
2934	361500	3800900	4.08E-01	1.80E-02	5.65E-02	7.10E-03	5.65E-02	7.10E-03	5.10E-01	1.94E-01	1.09E+00	5.49E-01	1.22E-02
2935	361600	3800900	4.11E-01	1.76E-02	5.22E-02	6.99E-03	5.22E-02	6.99E-03	5.13E-01	1.79E-01	1.10E+00	4.80E-01	1.22E-02
2936	361700	3800900	4.04E-01	1.74E-02	4.86E-02	6.91E-03	4.86E-02	6.91E-03	5.04E-01	1.66E-01	1.08E+00	4.57E-01	1.20E-02
2937	358000	3801000	3.75E-01	3.71E-02	4.97E-02	1.40E-02	4.97E-02	1.40E-02	4.67E-01	1.68E-01	9.99E-01	3.22E-01	1.12E-02
2938	358100	3801000	3.96E-01	3.80E-02	5.05E-02	1.43E-02	5.05E-02	1.43E-02	4.93E-01	1.72E-01	1.06E+00	3.43E-01	1.18E-02
2939	358200	3801000	4.16E-01	3.90E-02	5.14E-02	1.47E-02	5.14E-02	1.47E-02	5.19E-01	1.75E-01	1.11E+00	3.65E-01	1.24E-02
2940	358300	3801000	4.36E-01	4.01E-02	5.22E-02	1.52E-02	5.22E-02	1.52E-02	5.45E-01	1.78E-01	1.16E+00	3.87E-01	1.30E-02
2941	358400	3801000	4.57E-01	4.13E-02	5.30E-02	1.57E-02	5.30E-02	1.57E-02	5.71E-01	1.81E-01	1.22E+00	4.10E-01	1.36E-02
2942	358500	3801000	4.76E-01	4.27E-02	5.37E-02	1.63E-02	5.37E-02	1.63E-02	5.94E-01	1.86E-01	1.27E+00	4.33E-01	1.42E-02
2943	361000	3801000	5.94E-01	2.15E-02	7.32E-02	8.44E-03	7.32E-02	8.44E-03	7.45E-01	2.51E-01	1.58E+00	8.90E-01	1.77E-02
2944	361100	3801000	5.20E-01	2.01E-02	7.36E-02	7.87E-03	7.36E-02	7.87E-03	6.51E-01	2.54E-01	1.39E+00	8.85E-01	1.55E-02
2945	361200	3801000	5.10E-01	1.91E-02	7.00E-02	7.46E-03	7.00E-02	7.46E-03	6.38E-01	2.42E-01	1.36E+00	8.30E-01	1.52E-02
2946	361300	3801000	4.62E-01	1.83E-02	6.40E-02	7.18E-03	6.40E-02	7.18E-03	5.78E-01	2.21E-01	1.23E+00	7.45E-01	1.38E-02
2947	361400	3801000	4.07E-01	1.77E-02	6.07E-02	6.98E-03	6.07E-02	6.98E-03	5.09E-01	2.09E-01	1.08E+00	6.50E-01	1.21E-02
2948	361500	3801000	3.71E-01	1.73E-02	5.71E-02	6.83E-03	5.71E-02	6.83E-03	4.64E-01	1.96E-01	9.90E-01	5.87E-01	1.11E-02
2949	361600	3801000	3.77E-01	1.70E-02	5.36E-02	6.72E-03	5.36E-02	6.72E-03	4.70E-01	1.84E-01	1.00E+00	5.23E-01	1.12E-02
2950	358100	3801100	3.99E-01	3.93E-02	4.85E-02	1.50E-02	4.85E-02	1.50E-02	4.97E-01	1.65E-01	1.06E+00	3.34E-01	1.19E-02
2951	358200	3801100	4.12E-01	4.04E-02	4.97E-02	1.54E-02	4.97E-02	1.54E-02	5.13E-01	1.68E-01	1.10E+00	3.51E-01	1.23E-02
2952	358300	3801100	4.21E-01	4.16E-02	5.11E-02	1.59E-02	5.11E-02	1.59E-02	5.25E-01	1.73E-01	1.12E+00	3.68E-01	1.25E-02
2953	358400	3801100	4.42E-01	4.29E-02	5.23E-02	1.65E-02	5.23E-02	1.65E-02	5.52E-01	1.78E-01	1.18E+00	3.83E-01	1.32E-02
2954	358500	3801100	4.96E-01	4.46E-02	5.34E-02	1.72E-02	5.34E-02	1.72E-02	6.19E-01	1.84E-01	1.32E+00	3.97E-01	1.48E-02
2955	358600	3801100	5.52E-01	4.65E-02	5.48E-02	1.80E-02	5.48E-02	1.80E-02	6.90E-01	1.89E-01	1.47E+00	4.38E-01	1.65E-02
2956	360800	3801100	8.00E-01	2.49E-02	6.97E-02	9.80E-03	6.97E-02	9.80E-03	1.00E+00	2.41E-01	2.13E+00	6.21E-01	2.38E-02
2957	360900	3801100	6.98E-01	2.27E-02	6.00E-02	8.89E-03	6.00E-02	8.89E-03	8.76E-01	2.08E-01	1.86E+00	6.63E-01	2.08E-02
2958	361000	3801100	5.97E-01	2.09E-02	5.76E-02	8.18E-03	5.76E-02	8.18E-03	7.48E-01	1.98E-01	1.59E+00	6.92E-01	1.78E-02
2959	361100	3801100	5.16E-01	1.95E-02	6.09E-02	7.64E-03	6.09E-02	7.64E-03	6.46E-01	2.08E-01	1.37E+00	7.28E-01	1.54E-02
2960	361200	3801100	4.27E-01	1.86E-02	6.23E-02	7.26E-03	6.23E-02	7.26E-03	5.33E-01	2.14E-01	1.14E+00	7.37E-01	1.27E-02
2961	361300	3801100	4.31E-01	1.78E-02	6.07E-02	6.97E-03	6.07E-02	6.97E-03	5.39E-01	2.09E-01	1.15E+00	7.10E-01	1.29E-02
2962	361400	3801100	4.08E-01	1.72E-02	5.68E-02	6.76E-03	5.68E-02	6.76E-03	5.10E-01	1.96E-01	1.09E+00	6.57E-01	1.22E-02
2963	361500	3801100	3.66E-01	1.68E-02	5.48E-02	6.61E-03	5.48E-02	6.61E-03	4.58E-01	1.88E-01	9.77E-01	5.90E-01	1.09E-02
2964	358100	3801200	3.81E-01	4.06E-02	4.93E-02	1.56E-02	4.93E-02	1.56E-02	4.74E-01	1.65E-01	1.02E+00	3.16E-01	1.14E-02
2965	358200	3801200	3.85E-01	4.17E-02	5.02E-02	1.60E-02	5.02E-02	1.60E-02	4.80E-01	1.68E-01	1.03E+00	3.28E-01	1.15E-02
2966	358300	3801200	4.26E-01	4.30E-02	5.09E-02	1.66E-02	5.09E-02	1.66E-02	5.32E-01	1.71E-01	1.14E+00	3.50E-01	1.27E-02
2967	358400	3801200	4.70E-01	4.45E-02	5.15E-02	1.73E-02	5.15E-02	1.73E-02	5.87E-01	1.75E-01	1.25E+00	3.83E-01	1.40E-02
2968	358500	3801200	5.14E-01	4.63E-02	5.56E-02	1.80E-02	5.56E-02	1.80E-02	6.42E-01	1.90E-01	1.37E+00	4.19E-01	1.53E-02
2969	358600	3801200	5.56E-01	4.85E-02	6.04E-02	1.90E-02	6.04E-02	1.90E-02	6.95E-01	2.07E-01	1.48E+00	4.86E-01	1.66E-02
2970	358700	3801200	5.94E-01	5.11E-02	6.56E-02	2.02E-02	6.56E-02	2.02E-02	7.42E-01	2.26E-01	1.58E+00	6.10E-01	1.77E-02
2971	358800	3801200	6.21E-01	5.43E-02	7.10E-02	2.16E-02	7.10E-02	2.16E-02	7.76E-01	2.45E-01	1.66E+00	7.46E-01	1.85E-02
2972	358900	3801200	6.32E-01	5.83E-02	7.66E-02	2.34E-02	7.66E-02	2.34E-02	7.90E-01	2.66E-01	1.68E+00	8.82E-01	1.88E-02
2973	359000	3801200	6.19E-01	6.33E-02	8.62E-02	2.56E-02	8.62E-02	2.56E-02	7.75E-01	3.00E-01	1.65E+00	9.98E-01	1.84E-02
2974	359100	3801200	5.76E-01	6.93E-02	9.19E-02	2.83E-02	9.19E-02	2.83E-02	7.21E-01	3.21E-01	1.54E+00	1.06E+00	1.72E-02
2975	359200	3801200	5.63E-01	7.65E-02	9.71E-02	3.16E-02	9.71E-02	3.16E-02	7.06E-01	3.37E-01	1.50E+00	1.05E+00	1.68E-02
2976	359300	3801200	6.06E-01	8.47E-02	1.10E-01	3.52E-02	1.10E-01	3.52E-02	7.60E-01	3.81E-01	1.62E+00	1.05E+00	1.81E-02
2977	359400	3801200	6.75E-01	9.35E-02	1.21E-01	3.92E-02	1.21E-01	3.92E-02	8.48E-01	4.21E-01	1.80E+00	1.18E+00	2.01E-02
2978	359500	3801200	7.48E-01	1.02E-01	1.36E-01	4.30E-02	1.36E-01	4.30E-02	9.39E-01	4.76E-01	1.99E+00	1.28E+00	2.23E-02
2979	359600	3801200	8.28E-01	1.09E-01	1.43E-01	4.61E-02	1.43E-01	4.61E-02	1.04E+00	4.98E-01	2.21E+00	1.32E+00	2.47E-02
2980	359700	3801200	8.25E-01	1.12E-01	1.44E-01	4.77E-02	1.44E-01	4.77E-02	1.03E+00	5.00E-01	2.20E+00	1.35E+00	2.46E-02
2981	359800	3801200	8.97E-01	1.10E-01	1.56E-01	4.69E-02	1.56E-01	4.69E-02	1.13E+00	5.40E-01	2.39E+00	1.46E+00	2.67E-02
2982	359900	3801200	9.12E-01	1.02E-01	1.55E-01	4.32E-02	1.55E-01	4.32E-02	1.14E+00	5.39E-01	2.43E+00	1.40E+00	2.72E-02
2983	360000	3801200	1.04E+00	9.59E-02	1.75E-01	4.06E-02	1.75E-01	4.06E-02	1.30E+00	6.11E-01	2.77E+00	1.65E+00	3.10E-02
2984	360100	3801200	1.05E+00	8.28E-02	1.82E-01	3.49E-02	1.82E-01	3.49E-02	1.32E+00	6.32E-01	2.81E+00	1.78E+00	3.14E-02
2985	360200	3801200	9.27E-01	6.42E-02	1.72E-01	2.67E-02	1.72E-01	2.67E-02	1.16E+00	6.00E-01	2.47E+00	1.56E+00	2.76E-02
2986	360300	3801200	7.62E-01	5.03E-02	1.48E-01	2.07E-02	1.48E-01	2.07E-02	9.57E-01	5.19E-01	2.03E+00	1.28E+00	2.27E-02
2987	360400	3801200	7.32E-01	4.11E-02	1.02E-01	1.68E-02	1.02E-01	1.68E-02	9.18E-01	3.59E-01	1.95E+00	9.21E-01	2.18E-02
2988	360500	3801200	7.18E-01	3.44E-02	1.01E-01	1.38E-02	1.01E-01	1.38E-02	9.00E-01	3.47E-01	1.91E+00	1.01E+00	2.14E-02
2989	360600	3801200	6.90E-01	2.97E-02	8.58E-02	1.19E-02	8.58E-02	1.19E-02	8.65E-01	2.96E-01	1.84E+00	8.70E-01	2.06E-02
2990	360700	3801200	6.72E-01	2.65E-02	6.40E-02	1.05E-02	6.40E-02	1.05E-02	8.42E-01	2.19E-01	1.79E+00	6.71E-01	2.00E-02
2991	360800	3801200	7.87E-01	2.40E-02	6.34E-02	9.43E-03	6.34E-02	9.43E-03	9.87E-01	2.18E-01	2.10E+00	5.67E-01	2.35E-02
2992	360900	3801200	7.70E-01	2.20E-02	5.81E-02	8.62E-03	5.81E-02	8.62E-03	9.65E-01	2.00E-01	2.05E+00	5.09E-01	2.30E-02
2993	361000	3801200	6.62E-01	2.04E-02	5.03E-02	7.98E-03	5.03E-02	7.98E-03	8.30E-01	1.74E-01	1.77E+00	5.62E-01	1.97E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
2994	361100	3801200	5.19E-01	1.92E-02	4.89E-02	7.49E-03	4.89E-02	7.49E-03	6.50E-01	1.68E-01	1.38E+00	5.83E-01	1.55E-02
2995	361200	3801200	4.47E-01	1.82E-02	5.22E-02	7.11E-03	5.22E-02	7.11E-03	5.60E-01	1.78E-01	1.19E+00	6.08E-01	1.33E-02
2996	361300	3801200	3.63E-01	1.74E-02	5.37E-02	6.82E-03	5.37E-02	6.82E-03	4.55E-01	1.84E-01	9.68E-01	6.22E-01	1.08E-02
2997	361400	3801200	3.64E-01	1.68E-02	5.30E-02	6.60E-03	5.30E-02	6.60E-03	4.55E-01	1.82E-01	9.71E-01	6.10E-01	1.09E-02
2998	358200	3801300	4.04E-01	4.30E-02	5.11E-02	1.67E-02	5.11E-02	1.67E-02	5.04E-01	1.70E-01	1.08E+00	3.41E-01	1.20E-02
2999	358300	3801300	4.38E-01	4.44E-02	5.25E-02	1.73E-02	5.25E-02	1.73E-02	5.47E-01	1.78E-01	1.17E+00	3.69E-01	1.31E-02
3000	358400	3801300	4.72E-01	4.60E-02	5.61E-02	1.80E-02	5.61E-02	1.80E-02	5.89E-01	1.91E-01	1.26E+00	3.99E-01	1.41E-02
3001	358500	3801300	5.02E-01	4.79E-02	5.99E-02	1.88E-02	5.99E-02	1.88E-02	6.27E-01	2.05E-01	1.34E+00	4.88E-01	1.50E-02
3002	358600	3801300	5.27E-01	5.02E-02	6.40E-02	1.98E-02	6.40E-02	1.98E-02	6.58E-01	2.20E-01	1.40E+00	5.90E-01	1.57E-02
3003	358700	3801300	5.42E-01	5.29E-02	6.79E-02	2.11E-02	6.79E-02	2.11E-02	6.77E-01	2.34E-01	1.44E+00	6.96E-01	1.61E-02
3004	358800	3801300	5.43E-01	5.62E-02	7.14E-02	2.25E-02	7.14E-02	2.25E-02	6.78E-01	2.47E-01	1.45E+00	7.95E-01	1.62E-02
3005	358900	3801300	5.25E-01	6.03E-02	7.72E-02	2.44E-02	7.72E-02	2.44E-02	6.56E-01	2.69E-01	1.40E+00	8.70E-01	1.56E-02
3006	359000	3801300	4.85E-01	6.51E-02	8.04E-02	2.65E-02	8.04E-02	2.65E-02	6.07E-01	2.80E-01	1.29E+00	9.03E-01	1.44E-02
3007	359100	3801300	4.76E-01	7.07E-02	8.94E-02	2.90E-02	8.94E-02	2.90E-02	5.95E-01	3.09E-01	1.27E+00	8.77E-01	1.42E-02
3008	359200	3801300	5.13E-01	7.70E-02	9.78E-02	3.18E-02	9.78E-02	3.18E-02	6.43E-01	3.39E-01	1.37E+00	8.86E-01	1.53E-02
3009	359300	3801300	5.60E-01	8.37E-02	1.06E-01	3.48E-02	1.06E-01	3.48E-02	7.02E-01	3.67E-01	1.49E+00	9.78E-01	1.67E-02
3010	359400	3801300	6.26E-01	9.02E-02	1.17E-01	3.78E-02	1.17E-01	3.78E-02	7.86E-01	4.06E-01	1.67E+00	1.08E+00	1.87E-02
3011	359500	3801300	6.79E-01	9.58E-02	1.25E-01	4.03E-02	1.25E-01	4.03E-02	8.53E-01	4.32E-01	1.81E+00	1.14E+00	2.02E-02
3012	359600	3801300	7.16E-01	9.93E-02	1.26E-01	4.19E-02	1.26E-01	4.19E-02	8.99E-01	4.38E-01	1.91E+00	1.13E+00	2.13E-02
3013	359700	3801300	7.76E-01	9.95E-02	1.32E-01	4.21E-02	1.32E-01	4.21E-02	9.72E-01	4.58E-01	2.07E+00	1.26E+00	2.31E-02
3014	359800	3801300	8.38E-01	9.54E-02	1.40E-01	4.03E-02	1.40E-01	4.03E-02	1.05E+00	4.84E-01	2.23E+00	1.26E+00	2.50E-02
3015	359900	3801300	8.71E-01	8.86E-02	1.37E-01	3.73E-02	1.37E-01	3.73E-02	1.09E+00	4.74E-01	2.32E+00	1.24E+00	2.60E-02
3016	360000	3801300	9.07E-01	8.42E-02	1.65E-01	3.54E-02	1.65E-01	3.54E-02	1.14E+00	5.76E-01	2.42E+00	1.48E+00	2.70E-02
3017	360100	3801300	9.32E-01	7.53E-02	1.73E-01	3.16E-02	1.73E-01	3.16E-02	1.17E+00	6.01E-01	2.48E+00	1.58E+00	2.78E-02
3018	360200	3801300	8.92E-01	5.95E-02	1.65E-01	2.47E-02	1.65E-01	2.47E-02	1.12E+00	5.77E-01	2.38E+00	1.41E+00	2.66E-02
3019	360300	3801300	8.96E-01	4.71E-02	1.42E-01	1.94E-02	1.42E-01	1.94E-02	1.12E+00	4.98E-01	2.39E+00	1.17E+00	2.67E-02
3020	360400	3801300	6.56E-01	3.82E-02	9.79E-02	1.55E-02	9.79E-02	1.55E-02	8.22E-01	3.42E-01	1.75E+00	8.15E-01	1.95E-02
3021	360500	3801300	6.19E-01	3.25E-02	9.27E-02	1.30E-02	9.27E-02	1.30E-02	7.76E-01	3.17E-01	1.65E+00	8.70E-01	1.85E-02
3022	360600	3801300	6.11E-01	2.84E-02	8.44E-02	1.13E-02	8.44E-02	1.13E-02	7.66E-01	2.90E-01	1.63E+00	8.30E-01	1.82E-02
3023	360700	3801300	5.54E-01	2.54E-02	6.51E-02	1.00E-02	6.51E-02	1.00E-02	6.95E-01	2.24E-01	1.48E+00	6.40E-01	1.65E-02
3024	360800	3801300	7.10E-01	2.31E-02	5.60E-02	9.10E-03	5.60E-02	9.10E-03	8.90E-01	1.92E-01	1.89E+00	5.48E-01	2.12E-02
3025	360900	3801300	7.63E-01	2.14E-02	5.41E-02	8.39E-03	5.41E-02	8.39E-03	9.56E-01	1.86E-01	2.03E+00	4.71E-01	2.27E-02
3026	361000	3801300	7.19E-01	2.00E-02	4.93E-02	7.82E-03	4.93E-02	7.82E-03	9.00E-01	1.70E-01	1.92E+00	4.38E-01	2.14E-02
3027	361100	3801300	6.15E-01	1.88E-02	4.31E-02	7.37E-03	4.31E-02	7.37E-03	7.70E-01	1.48E-01	1.64E+00	4.82E-01	1.83E-02
3028	361200	3801300	4.90E-01	1.79E-02	4.24E-02	7.00E-03	4.24E-02	7.00E-03	6.13E-01	1.44E-01	1.31E+00	4.98E-01	1.46E-02
3029	361300	3801300	3.90E-01	1.71E-02	4.55E-02	6.70E-03	4.55E-02	6.70E-03	4.88E-01	1.55E-01	1.04E+00	5.16E-01	1.16E-02
3030	358300	3801400	4.30E-01	4.56E-02	5.62E-02	1.78E-02	5.62E-02	1.78E-02	5.36E-01	1.92E-01	1.15E+00	3.99E-01	1.28E-02
3031	358400	3801400	4.51E-01	4.73E-02	5.93E-02	1.86E-02	5.93E-02	1.86E-02	5.63E-01	2.03E-01	1.20E+00	4.78E-01	1.34E-02
3032	358500	3801400	4.66E-01	4.92E-02	6.22E-02	1.95E-02	6.22E-02	1.95E-02	5.82E-01	2.14E-01	1.24E+00	5.60E-01	1.39E-02
3033	358600	3801400	4.73E-01	5.16E-02	6.49E-02	2.05E-02	6.49E-02	2.05E-02	5.90E-01	2.23E-01	1.26E+00	6.41E-01	1.41E-02
3034	358700	3801400	4.68E-01	5.43E-02	6.70E-02	2.17E-02	6.70E-02	2.17E-02	5.84E-01	2.31E-01	1.25E+00	7.11E-01	1.39E-02
3035	358800	3801400	4.48E-01	5.76E-02	7.01E-02	2.32E-02	7.01E-02	2.32E-02	5.60E-01	2.42E-01	1.19E+00	7.59E-01	1.34E-02
3036	358900	3801400	4.12E-01	6.14E-02	7.64E-02	2.50E-02	7.64E-02	2.50E-02	5.15E-01	2.63E-01	1.10E+00	7.71E-01	1.23E-02
3037	359000	3801400	4.12E-01	6.59E-02	8.31E-02	2.69E-02	8.31E-02	2.69E-02	5.15E-01	2.87E-01	1.10E+00	7.40E-01	1.23E-02
3038	359100	3801400	4.43E-01	7.08E-02	8.91E-02	2.92E-02	8.91E-02	2.92E-02	5.53E-01	3.08E-01	1.18E+00	7.55E-01	1.32E-02
3039	359200	3801400	4.72E-01	7.60E-02	9.34E-02	3.15E-02	9.34E-02	3.15E-02	5.91E-01	3.24E-01	1.26E+00	8.25E-01	1.41E-02
3040	359300	3801400	5.29E-01	8.11E-02	1.01E-01	3.38E-02	1.01E-01	3.38E-02	6.64E-01	3.52E-01	1.41E+00	9.20E-01	1.58E-02
3041	359400	3801400	5.64E-01	8.56E-02	1.10E-01	3.58E-02	1.10E-01	3.58E-02	7.08E-01	3.79E-01	1.50E+00	9.81E-01	1.68E-02
3042	359500	3801400	6.14E-01	8.88E-02	1.14E-01	3.73E-02	1.14E-01	3.73E-02	7.70E-01	3.94E-01	1.64E+00	9.68E-01	1.83E-02
3043	359600	3801400	6.28E-01	8.99E-02	1.16E-01	3.78E-02	1.16E-01	3.78E-02	7.86E-01	4.01E-01	1.67E+00	1.07E+00	1.87E-02
3044	359700	3801400	7.26E-01	8.81E-02	1.21E-01	3.71E-02	1.21E-01	3.71E-02	9.09E-01	4.18E-01	1.94E+00	1.14E+00	2.16E-02
3045	359800	3801400	7.66E-01	8.31E-02	1.25E-01	3.50E-02	1.25E-01	3.50E-02	9.60E-01	4.32E-01	2.04E+00	1.10E+00	2.28E-02
3046	359900	3801400	8.04E-01	7.97E-02	1.38E-01	3.35E-02	1.38E-01	3.35E-02	1.01E+00	4.78E-01	2.14E+00	1.19E+00	2.40E-02
3047	360000	3801400	7.73E-01	7.45E-02	1.53E-01	3.12E-02	1.53E-01	3.12E-02	9.70E-01	5.32E-01	2.06E+00	1.30E+00	2.30E-02
3048	360100	3801400	8.19E-01	6.55E-02	1.53E-01	2.73E-02	1.53E-01	2.73E-02	1.03E+00	5.30E-01	2.18E+00	1.37E+00	2.44E-02
3049	360200	3801400	7.55E-01	5.16E-02	1.39E-01	2.13E-02	1.39E-01	2.13E-02	9.46E-01	4.85E-01	2.01E+00	1.22E+00	2.25E-02
3050	360300	3801400	7.73E-01	4.23E-02	1.23E-01	1.73E-02	1.23E-01	1.73E-02	9.69E-01	4.29E-01	2.06E+00	1.05E+00	2.30E-02
3051	360400	3801400	6.33E-01	3.59E-02	9.50E-02	1.45E-02	9.50E-02	1.45E-02	7.94E-01	3.31E-01	1.69E+00	7.76E-01	1.89E-02
3052	360500	3801400	5.24E-01	3.08E-02	8.47E-02	1.24E-02	8.47E-02	1.24E-02	6.56E-01	2.88E-01	1.40E+00	7.47E-01	1.56E-02
3053	360600	3801400	5.37E-01	2.71E-02	8.02E-02	1.08E-02	8.02E-02	1.08E-02	6.73E-01	2.74E-01	1.43E+00	7.61E-01	1.60E-02
3054	360700	3801400	5.23E-01	2.45E-02	6.70E-02	9.66E-03	6.70E-02	9.66E-03	6.56E-01	2.29E-01	1.40E+00	6.49E-01	1.56E-02
3055	360800	3801400	6.07E-01	2.24E-02	5.12E-02	8.83E-03	5.12E-02	8.83E-03	7.60E-01	1.74E-01	1.62E+00	5.17E-01	1.81E-02
3056	360900	3801400	7.03E-01	2.09E-02	4.92E-02	8.19E-03	4.92E-02	8.19E-03	8.81E-01	1.68E-01	1.88E+00	4.55E-01	2.10E-02
3057	361000	3801400	7.16E-01	1.96E-02	4.68E-02	7.67E-03	4.68E-02	7.67E-03	8.97E-01	1.60E-01	1.91E+00	3.99E-01	2.14E-02
3058	361100	3801400	6.61E-01	1.85E-02	4.26E-02	7.25E-03	4.26E-02	7.25E-03	8.27E-01	1.46E-01	1.76E+00	3.85E-01	1.97E-02
3059	361200	3801400	5.66E-01	1.76E-02	3.86E-02	6.90E-03	3.86E-02	6.90E-03	7.08E-01	1.32E-01	1.51E+00	4.18E-01	1.69E-02
3060	358400	3801500	4.13E-01	4.83E-02	6.05E-02	1.91E-02	6.05E-02	1.91E-02	5.15E-01	2.08E-01	1.10E+00	5.25E-01	1.23E-02
3061	358500	3801500	4.14E-01	5.03E-02	6.22E-02	2.00E-02	6.22E-02	2.00E-02	5.16E-01	2.14E-01	1.10E+00	5.87E-01	1.23E-02
3062	358600	3801500	4.05E-01	5.26E-02	6.37E-02	2.10E-02	6.37E-02	2.10E-02	5.06E-01	2.18E-01	1.08E+00	6.36E-01	1.21E-02
3063	358700	3801500	3.86E-01	5.52E-02	6.81E-02	2.22E-02	6.81E-02	2.22E-02	4.82E-01	2.33E-01	1.03E+00	6.64E-01	1.15E-02
3064	358800	3801500	3.53E-01	5.84E-02	7.30E-02	2.36E-02	7.30E-02	2.36E-02	4.41E-01	2.50E-01	9.42E-01	6.65E-01	1.05E-02
3065	358900	3801500	3.67E-01	6.19E-02	7.79E-02	2.52E-02	7.79E-02	2.52E-02	4.57E-01	2.68E-01	9.78E-01	6.32E-01	1.09E-02
3066	359000	3801500	3.95E-01	6.58E-02	8.22E-02	2.70E-02	8.22E-02	2.70E-02	4.92E-01	2.84E-01	1.05E+00	6.50E-01	1.18E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3067	359100	3801500	4.20E-01	6.99E-02	8.49E-02	2.88E-02	8.49E-02	2.88E-02	5.24E-01	2.94E-01	1.12E+00	7.04E-01	1.25E-02
3068	359200	3801500	4.54E-01	7.39E-02	8.88E-02	3.07E-02	8.88E-02	3.07E-02	5.67E-01	3.08E-01	1.21E+00	7.92E-01	1.35E-02
3069	359300	3801500	4.83E-01	7.76E-02	9.79E-02	3.23E-02	9.79E-02	3.23E-02	6.04E-01	3.37E-01	1.29E+00	8.52E-01	1.44E-02
3070	359400	3801500	5.23E-01	8.03E-02	1.03E-01	3.36E-02	1.03E-01	3.36E-02	6.53E-01	3.56E-01	1.39E+00	8.46E-01	1.56E-02
3071	359500	3801500	5.41E-01	8.17E-02	1.02E-01	3.43E-02	1.02E-01	3.43E-02	6.77E-01	3.52E-01	1.44E+00	9.05E-01	1.61E-02
3072	359600	3801500	6.36E-01	8.12E-02	1.07E-01	3.41E-02	1.07E-01	3.41E-02	7.96E-01	3.69E-01	1.70E+00	9.99E-01	1.90E-02
3073	359700	3801500	6.65E-01	7.83E-02	1.11E-01	3.29E-02	1.11E-01	3.29E-02	8.33E-01	3.84E-01	1.77E+00	9.98E-01	1.98E-02
3074	359800	3801500	6.79E-01	7.44E-02	1.15E-01	3.12E-02	1.15E-01	3.12E-02	8.50E-01	3.95E-01	1.81E+00	9.87E-01	2.02E-02
3075	359900	3801500	6.71E-01	6.94E-02	1.19E-01	2.90E-02	1.19E-01	2.90E-02	8.41E-01	4.10E-01	1.79E+00	1.08E+00	2.00E-02
3076	360000	3801500	6.63E-01	6.29E-02	1.19E-01	2.62E-02	1.19E-01	2.62E-02	8.31E-01	4.14E-01	1.77E+00	1.14E+00	1.98E-02
3077	360100	3801500	6.77E-01	5.51E-02	1.25E-01	2.28E-02	1.25E-01	2.28E-02	8.48E-01	4.35E-01	1.80E+00	1.18E+00	2.02E-02
3078	360200	3801500	7.04E-01	4.68E-02	1.24E-01	1.92E-02	1.24E-01	1.92E-02	8.82E-01	4.30E-01	1.88E+00	1.09E+00	2.10E-02
3079	360300	3801500	7.30E-01	3.92E-02	1.12E-01	1.60E-02	1.12E-01	1.60E-02	9.14E-01	3.87E-01	1.95E+00	9.51E-01	2.18E-02
3080	360400	3801500	6.35E-01	3.38E-02	8.91E-02	1.36E-02	8.91E-02	1.36E-02	7.95E-01	3.09E-01	1.69E+00	7.31E-01	1.89E-02
3081	360500	3801500	4.92E-01	2.95E-02	7.78E-02	1.18E-02	7.78E-02	1.18E-02	6.16E-01	2.64E-01	1.31E+00	6.41E-01	1.47E-02
3082	360600	3801500	4.79E-01	2.62E-02	7.55E-02	1.04E-02	7.55E-02	1.04E-02	6.00E-01	2.57E-01	1.28E+00	6.82E-01	1.43E-02
3083	360700	3801500	4.73E-01	2.37E-02	6.67E-02	9.36E-03	6.67E-02	9.36E-03	5.92E-01	2.28E-01	1.26E+00	6.29E-01	1.41E-02
3084	360800	3801500	5.01E-01	2.19E-02	5.25E-02	8.60E-03	5.25E-02	8.60E-03	6.28E-01	1.79E-01	1.34E+00	4.97E-01	1.49E-02
3085	360900	3801500	6.18E-01	2.04E-02	4.46E-02	8.00E-03	4.46E-02	8.00E-03	7.74E-01	1.51E-01	1.65E+00	4.41E-01	1.84E-02
3086	361000	3801500	6.72E-01	1.92E-02	4.34E-02	7.53E-03	4.34E-02	7.53E-03	8.41E-01	1.48E-01	1.79E+00	3.82E-01	2.00E-02
3087	358600	3801600	3.34E-01	5.32E-02	6.61E-02	2.14E-02	6.61E-02	2.14E-02	4.17E-01	2.25E-01	8.91E-01	5.84E-01	9.96E-03
3088	358700	3801600	3.18E-01	5.57E-02	6.99E-02	2.25E-02	6.99E-02	2.25E-02	3.95E-01	2.39E-01	8.47E-01	5.77E-01	9.46E-03
3089	358800	3801600	3.31E-01	5.86E-02	7.36E-02	2.38E-02	7.36E-02	2.38E-02	4.11E-01	2.53E-01	8.81E-01	5.46E-01	9.85E-03
3090	358900	3801600	3.53E-01	6.17E-02	7.67E-02	2.52E-02	7.67E-02	2.52E-02	4.41E-01	2.64E-01	9.43E-01	5.73E-01	1.05E-02
3091	359000	3801600	3.76E-01	6.50E-02	7.85E-02	2.67E-02	7.85E-02	2.67E-02	4.69E-01	2.71E-01	1.00E+00	6.24E-01	1.12E-02
3092	359100	3801600	4.03E-01	6.82E-02	8.14E-02	2.82E-02	8.14E-02	2.82E-02	5.03E-01	2.79E-01	1.07E+00	6.90E-01	1.20E-02
3093	359200	3801600	4.23E-01	7.12E-02	8.84E-02	2.95E-02	8.84E-02	2.95E-02	5.29E-01	3.03E-01	1.13E+00	7.45E-01	1.26E-02
3094	359300	3801600	4.51E-01	7.35E-02	9.39E-02	3.06E-02	9.39E-02	3.06E-02	5.63E-01	3.23E-01	1.20E+00	7.55E-01	1.34E-02
3095	359400	3801600	4.93E-01	7.50E-02	9.39E-02	3.13E-02	9.39E-02	3.13E-02	6.17E-01	3.24E-01	1.32E+00	7.78E-01	1.47E-02
3096	359500	3801600	5.26E-01	7.51E-02	9.64E-02	3.14E-02	9.64E-02	3.14E-02	6.58E-01	3.32E-01	1.40E+00	8.72E-01	1.57E-02
3097	359600	3801600	5.94E-01	7.35E-02	9.87E-02	3.08E-02	9.87E-02	3.08E-02	7.43E-01	3.38E-01	1.58E+00	9.12E-01	1.77E-02
3098	359700	3801600	6.16E-01	7.01E-02	1.02E-01	2.93E-02	1.02E-01	2.93E-02	7.71E-01	3.50E-01	1.64E+00	8.71E-01	1.84E-02
3099	359800	3801600	6.37E-01	6.71E-02	1.09E-01	2.80E-02	1.09E-01	2.80E-02	7.97E-01	3.74E-01	1.70E+00	8.83E-01	1.90E-02
3100	359900	3801600	5.93E-01	6.27E-02	1.12E-01	2.61E-02	1.12E-01	2.61E-02	7.42E-01	3.85E-01	1.58E+00	9.95E-01	1.77E-02
3101	360000	3801600	6.09E-01	5.68E-02	1.08E-01	2.35E-02	1.08E-01	2.35E-02	7.62E-01	3.76E-01	1.62E+00	1.04E+00	1.81E-02
3102	360100	3801600	6.10E-01	5.01E-02	1.15E-01	2.07E-02	1.15E-01	2.07E-02	7.64E-01	3.98E-01	1.63E+00	1.05E+00	1.82E-02
3103	360200	3801600	6.74E-01	4.32E-02	1.13E-01	1.77E-02	1.13E-01	1.77E-02	8.44E-01	3.91E-01	1.80E+00	9.75E-01	2.01E-02
3104	360300	3801600	7.01E-01	3.68E-02	1.03E-01	1.49E-02	1.03E-01	1.49E-02	8.77E-01	3.57E-01	1.87E+00	8.64E-01	2.09E-02
3105	360400	3801600	6.26E-01	3.21E-02	8.50E-02	1.29E-02	8.50E-02	1.29E-02	7.84E-01	2.94E-01	1.67E+00	6.86E-01	1.87E-02
3106	360500	3801600	5.04E-01	2.83E-02	7.19E-02	1.13E-02	7.19E-02	1.13E-02	6.31E-01	2.43E-01	1.35E+00	5.55E-01	1.50E-02
3107	360600	3801600	4.28E-01	2.53E-02	7.06E-02	1.01E-02	7.06E-02	1.01E-02	5.36E-01	2.40E-01	1.14E+00	6.06E-01	1.28E-02
3108	360700	3801600	4.14E-01	2.31E-02	6.48E-02	9.10E-03	6.48E-02	9.10E-03	5.18E-01	2.21E-01	1.10E+00	5.91E-01	1.23E-02
3109	360800	3801600	4.07E-01	2.13E-02	5.41E-02	8.39E-03	5.41E-02	8.39E-03	5.09E-01	1.84E-01	1.08E+00	5.04E-01	1.21E-02
3110	360750	3793250	1.39E-01	2.11E-02	7.52E-02	8.20E-03	7.52E-02	8.20E-03	1.70E-01	2.47E-01	3.71E-01	3.41E-01	4.14E-03
3111	361000	3793250	1.39E-01	2.14E-02	7.20E-02	8.28E-03	7.20E-02	8.28E-03	1.70E-01	2.36E-01	3.70E-01	3.43E-01	4.14E-03
3112	361250	3793250	1.37E-01	2.12E-02	6.45E-02	8.17E-03	6.45E-02	8.17E-03	1.68E-01	2.11E-01	3.65E-01	3.21E-01	4.08E-03
3113	361500	3793250	1.37E-01	2.06E-02	5.75E-02	7.89E-03	5.75E-02	7.89E-03	1.67E-01	1.86E-01	3.65E-01	3.23E-01	4.07E-03
3114	361750	3793250	1.35E-01	1.96E-02	5.72E-02	7.49E-03	5.72E-02	7.49E-03	1.65E-01	1.86E-01	3.60E-01	3.08E-01	4.03E-03
3115	362000	3793250	1.33E-01	1.84E-02	5.40E-02	7.05E-03	5.40E-02	7.05E-03	1.63E-01	1.76E-01	3.56E-01	2.74E-01	3.97E-03
3116	359500	3793500	1.49E-01	1.53E-02	5.48E-02	5.96E-03	5.48E-02	5.96E-03	1.83E-01	1.77E-01	3.97E-01	3.04E-01	4.43E-03
3117	359750	3793500	1.51E-01	1.69E-02	6.39E-02	6.56E-03	6.39E-02	6.56E-03	1.85E-01	2.08E-01	4.01E-01	3.20E-01	4.49E-03
3118	360000	3793500	1.51E-01	1.82E-02	6.99E-02	7.09E-03	6.99E-02	7.09E-03	1.85E-01	2.29E-01	4.03E-01	3.33E-01	4.50E-03
3119	360250	3793500	1.49E-01	1.98E-02	7.17E-02	7.70E-03	7.17E-02	7.70E-03	1.82E-01	2.36E-01	3.96E-01	3.51E-01	4.43E-03
3120	360500	3793500	1.46E-01	2.11E-02	7.73E-02	8.19E-03	7.73E-02	8.19E-03	1.79E-01	2.54E-01	3.89E-01	3.55E-01	4.35E-03
3121	360750	3793500	1.46E-01	2.19E-02	7.87E-02	8.49E-03	7.87E-02	8.49E-03	1.79E-01	2.59E-01	3.88E-01	3.59E-01	4.34E-03
3122	361000	3793500	1.45E-01	2.22E-02	7.49E-02	8.56E-03	7.49E-02	8.56E-03	1.78E-01	2.46E-01	3.86E-01	3.58E-01	4.32E-03
3123	361250	3793500	1.44E-01	2.19E-02	6.64E-02	8.42E-03	6.64E-02	8.42E-03	1.76E-01	2.17E-01	3.83E-01	3.31E-01	4.28E-03
3124	361500	3793500	1.44E-01	2.11E-02	5.98E-02	8.10E-03	5.98E-02	8.10E-03	1.76E-01	1.94E-01	3.83E-01	3.34E-01	4.28E-03
3125	361750	3793500	1.40E-01	2.00E-02	5.88E-02	7.66E-03	5.88E-02	7.66E-03	1.72E-01	1.91E-01	3.74E-01	3.13E-01	4.18E-03
3126	362000	3793500	1.39E-01	1.88E-02	5.48E-02	7.18E-03	5.48E-02	7.18E-03	1.70E-01	1.78E-01	3.69E-01	2.75E-01	4.13E-03
3127	362250	3793500	1.37E-01	1.78E-02	4.83E-02	6.84E-03	4.83E-02	6.84E-03	1.68E-01	1.57E-01	3.65E-01	2.91E-01	4.08E-03
3128	362500	3793500	1.33E-01	1.72E-02	4.03E-02	6.60E-03	4.03E-02	6.60E-03	1.62E-01	1.31E-01	3.54E-01	2.90E-01	3.95E-03
3129	362750	3793500	1.30E-01	1.65E-02	3.80E-02	6.35E-03	3.80E-02	6.35E-03	1.58E-01	1.24E-01	3.47E-01	2.74E-01	3.87E-03
3130	363000	3793500	1.30E-01	1.58E-02	3.59E-02	6.09E-03	3.59E-02	6.09E-03	1.58E-01	1.17E-01	3.46E-01	2.48E-01	3.86E-03
3131	363250	3793500	1.27E-01	1.51E-02	3.23E-02	5.83E-03	3.23E-02	5.83E-03	1.55E-01	1.06E-01	3.40E-01	2.25E-01	3.80E-03
3132	359000	3793750	1.54E-01	1.25E-02	4.82E-02	4.84E-03	4.82E-02	4.84E-03	1.89E-01	1.56E-01	4.10E-01	3.00E-01	4.59E-03
3133	359250	3793750	1.52E-01	1.41E-02	4.75E-02	5.46E-03	4.75E-02	5.46E-03	1.86E-01	1.53E-01	4.05E-01	3.15E-01	4.52E-03
3134	359500	3793750	1.55E-01	1.57E-02	5.63E-02	6.11E-03	5.63E-02	6.11E-03	1.91E-01	1.82E-01	4.14E-01	3.14E-01	4.63E-03
3135	359750	3793750	1.58E-01	1.74E-02	6.62E-02	6.75E-03	6.62E-02	6.75E-03	1.94E-01	2.16E-01	4.21E-01	3.30E-01	4.70E-03
3136	360000	3793750	1.58E-01	1.88E-02	7.27E-02	7.32E-03	7.27E-02	7.32E-03	1.95E-01	2.39E-01	4.22E-01	3.44E-01	4.72E-03
3137	360250	3793750	1.55E-01	2.04E-02	7.48E-02	7.96E-03	7.48E-02	7.96E-03	1.91E-01	2.46E-01	4.14E-01	3.69E-01	4.63E-03
3138	360500	3793750	1.53E-01	2.18E-02	8.12E-02	8.49E-03	8.12E-02	8.49E-03	1.88E-01	2.67E-01	4.08E-01	3.71E-01	4.56E-03
3139	360750	3793750	1.53E-01	2.27E-02	8.25E-02	8.80E-03	8.25E-02	8.80E-03	1.88E-01	2.72E-01	4.08E-01	3.77E-01	4.56E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3140	361000	3793750	1.52E-01	2.29E-02	7.80E-02	8.86E-03	7.80E-02	8.86E-03	1.86E-01	2.56E-01	4.04E-01	3.73E-01	4.52E-03
3141	361250	3793750	1.51E-01	2.26E-02	6.84E-02	8.68E-03	6.84E-02	8.68E-03	1.85E-01	2.24E-01	4.02E-01	3.46E-01	4.49E-03
3142	361500	3793750	1.50E-01	2.17E-02	6.20E-02	8.32E-03	6.20E-02	8.32E-03	1.84E-01	2.02E-01	4.01E-01	3.45E-01	4.48E-03
3143	361750	3793750	1.47E-01	2.05E-02	6.04E-02	7.83E-03	6.04E-02	7.83E-03	1.80E-01	1.97E-01	3.91E-01	3.17E-01	4.37E-03
3144	362000	3793750	1.43E-01	1.91E-02	5.54E-02	7.31E-03	5.54E-02	7.31E-03	1.76E-01	1.81E-01	3.82E-01	2.92E-01	4.27E-03
3145	362250	3793750	1.43E-01	1.82E-02	4.78E-02	7.00E-03	4.78E-02	7.00E-03	1.75E-01	1.56E-01	3.81E-01	3.03E-01	4.26E-03
3146	362500	3793750	1.38E-01	1.75E-02	4.01E-02	6.74E-03	4.01E-02	6.74E-03	1.69E-01	1.30E-01	3.67E-01	2.97E-01	4.10E-03
3147	362750	3793750	1.34E-01	1.68E-02	3.92E-02	6.46E-03	3.92E-02	6.46E-03	1.64E-01	1.28E-01	3.58E-01	2.75E-01	4.01E-03
3148	363000	3793750	1.33E-01	1.60E-02	3.62E-02	6.18E-03	3.62E-02	6.18E-03	1.62E-01	1.18E-01	3.55E-01	2.43E-01	3.96E-03
3149	363250	3793750	1.32E-01	1.53E-02	3.17E-02	5.91E-03	3.17E-02	5.91E-03	1.61E-01	1.04E-01	3.51E-01	2.23E-01	3.92E-03
3150	363500	3793750	1.28E-01	1.46E-02	2.89E-02	5.65E-03	2.89E-02	5.65E-03	1.57E-01	8.89E-02	3.43E-01	1.97E-01	3.83E-03
3151	363750	3793750	1.27E-01	1.40E-02	2.72E-02	5.40E-03	2.72E-02	5.40E-03	1.55E-01	8.41E-02	3.40E-01	1.98E-01	3.80E-03
3152	364000	3793750	1.26E-01	1.34E-02	2.49E-02	5.18E-03	2.49E-02	5.18E-03	1.52E-01	7.72E-02	3.35E-01	2.04E-01	3.74E-03
3153	358500	3794000	1.59E-01	9.99E-03	4.82E-02	3.89E-03	4.82E-02	3.89E-03	1.96E-01	1.57E-01	4.25E-01	3.65E-01	4.75E-03
3154	358750	3794000	1.55E-01	1.12E-02	4.98E-02	4.36E-03	4.98E-02	4.36E-03	1.90E-01	1.62E-01	4.12E-01	3.43E-01	4.61E-03
3155	359000	3794000	1.61E-01	1.27E-02	5.02E-02	4.92E-03	5.02E-02	4.92E-03	1.98E-01	1.63E-01	4.28E-01	3.23E-01	4.79E-03
3156	359250	3794000	1.60E-01	1.44E-02	4.96E-02	5.57E-03	4.96E-02	5.57E-03	1.96E-01	1.60E-01	4.26E-01	3.22E-01	4.76E-03
3157	359500	3794000	1.62E-01	1.61E-02	5.78E-02	6.27E-03	5.78E-02	6.27E-03	1.99E-01	1.87E-01	4.32E-01	3.25E-01	4.82E-03
3158	359750	3794000	1.66E-01	1.79E-02	6.86E-02	6.95E-03	6.86E-02	6.95E-03	2.04E-01	2.24E-01	4.42E-01	3.39E-01	4.94E-03
3159	360000	3794000	1.66E-01	1.94E-02	7.57E-02	7.57E-03	7.57E-02	7.57E-03	2.04E-01	2.49E-01	4.43E-01	3.57E-01	4.95E-03
3160	360250	3794000	1.63E-01	2.11E-02	7.85E-02	8.24E-03	7.85E-02	8.24E-03	2.00E-01	2.58E-01	4.34E-01	3.88E-01	4.85E-03
3161	360500	3794000	1.61E-01	2.26E-02	8.53E-02	8.80E-03	8.53E-02	8.80E-03	1.98E-01	2.82E-01	4.29E-01	3.87E-01	4.79E-03
3162	360750	3794000	1.61E-01	2.35E-02	8.64E-02	9.11E-03	8.64E-02	9.11E-03	1.97E-01	2.85E-01	4.28E-01	3.97E-01	4.78E-03
3163	361000	3794000	1.59E-01	2.37E-02	8.12E-02	9.16E-03	8.12E-02	9.16E-03	1.95E-01	2.67E-01	4.24E-01	3.89E-01	4.74E-03
3164	361250	3794000	1.58E-01	2.33E-02	7.03E-02	8.95E-03	7.03E-02	8.95E-03	1.94E-01	2.30E-01	4.21E-01	3.61E-01	4.70E-03
3165	361500	3794000	1.57E-01	2.23E-02	6.43E-02	8.54E-03	6.43E-02	8.54E-03	1.93E-01	2.10E-01	4.19E-01	3.54E-01	4.68E-03
3166	361750	3794000	1.54E-01	2.09E-02	6.18E-02	8.00E-03	6.18E-02	8.00E-03	1.89E-01	2.02E-01	4.10E-01	3.19E-01	4.58E-03
3167	362000	3794000	1.49E-01	1.94E-02	5.57E-02	7.43E-03	5.57E-02	7.43E-03	1.83E-01	1.82E-01	3.97E-01	3.08E-01	4.43E-03
3168	362250	3794000	1.48E-01	1.86E-02	4.70E-02	7.16E-03	4.70E-02	7.16E-03	1.82E-01	1.54E-01	3.95E-01	3.15E-01	4.42E-03
3169	362500	3794000	1.43E-01	1.79E-02	4.20E-02	6.87E-03	4.20E-02	6.87E-03	1.76E-01	1.37E-01	3.82E-01	3.01E-01	4.27E-03
3170	362750	3794000	1.39E-01	1.70E-02	4.01E-02	6.57E-03	4.01E-02	6.57E-03	1.70E-01	1.31E-01	3.70E-01	2.73E-01	4.13E-03
3171	363000	3794000	1.38E-01	1.63E-02	3.60E-02	6.27E-03	3.60E-02	6.27E-03	1.70E-01	1.18E-01	3.69E-01	2.44E-01	4.12E-03
3172	363250	3794000	1.37E-01	1.55E-02	3.06E-02	5.98E-03	3.06E-02	5.98E-03	1.67E-01	1.01E-01	3.64E-01	2.19E-01	4.07E-03
3173	363500	3794000	1.33E-01	1.48E-02	2.90E-02	5.71E-03	2.90E-02	5.71E-03	1.62E-01	8.96E-02	3.53E-01	1.99E-01	3.95E-03
3174	363750	3794000	1.29E-01	1.42E-02	2.68E-02	5.47E-03	2.68E-02	5.47E-03	1.58E-01	8.32E-02	3.44E-01	2.10E-01	3.84E-03
3175	364000	3794000	1.27E-01	1.36E-02	2.42E-02	5.25E-03	2.42E-02	5.25E-03	1.55E-01	7.74E-02	3.40E-01	2.11E-01	3.80E-03
3176	364250	3794000	1.18E-01	1.31E-02	2.58E-02	5.06E-03	2.58E-02	5.06E-03	1.43E-01	7.42E-02	3.15E-01	2.04E-01	3.52E-03
3177	358250	3794250	1.62E-01	9.23E-03	4.71E-02	3.59E-03	4.71E-02	3.59E-03	2.00E-01	1.54E-01	4.32E-01	3.81E-01	4.83E-03
3178	358500	3794250	1.66E-01	1.01E-02	4.96E-02	3.92E-03	4.96E-02	3.92E-03	2.04E-01	1.62E-01	4.42E-01	3.89E-01	4.94E-03
3179	358750	3794250	1.64E-01	1.13E-02	5.16E-02	4.40E-03	5.16E-02	4.40E-03	2.02E-01	1.68E-01	4.38E-01	3.65E-01	4.90E-03
3180	359000	3794250	1.67E-01	1.29E-02	5.23E-02	4.99E-03	5.23E-02	4.99E-03	2.06E-01	1.70E-01	4.46E-01	3.48E-01	4.98E-03
3181	359250	3794250	1.69E-01	1.46E-02	5.18E-02	5.68E-03	5.18E-02	5.68E-03	2.09E-01	1.67E-01	4.52E-01	3.28E-01	5.05E-03
3182	359500	3794250	1.70E-01	1.65E-02	5.94E-02	6.42E-03	5.94E-02	6.42E-03	2.09E-01	1.92E-01	4.53E-01	3.35E-01	5.07E-03
3183	359750	3794250	1.74E-01	1.84E-02	7.11E-02	7.16E-03	7.11E-02	7.16E-03	2.14E-01	2.33E-01	4.64E-01	3.49E-01	5.18E-03
3184	360000	3794250	1.74E-01	2.00E-02	7.89E-02	7.82E-03	7.89E-02	7.82E-03	2.15E-01	2.60E-01	4.65E-01	3.75E-01	5.20E-03
3185	360250	3794250	1.71E-01	2.18E-02	8.26E-02	8.53E-03	8.26E-02	8.53E-03	2.11E-01	2.72E-01	4.56E-01	4.10E-01	5.10E-03
3186	360500	3794250	1.69E-01	2.34E-02	8.98E-02	9.12E-03	8.98E-02	9.12E-03	2.08E-01	2.97E-01	4.51E-01	4.05E-01	5.05E-03
3187	360750	3794250	1.69E-01	2.43E-02	9.06E-02	9.45E-03	9.06E-02	9.45E-03	2.08E-01	3.00E-01	4.50E-01	4.18E-01	5.03E-03
3188	361000	3794250	1.67E-01	2.46E-02	8.45E-02	9.48E-03	8.45E-02	9.48E-03	2.06E-01	2.78E-01	4.46E-01	4.06E-01	4.99E-03
3189	361250	3794250	1.66E-01	2.41E-02	7.22E-02	9.23E-03	7.22E-02	9.23E-03	2.04E-01	2.36E-01	4.43E-01	3.76E-01	4.95E-03
3190	361500	3794250	1.64E-01	2.29E-02	6.65E-02	8.76E-03	6.65E-02	8.76E-03	2.01E-01	2.18E-01	4.37E-01	3.62E-01	4.88E-03
3191	361750	3794250	1.61E-01	2.14E-02	6.31E-02	8.16E-03	6.31E-02	8.16E-03	1.97E-01	2.06E-01	4.28E-01	3.19E-01	4.79E-03
3192	362000	3794250	1.57E-01	1.98E-02	5.57E-02	7.62E-03	5.57E-02	7.62E-03	1.93E-01	1.82E-01	4.19E-01	3.25E-01	4.68E-03
3193	362250	3794250	1.55E-01	1.90E-02	4.58E-02	7.32E-03	4.58E-02	7.32E-03	1.90E-01	1.50E-01	4.13E-01	3.24E-01	4.61E-03
3194	362500	3794250	1.48E-01	1.82E-02	4.37E-02	7.00E-03	4.37E-02	7.00E-03	1.81E-01	1.43E-01	3.94E-01	3.03E-01	4.40E-03
3195	362750	3794250	1.44E-01	1.73E-02	4.06E-02	6.67E-03	4.06E-02	6.67E-03	1.77E-01	1.33E-01	3.85E-01	2.67E-01	4.30E-03
3196	363000	3794250	1.45E-01	1.65E-02	3.53E-02	6.36E-03	3.53E-02	6.36E-03	1.78E-01	1.16E-01	3.87E-01	2.43E-01	4.32E-03
3197	363250	3794250	1.40E-01	1.57E-02	3.07E-02	6.06E-03	3.07E-02	6.06E-03	1.71E-01	9.61E-02	3.73E-01	2.12E-01	4.16E-03
3198	363500	3794250	1.39E-01	1.50E-02	2.88E-02	5.78E-03	2.88E-02	5.78E-03	1.70E-01	8.94E-02	3.70E-01	2.14E-01	4.13E-03
3199	363750	3794250	1.33E-01	1.43E-02	2.61E-02	5.54E-03	2.61E-02	5.54E-03	1.62E-01	8.26E-02	3.54E-01	2.19E-01	3.96E-03
3200	364000	3794250	1.26E-01	1.38E-02	2.60E-02	5.32E-03	2.60E-02	5.32E-03	1.54E-01	7.71E-02	3.36E-01	2.15E-01	3.76E-03
3201	364250	3794250	1.13E-01	1.33E-02	2.81E-02	5.14E-03	2.81E-02	5.14E-03	1.38E-01	8.15E-02	3.01E-01	2.04E-01	3.36E-03
3202	364500	3794250	1.08E-01	1.30E-02	2.98E-02	4.99E-03	2.98E-02	4.99E-03	1.27E-01	8.69E-02	2.87E-01	1.88E-01	3.21E-03
3203	364750	3794250	1.07E-01	1.26E-02	3.09E-02	4.87E-03	3.09E-02	4.87E-03	1.25E-01	9.07E-02	2.84E-01	1.87E-01	3.17E-03
3204	357500	3794500	1.60E-01	7.87E-03	4.12E-02	3.06E-03	4.12E-02	3.06E-03	1.97E-01	1.34E-01	4.27E-01	3.19E-01	4.77E-03
3205	357750	3794500	1.62E-01	8.31E-03	4.43E-02	3.23E-03	4.43E-02	3.23E-03	1.99E-01	1.45E-01	4.31E-01	3.32E-01	4.82E-03
3206	358000	3794500	1.68E-01	8.81E-03	4.60E-02	3.42E-03	4.60E-02	3.42E-03	2.07E-01	1.50E-01	4.49E-01	3.47E-01	5.02E-03
3207	358250	3794500	1.71E-01	9.37E-03	4.91E-02	3.64E-03	4.91E-02	3.64E-03	2.11E-01	1.60E-01	4.57E-01	3.93E-01	5.10E-03
3208	358500	3794500	1.72E-01	1.02E-02	5.10E-02	3.96E-03	5.10E-02	3.96E-03	2.12E-01	1.67E-01	4.59E-01	4.12E-01	5.13E-03
3209	358750	3794500	1.76E-01	1.15E-02	5.35E-02	4.45E-03	5.35E-02	4.45E-03	2.16E-01	1.75E-01	4.68E-01	3.95E-01	5.23E-03
3210	359000	3794500	1.74E-01	1.31E-02	5.44E-02	5.06E-03	5.44E-02	5.06E-03	2.14E-01	1.77E-01	4.63E-01	3.75E-01	5.17E-03
3211	359250	3794500	1.79E-01	1.49E-02	5.41E-02	5.79E-03	5.41E-02	5.79E-03	2.21E-01	1.75E-01	4.79E-01	3.34E-01	5.35E-03
3212	359500	3794500	1.79E-01	1.70E-02	6.09E-02	6.58E-03	6.09E-02	6.58E-03	2.20E-01	1.97E-01	4.76E-01	3.45E-01	5.32E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3213	359750	3794500	1.83E-01	1.90E-02	7.37E-02	7.38E-03	7.37E-02	7.38E-03	2.26E-01	2.42E-01	4.88E-01	3.60E-01	5.46E-03
3214	360000	3794500	1.84E-01	2.07E-02	8.22E-02	8.08E-03	8.22E-02	8.08E-03	2.26E-01	2.72E-01	4.90E-01	3.94E-01	5.47E-03
3215	360250	3794500	1.80E-01	2.26E-02	8.69E-02	8.84E-03	8.69E-02	8.84E-03	2.22E-01	2.86E-01	4.80E-01	4.33E-01	5.37E-03
3216	360500	3794500	1.79E-01	2.42E-02	9.45E-02	9.46E-03	9.45E-02	9.46E-03	2.20E-01	3.14E-01	4.76E-01	4.27E-01	5.32E-03
3217	360750	3794500	1.78E-01	2.52E-02	9.50E-02	9.80E-03	9.50E-02	9.80E-03	2.19E-01	3.15E-01	4.75E-01	4.40E-01	5.30E-03
3218	361000	3794500	1.77E-01	2.54E-02	8.79E-02	9.81E-03	8.79E-02	9.81E-03	2.18E-01	2.90E-01	4.72E-01	4.22E-01	5.28E-03
3219	361250	3794500	1.75E-01	2.48E-02	7.40E-02	9.51E-03	7.40E-02	9.51E-03	2.16E-01	2.42E-01	4.67E-01	3.91E-01	5.22E-03
3220	361500	3794500	1.73E-01	2.35E-02	6.87E-02	8.97E-03	6.87E-02	8.97E-03	2.13E-01	2.25E-01	4.60E-01	3.69E-01	5.14E-03
3221	361750	3794500	1.67E-01	2.18E-02	6.41E-02	8.32E-03	6.41E-02	8.32E-03	2.06E-01	2.10E-01	4.46E-01	3.22E-01	4.99E-03
3222	362000	3794500	1.65E-01	2.03E-02	5.52E-02	7.80E-03	5.52E-02	7.80E-03	2.03E-01	1.81E-01	4.40E-01	3.40E-01	4.92E-03
3223	362250	3794500	1.61E-01	1.94E-02	4.65E-02	7.47E-03	4.65E-02	7.47E-03	1.98E-01	1.52E-01	4.30E-01	3.31E-01	4.80E-03
3224	362500	3794500	1.53E-01	1.85E-02	4.51E-02	7.12E-03	4.51E-02	7.12E-03	1.88E-01	1.48E-01	4.08E-01	3.01E-01	4.56E-03
3225	362750	3794500	1.52E-01	1.76E-02	4.05E-02	6.77E-03	4.05E-02	6.77E-03	1.87E-01	1.33E-01	4.06E-01	2.65E-01	4.54E-03
3226	363000	3794500	1.51E-01	1.67E-02	3.41E-02	6.44E-03	3.41E-02	6.44E-03	1.85E-01	1.13E-01	4.03E-01	2.38E-01	4.50E-03
3227	363250	3794500	1.48E-01	1.59E-02	3.07E-02	6.13E-03	3.07E-02	6.13E-03	1.82E-01	9.55E-02	3.95E-01	2.15E-01	4.41E-03
3228	363500	3794500	1.43E-01	1.52E-02	2.82E-02	5.86E-03	2.82E-02	5.86E-03	1.75E-01	8.81E-02	3.81E-01	2.26E-01	4.25E-03
3229	363750	3794500	1.35E-01	1.45E-02	2.61E-02	5.61E-03	2.61E-02	5.61E-03	1.66E-01	8.28E-02	3.61E-01	2.26E-01	4.03E-03
3230	364000	3794500	1.24E-01	1.40E-02	2.85E-02	5.41E-03	2.85E-02	5.41E-03	1.51E-01	8.27E-02	3.30E-01	2.17E-01	3.68E-03
3231	364250	3794500	1.11E-01	1.36E-02	3.04E-02	5.24E-03	3.04E-02	5.24E-03	1.31E-01	8.90E-02	2.95E-01	2.02E-01	3.29E-03
3232	364500	3794500	1.10E-01	1.32E-02	3.18E-02	5.10E-03	3.18E-02	5.10E-03	1.29E-01	9.35E-02	2.93E-01	1.94E-01	3.28E-03
3233	364750	3794500	1.09E-01	1.30E-02	3.25E-02	4.98E-03	3.25E-02	4.98E-03	1.27E-01	9.62E-02	2.89E-01	1.96E-01	3.23E-03
3234	365000	3794500	1.07E-01	1.27E-02	3.26E-02	4.88E-03	3.26E-02	4.88E-03	1.26E-01	9.69E-02	2.86E-01	1.94E-01	3.20E-03
3235	357000	3794750	1.60E-01	7.19E-03	4.95E-02	2.80E-03	4.95E-02	2.80E-03	1.96E-01	1.62E-01	4.26E-01	3.58E-01	4.76E-03
3236	357250	3794750	1.66E-01	7.55E-03	4.80E-02	2.94E-03	4.80E-02	2.94E-03	2.04E-01	1.57E-01	4.42E-01	3.41E-01	4.94E-03
3237	357500	3794750	1.69E-01	7.96E-03	4.36E-02	3.10E-03	4.36E-02	3.10E-03	2.07E-01	1.43E-01	4.50E-01	3.23E-01	5.02E-03
3238	357750	3794750	1.71E-01	8.42E-03	4.51E-02	3.28E-03	4.51E-02	3.28E-03	2.11E-01	1.48E-01	4.57E-01	3.45E-01	5.11E-03
3239	358000	3794750	1.77E-01	8.93E-03	4.75E-02	3.47E-03	4.75E-02	3.47E-03	2.18E-01	1.55E-01	4.72E-01	3.47E-01	5.27E-03
3240	358250	3794750	1.80E-01	9.52E-03	5.12E-02	3.70E-03	5.12E-02	3.70E-03	2.22E-01	1.67E-01	4.80E-01	4.02E-01	5.36E-03
3241	358500	3794750	1.81E-01	1.02E-02	5.28E-02	3.99E-03	5.28E-02	3.99E-03	2.23E-01	1.73E-01	4.83E-01	4.34E-01	5.40E-03
3242	358750	3794750	1.87E-01	1.16E-02	5.55E-02	4.49E-03	5.55E-02	4.49E-03	2.30E-01	1.83E-01	4.98E-01	4.26E-01	5.56E-03
3243	359000	3794750	1.84E-01	1.32E-02	5.66E-02	5.13E-03	5.66E-02	5.13E-03	2.27E-01	1.86E-01	4.91E-01	4.03E-01	5.49E-03
3244	359250	3794750	1.90E-01	1.52E-02	5.64E-02	5.89E-03	5.64E-02	5.89E-03	2.34E-01	1.83E-01	5.06E-01	3.63E-01	5.66E-03
3245	359500	3794750	1.90E-01	1.74E-02	6.25E-02	6.75E-03	6.25E-02	6.75E-03	2.35E-01	2.02E-01	5.07E-01	3.54E-01	5.67E-03
3246	359750	3794750	1.93E-01	1.95E-02	7.64E-02	7.60E-03	7.64E-02	7.60E-03	2.39E-01	2.51E-01	5.16E-01	3.72E-01	5.76E-03
3247	360000	3794750	1.94E-01	2.14E-02	8.57E-02	8.36E-03	8.57E-02	8.36E-03	2.40E-01	2.85E-01	5.18E-01	4.15E-01	5.79E-03
3248	360250	3794750	1.91E-01	2.34E-02	9.15E-02	9.15E-03	9.15E-02	9.15E-03	2.35E-01	3.03E-01	5.09E-01	4.58E-01	5.68E-03
3249	360500	3794750	1.89E-01	2.51E-02	9.95E-02	9.81E-03	9.95E-02	9.81E-03	2.33E-01	3.31E-01	5.04E-01	4.50E-01	5.63E-03
3250	360750	3794750	1.88E-01	2.61E-02	9.97E-02	1.02E-02	9.97E-02	1.02E-02	2.32E-01	3.32E-01	5.02E-01	4.64E-01	5.60E-03
3251	361000	3794750	1.87E-01	2.63E-02	9.15E-02	1.02E-02	9.15E-02	1.02E-02	2.31E-01	3.02E-01	5.00E-01	4.38E-01	5.59E-03
3252	361250	3794750	1.84E-01	2.56E-02	7.57E-02	9.80E-03	7.57E-02	9.80E-03	2.27E-01	2.47E-01	4.91E-01	4.06E-01	5.49E-03
3253	361500	3794750	1.83E-01	2.41E-02	7.08E-02	9.19E-03	7.08E-02	9.19E-03	2.25E-01	2.32E-01	4.88E-01	3.74E-01	5.45E-03
3254	361750	3794750	1.75E-01	2.22E-02	6.47E-02	8.46E-03	6.47E-02	8.46E-03	2.16E-01	2.12E-01	4.67E-01	3.43E-01	5.22E-03
3255	362000	3794750	1.75E-01	2.08E-02	5.43E-02	7.98E-03	5.43E-02	7.98E-03	2.16E-01	1.78E-01	4.68E-01	3.53E-01	5.23E-03
3256	362250	3794750	1.68E-01	1.98E-02	4.90E-02	7.61E-03	4.90E-02	7.61E-03	2.07E-01	1.60E-01	4.48E-01	3.35E-01	5.01E-03
3257	362500	3794750	1.62E-01	1.88E-02	4.59E-02	7.23E-03	4.59E-02	7.23E-03	1.99E-01	1.51E-01	4.32E-01	2.96E-01	4.83E-03
3258	362750	3794750	1.60E-01	1.78E-02	3.99E-02	6.86E-03	3.99E-02	6.86E-03	1.97E-01	1.31E-01	4.28E-01	2.64E-01	4.78E-03
3259	363000	3794750	1.56E-01	1.69E-02	3.26E-02	6.52E-03	3.26E-02	6.52E-03	1.91E-01	1.07E-01	4.15E-01	2.29E-01	4.64E-03
3260	363250	3794750	1.55E-01	1.61E-02	3.04E-02	6.21E-03	3.04E-02	6.21E-03	1.91E-01	9.51E-02	4.14E-01	2.30E-01	4.62E-03
3261	363500	3794750	1.45E-01	1.54E-02	2.74E-02	5.93E-03	2.74E-02	5.93E-03	1.77E-01	8.87E-02	3.85E-01	2.36E-01	4.31E-03
3262	363750	3794750	1.35E-01	1.48E-02	2.87E-02	5.69E-03	2.87E-02	5.69E-03	1.65E-01	8.36E-02	3.60E-01	2.30E-01	4.02E-03
3263	364000	3794750	1.18E-01	1.43E-02	3.09E-02	5.50E-03	3.09E-02	5.50E-03	1.45E-01	9.08E-02	3.15E-01	2.16E-01	3.52E-03
3264	364250	3794750	1.13E-01	1.39E-02	3.26E-02	5.34E-03	3.26E-02	5.34E-03	1.34E-01	9.62E-02	3.02E-01	2.00E-01	3.37E-03
3265	364500	3794750	1.11E-01	1.36E-02	3.35E-02	5.21E-03	3.35E-02	5.21E-03	1.31E-01	9.96E-02	2.97E-01	2.04E-01	3.32E-03
3266	364750	3794750	1.10E-01	1.33E-02	3.37E-02	5.10E-03	3.37E-02	5.10E-03	1.30E-01	1.01E-01	2.95E-01	2.03E-01	3.29E-03
3267	365000	3794750	1.08E-01	1.31E-02	3.33E-02	5.01E-03	3.33E-02	5.01E-03	1.27E-01	9.98E-02	2.88E-01	1.97E-01	3.22E-03
3268	365250	3794750	1.07E-01	1.28E-02	3.22E-02	4.93E-03	3.22E-02	4.93E-03	1.25E-01	9.69E-02	2.84E-01	1.89E-01	3.17E-03
3269	356750	3795000	1.57E-01	6.96E-03	4.84E-02	2.72E-03	4.84E-02	2.72E-03	1.92E-01	1.60E-01	4.17E-01	3.56E-01	4.66E-03
3270	357000	3795000	1.61E-01	7.27E-03	5.19E-02	2.84E-03	5.19E-02	2.84E-03	1.98E-01	1.71E-01	4.29E-01	3.78E-01	4.79E-03
3271	357250	3795000	1.72E-01	7.63E-03	5.22E-02	2.98E-03	5.22E-02	2.98E-03	2.11E-01	1.72E-01	4.58E-01	3.74E-01	5.11E-03
3272	357500	3795000	1.75E-01	8.05E-03	4.88E-02	3.14E-03	4.88E-02	3.14E-03	2.15E-01	1.61E-01	4.66E-01	3.43E-01	5.21E-03
3273	357750	3795000	1.78E-01	8.52E-03	4.55E-02	3.32E-03	4.55E-02	3.32E-03	2.20E-01	1.49E-01	4.76E-01	3.55E-01	5.32E-03
3274	358000	3795000	1.83E-01	9.05E-03	4.89E-02	3.52E-03	4.89E-02	3.52E-03	2.26E-01	1.60E-01	4.88E-01	3.67E-01	5.45E-03
3275	358250	3795000	1.89E-01	9.66E-03	5.30E-02	3.75E-03	5.30E-02	3.75E-03	2.33E-01	1.72E-01	5.04E-01	4.06E-01	5.64E-03
3276	358500	3795000	1.93E-01	1.04E-02	5.58E-02	4.03E-03	5.58E-02	4.03E-03	2.39E-01	1.82E-01	5.16E-01	4.53E-01	5.76E-03
3277	358750	3795000	1.97E-01	1.17E-02	5.80E-02	4.53E-03	5.80E-02	4.53E-03	2.43E-01	1.92E-01	5.26E-01	4.59E-01	5.88E-03
3278	359000	3795000	1.97E-01	1.34E-02	5.95E-02	5.19E-03	5.95E-02	5.19E-03	2.43E-01	1.97E-01	5.25E-01	4.33E-01	5.87E-03
3279	359250	3795000	2.00E-01	1.55E-02	5.88E-02	6.00E-03	5.88E-02	6.00E-03	2.47E-01	1.92E-01	5.34E-01	3.96E-01	5.97E-03
3280	359500	3795000	2.03E-01	1.78E-02	6.40E-02	6.91E-03	6.40E-02	6.91E-03	2.51E-01	2.06E-01	5.42E-01	3.64E-01	6.05E-03
3281	359750	3795000	2.04E-01	2.01E-02	7.93E-02	7.83E-03	7.93E-02	7.83E-03	2.52E-01	2.60E-01	5.45E-01	3.85E-01	6.09E-03
3282	360000	3795000	2.06E-01	2.21E-02	8.94E-02	8.65E-03	8.94E-02	8.65E-03	2.54E-01	2.98E-01	5.49E-01	4.37E-01	6.14E-03
3283	360250	3795000	2.02E-01	2.42E-02	9.64E-02	9.49E-03	9.64E-02	9.49E-03	2.50E-01	3.20E-01	5.39E-01	4.85E-01	6.03E-03
3284	360500	3795000	2.00E-01	2.60E-02	1.05E-01	1.02E-02	1.05E-01	1.02E-02	2.47E-01	3.50E-01	5.35E-01	4.75E-01	5.97E-03
3285	360750	3795000	1.99E-01	2.71E-02	1.05E-01	1.05E-02	1.05E-01	1.05E-02	2.45E-01	3.49E-01	5.30E-01	4.90E-01	5.92E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3286	361000	3795000	1.98E-01	2.73E-02	9.51E-02	1.05E-02	9.51E-02	1.05E-02	2.45E-01	3.14E-01	5.29E-01	4.54E-01	5.91E-03
3287	361250	3795000	1.95E-01	2.64E-02	7.72E-02	1.01E-02	7.72E-02	1.01E-02	2.41E-01	2.51E-01	5.21E-01	4.19E-01	5.82E-03
3288	361500	3795000	1.93E-01	2.47E-02	7.27E-02	9.39E-03	7.27E-02	9.39E-03	2.38E-01	2.39E-01	5.15E-01	3.75E-01	5.75E-03
3289	361750	3795000	1.84E-01	2.26E-02	6.50E-02	8.60E-03	6.50E-02	8.60E-03	2.27E-01	2.13E-01	4.91E-01	3.63E-01	5.48E-03
3290	362000	3795000	1.85E-01	2.13E-02	5.27E-02	8.16E-03	5.27E-02	8.16E-03	2.29E-01	1.73E-01	4.94E-01	3.64E-01	5.52E-03
3291	362250	3795000	1.73E-01	2.01E-02	5.11E-02	7.75E-03	5.11E-02	7.75E-03	2.13E-01	1.68E-01	4.62E-01	3.34E-01	5.16E-03
3292	362500	3795000	1.69E-01	1.91E-02	4.62E-02	7.34E-03	4.62E-02	7.34E-03	2.09E-01	1.52E-01	4.52E-01	2.88E-01	5.05E-03
3293	362750	3795000	1.68E-01	1.80E-02	3.84E-02	6.95E-03	3.84E-02	6.95E-03	2.07E-01	1.27E-01	4.48E-01	2.58E-01	5.01E-03
3294	363000	3795000	1.67E-01	1.71E-02	3.25E-02	6.59E-03	3.25E-02	6.59E-03	2.05E-01	1.02E-01	4.44E-01	2.31E-01	4.96E-03
3295	363250	3795000	1.59E-01	1.63E-02	2.97E-02	6.28E-03	2.97E-02	6.28E-03	1.96E-01	9.48E-02	4.24E-01	2.44E-01	4.74E-03
3296	363500	3795000	1.47E-01	1.56E-02	2.88E-02	6.01E-03	2.88E-02	6.01E-03	1.80E-01	8.84E-02	3.91E-01	2.43E-01	4.37E-03
3297	363750	3795000	1.31E-01	1.50E-02	3.14E-02	5.79E-03	3.14E-02	5.79E-03	1.60E-01	9.23E-02	3.49E-01	2.31E-01	3.90E-03
3298	364000	3795000	1.16E-01	1.46E-02	3.33E-02	5.61E-03	3.33E-02	5.61E-03	1.37E-01	9.88E-02	3.09E-01	2.12E-01	3.45E-03
3299	364250	3795000	1.14E-01	1.42E-02	3.45E-02	5.46E-03	3.45E-02	5.46E-03	1.35E-01	1.03E-01	3.04E-01	2.12E-01	3.40E-03
3300	364500	3795000	1.13E-01	1.39E-02	3.49E-02	5.34E-03	3.49E-02	5.34E-03	1.34E-01	1.05E-01	3.03E-01	2.12E-01	3.38E-03
3301	364750	3795000	1.11E-01	1.36E-02	3.45E-02	5.24E-03	3.45E-02	5.24E-03	1.31E-01	1.04E-01	2.96E-01	2.07E-01	3.31E-03
3302	365000	3795000	1.10E-01	1.34E-02	3.35E-02	5.15E-03	3.35E-02	5.15E-03	1.29E-01	1.01E-01	2.92E-01	1.98E-01	3.27E-03
3303	365250	3795000	1.09E-01	1.32E-02	3.19E-02	5.07E-03	3.19E-02	5.07E-03	1.28E-01	9.66E-02	2.91E-01	1.86E-01	3.25E-03
3304	365500	3795000	1.07E-01	1.30E-02	2.99E-02	4.99E-03	2.99E-02	4.99E-03	1.26E-01	9.06E-02	2.85E-01	1.71E-01	3.18E-03
3305	356250	3795250	1.50E-01	6.52E-03	3.36E-02	2.55E-03	3.36E-02	2.55E-03	1.85E-01	1.08E-01	4.01E-01	2.89E-01	4.48E-03
3306	356500	3795250	1.48E-01	6.77E-03	4.03E-02	2.65E-03	4.03E-02	2.65E-03	1.82E-01	1.33E-01	3.95E-01	3.00E-01	4.41E-03
3307	356750	3795250	1.57E-01	7.05E-03	4.77E-02	2.75E-03	4.77E-02	2.75E-03	1.93E-01	1.57E-01	4.19E-01	3.51E-01	4.69E-03
3308	357000	3795250	1.69E-01	7.36E-03	5.33E-02	2.87E-03	5.33E-02	2.87E-03	2.08E-01	1.76E-01	4.50E-01	3.89E-01	5.03E-03
3309	357250	3795250	1.76E-01	7.71E-03	5.58E-02	3.01E-03	5.58E-02	3.01E-03	2.17E-01	1.84E-01	4.70E-01	4.03E-01	5.25E-03
3310	357500	3795250	1.85E-01	8.13E-03	5.42E-02	3.17E-03	5.42E-02	3.17E-03	2.28E-01	1.79E-01	4.94E-01	3.85E-01	5.52E-03
3311	357750	3795250	1.88E-01	8.61E-03	4.86E-02	3.35E-03	4.86E-02	3.35E-03	2.32E-01	1.60E-01	5.01E-01	3.60E-01	5.60E-03
3312	358000	3795250	1.91E-01	9.16E-03	5.00E-02	3.56E-03	5.00E-02	3.56E-03	2.35E-01	1.64E-01	5.08E-01	3.84E-01	5.68E-03
3313	358250	3795250	2.01E-01	9.79E-03	5.46E-02	3.80E-03	5.46E-02	3.80E-03	2.49E-01	1.77E-01	5.37E-01	4.04E-01	6.00E-03
3314	358500	3795250	2.04E-01	1.05E-02	5.87E-02	4.09E-03	5.87E-02	4.09E-03	2.52E-01	1.92E-01	5.45E-01	4.69E-01	6.09E-03
3315	358750	3795250	2.08E-01	1.18E-02	6.05E-02	4.57E-03	6.05E-02	4.57E-03	2.57E-01	2.00E-01	5.54E-01	4.91E-01	6.19E-03
3316	359000	3795250	2.10E-01	1.36E-02	6.31E-02	5.25E-03	6.31E-02	5.25E-03	2.59E-01	2.10E-01	5.59E-01	4.63E-01	6.24E-03
3317	359250	3795250	2.11E-01	1.58E-02	6.13E-02	6.10E-03	6.13E-02	6.10E-03	2.61E-01	2.03E-01	5.62E-01	4.33E-01	6.28E-03
3318	359500	3795250	2.17E-01	1.83E-02	6.56E-02	7.07E-03	6.56E-02	7.07E-03	2.68E-01	2.11E-01	5.78E-01	3.72E-01	6.46E-03
3319	359750	3795250	2.17E-01	2.07E-02	8.23E-02	8.07E-03	8.23E-02	8.07E-03	2.68E-01	2.70E-01	5.77E-01	3.98E-01	6.45E-03
3320	360000	3795250	2.19E-01	2.29E-02	9.34E-02	8.95E-03	9.34E-02	8.95E-03	2.70E-01	3.12E-01	5.83E-01	4.61E-01	6.51E-03
3321	360250	3795250	2.15E-01	2.50E-02	1.02E-01	9.83E-03	1.02E-01	9.83E-03	2.66E-01	3.38E-01	5.73E-01	5.15E-01	6.41E-03
3322	360500	3795250	2.13E-01	2.69E-02	1.10E-01	1.06E-02	1.10E-01	1.06E-02	2.63E-01	3.71E-01	5.68E-01	5.02E-01	6.34E-03
3323	360750	3795250	2.11E-01	2.81E-02	1.10E-01	1.09E-02	1.10E-01	1.09E-02	2.61E-01	3.67E-01	5.63E-01	5.16E-01	6.30E-03
3324	361000	3795250	2.10E-01	2.82E-02	9.89E-02	1.09E-02	9.89E-02	1.09E-02	2.59E-01	3.26E-01	5.59E-01	4.70E-01	6.24E-03
3325	361250	3795250	2.07E-01	2.72E-02	7.86E-02	1.04E-02	7.86E-02	1.04E-02	2.56E-01	2.55E-01	5.52E-01	4.30E-01	6.17E-03
3326	361500	3795250	2.02E-01	2.52E-02	7.43E-02	9.59E-03	7.43E-02	9.59E-03	2.50E-01	2.45E-01	5.40E-01	3.73E-01	6.03E-03
3327	361750	3795250	1.98E-01	2.29E-02	6.46E-02	8.76E-03	6.46E-02	8.76E-03	2.44E-01	2.12E-01	5.27E-01	3.82E-01	5.89E-03
3328	362000	3795250	1.94E-01	2.17E-02	5.51E-02	8.32E-03	5.51E-02	8.32E-03	2.39E-01	1.81E-01	5.17E-01	3.70E-01	5.77E-03
3329	362250	3795250	1.85E-01	2.05E-02	5.26E-02	7.87E-03	5.26E-02	7.87E-03	2.29E-01	1.73E-01	4.94E-01	3.29E-01	5.52E-03
3330	362500	3795250	1.78E-01	1.93E-02	4.55E-02	7.43E-03	4.55E-02	7.43E-03	2.19E-01	1.50E-01	4.75E-01	2.87E-01	5.31E-03
3331	362750	3795250	1.76E-01	1.82E-02	3.62E-02	7.03E-03	3.62E-02	7.03E-03	2.17E-01	1.20E-01	4.69E-01	2.47E-01	5.24E-03
3332	363000	3795250	1.75E-01	1.73E-02	3.21E-02	6.67E-03	3.21E-02	6.67E-03	2.15E-01	1.01E-01	4.66E-01	2.49E-01	5.20E-03
3333	363250	3795250	1.59E-01	1.65E-02	2.93E-02	6.36E-03	2.93E-02	6.36E-03	1.96E-01	9.52E-02	4.25E-01	2.55E-01	4.75E-03
3334	363500	3795250	1.44E-01	1.58E-02	3.16E-02	6.10E-03	3.16E-02	6.10E-03	1.77E-01	9.34E-02	3.85E-01	2.46E-01	4.30E-03
3335	363750	3795250	1.22E-01	1.53E-02	3.40E-02	5.89E-03	3.40E-02	5.89E-03	1.50E-01	1.01E-01	3.26E-01	2.28E-01	3.65E-03
3336	364000	3795250	1.18E-01	1.49E-02	3.54E-02	5.73E-03	3.54E-02	5.73E-03	1.40E-01	1.06E-01	3.14E-01	2.20E-01	3.51E-03
3337	364250	3795250	1.17E-01	1.46E-02	3.60E-02	5.59E-03	3.60E-02	5.59E-03	1.38E-01	1.09E-01	3.11E-01	2.21E-01	3.47E-03
3338	364500	3795250	1.14E-01	1.43E-02	3.58E-02	5.48E-03	3.58E-02	5.48E-03	1.35E-01	1.08E-01	3.04E-01	2.17E-01	3.40E-03
3339	364750	3795250	1.13E-01	1.40E-02	3.47E-02	5.39E-03	3.47E-02	5.39E-03	1.33E-01	1.06E-01	3.01E-01	2.08E-01	3.36E-03
3340	365000	3795250	1.12E-01	1.38E-02	3.31E-02	5.30E-03	3.31E-02	5.30E-03	1.32E-01	1.01E-01	2.99E-01	1.95E-01	3.34E-03
3341	365250	3795250	1.10E-01	1.36E-02	3.09E-02	5.22E-03	3.09E-02	5.22E-03	1.30E-01	9.44E-02	2.93E-01	1.80E-01	3.27E-03
3342	365500	3795250	1.09E-01	1.34E-02	2.85E-02	5.14E-03	2.85E-02	5.14E-03	1.28E-01	8.69E-02	2.91E-01	1.72E-01	3.25E-03
3343	365750	3795250	1.07E-01	1.32E-02	2.61E-02	5.06E-03	2.61E-02	5.06E-03	1.26E-01	7.89E-02	2.86E-01	1.74E-01	3.19E-03
3344	356000	3795500	1.46E-01	6.33E-03	3.53E-02	2.48E-03	3.53E-02	2.48E-03	1.80E-01	1.15E-01	3.90E-01	3.20E-01	4.36E-03
3345	356250	3795500	1.57E-01	6.59E-03	3.55E-02	2.58E-03	3.55E-02	2.58E-03	1.93E-01	1.15E-01	4.18E-01	3.15E-01	4.67E-03
3346	356500	3795500	1.59E-01	6.85E-03	3.67E-02	2.68E-03	3.67E-02	2.68E-03	1.95E-01	1.22E-01	4.24E-01	2.95E-01	4.74E-03
3347	356750	3795500	1.58E-01	7.14E-03	4.55E-02	2.79E-03	4.55E-02	2.79E-03	1.94E-01	1.50E-01	4.20E-01	3.37E-01	4.69E-03
3348	357000	3795500	1.73E-01	7.45E-03	5.33E-02	2.91E-03	5.33E-02	2.91E-03	2.13E-01	1.76E-01	4.61E-01	3.90E-01	5.15E-03
3349	357250	3795500	1.82E-01	7.80E-03	5.85E-02	3.05E-03	5.85E-02	3.05E-03	2.24E-01	1.93E-01	4.85E-01	4.23E-01	5.42E-03
3350	357500	3795500	1.91E-01	8.22E-03	5.93E-02	3.21E-03	5.93E-02	3.21E-03	2.36E-01	1.96E-01	5.10E-01	4.24E-01	5.69E-03
3351	357750	3795500	1.96E-01	8.70E-03	5.52E-02	3.39E-03	5.52E-02	3.39E-03	2.42E-01	1.82E-01	5.22E-01	3.87E-01	5.84E-03
3352	358000	3795500	2.04E-01	9.26E-03	5.07E-02	3.61E-03	5.07E-02	3.61E-03	2.53E-01	1.66E-01	5.45E-01	3.97E-01	6.09E-03
3353	358250	3795500	2.11E-01	9.91E-03	5.55E-02	3.85E-03	5.55E-02	3.85E-03	2.61E-01	1.80E-01	5.63E-01	4.06E-01	6.29E-03
3354	358500	3795500	2.14E-01	1.07E-02	6.16E-02	4.14E-03	6.16E-02	4.14E-03	2.64E-01	2.01E-01	5.70E-01	4.79E-01	6.37E-03
3355	358750	3795500	2.20E-01	1.18E-02	6.31E-02	4.60E-03	6.31E-02	4.60E-03	2.72E-01	2.07E-01	5.86E-01	5.21E-01	6.55E-03
3356	359000	3795500	2.23E-01	1.37E-02	6.70E-02	5.30E-03	6.70E-02	5.30E-03	2.76E-01	2.23E-01	5.94E-01	5.02E-01	6.64E-03
3357	359250	3795500	2.22E-01	1.60E-02	6.54E-02	6.19E-03	6.54E-02	6.19E-03	2.74E-01	2.19E-01	5.91E-01	4.74E-01	6.60E-03
3358	359500	3795500	2.32E-01	1.87E-02	6.70E-02	7.23E-03	6.70E-02	7.23E-03	2.87E-01	2.16E-01	6.17E-01	3.95E-01	6.90E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3359	359750	3795500	2.31E-01	2.14E-02	8.54E-02	8.31E-03	8.54E-02	8.31E-03	2.86E-01	2.81E-01	6.17E-01	4.10E-01	6.89E-03
3360	360000	3795500	2.32E-01	2.37E-02	9.75E-02	9.26E-03	9.75E-02	9.26E-03	2.87E-01	3.27E-01	6.19E-01	4.86E-01	6.92E-03
3361	360250	3795500	2.29E-01	2.59E-02	1.07E-01	1.02E-02	1.07E-01	1.02E-02	2.83E-01	3.58E-01	6.11E-01	5.48E-01	6.82E-03
3362	360500	3795500	2.26E-01	2.78E-02	1.16E-01	1.10E-02	1.16E-01	1.10E-02	2.80E-01	3.93E-01	6.04E-01	5.31E-01	6.75E-03
3363	360750	3795500	2.26E-01	2.90E-02	1.15E-01	1.13E-02	1.15E-01	1.13E-02	2.79E-01	3.87E-01	6.01E-01	5.44E-01	6.72E-03
3364	361000	3795500	2.22E-01	2.92E-02	1.03E-01	1.12E-02	1.03E-01	1.12E-02	2.75E-01	3.38E-01	5.93E-01	4.84E-01	6.62E-03
3365	361250	3795500	2.19E-01	2.80E-02	8.00E-02	1.07E-02	8.00E-02	1.07E-02	2.71E-01	2.65E-01	5.84E-01	4.39E-01	6.52E-03
3366	361500	3795500	2.12E-01	2.57E-02	7.57E-02	9.76E-03	7.57E-02	9.76E-03	2.62E-01	2.50E-01	5.66E-01	3.81E-01	6.32E-03
3367	361750	3795500	2.13E-01	2.34E-02	6.35E-02	8.96E-03	6.35E-02	8.96E-03	2.63E-01	2.09E-01	5.68E-01	3.97E-01	6.34E-03
3368	362000	3795500	2.00E-01	2.20E-02	5.84E-02	8.46E-03	5.84E-02	8.46E-03	2.47E-01	1.92E-01	5.34E-01	3.72E-01	5.97E-03
3369	362250	3795500	1.96E-01	2.07E-02	5.33E-02	7.97E-03	5.33E-02	7.97E-03	2.42E-01	1.76E-01	5.22E-01	3.17E-01	5.83E-03
3370	362500	3795500	1.88E-01	1.95E-02	4.38E-02	7.51E-03	4.38E-02	7.51E-03	2.31E-01	1.45E-01	5.01E-01	2.80E-01	5.59E-03
3371	362750	3795500	1.89E-01	1.84E-02	3.45E-02	7.10E-03	3.45E-02	7.10E-03	2.33E-01	1.11E-01	5.04E-01	2.49E-01	5.63E-03
3372	363000	3795500	1.78E-01	1.75E-02	3.15E-02	6.74E-03	3.15E-02	6.74E-03	2.20E-01	1.02E-01	4.76E-01	2.64E-01	5.32E-03
3373	363250	3795500	1.58E-01	1.67E-02	3.17E-02	6.44E-03	3.17E-02	6.44E-03	1.95E-01	9.42E-02	4.22E-01	2.61E-01	4.72E-03
3374	363500	3795500	1.37E-01	1.61E-02	3.45E-02	6.20E-03	3.45E-02	6.20E-03	1.68E-01	1.03E-01	3.65E-01	2.45E-01	4.08E-03
3375	363750	3795500	1.21E-01	1.56E-02	3.63E-02	6.01E-03	3.63E-02	6.01E-03	1.44E-01	1.09E-01	3.23E-01	2.27E-01	3.61E-03
3376	364000	3795500	1.20E-01	1.53E-02	3.72E-02	5.86E-03	3.72E-02	5.86E-03	1.42E-01	1.13E-01	3.20E-01	2.31E-01	3.57E-03
3377	364250	3795500	1.18E-01	1.50E-02	3.70E-02	5.74E-03	3.70E-02	5.74E-03	1.40E-01	1.13E-01	3.14E-01	2.27E-01	3.51E-03
3378	364500	3795500	1.16E-01	1.47E-02	3.60E-02	5.64E-03	3.60E-02	5.64E-03	1.38E-01	1.10E-01	3.10E-01	2.18E-01	3.46E-03
3379	364750	3795500	1.15E-01	1.44E-02	3.43E-02	5.54E-03	3.43E-02	5.54E-03	1.37E-01	1.05E-01	3.08E-01	2.05E-01	3.44E-03
3380	365000	3795500	1.13E-01	1.42E-02	3.20E-02	5.46E-03	3.20E-02	5.46E-03	1.34E-01	9.84E-02	3.01E-01	1.88E-01	3.37E-03
3381	365250	3795500	1.12E-01	1.40E-02	2.94E-02	5.37E-03	2.94E-02	5.37E-03	1.33E-01	9.04E-02	2.99E-01	1.78E-01	3.35E-03
3382	365500	3795500	1.10E-01	1.38E-02	2.70E-02	5.29E-03	2.70E-02	5.29E-03	1.30E-01	8.17E-02	2.95E-01	1.80E-01	3.29E-03
3383	365750	3795500	1.09E-01	1.36E-02	2.69E-02	5.23E-03	2.69E-02	5.23E-03	1.29E-01	8.06E-02	2.91E-01	1.77E-01	3.26E-03
3384	366000	3795500	1.07E-01	1.35E-02	2.65E-02	5.16E-03	2.65E-02	5.16E-03	1.26E-01	7.94E-02	2.85E-01	1.76E-01	3.19E-03
3385	355750	3795750	1.49E-01	6.12E-03	3.31E-02	2.39E-03	3.31E-02	2.39E-03	1.83E-01	1.08E-01	3.97E-01	3.01E-01	4.44E-03
3386	356000	3795750	1.55E-01	6.37E-03	3.55E-02	2.49E-03	3.55E-02	2.49E-03	1.90E-01	1.16E-01	4.12E-01	3.24E-01	4.61E-03
3387	356250	3795750	1.60E-01	6.64E-03	3.68E-02	2.60E-03	3.68E-02	2.60E-03	1.97E-01	1.20E-01	4.26E-01	3.32E-01	4.76E-03
3388	356500	3795750	1.70E-01	6.92E-03	3.68E-02	2.71E-03	3.68E-02	2.71E-03	2.10E-01	1.19E-01	4.54E-01	3.24E-01	5.07E-03
3389	356750	3795750	1.70E-01	7.22E-03	4.17E-02	2.82E-03	4.17E-02	2.82E-03	2.09E-01	1.38E-01	4.52E-01	3.11E-01	5.05E-03
3390	357000	3795750	1.72E-01	7.54E-03	5.15E-02	2.95E-03	5.15E-02	2.95E-03	2.12E-01	1.70E-01	4.58E-01	3.78E-01	5.11E-03
3391	357250	3795750	1.90E-01	7.90E-03	5.96E-02	3.08E-03	5.96E-02	3.08E-03	2.35E-01	1.97E-01	5.08E-01	4.32E-01	5.67E-03
3392	357500	3795750	1.97E-01	8.31E-03	6.37E-02	3.24E-03	6.37E-02	3.24E-03	2.43E-01	2.10E-01	5.26E-01	4.55E-01	5.88E-03
3393	357750	3795750	2.08E-01	8.79E-03	6.20E-02	3.43E-03	6.20E-02	3.43E-03	2.57E-01	2.05E-01	5.55E-01	4.38E-01	6.20E-03
3394	358000	3795750	2.17E-01	9.36E-03	5.45E-02	3.65E-03	5.45E-02	3.65E-03	2.68E-01	1.81E-01	5.78E-01	4.03E-01	6.46E-03
3395	358250	3795750	2.16E-01	1.00E-02	5.58E-02	3.90E-03	5.58E-02	3.90E-03	2.68E-01	1.84E-01	5.77E-01	4.29E-01	6.45E-03
3396	358500	3795750	2.30E-01	1.08E-02	6.40E-02	4.20E-03	6.40E-02	4.20E-03	2.85E-01	2.08E-01	6.13E-01	4.82E-01	6.86E-03
3397	358750	3795750	2.35E-01	1.19E-02	6.74E-02	4.62E-03	6.74E-02	4.62E-03	2.91E-01	2.21E-01	6.26E-01	5.49E-01	7.00E-03
3398	359000	3795750	2.39E-01	1.38E-02	7.12E-02	5.35E-03	7.12E-02	5.35E-03	2.96E-01	2.37E-01	6.38E-01	5.48E-01	7.13E-03
3399	359250	3795750	2.40E-01	1.63E-02	7.02E-02	6.29E-03	7.02E-02	6.29E-03	2.97E-01	2.35E-01	6.39E-01	5.17E-01	7.14E-03
3400	359500	3795750	2.47E-01	1.91E-02	6.84E-02	7.39E-03	6.84E-02	7.39E-03	3.06E-01	2.26E-01	6.58E-01	4.40E-01	7.36E-03
3401	359750	3795750	2.48E-01	2.20E-02	8.86E-02	8.55E-03	8.86E-02	8.55E-03	3.07E-01	2.91E-01	6.60E-01	4.21E-01	7.38E-03
3402	360000	3795750	2.47E-01	2.45E-02	1.02E-01	9.58E-03	1.02E-01	9.58E-03	3.06E-01	3.43E-01	6.59E-01	5.14E-01	7.37E-03
3403	360250	3795750	2.44E-01	2.67E-02	1.13E-01	1.06E-02	1.13E-01	1.06E-02	3.03E-01	3.80E-01	6.51E-01	5.85E-01	7.28E-03
3404	360500	3795750	2.42E-01	2.88E-02	1.23E-01	1.14E-02	1.23E-01	1.14E-02	3.00E-01	4.16E-01	6.45E-01	5.62E-01	7.21E-03
3405	360750	3795750	2.42E-01	3.00E-02	1.21E-01	1.17E-02	1.21E-01	1.17E-02	2.99E-01	4.07E-01	6.44E-01	5.73E-01	7.20E-03
3406	361000	3795750	2.37E-01	3.02E-02	1.07E-01	1.16E-02	1.07E-01	1.16E-02	2.93E-01	3.50E-01	6.32E-01	4.95E-01	7.06E-03
3407	361250	3795750	2.35E-01	2.88E-02	8.28E-02	1.09E-02	8.28E-02	1.09E-02	2.90E-01	2.75E-01	6.26E-01	4.43E-01	6.99E-03
3408	361500	3795750	2.25E-01	2.62E-02	7.65E-02	9.92E-03	7.65E-02	9.92E-03	2.78E-01	2.52E-01	6.00E-01	4.06E-01	6.71E-03
3409	361750	3795750	2.27E-01	2.39E-02	6.21E-02	9.14E-03	6.21E-02	9.14E-03	2.80E-01	2.05E-01	6.04E-01	4.08E-01	6.75E-03
3410	362000	3795750	2.13E-01	2.24E-02	6.10E-02	8.59E-03	6.10E-02	8.59E-03	2.64E-01	2.01E-01	5.69E-01	3.66E-01	6.36E-03
3411	362250	3795750	2.07E-01	2.09E-02	5.28E-02	8.06E-03	5.28E-02	8.06E-03	2.55E-01	1.75E-01	5.51E-01	3.12E-01	6.15E-03
3412	362500	3795750	2.00E-01	1.97E-02	4.10E-02	7.58E-03	4.10E-02	7.58E-03	2.47E-01	1.36E-01	5.34E-01	2.66E-01	5.97E-03
3413	362750	3795750	1.98E-01	1.86E-02	3.38E-02	7.17E-03	3.38E-02	7.17E-03	2.44E-01	1.09E-01	5.28E-01	2.69E-01	5.90E-03
3414	363000	3795750	1.77E-01	1.77E-02	3.15E-02	6.82E-03	3.15E-02	6.82E-03	2.18E-01	1.02E-01	4.71E-01	2.74E-01	5.27E-03
3415	363250	3795750	1.53E-01	1.70E-02	3.48E-02	6.54E-03	3.48E-02	6.54E-03	1.88E-01	1.04E-01	4.07E-01	2.62E-01	4.55E-03
3416	363500	3795750	1.25E-01	1.64E-02	3.71E-02	6.32E-03	3.71E-02	6.32E-03	1.53E-01	1.12E-01	3.34E-01	2.39E-01	3.74E-03
3417	363750	3795750	1.23E-01	1.60E-02	3.82E-02	6.15E-03	3.82E-02	6.15E-03	1.47E-01	1.16E-01	3.27E-01	2.40E-01	3.65E-03
3418	364000	3795750	1.21E-01	1.57E-02	3.83E-02	6.02E-03	3.83E-02	6.02E-03	1.44E-01	1.17E-01	3.23E-01	2.38E-01	3.61E-03
3419	364250	3795750	1.20E-01	1.54E-02	3.74E-02	5.90E-03	3.74E-02	5.90E-03	1.42E-01	1.15E-01	3.19E-01	2.29E-01	3.56E-03
3420	364500	3795750	1.18E-01	1.51E-02	3.56E-02	5.80E-03	3.56E-02	5.80E-03	1.41E-01	1.10E-01	3.16E-01	2.15E-01	3.53E-03
3421	364750	3795750	1.16E-01	1.49E-02	3.32E-02	5.71E-03	3.32E-02	5.71E-03	1.38E-01	1.03E-01	3.10E-01	1.98E-01	3.47E-03
3422	365000	3795750	1.15E-01	1.46E-02	3.04E-02	5.62E-03	3.04E-02	5.62E-03	1.37E-01	9.40E-02	3.08E-01	1.85E-01	3.44E-03
3423	365250	3795750	1.14E-01	1.44E-02	2.79E-02	5.53E-03	2.79E-02	5.53E-03	1.34E-01	8.46E-02	3.03E-01	1.87E-01	3.39E-03
3424	365500	3795750	1.12E-01	1.43E-02	2.78E-02	5.47E-03	2.78E-02	5.47E-03	1.33E-01	8.38E-02	3.00E-01	1.84E-01	3.35E-03
3425	365750	3795750	1.10E-01	1.41E-02	2.73E-02	5.40E-03	2.73E-02	5.40E-03	1.30E-01	8.24E-02	2.94E-01	1.83E-01	3.28E-03
3426	366000	3795750	1.09E-01	1.39E-02	2.67E-02	5.32E-03	2.67E-02	5.32E-03	1.28E-01	8.03E-02	2.90E-01	1.81E-01	3.24E-03
3427	355500	3796000	1.44E-01	5.93E-03	2.71E-02	2.32E-03	2.71E-02	2.32E-03	1.76E-01	8.89E-02	3.83E-01	2.40E-01	4.28E-03
3428	355750	3796000	1.45E-01	6.15E-03	3.10E-02	2.40E-03	3.10E-02	2.40E-03	1.78E-01	1.02E-01	3.86E-01	2.80E-01	4.31E-03
3429	356000	3796000	1.58E-01	6.40E-03	3.44E-02	2.50E-03	3.44E-02	2.50E-03	1.95E-01	1.13E-01	4.22E-01	3.14E-01	4.72E-03
3430	356250	3796000	1.64E-01	6.67E-03	3.70E-02	2.61E-03	3.70E-02	2.61E-03	2.02E-01	1.21E-01	4.37E-01	3.38E-01	4.88E-03
3431	356500	3796000	1.75E-01	6.97E-03	3.83E-02	2.73E-03	3.83E-02	2.73E-03	2.16E-01	1.25E-01	4.67E-01	3.45E-01	5.22E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3432	356750	3796000	1.85E-01	7.29E-03	3.80E-02	2.85E-03	3.80E-02	2.85E-03	2.28E-01	1.23E-01	4.93E-01	3.32E-01	5.51E-03
3433	357000	3796000	1.81E-01	7.62E-03	4.77E-02	2.98E-03	4.77E-02	2.98E-03	2.23E-01	1.58E-01	4.82E-01	3.53E-01	5.39E-03
3434	357250	3796000	1.93E-01	7.99E-03	5.85E-02	3.12E-03	5.85E-02	3.12E-03	2.38E-01	1.94E-01	5.13E-01	4.25E-01	5.74E-03
3435	357500	3796000	2.08E-01	8.40E-03	6.64E-02	3.28E-03	6.64E-02	3.28E-03	2.57E-01	2.19E-01	5.55E-01	4.75E-01	6.20E-03
3436	357750	3796000	2.14E-01	8.88E-03	6.84E-02	3.47E-03	6.84E-02	3.47E-03	2.64E-01	2.26E-01	5.69E-01	4.84E-01	6.36E-03
3437	358000	3796000	2.23E-01	9.45E-03	6.31E-02	3.68E-03	6.31E-02	3.68E-03	2.77E-01	2.09E-01	5.96E-01	4.40E-01	6.66E-03
3438	358250	3796000	2.37E-01	1.01E-02	5.68E-02	3.94E-03	5.68E-02	3.94E-03	2.94E-01	1.87E-01	6.32E-01	4.45E-01	7.06E-03
3439	358500	3796000	2.45E-01	1.09E-02	6.57E-02	4.25E-03	6.57E-02	4.25E-03	3.03E-01	2.13E-01	6.53E-01	4.74E-01	7.30E-03
3440	358750	3796000	2.50E-01	1.20E-02	7.17E-02	4.64E-03	7.17E-02	4.64E-03	3.10E-01	2.35E-01	6.66E-01	5.70E-01	7.44E-03
3441	359000	3796000	2.56E-01	1.39E-02	7.55E-02	5.39E-03	7.55E-02	5.39E-03	3.17E-01	2.50E-01	6.83E-01	5.94E-01	7.63E-03
3442	359250	3796000	2.60E-01	1.65E-02	7.57E-02	6.37E-03	7.57E-02	6.37E-03	3.23E-01	2.54E-01	6.94E-01	5.63E-01	7.75E-03
3443	359500	3796000	2.63E-01	1.95E-02	7.13E-02	7.55E-03	7.13E-02	7.55E-03	3.26E-01	2.35E-01	7.00E-01	4.90E-01	7.82E-03
3444	359750	3796000	2.65E-01	2.26E-02	9.20E-02	8.79E-03	9.20E-02	8.79E-03	3.29E-01	3.02E-01	7.08E-01	4.36E-01	7.91E-03
3445	360000	3796000	2.65E-01	2.53E-02	1.07E-01	9.91E-03	1.07E-01	9.91E-03	3.29E-01	3.60E-01	7.06E-01	5.43E-01	7.89E-03
3446	360250	3796000	2.61E-01	2.76E-02	1.19E-01	1.09E-02	1.19E-01	1.09E-02	3.24E-01	4.03E-01	6.97E-01	6.24E-01	7.79E-03
3447	360500	3796000	2.60E-01	2.97E-02	1.29E-01	1.18E-02	1.29E-01	1.18E-02	3.23E-01	4.41E-01	6.94E-01	6.00E-01	7.76E-03
3448	360750	3796000	2.60E-01	3.10E-02	1.27E-01	1.21E-02	1.27E-01	1.21E-02	3.22E-01	4.27E-01	6.92E-01	6.02E-01	7.73E-03
3449	361000	3796000	2.54E-01	3.12E-02	1.11E-01	1.20E-02	1.11E-01	1.20E-02	3.15E-01	3.62E-01	6.77E-01	5.03E-01	7.56E-03
3450	361250	3796000	2.50E-01	2.95E-02	8.54E-02	1.12E-02	8.54E-02	1.12E-02	3.10E-01	2.84E-01	6.67E-01	4.43E-01	7.45E-03
3451	361500	3796000	2.42E-01	2.65E-02	7.65E-02	1.00E-02	7.65E-02	1.00E-02	3.00E-01	2.52E-01	6.46E-01	4.28E-01	7.22E-03
3452	361750	3796000	2.38E-01	2.43E-02	6.72E-02	9.30E-03	6.72E-02	9.30E-03	2.94E-01	2.21E-01	6.34E-01	4.13E-01	7.08E-03
3453	362000	3796000	2.29E-01	2.26E-02	6.27E-02	8.69E-03	6.27E-02	8.69E-03	2.83E-01	2.07E-01	6.10E-01	3.52E-01	6.82E-03
3454	362250	3796000	2.14E-01	2.11E-02	5.08E-02	8.13E-03	5.08E-02	8.13E-03	2.64E-01	1.69E-01	5.70E-01	3.03E-01	6.37E-03
3455	362500	3796000	2.16E-01	1.98E-02	3.70E-02	7.64E-03	3.70E-02	7.64E-03	2.67E-01	1.24E-01	5.76E-01	2.69E-01	6.44E-03
3456	362750	3796000	2.01E-01	1.87E-02	3.36E-02	7.23E-03	3.36E-02	7.23E-03	2.48E-01	1.10E-01	5.36E-01	2.85E-01	5.99E-03
3457	363000	3796000	1.70E-01	1.79E-02	3.48E-02	6.91E-03	3.48E-02	6.91E-03	2.09E-01	1.05E-01	4.52E-01	2.79E-01	5.06E-03
3458	363250	3796000	1.41E-01	1.73E-02	3.76E-02	6.65E-03	3.76E-02	6.65E-03	1.73E-01	1.14E-01	3.75E-01	2.58E-01	4.19E-03
3459	363500	3796000	1.30E-01	1.68E-02	3.92E-02	6.46E-03	3.92E-02	6.46E-03	1.59E-01	1.20E-01	3.47E-01	2.50E-01	3.88E-03
3460	363750	3796000	1.26E-01	1.64E-02	3.95E-02	6.31E-03	3.95E-02	6.31E-03	1.53E-01	1.22E-01	3.35E-01	2.50E-01	3.74E-03
3461	364000	3796000	1.23E-01	1.61E-02	3.87E-02	6.18E-03	3.87E-02	6.18E-03	1.46E-01	1.20E-01	3.27E-01	2.41E-01	3.66E-03
3462	364250	3796000	1.21E-01	1.58E-02	3.69E-02	6.08E-03	3.69E-02	6.08E-03	1.45E-01	1.15E-01	3.24E-01	2.27E-01	3.62E-03
3463	364500	3796000	1.20E-01	1.56E-02	3.43E-02	5.97E-03	3.43E-02	5.97E-03	1.42E-01	1.07E-01	3.19E-01	2.08E-01	3.56E-03
3464	364750	3796000	1.18E-01	1.53E-02	3.14E-02	5.88E-03	3.14E-02	5.88E-03	1.41E-01	9.77E-02	3.16E-01	1.92E-01	3.53E-03
3465	365000	3796000	1.17E-01	1.51E-02	2.89E-02	5.78E-03	2.89E-02	5.78E-03	1.39E-01	8.77E-02	3.12E-01	1.94E-01	3.49E-03
3466	365250	3796000	1.15E-01	1.49E-02	2.87E-02	5.72E-03	2.87E-02	5.72E-03	1.37E-01	8.71E-02	3.08E-01	1.90E-01	3.44E-03
3467	365500	3796000	1.14E-01	1.47E-02	2.82E-02	5.64E-03	2.82E-02	5.64E-03	1.34E-01	8.55E-02	3.03E-01	1.90E-01	3.39E-03
3468	365750	3796000	1.11E-01	1.45E-02	2.74E-02	5.56E-03	2.74E-02	5.56E-03	1.31E-01	8.31E-02	2.97E-01	1.88E-01	3.32E-03
3469	366000	3796000	1.10E-01	1.43E-02	2.64E-02	5.48E-03	2.64E-02	5.48E-03	1.29E-01	8.00E-02	2.92E-01	1.84E-01	3.27E-03
3470	366250	3796000	1.08E-01	1.40E-02	2.53E-02	5.39E-03	2.53E-02	5.39E-03	1.27E-01	7.65E-02	2.88E-01	1.78E-01	3.22E-03
3471	355500	3796250	1.47E-01	5.98E-03	2.35E-02	2.33E-03	2.35E-02	2.33E-03	1.80E-01	7.74E-02	3.91E-01	2.02E-01	4.37E-03
3472	355750	3796250	1.51E-01	6.19E-03	2.78E-02	2.42E-03	2.78E-02	2.42E-03	1.86E-01	9.16E-02	4.04E-01	2.46E-01	4.51E-03
3473	356000	3796250	1.53E-01	6.43E-03	3.21E-02	2.51E-03	3.21E-02	2.51E-03	1.89E-01	1.06E-01	4.09E-01	2.90E-01	4.57E-03
3474	356250	3796250	1.69E-01	6.70E-03	3.58E-02	2.62E-03	3.58E-02	2.62E-03	2.08E-01	1.18E-01	4.50E-01	3.27E-01	5.03E-03
3475	356500	3796250	1.74E-01	7.00E-03	3.86E-02	2.74E-03	3.86E-02	2.74E-03	2.14E-01	1.26E-01	4.64E-01	3.52E-01	5.18E-03
3476	356750	3796250	1.92E-01	7.34E-03	3.98E-02	2.87E-03	3.98E-02	2.87E-03	2.38E-01	1.30E-01	5.13E-01	3.57E-01	5.74E-03
3477	357000	3796250	2.01E-01	7.69E-03	4.21E-02	3.01E-03	4.21E-02	3.01E-03	2.48E-01	1.40E-01	5.36E-01	3.39E-01	5.98E-03
3478	357250	3796250	1.92E-01	8.07E-03	5.50E-02	3.16E-03	5.50E-02	3.16E-03	2.37E-01	1.82E-01	5.12E-01	4.02E-01	5.72E-03
3479	357500	3796250	2.15E-01	8.50E-03	6.66E-02	3.32E-03	6.66E-02	3.32E-03	2.66E-01	2.20E-01	5.75E-01	4.78E-01	6.42E-03
3480	357750	3796250	2.28E-01	8.98E-03	7.35E-02	3.50E-03	7.35E-02	3.50E-03	2.82E-01	2.43E-01	6.08E-01	5.18E-01	6.79E-03
3481	358000	3796250	2.35E-01	9.54E-03	7.21E-02	3.72E-03	7.21E-02	3.72E-03	2.91E-01	2.39E-01	6.27E-01	5.02E-01	7.00E-03
3482	358250	3796250	2.54E-01	1.02E-02	6.18E-02	3.98E-03	6.18E-02	3.98E-03	3.15E-01	2.06E-01	6.77E-01	4.54E-01	7.56E-03
3483	358500	3796250	2.54E-01	1.10E-02	6.63E-02	4.29E-03	6.63E-02	4.29E-03	3.15E-01	2.14E-01	6.78E-01	4.78E-01	7.58E-03
3484	358750	3796250	2.68E-01	1.21E-02	7.55E-02	4.68E-03	7.55E-02	4.68E-03	3.32E-01	2.46E-01	7.14E-01	5.81E-01	7.98E-03
3485	359000	3796250	2.75E-01	1.40E-02	7.96E-02	5.43E-03	7.96E-02	5.43E-03	3.41E-01	2.63E-01	7.32E-01	6.38E-01	8.18E-03
3486	359250	3796250	2.81E-01	1.68E-02	8.19E-02	6.45E-03	8.19E-02	6.45E-03	3.49E-01	2.75E-01	7.49E-01	6.11E-01	8.37E-03
3487	359500	3796250	2.78E-01	2.00E-02	7.47E-02	7.70E-03	7.47E-02	7.70E-03	3.45E-01	2.54E-01	7.41E-01	5.47E-01	8.28E-03
3488	359750	3796250	2.84E-01	2.32E-02	9.54E-02	9.03E-03	9.54E-02	9.03E-03	3.53E-01	3.13E-01	7.58E-01	4.54E-01	8.47E-03
3489	360000	3796250	2.87E-01	2.61E-02	1.12E-01	1.03E-02	1.12E-01	1.03E-02	3.57E-01	3.78E-01	7.66E-01	5.74E-01	8.56E-03
3490	360250	3796250	2.82E-01	2.85E-02	1.26E-01	1.13E-02	1.26E-01	1.13E-02	3.50E-01	4.29E-01	7.52E-01	6.68E-01	8.40E-03
3491	360500	3796250	2.81E-01	3.06E-02	1.36E-01	1.22E-02	1.36E-01	1.22E-02	3.49E-01	4.68E-01	7.49E-01	6.41E-01	8.37E-03
3492	360750	3796250	2.79E-01	3.20E-02	1.33E-01	1.26E-02	1.33E-01	1.26E-02	3.46E-01	4.48E-01	7.43E-01	6.31E-01	8.30E-03
3493	361000	3796250	2.73E-01	3.22E-02	1.14E-01	1.23E-02	1.14E-01	1.23E-02	3.39E-01	3.73E-01	7.29E-01	5.09E-01	8.15E-03
3494	361250	3796250	2.64E-01	3.02E-02	8.78E-02	1.14E-02	8.78E-02	1.14E-02	3.27E-01	2.92E-01	7.04E-01	4.36E-01	7.86E-03
3495	361500	3796250	2.64E-01	2.67E-02	7.56E-02	1.01E-02	7.56E-02	1.01E-02	3.27E-01	2.49E-01	7.04E-01	4.46E-01	7.87E-03
3496	361750	3796250	2.51E-01	2.46E-02	7.20E-02	9.43E-03	7.20E-02	9.43E-03	3.11E-01	2.37E-01	6.68E-01	4.08E-01	7.47E-03
3497	362000	3796250	2.43E-01	2.28E-02	6.27E-02	8.77E-03	6.27E-02	8.77E-03	3.02E-01	2.07E-01	6.49E-01	3.38E-01	7.25E-03
3498	362250	3796250	2.30E-01	2.12E-02	4.71E-02	8.18E-03	4.71E-02	8.18E-03	2.85E-01	1.57E-01	6.13E-01	2.86E-01	6.86E-03
3499	362500	3796250	2.26E-01	1.99E-02	3.61E-02	7.70E-03	3.61E-02	7.70E-03	2.80E-01	1.18E-01	6.03E-01	2.91E-01	6.74E-03
3500	362750	3796250	1.96E-01	1.89E-02	3.45E-02	7.31E-03	3.45E-02	7.31E-03	2.42E-01	1.09E-01	5.22E-01	2.95E-01	5.84E-03
3501	363000	3796250	1.59E-01	1.82E-02	3.79E-02	7.01E-03	3.79E-02	7.01E-03	1.96E-01	1.15E-01	4.24E-01	2.78E-01	4.74E-03
3502	363250	3796250	1.41E-01	1.77E-02	4.00E-02	6.79E-03	4.00E-02	6.79E-03	1.73E-01	1.23E-01	3.76E-01	2.59E-01	4.20E-03
3503	363500	3796250	1.36E-01	1.72E-02	4.07E-02	6.62E-03	4.07E-02	6.62E-03	1.67E-01	1.26E-01	3.64E-01	2.61E-01	4.07E-03
3504	363750	3796250	1.31E-01	1.69E-02	4.00E-02	6.48E-03	4.00E-02	6.48E-03	1.60E-01	1.25E-01	3.49E-01	2.54E-01	3.90E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3505	364000	3796250	1.26E-01	1.66E-02	3.82E-02	6.36E-03	3.82E-02	6.36E-03	1.54E-01	1.20E-01	3.35E-01	2.39E-01	3.74E-03
3506	364250	3796250	1.24E-01	1.63E-02	3.55E-02	6.26E-03	3.55E-02	6.26E-03	1.52E-01	1.11E-01	3.31E-01	2.18E-01	3.70E-03
3507	364500	3796250	1.21E-01	1.60E-02	3.23E-02	6.15E-03	3.23E-02	6.15E-03	1.45E-01	1.01E-01	3.24E-01	1.99E-01	3.62E-03
3508	364750	3796250	1.20E-01	1.58E-02	2.99E-02	6.05E-03	2.99E-02	6.05E-03	1.43E-01	9.12E-02	3.21E-01	2.01E-01	3.58E-03
3509	365000	3796250	1.18E-01	1.56E-02	2.96E-02	5.98E-03	2.96E-02	5.98E-03	1.41E-01	9.05E-02	3.16E-01	1.97E-01	3.53E-03
3510	365250	3796250	1.17E-01	1.54E-02	2.90E-02	5.91E-03	2.90E-02	5.91E-03	1.39E-01	8.87E-02	3.12E-01	1.97E-01	3.49E-03
3511	365500	3796250	1.15E-01	1.52E-02	2.81E-02	5.82E-03	2.81E-02	5.82E-03	1.36E-01	8.59E-02	3.06E-01	1.94E-01	3.42E-03
3512	365750	3796250	1.13E-01	1.49E-02	2.70E-02	5.73E-03	2.70E-02	5.73E-03	1.33E-01	8.24E-02	3.00E-01	1.89E-01	3.36E-03
3513	366000	3796250	1.11E-01	1.47E-02	2.58E-02	5.63E-03	2.58E-02	5.63E-03	1.31E-01	7.86E-02	2.96E-01	1.83E-01	3.31E-03
3514	366250	3796250	1.09E-01	1.44E-02	2.45E-02	5.53E-03	2.45E-02	5.53E-03	1.28E-01	7.44E-02	2.91E-01	1.76E-01	3.25E-03
3515	355250	3796500	1.44E-01	5.89E-03	1.68E-02	2.29E-03	1.68E-02	2.29E-03	1.76E-01	5.24E-02	3.83E-01	1.42E-01	4.28E-03
3516	355500	3796500	1.44E-01	6.06E-03	1.95E-02	2.36E-03	1.95E-02	2.36E-03	1.77E-01	6.41E-02	3.85E-01	1.59E-01	4.30E-03
3517	355750	3796500	1.54E-01	6.25E-03	2.38E-02	2.44E-03	2.38E-02	2.44E-03	1.89E-01	7.86E-02	4.10E-01	2.03E-01	4.58E-03
3518	356000	3796500	1.60E-01	6.48E-03	2.85E-02	2.53E-03	2.85E-02	2.53E-03	1.97E-01	9.41E-02	4.26E-01	2.52E-01	4.76E-03
3519	356250	3796500	1.63E-01	6.73E-03	3.32E-02	2.63E-03	3.32E-02	2.63E-03	2.01E-01	1.10E-01	4.34E-01	3.00E-01	4.85E-03
3520	356500	3796500	1.80E-01	7.03E-03	3.73E-02	2.75E-03	3.73E-02	2.75E-03	2.22E-01	1.23E-01	4.79E-01	3.41E-01	5.36E-03
3521	356750	3796500	1.90E-01	7.37E-03	4.02E-02	2.88E-03	4.02E-02	2.88E-03	2.34E-01	1.32E-01	5.06E-01	3.66E-01	5.65E-03
3522	357000	3796500	2.12E-01	7.74E-03	4.13E-02	3.03E-03	4.13E-02	3.03E-03	2.62E-01	1.35E-01	5.66E-01	3.68E-01	6.33E-03
3523	357250	3796500	2.18E-01	8.14E-03	4.88E-02	3.19E-03	4.88E-02	3.19E-03	2.70E-01	1.63E-01	5.82E-01	3.62E-01	6.50E-03
3524	357500	3796500	2.12E-01	8.58E-03	6.37E-02	3.36E-03	6.37E-02	3.36E-03	2.63E-01	2.11E-01	5.66E-01	4.59E-01	6.33E-03
3525	357750	3796500	2.40E-01	9.07E-03	7.58E-02	3.54E-03	7.58E-02	3.54E-03	2.97E-01	2.51E-01	6.39E-01	5.34E-01	7.14E-03
3526	358000	3796500	2.47E-01	9.64E-03	8.03E-02	3.76E-03	8.03E-02	3.76E-03	3.06E-01	2.65E-01	6.59E-01	5.56E-01	7.36E-03
3527	358250	3796500	2.62E-01	1.03E-02	7.35E-02	4.02E-03	7.35E-02	4.02E-03	3.25E-01	2.44E-01	7.00E-01	5.05E-01	7.82E-03
3528	358500	3796500	2.78E-01	1.11E-02	6.54E-02	4.33E-03	6.54E-02	4.33E-03	3.45E-01	2.12E-01	7.41E-01	5.01E-01	8.28E-03
3529	358750	3796500	2.87E-01	1.22E-02	7.84E-02	4.73E-03	7.84E-02	4.73E-03	3.56E-01	2.55E-01	7.65E-01	5.78E-01	8.55E-03
3530	359000	3796500	2.96E-01	1.41E-02	8.33E-02	5.45E-03	8.33E-02	5.45E-03	3.67E-01	2.74E-01	7.88E-01	6.77E-01	8.81E-03
3531	359250	3796500	3.03E-01	1.70E-02	8.87E-02	6.53E-03	8.87E-02	6.53E-03	3.76E-01	2.98E-01	8.08E-01	6.58E-01	9.03E-03
3532	359500	3796500	3.02E-01	2.04E-02	8.15E-02	7.85E-03	8.15E-02	7.85E-03	3.75E-01	2.78E-01	8.05E-01	6.11E-01	8.99E-03
3533	359750	3796500	3.10E-01	2.38E-02	9.87E-02	9.26E-03	9.87E-02	9.26E-03	3.85E-01	3.23E-01	8.26E-01	4.91E-01	9.23E-03
3534	360000	3796500	3.13E-01	2.68E-02	1.17E-01	1.06E-02	1.17E-01	1.06E-02	3.89E-01	3.98E-01	8.34E-01	6.07E-01	9.32E-03
3535	360250	3796500	3.06E-01	2.94E-02	1.33E-01	1.17E-02	1.33E-01	1.17E-02	3.80E-01	4.56E-01	8.16E-01	7.17E-01	9.12E-03
3536	360500	3796500	3.04E-01	3.15E-02	1.43E-01	1.26E-02	1.43E-01	1.26E-02	3.77E-01	4.96E-01	8.10E-01	6.86E-01	9.05E-03
3537	360750	3796500	3.01E-01	3.30E-02	1.38E-01	1.29E-02	1.38E-01	1.29E-02	3.74E-01	4.68E-01	8.03E-01	6.58E-01	8.97E-03
3538	361000	3796500	2.95E-01	3.32E-02	1.18E-01	1.27E-02	1.18E-01	1.27E-02	3.67E-01	3.82E-01	7.88E-01	5.19E-01	8.80E-03
3539	361250	3796500	2.81E-01	3.09E-02	8.97E-02	1.16E-02	8.97E-02	1.16E-02	3.49E-01	2.98E-01	7.50E-01	4.48E-01	8.38E-03
3540	361500	3796500	2.84E-01	2.70E-02	7.78E-02	1.03E-02	7.78E-02	1.03E-02	3.52E-01	2.57E-01	7.57E-01	4.55E-01	8.45E-03
3541	361750	3796500	2.70E-01	2.48E-02	7.56E-02	9.52E-03	7.56E-02	9.52E-03	3.35E-01	2.49E-01	7.20E-01	3.93E-01	8.04E-03
3542	362000	3796500	2.54E-01	2.28E-02	6.03E-02	8.81E-03	6.03E-02	8.81E-03	3.15E-01	2.00E-01	6.77E-01	3.27E-01	7.57E-03
3543	362250	3796500	2.50E-01	2.12E-02	4.17E-02	8.21E-03	4.17E-02	8.21E-03	3.09E-01	1.40E-01	6.65E-01	2.89E-01	7.43E-03
3544	362500	3796500	2.27E-01	2.00E-02	3.57E-02	7.75E-03	3.57E-02	7.75E-03	2.81E-01	1.17E-01	6.05E-01	3.07E-01	6.76E-03
3545	362750	3796500	1.81E-01	1.92E-02	3.78E-02	7.39E-03	3.78E-02	7.39E-03	2.24E-01	1.16E-01	4.83E-01	2.97E-01	5.40E-03
3546	363000	3796500	1.56E-01	1.85E-02	4.05E-02	7.13E-03	4.05E-02	7.13E-03	1.92E-01	1.25E-01	4.16E-01	2.70E-01	4.65E-03
3547	363250	3796500	1.49E-01	1.81E-02	4.17E-02	6.94E-03	4.17E-02	6.94E-03	1.82E-01	1.30E-01	3.96E-01	2.73E-01	4.43E-03
3548	363500	3796500	1.44E-01	1.77E-02	4.12E-02	6.79E-03	4.12E-02	6.79E-03	1.76E-01	1.29E-01	3.83E-01	2.67E-01	4.28E-03
3549	363750	3796500	1.36E-01	1.74E-02	3.95E-02	6.67E-03	3.95E-02	6.67E-03	1.66E-01	1.24E-01	3.62E-01	2.51E-01	4.04E-03
3550	364000	3796500	1.34E-01	1.71E-02	3.67E-02	6.55E-03	3.67E-02	6.55E-03	1.64E-01	1.16E-01	3.58E-01	2.29E-01	4.00E-03
3551	364250	3796500	1.28E-01	1.68E-02	3.33E-02	6.45E-03	3.33E-02	6.45E-03	1.57E-01	1.05E-01	3.42E-01	2.07E-01	3.82E-03
3552	364500	3796500	1.24E-01	1.66E-02	3.08E-02	6.34E-03	3.08E-02	6.34E-03	1.51E-01	9.48E-02	3.29E-01	2.09E-01	3.68E-03
3553	364750	3796500	1.21E-01	1.64E-02	3.05E-02	6.27E-03	3.05E-02	6.27E-03	1.44E-01	9.40E-02	3.22E-01	2.04E-01	3.60E-03
3554	365000	3796500	1.20E-01	1.61E-02	2.98E-02	6.18E-03	2.98E-02	6.18E-03	1.43E-01	9.18E-02	3.20E-01	2.04E-01	3.58E-03
3555	365250	3796500	1.17E-01	1.59E-02	2.88E-02	6.09E-03	2.88E-02	6.09E-03	1.39E-01	8.87E-02	3.13E-01	2.01E-01	3.50E-03
3556	365500	3796500	1.16E-01	1.56E-02	2.76E-02	5.99E-03	2.76E-02	5.99E-03	1.37E-01	8.48E-02	3.10E-01	1.95E-01	3.46E-03
3557	365750	3796500	1.14E-01	1.53E-02	2.63E-02	5.89E-03	2.63E-02	5.89E-03	1.35E-01	8.06E-02	3.05E-01	1.88E-01	3.41E-03
3558	366000	3796500	1.12E-01	1.50E-02	2.49E-02	5.78E-03	2.49E-02	5.78E-03	1.32E-01	7.61E-02	2.99E-01	1.79E-01	3.34E-03
3559	366250	3796500	1.11E-01	1.47E-02	2.39E-02	5.67E-03	2.39E-02	5.67E-03	1.30E-01	7.32E-02	2.95E-01	1.70E-01	3.30E-03
3560	366500	3796500	1.09E-01	1.44E-02	2.35E-02	5.56E-03	2.35E-02	5.56E-03	1.28E-01	7.18E-02	2.90E-01	1.61E-01	3.24E-03
3561	355000	3796750	1.33E-01	5.84E-03	1.66E-02	2.27E-03	1.66E-02	2.27E-03	1.61E-01	5.15E-02	3.54E-01	1.15E-01	3.96E-03
3562	355250	3796750	1.40E-01	5.99E-03	1.70E-02	2.33E-03	1.70E-02	2.33E-03	1.72E-01	5.29E-02	3.74E-01	1.30E-01	4.18E-03
3563	355500	3796750	1.49E-01	6.16E-03	1.73E-02	2.40E-03	1.73E-02	2.40E-03	1.83E-01	5.42E-02	3.98E-01	1.44E-01	4.45E-03
3564	355750	3796750	1.52E-01	6.34E-03	1.94E-02	2.47E-03	1.94E-02	2.47E-03	1.86E-01	6.39E-02	4.04E-01	1.56E-01	4.52E-03
3565	356000	3796750	1.61E-01	6.55E-03	2.40E-02	2.55E-03	2.40E-02	2.55E-03	1.98E-01	7.95E-02	4.29E-01	2.04E-01	4.80E-03
3566	356250	3796750	1.71E-01	6.79E-03	2.91E-02	2.65E-03	2.91E-02	2.65E-03	2.11E-01	9.65E-02	4.55E-01	2.57E-01	5.09E-03
3567	356500	3796750	1.73E-01	7.07E-03	3.43E-02	2.76E-03	3.43E-02	2.76E-03	2.14E-01	1.14E-01	4.62E-01	3.10E-01	5.16E-03
3568	356750	3796750	1.92E-01	7.39E-03	3.88E-02	2.89E-03	3.88E-02	2.89E-03	2.37E-01	1.28E-01	5.11E-01	3.54E-01	5.71E-03
3569	357000	3796750	2.11E-01	7.77E-03	4.19E-02	3.04E-03	4.19E-02	3.04E-03	2.61E-01	1.38E-01	5.63E-01	3.80E-01	6.29E-03
3570	357250	3796750	2.44E-01	8.18E-03	4.28E-02	3.20E-03	4.28E-02	3.20E-03	3.03E-01	1.41E-01	6.51E-01	3.77E-01	7.28E-03
3571	357500	3796750	2.43E-01	8.65E-03	5.72E-02	3.38E-03	5.72E-02	3.38E-03	3.02E-01	1.90E-01	6.48E-01	4.18E-01	7.25E-03
3572	357750	3796750	2.43E-01	9.16E-03	7.42E-02	3.58E-03	7.42E-02	3.58E-03	3.01E-01	2.46E-01	6.47E-01	5.25E-01	7.23E-03
3573	358000	3796750	2.66E-01	9.73E-03	8.59E-02	3.80E-03	8.59E-02	3.80E-03	3.30E-01	2.84E-01	7.10E-01	5.91E-01	7.94E-03
3574	358250	3796750	2.66E-01	1.04E-02	8.56E-02	4.06E-03	8.56E-02	4.06E-03	3.30E-01	2.84E-01	7.10E-01	5.81E-01	7.93E-03
3575	358500	3796750	3.01E-01	1.12E-02	7.10E-02	4.38E-03	7.10E-02	4.38E-03	3.74E-01	2.38E-01	8.03E-01	5.12E-01	8.98E-03
3576	358750	3796750	3.02E-01	1.23E-02	8.00E-02	4.77E-03	8.00E-02	4.77E-03	3.75E-01	2.60E-01	8.05E-01	5.56E-01	8.99E-03
3577	359000	3796750	3.19E-01	1.41E-02	8.84E-02	5.46E-03	8.84E-02	5.46E-03	3.96E-01	2.91E-01	8.50E-01	7.04E-01	9.50E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3578	359250	3796750	3.27E-01	1.72E-02	9.60E-02	6.60E-03	9.60E-02	6.60E-03	4.06E-01	3.22E-01	8.72E-01	7.27E-01	9.74E-03
3579	359500	3796750	3.32E-01	2.09E-02	8.97E-02	8.00E-03	8.97E-02	8.00E-03	4.13E-01	3.07E-01	8.85E-01	6.82E-01	9.89E-03
3580	359750	3796750	3.40E-01	2.44E-02	1.02E-01	9.49E-03	1.02E-01	9.49E-03	4.23E-01	3.32E-01	9.08E-01	5.38E-01	1.01E-02
3581	360000	3796750	3.42E-01	2.76E-02	1.23E-01	1.09E-02	1.23E-01	1.09E-02	4.25E-01	4.19E-01	9.11E-01	6.41E-01	1.02E-02
3582	360250	3796750	3.33E-01	3.02E-02	1.41E-01	1.21E-02	1.41E-01	1.21E-02	4.15E-01	4.87E-01	8.89E-01	7.71E-01	9.93E-03
3583	360500	3796750	3.31E-01	3.24E-02	1.51E-01	1.30E-02	1.51E-01	1.30E-02	4.11E-01	5.27E-01	8.82E-01	7.33E-01	9.85E-03
3584	360750	3796750	3.27E-01	3.38E-02	1.43E-01	1.33E-02	1.43E-01	1.33E-02	4.07E-01	4.86E-01	8.72E-01	6.82E-01	9.75E-03
3585	361000	3796750	3.22E-01	3.42E-02	1.22E-01	1.30E-02	1.22E-01	1.30E-02	4.01E-01	3.89E-01	8.59E-01	5.21E-01	9.60E-03
3586	361250	3796750	3.07E-01	3.14E-02	9.08E-02	1.18E-02	9.08E-02	1.18E-02	3.81E-01	3.01E-01	8.19E-01	4.75E-01	9.15E-03
3587	361500	3796750	3.00E-01	2.73E-02	8.64E-02	1.04E-02	8.64E-02	1.04E-02	3.73E-01	2.85E-01	8.00E-01	4.53E-01	8.94E-03
3588	361750	3796750	2.91E-01	2.48E-02	7.69E-02	9.55E-03	7.69E-02	9.55E-03	3.61E-01	2.54E-01	7.75E-01	3.64E-01	8.66E-03
3589	362000	3796750	2.67E-01	2.28E-02	5.52E-02	8.81E-03	5.52E-02	8.81E-03	3.31E-01	1.84E-01	7.11E-01	3.09E-01	7.95E-03
3590	362250	3796750	2.60E-01	2.13E-02	3.91E-02	8.23E-03	3.91E-02	8.23E-03	3.22E-01	1.28E-01	6.93E-01	3.14E-01	7.74E-03
3591	362500	3796750	2.16E-01	2.02E-02	3.72E-02	7.80E-03	3.72E-02	7.80E-03	2.68E-01	1.14E-01	5.76E-01	3.16E-01	6.43E-03
3592	362750	3796750	1.73E-01	1.94E-02	4.07E-02	7.49E-03	4.07E-02	7.49E-03	2.13E-01	1.27E-01	4.62E-01	2.92E-01	5.17E-03
3593	363000	3796750	1.62E-01	1.89E-02	4.24E-02	7.27E-03	4.24E-02	7.27E-03	1.99E-01	1.33E-01	4.33E-01	2.84E-01	4.83E-03
3594	363250	3796750	1.58E-01	1.85E-02	4.23E-02	7.11E-03	4.23E-02	7.11E-03	1.94E-01	1.34E-01	4.22E-01	2.80E-01	4.71E-03
3595	363500	3796750	1.48E-01	1.82E-02	4.07E-02	6.98E-03	4.07E-02	6.98E-03	1.81E-01	1.29E-01	3.93E-01	2.65E-01	4.40E-03
3596	363750	3796750	1.46E-01	1.79E-02	3.79E-02	6.86E-03	3.79E-02	6.86E-03	1.78E-01	1.21E-01	3.88E-01	2.41E-01	4.34E-03
3597	364000	3796750	1.39E-01	1.76E-02	3.43E-02	6.75E-03	3.43E-02	6.75E-03	1.70E-01	1.09E-01	3.70E-01	2.15E-01	4.13E-03
3598	364250	3796750	1.33E-01	1.73E-02	3.18E-02	6.64E-03	3.18E-02	6.64E-03	1.63E-01	9.84E-02	3.54E-01	2.16E-01	3.96E-03
3599	364500	3796750	1.25E-01	1.71E-02	3.14E-02	6.56E-03	3.14E-02	6.56E-03	1.53E-01	9.74E-02	3.35E-01	2.12E-01	3.74E-03
3600	364750	3796750	1.23E-01	1.69E-02	3.06E-02	6.48E-03	3.06E-02	6.48E-03	1.46E-01	9.50E-02	3.27E-01	2.11E-01	3.66E-03
3601	365000	3796750	1.21E-01	1.66E-02	2.95E-02	6.38E-03	2.95E-02	6.38E-03	1.44E-01	9.14E-02	3.21E-01	2.07E-01	3.59E-03
3602	365250	3796750	1.19E-01	1.63E-02	2.82E-02	6.27E-03	2.82E-02	6.27E-03	1.42E-01	8.72E-02	3.18E-01	2.00E-01	3.55E-03
3603	365500	3796750	1.17E-01	1.60E-02	2.67E-02	6.16E-03	2.67E-02	6.16E-03	1.39E-01	8.25E-02	3.12E-01	1.92E-01	3.49E-03
3604	365750	3796750	1.15E-01	1.57E-02	2.52E-02	6.05E-03	2.52E-02	6.05E-03	1.36E-01	7.76E-02	3.07E-01	1.83E-01	3.44E-03
3605	366000	3796750	1.14E-01	1.54E-02	2.46E-02	5.93E-03	2.46E-02	5.93E-03	1.35E-01	7.57E-02	3.04E-01	1.73E-01	3.40E-03
3606	366250	3796750	1.11E-01	1.51E-02	2.42E-02	5.81E-03	2.42E-02	5.81E-03	1.31E-01	7.42E-02	2.96E-01	1.62E-01	3.31E-03
3607	366500	3796750	1.11E-01	1.47E-02	2.37E-02	5.69E-03	2.37E-02	5.69E-03	1.30E-01	7.25E-02	2.96E-01	1.59E-01	3.30E-03
3608	355000	3797000	1.35E-01	5.97E-03	1.66E-02	2.31E-03	1.66E-02	2.31E-03	1.65E-01	5.18E-02	3.60E-01	1.16E-01	4.03E-03
3609	355250	3797000	1.36E-01	6.12E-03	1.71E-02	2.37E-03	1.71E-02	2.37E-03	1.64E-01	5.33E-02	3.62E-01	1.19E-01	4.05E-03
3610	355500	3797000	1.53E-01	6.29E-03	1.75E-02	2.44E-03	1.75E-02	2.44E-03	1.88E-01	5.47E-02	4.08E-01	1.29E-01	4.56E-03
3611	355750	3797000	1.68E-01	6.46E-03	1.79E-02	2.51E-03	1.79E-02	2.51E-03	2.08E-01	5.60E-02	4.49E-01	1.44E-01	5.02E-03
3612	356000	3797000	1.75E-01	6.66E-03	1.91E-02	2.59E-03	1.91E-02	2.59E-03	2.16E-01	6.33E-02	4.66E-01	1.60E-01	5.20E-03
3613	356250	3797000	1.84E-01	6.88E-03	2.41E-02	2.67E-03	2.41E-02	2.67E-03	2.26E-01	8.01E-02	4.90E-01	2.03E-01	5.47E-03
3614	356500	3797000	1.78E-01	7.13E-03	2.96E-02	2.78E-03	2.96E-02	2.78E-03	2.20E-01	9.87E-02	4.74E-01	2.61E-01	5.30E-03
3615	356750	3797000	1.84E-01	7.43E-03	3.53E-02	2.90E-03	3.53E-02	2.90E-03	2.27E-01	1.18E-01	4.90E-01	3.19E-01	5.48E-03
3616	357000	3797000	2.05E-01	7.79E-03	4.03E-02	3.05E-03	4.03E-02	3.05E-03	2.53E-01	1.34E-01	5.45E-01	3.67E-01	6.09E-03
3617	357250	3797000	2.41E-01	8.21E-03	4.36E-02	3.21E-03	4.36E-02	3.21E-03	2.99E-01	1.44E-01	6.42E-01	3.92E-01	7.18E-03
3618	357500	3797000	2.65E-01	8.69E-03	4.77E-02	3.40E-03	4.77E-02	3.40E-03	3.30E-01	1.60E-01	7.07E-01	3.90E-01	7.91E-03
3619	357750	3797000	2.59E-01	9.22E-03	6.77E-02	3.61E-03	6.77E-02	3.61E-03	3.22E-01	2.25E-01	6.91E-01	4.86E-01	7.72E-03
3620	358000	3797000	2.76E-01	9.82E-03	8.67E-02	3.84E-03	8.67E-02	3.84E-03	3.42E-01	2.86E-01	7.35E-01	5.98E-01	8.22E-03
3621	358250	3797000	3.05E-01	1.05E-02	9.60E-02	4.10E-03	9.60E-02	4.10E-03	3.79E-01	3.17E-01	8.13E-01	6.43E-01	9.09E-03
3622	358500	3797000	3.15E-01	1.13E-02	8.75E-02	4.42E-03	8.75E-02	4.42E-03	3.93E-01	2.91E-01	8.41E-01	5.82E-01	9.40E-03
3623	358750	3797000	3.29E-01	1.24E-02	7.99E-02	4.81E-03	7.99E-02	4.81E-03	4.09E-01	2.58E-01	8.77E-01	5.63E-01	9.80E-03
3624	359000	3797000	3.46E-01	1.41E-02	9.35E-02	5.45E-03	9.35E-02	5.45E-03	4.30E-01	3.07E-01	9.22E-01	7.13E-01	1.03E-02
3625	359250	3797000	3.53E-01	1.74E-02	1.03E-01	6.66E-03	1.03E-01	6.66E-03	4.39E-01	3.44E-01	9.41E-01	7.93E-01	1.05E-02
3626	359500	3797000	3.65E-01	2.14E-02	9.92E-02	8.17E-03	9.92E-02	8.17E-03	4.55E-01	3.40E-01	9.74E-01	7.58E-01	1.09E-02
3627	359750	3797000	3.74E-01	2.50E-02	1.04E-01	9.72E-03	1.04E-01	9.72E-03	4.65E-01	3.39E-01	9.97E-01	5.95E-01	1.11E-02
3628	360000	3797000	3.74E-01	2.83E-02	1.29E-01	1.12E-02	1.29E-01	1.12E-02	4.66E-01	4.42E-01	9.98E-01	6.84E-01	1.12E-02
3629	360250	3797000	3.64E-01	3.10E-02	1.50E-01	1.25E-02	1.50E-01	1.25E-02	4.54E-01	5.21E-01	9.72E-01	8.30E-01	1.09E-02
3630	360500	3797000	3.63E-01	3.33E-02	1.59E-01	1.35E-02	1.59E-01	1.35E-02	4.51E-01	5.60E-01	9.67E-01	7.83E-01	1.08E-02
3631	360750	3797000	3.54E-01	3.47E-02	1.47E-01	1.37E-02	1.47E-01	1.37E-02	4.41E-01	4.99E-01	9.45E-01	7.00E-01	1.06E-02
3632	361000	3797000	3.48E-01	3.53E-02	1.25E-01	1.34E-02	1.25E-01	1.34E-02	4.34E-01	3.94E-01	9.29E-01	5.15E-01	1.04E-02
3633	361250	3797000	3.35E-01	3.18E-02	9.07E-02	1.19E-02	9.07E-02	1.19E-02	4.17E-01	2.99E-01	8.94E-01	4.93E-01	1.00E-02
3634	361500	3797000	3.23E-01	2.74E-02	9.47E-02	1.05E-02	9.47E-02	1.05E-02	4.01E-01	3.10E-01	8.61E-01	4.36E-01	9.62E-03
3635	361750	3797000	3.07E-01	2.46E-02	7.43E-02	9.52E-03	7.43E-02	9.52E-03	3.82E-01	2.46E-01	8.19E-01	3.57E-01	9.16E-03
3636	362000	3797000	2.90E-01	2.26E-02	4.74E-02	8.78E-03	4.74E-02	8.78E-03	3.61E-01	1.60E-01	7.74E-01	3.09E-01	8.65E-03
3637	362250	3797000	2.56E-01	2.13E-02	3.79E-02	8.24E-03	3.79E-02	8.24E-03	3.18E-01	1.25E-01	6.82E-01	3.30E-01	7.63E-03
3638	362500	3797000	1.93E-01	2.04E-02	4.03E-02	7.87E-03	4.03E-02	7.87E-03	2.38E-01	1.26E-01	5.14E-01	3.14E-01	5.74E-03
3639	362750	3797000	1.81E-01	1.97E-02	4.28E-02	7.61E-03	4.28E-02	7.61E-03	2.23E-01	1.35E-01	4.83E-01	2.93E-01	5.40E-03
3640	363000	3797000	1.75E-01	1.93E-02	4.32E-02	7.43E-03	4.32E-02	7.43E-03	2.16E-01	1.38E-01	4.67E-01	2.93E-01	5.22E-03
3641	363250	3797000	1.64E-01	1.90E-02	4.18E-02	7.29E-03	4.18E-02	7.29E-03	2.01E-01	1.34E-01	4.36E-01	2.78E-01	4.88E-03
3642	363500	3797000	1.58E-01	1.87E-02	3.90E-02	7.17E-03	3.90E-02	7.17E-03	1.95E-01	1.25E-01	4.22E-01	2.53E-01	4.72E-03
3643	363750	3797000	1.50E-01	1.84E-02	3.52E-02	7.06E-03	3.52E-02	7.06E-03	1.85E-01	1.13E-01	4.01E-01	2.23E-01	4.48E-03
3644	364000	3797000	1.43E-01	1.81E-02	3.26E-02	6.95E-03	3.26E-02	6.95E-03	1.76E-01	1.02E-01	3.82E-01	2.23E-01	4.27E-03
3645	364250	3797000	1.34E-01	1.79E-02	3.22E-02	6.87E-03	3.22E-02	6.87E-03	1.64E-01	1.01E-01	3.58E-01	2.19E-01	4.00E-03
3646	364500	3797000	1.26E-01	1.77E-02	3.13E-02	6.78E-03	3.13E-02	6.78E-03	1.54E-01	9.80E-02	3.35E-01	2.18E-01	3.75E-03
3647	364750	3797000	1.24E-01	1.74E-02	3.01E-02	6.68E-03	3.01E-02	6.68E-03	1.49E-01	9.41E-02	3.30E-01	2.13E-01	3.69E-03
3648	365000	3797000	1.22E-01	1.71E-02	2.87E-02	6.57E-03	2.87E-02	6.57E-03	1.46E-01	8.94E-02	3.26E-01	2.05E-01	3.64E-03
3649	365250	3797000	1.20E-01	1.68E-02	2.71E-02	6.45E-03	2.71E-02	6.45E-03	1.43E-01	8.42E-02	3.20E-01	1.96E-01	3.58E-03
3650	365500	3797000	1.19E-01	1.64E-02	2.60E-02	6.32E-03	2.60E-02	6.32E-03	1.41E-01	7.97E-02	3.16E-01	1.85E-01	3.54E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3651	365750	3797000	1.16E-01	1.61E-02	2.55E-02	6.20E-03	2.55E-02	6.20E-03	1.38E-01	7.82E-02	3.10E-01	1.74E-01	3.47E-03
3652	366000	3797000	1.15E-01	1.57E-02	2.50E-02	6.07E-03	2.50E-02	6.07E-03	1.36E-01	7.65E-02	3.07E-01	1.68E-01	3.43E-03
3653	366250	3797000	1.15E-01	1.54E-02	2.48E-02	5.94E-03	2.48E-02	5.94E-03	1.35E-01	7.50E-02	3.06E-01	1.69E-01	3.42E-03
3654	366500	3797000	1.14E-01	1.50E-02	2.49E-02	5.81E-03	2.49E-02	5.81E-03	1.34E-01	7.55E-02	3.04E-01	1.69E-01	3.40E-03
3655	354750	3797250	1.31E-01	6.03E-03	1.62E-02	2.30E-03	1.62E-02	2.30E-03	1.56E-01	5.04E-02	3.49E-01	1.06E-01	3.90E-03
3656	355000	3797250	1.35E-01	6.13E-03	1.66E-02	2.36E-03	1.66E-02	2.36E-03	1.62E-01	5.20E-02	3.60E-01	1.12E-01	4.02E-03
3657	355250	3797250	1.43E-01	6.28E-03	1.71E-02	2.42E-03	1.71E-02	2.42E-03	1.75E-01	5.36E-02	3.80E-01	1.20E-01	4.25E-03
3658	355500	3797250	1.46E-01	6.44E-03	1.75E-02	2.49E-03	1.75E-02	2.49E-03	1.79E-01	5.51E-02	3.90E-01	1.25E-01	4.36E-03
3659	355750	3797250	1.63E-01	6.62E-03	1.80E-02	2.56E-03	1.80E-02	2.56E-03	2.00E-01	5.65E-02	4.34E-01	1.30E-01	4.85E-03
3660	356000	3797250	1.87E-01	6.80E-03	1.83E-02	2.63E-03	1.83E-02	2.63E-03	2.29E-01	5.79E-02	4.98E-01	1.48E-01	5.57E-03
3661	356250	3797250	1.75E-01	7.01E-03	1.87E-02	2.72E-03	1.87E-02	2.72E-03	2.16E-01	6.22E-02	4.67E-01	1.59E-01	5.22E-03
3662	356500	3797250	1.82E-01	7.24E-03	2.40E-02	2.81E-03	2.40E-02	2.81E-03	2.25E-01	8.01E-02	4.84E-01	1.99E-01	5.41E-03
3663	356750	3797250	2.04E-01	7.51E-03	3.00E-02	2.92E-03	3.00E-02	2.92E-03	2.53E-01	1.00E-01	5.43E-01	2.62E-01	6.07E-03
3664	357000	3797250	1.95E-01	7.84E-03	3.63E-02	3.06E-03	3.63E-02	3.06E-03	2.42E-01	1.21E-01	5.21E-01	3.27E-01	5.82E-03
3665	357250	3797250	2.18E-01	8.24E-03	4.18E-02	3.22E-03	4.18E-02	3.22E-03	2.70E-01	1.39E-01	5.81E-01	3.79E-01	6.50E-03
3666	357500	3797250	2.67E-01	8.71E-03	4.52E-02	3.40E-03	4.52E-02	3.40E-03	3.32E-01	1.50E-01	7.11E-01	4.17E-01	7.95E-03
3667	357750	3797250	2.89E-01	9.26E-03	5.67E-02	3.62E-03	5.67E-02	3.62E-03	3.59E-01	1.90E-01	7.71E-01	4.17E-01	8.61E-03
3668	358000	3797250	2.72E-01	9.88E-03	8.09E-02	3.87E-03	8.09E-02	3.87E-03	3.38E-01	2.68E-01	7.25E-01	5.66E-01	8.10E-03
3669	358250	3797250	3.21E-01	1.06E-02	1.01E-01	4.14E-03	1.01E-01	4.14E-03	4.00E-01	3.34E-01	8.57E-01	6.75E-01	9.57E-03
3670	358500	3797250	3.21E-01	1.15E-02	1.04E-01	4.47E-03	1.04E-01	4.47E-03	4.00E-01	3.45E-01	8.56E-01	6.80E-01	9.57E-03
3671	358750	3797250	3.63E-01	1.25E-02	8.28E-02	4.86E-03	8.28E-02	4.86E-03	4.52E-01	2.79E-01	9.68E-01	5.80E-01	1.08E-02
3672	359000	3797250	3.70E-01	1.41E-02	9.77E-02	5.47E-03	9.77E-02	5.47E-03	4.60E-01	3.19E-01	9.85E-01	6.94E-01	1.10E-02
3673	359250	3797250	3.89E-01	1.76E-02	1.10E-01	6.71E-03	1.10E-01	6.71E-03	4.85E-01	3.63E-01	1.04E+00	8.53E-01	1.16E-02
3674	359500	3797250	4.02E-01	2.19E-02	1.10E-01	8.35E-03	1.10E-01	8.35E-03	5.02E-01	3.77E-01	1.07E+00	8.37E-01	1.20E-02
3675	359750	3797250	4.21E-01	2.57E-02	1.06E-01	9.96E-03	1.06E-01	9.96E-03	5.25E-01	3.43E-01	1.12E+00	6.83E-01	1.25E-02
3676	360000	3797250	4.14E-01	2.89E-02	1.34E-01	1.15E-02	1.34E-01	1.15E-02	5.16E-01	4.64E-01	1.10E+00	7.42E-01	1.23E-02
3677	360250	3797250	4.01E-01	3.18E-02	1.60E-01	1.29E-02	1.60E-01	1.29E-02	4.99E-01	5.61E-01	1.07E+00	8.94E-01	1.19E-02
3678	360500	3797250	3.98E-01	3.43E-02	1.69E-01	1.39E-02	1.69E-01	1.39E-02	4.96E-01	5.97E-01	1.06E+00	8.34E-01	1.19E-02
3679	360750	3797250	3.85E-01	3.55E-02	1.48E-01	1.40E-02	1.48E-01	1.40E-02	4.79E-01	5.04E-01	1.03E+00	7.09E-01	1.15E-02
3680	362250	3797250	2.34E-01	2.13E-02	3.92E-02	8.26E-03	3.92E-02	8.26E-03	2.90E-01	1.23E-01	6.24E-01	3.34E-01	6.97E-03
3681	362500	3797250	2.05E-01	2.06E-02	4.26E-02	7.96E-03	4.26E-02	7.96E-03	2.53E-01	1.36E-01	5.46E-01	3.02E-01	6.10E-03
3682	362750	3797250	1.94E-01	2.01E-02	4.38E-02	7.75E-03	4.38E-02	7.75E-03	2.40E-01	1.41E-01	5.18E-01	3.06E-01	5.79E-03
3683	363000	3797250	1.83E-01	1.98E-02	4.28E-02	7.61E-03	4.28E-02	7.61E-03	2.25E-01	1.38E-01	4.87E-01	2.92E-01	5.44E-03
3684	363250	3797250	1.73E-01	1.95E-02	4.00E-02	7.49E-03	4.00E-02	7.49E-03	2.13E-01	1.29E-01	4.61E-01	2.66E-01	5.15E-03
3685	363500	3797250	1.64E-01	1.92E-02	3.61E-02	7.38E-03	3.61E-02	7.38E-03	2.01E-01	1.17E-01	4.37E-01	2.33E-01	4.88E-03
3686	363750	3797250	1.55E-01	1.89E-02	3.34E-02	7.27E-03	3.34E-02	7.27E-03	1.90E-01	1.05E-01	4.13E-01	2.30E-01	4.61E-03
3687	364000	3797250	1.44E-01	1.88E-02	3.30E-02	7.19E-03	3.30E-02	7.19E-03	1.76E-01	1.04E-01	3.83E-01	2.25E-01	4.28E-03
3688	364250	3797250	1.39E-01	1.85E-02	3.20E-02	7.10E-03	3.20E-02	7.10E-03	1.70E-01	1.01E-01	3.70E-01	2.24E-01	4.14E-03
3689	364500	3797250	1.33E-01	1.82E-02	3.07E-02	6.99E-03	3.07E-02	6.99E-03	1.63E-01	9.66E-02	3.55E-01	2.18E-01	3.97E-03
3690	364750	3797250	1.25E-01	1.79E-02	2.91E-02	6.87E-03	2.91E-02	6.87E-03	1.53E-01	9.15E-02	3.33E-01	2.09E-01	3.73E-03
3691	365000	3797250	1.23E-01	1.75E-02	2.74E-02	6.75E-03	2.74E-02	6.75E-03	1.47E-01	8.59E-02	3.29E-01	1.98E-01	3.68E-03
3692	365250	3797250	1.22E-01	1.72E-02	2.69E-02	6.62E-03	2.69E-02	6.62E-03	1.45E-01	8.22E-02	3.24E-01	1.86E-01	3.62E-03
3693	365500	3797250	1.19E-01	1.68E-02	2.64E-02	6.48E-03	2.64E-02	6.48E-03	1.42E-01	8.05E-02	3.19E-01	1.77E-01	3.56E-03
3694	365750	3797250	1.20E-01	1.64E-02	2.58E-02	6.34E-03	2.58E-02	6.34E-03	1.42E-01	7.86E-02	3.19E-01	1.79E-01	3.56E-03
3695	366000	3797250	1.19E-01	1.60E-02	2.59E-02	6.20E-03	2.59E-02	6.20E-03	1.41E-01	7.90E-02	3.17E-01	1.79E-01	3.54E-03
3696	366250	3797250	1.16E-01	1.57E-02	2.59E-02	6.06E-03	2.59E-02	6.06E-03	1.38E-01	7.93E-02	3.10E-01	1.77E-01	3.47E-03
3697	366500	3797250	1.14E-01	1.53E-02	2.58E-02	5.92E-03	2.58E-02	5.92E-03	1.35E-01	7.91E-02	3.05E-01	1.74E-01	3.41E-03
3698	354750	3797500	1.30E-01	6.35E-03	1.59E-02	2.40E-03	1.59E-02	2.40E-03	1.60E-01	5.00E-02	3.47E-01	1.11E-01	3.88E-03
3699	355000	3797500	1.36E-01	6.44E-03	1.65E-02	2.44E-03	1.65E-02	2.44E-03	1.67E-01	5.19E-02	3.62E-01	1.12E-01	4.05E-03
3700	355250	3797500	1.39E-01	6.55E-03	1.70E-02	2.48E-03	1.70E-02	2.48E-03	1.71E-01	5.36E-02	3.70E-01	1.13E-01	4.13E-03
3701	355500	3797500	1.67E-01	6.66E-03	1.75E-02	2.55E-03	1.75E-02	2.55E-03	2.06E-01	5.53E-02	4.46E-01	1.28E-01	4.98E-03
3702	355750	3797500	1.90E-01	6.81E-03	1.80E-02	2.62E-03	1.80E-02	2.62E-03	2.34E-01	5.69E-02	5.08E-01	1.35E-01	5.67E-03
3703	356000	3797500	1.69E-01	7.00E-03	1.84E-02	2.69E-03	1.84E-02	2.69E-03	2.08E-01	5.84E-02	4.50E-01	1.40E-01	5.03E-03
3704	356250	3797500	2.01E-01	7.19E-03	1.89E-02	2.77E-03	1.89E-02	2.77E-03	2.47E-01	6.02E-02	5.35E-01	1.51E-01	5.98E-03
3705	356500	3797500	2.20E-01	7.40E-03	2.05E-02	2.86E-03	2.05E-02	2.86E-03	2.70E-01	6.58E-02	5.86E-01	1.70E-01	6.54E-03
3706	356750	3797500	2.14E-01	7.65E-03	2.37E-02	2.96E-03	2.37E-02	2.96E-03	2.64E-01	7.95E-02	5.69E-01	2.01E-01	6.36E-03
3707	357000	3797500	1.95E-01	7.94E-03	3.03E-02	3.08E-03	3.03E-02	3.08E-03	2.42E-01	1.02E-01	5.21E-01	2.62E-01	5.82E-03
3708	357250	3797500	2.07E-01	8.30E-03	3.71E-02	3.23E-03	3.71E-02	3.23E-03	2.56E-01	1.25E-01	5.52E-01	3.32E-01	6.16E-03
3709	357500	3797500	2.45E-01	8.74E-03	4.31E-02	3.41E-03	4.31E-02	3.41E-03	3.05E-01	1.44E-01	6.54E-01	3.89E-01	7.31E-03
3710	357750	3797500	3.01E-01	9.27E-03	4.67E-02	3.62E-03	4.67E-02	3.62E-03	3.74E-01	1.55E-01	8.02E-01	4.11E-01	8.96E-03
3711	358000	3797500	3.20E-01	9.92E-03	6.83E-02	3.88E-03	6.83E-02	3.88E-03	3.98E-01	2.29E-01	8.54E-01	4.92E-01	9.54E-03
3712	358250	3797500	3.13E-01	1.07E-02	9.77E-02	4.17E-03	9.77E-02	4.17E-03	3.89E-01	3.23E-01	8.35E-01	6.59E-01	9.33E-03
3713	358500	3797500	3.63E-01	1.17E-02	1.17E-01	4.54E-03	1.17E-01	4.54E-03	4.52E-01	3.85E-01	9.68E-01	7.46E-01	1.08E-02
3714	358750	3797500	3.78E-01	1.32E-02	1.07E-01	5.06E-03	1.07E-01	5.06E-03	4.70E-01	3.55E-01	1.01E+00	6.75E-01	1.13E-02
3715	359000	3797500	3.92E-01	1.49E-02	1.01E-01	5.74E-03	1.01E-01	5.74E-03	4.89E-01	3.25E-01	1.05E+00	6.39E-01	1.17E-02
3716	359250	3797500	4.20E-01	1.82E-02	1.15E-01	6.84E-03	1.15E-01	6.84E-03	5.23E-01	3.75E-01	1.12E+00	8.83E-01	1.25E-02
3717	359500	3797500	4.44E-01	2.28E-02	1.21E-01	8.61E-03	1.21E-01	8.61E-03	5.53E-01	4.14E-01	1.18E+00	9.11E-01	1.32E-02
3718	359750	3797500	4.64E-01	2.65E-02	1.06E-01	1.02E-02	1.06E-01	1.02E-02	5.79E-01	3.59E-01	1.24E+00	7.86E-01	1.38E-02
3719	360000	3797500	4.61E-01	2.96E-02	1.40E-01	1.18E-02	1.40E-01	1.18E-02	5.75E-01	4.88E-01	1.23E+00	8.10E-01	1.37E-02
3720	360250	3797500	4.46E-01	3.26E-02	1.72E-01	1.32E-02	1.72E-01	1.32E-02	5.57E-01	6.08E-01	1.19E+00	9.65E-01	1.33E-02
3721	362500	3797500	2.17E-01	2.09E-02	4.39E-02	8.07E-03	4.39E-02	8.07E-03	2.68E-01	1.42E-01	5.77E-01	3.16E-01	6.45E-03
3722	362750	3797500	2.05E-01	2.05E-02	4.35E-02	7.92E-03	4.35E-02	7.92E-03	2.53E-01	1.42E-01	5.46E-01	3.06E-01	6.10E-03
3723	363000	3797500	1.89E-01	2.02E-02	4.10E-02	7.80E-03	4.10E-02	7.80E-03	2.33E-01	1.34E-01	5.05E-01	2.78E-01	5.64E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3724	363250	3797500	1.79E-01	2.00E-02	3.69E-02	7.70E-03	3.69E-02	7.70E-03	2.20E-01	1.20E-01	4.76E-01	2.42E-01	5.32E-03
3725	363500	3797500	1.68E-01	1.97E-02	3.42E-02	7.59E-03	3.42E-02	7.59E-03	2.06E-01	1.09E-01	4.47E-01	2.36E-01	4.99E-03
3726	363750	3797500	1.58E-01	1.96E-02	3.37E-02	7.50E-03	3.37E-02	7.50E-03	1.94E-01	1.07E-01	4.20E-01	2.31E-01	4.69E-03
3727	364000	3797500	1.54E-01	1.93E-02	3.27E-02	7.42E-03	3.27E-02	7.42E-03	1.89E-01	1.04E-01	4.10E-01	2.28E-01	4.58E-03
3728	364250	3797500	1.46E-01	1.90E-02	3.12E-02	7.31E-03	3.12E-02	7.31E-03	1.79E-01	9.90E-02	3.89E-01	2.21E-01	4.34E-03
3729	364500	3797500	1.35E-01	1.87E-02	2.95E-02	7.19E-03	2.95E-02	7.19E-03	1.66E-01	9.34E-02	3.60E-01	2.11E-01	4.03E-03
3730	364750	3797500	1.27E-01	1.83E-02	2.85E-02	7.06E-03	2.85E-02	7.06E-03	1.55E-01	8.80E-02	3.38E-01	1.98E-01	3.77E-03
3731	365000	3797500	1.24E-01	1.79E-02	2.78E-02	6.92E-03	2.78E-02	6.92E-03	1.51E-01	8.57E-02	3.31E-01	1.86E-01	3.70E-03
3732	365250	3797500	1.24E-01	1.75E-02	2.72E-02	6.77E-03	2.72E-02	6.77E-03	1.48E-01	8.29E-02	3.30E-01	1.90E-01	3.69E-03
3733	365500	3797500	1.24E-01	1.71E-02	2.67E-02	6.62E-03	2.67E-02	6.62E-03	1.47E-01	8.25E-02	3.29E-01	1.91E-01	3.68E-03
3734	365750	3797500	1.21E-01	1.67E-02	2.68E-02	6.47E-03	2.68E-02	6.47E-03	1.44E-01	8.29E-02	3.24E-01	1.89E-01	3.62E-03
3735	366000	3797500	1.19E-01	1.63E-02	2.68E-02	6.31E-03	2.68E-02	6.31E-03	1.41E-01	8.29E-02	3.18E-01	1.85E-01	3.56E-03
3736	366250	3797500	1.17E-01	1.59E-02	2.66E-02	6.17E-03	2.66E-02	6.17E-03	1.39E-01	8.24E-02	3.12E-01	1.80E-01	3.49E-03
3737	366500	3797500	1.16E-01	1.56E-02	2.63E-02	6.03E-03	2.63E-02	6.03E-03	1.37E-01	8.14E-02	3.09E-01	1.74E-01	3.45E-03
3738	366750	3797500	1.14E-01	1.52E-02	2.58E-02	5.88E-03	2.58E-02	5.88E-03	1.34E-01	8.00E-02	3.03E-01	1.68E-01	3.39E-03
3739	354500	3797750	1.22E-01	6.64E-03	1.47E-02	2.50E-03	1.47E-02	2.50E-03	1.46E-01	4.64E-02	3.26E-01	1.03E-01	3.65E-03
3740	354750	3797750	1.28E-01	6.73E-03	1.54E-02	2.54E-03	1.54E-02	2.54E-03	1.57E-01	4.87E-02	3.40E-01	1.09E-01	3.80E-03
3741	355000	3797750	1.37E-01	6.83E-03	1.61E-02	2.57E-03	1.61E-02	2.57E-03	1.69E-01	5.09E-02	3.67E-01	1.14E-01	4.10E-03
3742	355250	3797750	1.44E-01	6.93E-03	1.68E-02	2.61E-03	1.68E-02	2.61E-03	1.78E-01	5.31E-02	3.85E-01	1.18E-01	4.30E-03
3743	355500	3797750	1.72E-01	7.04E-03	1.74E-02	2.65E-03	1.74E-02	2.65E-03	2.10E-01	5.51E-02	4.59E-01	1.22E-01	5.13E-03
3744	355750	3797750	1.96E-01	7.15E-03	1.79E-02	2.70E-03	1.79E-02	2.70E-03	2.40E-01	5.70E-02	5.22E-01	1.24E-01	5.83E-03
3745	356000	3797750	2.07E-01	7.28E-03	1.84E-02	2.77E-03	1.84E-02	2.77E-03	2.54E-01	5.87E-02	5.52E-01	1.37E-01	6.17E-03
3746	356250	3797750	2.25E-01	7.44E-03	1.91E-02	2.85E-03	1.91E-02	2.85E-03	2.76E-01	6.13E-02	5.99E-01	1.39E-01	6.70E-03
3747	356500	3797750	2.27E-01	7.64E-03	1.98E-02	2.93E-03	1.98E-02	2.93E-03	2.80E-01	6.37E-02	6.05E-01	1.47E-01	6.77E-03
3748	356750	3797750	1.89E-01	7.86E-03	1.95E-02	3.02E-03	1.95E-02	3.02E-03	2.34E-01	6.25E-02	5.03E-01	1.56E-01	5.62E-03
3749	357000	3797750	1.84E-01	8.12E-03	2.33E-02	3.13E-03	2.33E-02	3.13E-03	2.27E-01	7.82E-02	4.90E-01	1.84E-01	5.47E-03
3750	357250	3797750	2.03E-01	8.44E-03	3.03E-02	3.26E-03	3.03E-02	3.26E-03	2.52E-01	1.02E-01	5.42E-01	2.57E-01	6.06E-03
3751	357500	3797750	2.18E-01	8.83E-03	3.77E-02	3.42E-03	3.77E-02	3.42E-03	2.71E-01	1.27E-01	5.82E-01	3.35E-01	6.51E-03
3752	357750	3797750	2.79E-01	9.32E-03	4.42E-02	3.62E-03	4.42E-02	3.62E-03	3.47E-01	1.49E-01	7.43E-01	3.95E-01	8.31E-03
3753	358000	3797750	3.42E-01	9.94E-03	5.14E-02	3.88E-03	5.14E-02	3.88E-03	4.25E-01	1.74E-01	9.12E-01	4.13E-01	1.02E-02
3754	358250	3797750	3.52E-01	1.07E-02	8.36E-02	4.19E-03	8.36E-02	4.19E-03	4.39E-01	2.80E-01	9.40E-01	5.85E-01	1.05E-02
3755	358500	3797750	3.79E-01	1.17E-02	1.19E-01	4.57E-03	1.19E-01	4.57E-03	4.72E-01	3.91E-01	1.01E+00	7.69E-01	1.13E-02
3756	358750	3797750	4.06E-01	1.37E-02	1.31E-01	5.23E-03	1.31E-01	5.23E-03	5.06E-01	4.30E-01	1.08E+00	7.93E-01	1.21E-02
3757	359000	3797750	4.43E-01	1.54E-02	1.01E-01	5.86E-03	1.01E-01	5.86E-03	5.53E-01	3.30E-01	1.18E+00	6.46E-01	1.32E-02
3758	359250	3797750	4.59E-01	1.89E-02	1.18E-01	7.08E-03	1.18E-01	7.08E-03	5.73E-01	3.91E-01	1.22E+00	8.76E-01	1.37E-02
3759	359500	3797750	4.94E-01	2.49E-02	1.31E-01	9.26E-03	1.31E-01	9.26E-03	6.17E-01	4.49E-01	1.32E+00	9.89E-01	1.47E-02
3760	359750	3797750	5.00E-01	2.73E-02	1.16E-01	1.05E-02	1.16E-01	1.05E-02	6.25E-01	4.10E-01	1.33E+00	9.04E-01	1.49E-02
3761	360000	3797750	5.28E-01	3.02E-02	1.46E-01	1.21E-02	1.46E-01	1.21E-02	6.60E-01	5.10E-01	1.41E+00	8.82E-01	1.57E-02
3762	362750	3797750	2.08E-01	2.10E-02	4.18E-02	8.10E-03	4.18E-02	8.10E-03	2.57E-01	1.37E-01	5.54E-01	2.90E-01	6.19E-03
3763	363000	3797750	1.95E-01	2.07E-02	3.76E-02	8.00E-03	3.76E-02	8.00E-03	2.41E-01	1.23E-01	5.21E-01	2.51E-01	5.82E-03
3764	363250	3797750	1.81E-01	2.05E-02	3.48E-02	7.90E-03	3.48E-02	7.90E-03	2.23E-01	1.12E-01	4.83E-01	2.41E-01	5.40E-03
3765	363500	3797750	1.77E-01	2.03E-02	3.44E-02	7.81E-03	3.44E-02	7.81E-03	2.18E-01	1.10E-01	4.72E-01	2.35E-01	5.27E-03
3766	363750	3797750	1.71E-01	2.01E-02	3.32E-02	7.74E-03	3.32E-02	7.74E-03	2.10E-01	1.06E-01	4.55E-01	2.31E-01	5.09E-03
3767	364000	3797750	1.60E-01	1.98E-02	3.17E-02	7.64E-03	3.17E-02	7.64E-03	1.96E-01	1.01E-01	4.26E-01	2.23E-01	4.76E-03
3768	364250	3797750	1.46E-01	1.95E-02	3.01E-02	7.52E-03	3.01E-02	7.52E-03	1.79E-01	9.50E-02	3.88E-01	2.11E-01	4.34E-03
3769	364500	3797750	1.38E-01	1.91E-02	2.95E-02	7.38E-03	2.95E-02	7.38E-03	1.69E-01	9.17E-02	3.67E-01	1.97E-01	4.11E-03
3770	364750	3797750	1.33E-01	1.87E-02	2.86E-02	7.23E-03	2.86E-02	7.23E-03	1.63E-01	8.89E-02	3.55E-01	2.00E-01	3.97E-03
3771	365000	3797750	1.28E-01	1.83E-02	2.77E-02	7.08E-03	2.77E-02	7.08E-03	1.54E-01	8.56E-02	3.40E-01	2.02E-01	3.80E-03
3772	365250	3797750	1.26E-01	1.79E-02	2.76E-02	6.91E-03	2.76E-02	6.91E-03	1.50E-01	8.64E-02	3.36E-01	2.01E-01	3.75E-03
3773	365500	3797750	1.24E-01	1.74E-02	2.77E-02	6.75E-03	2.77E-02	6.75E-03	1.48E-01	8.65E-02	3.31E-01	1.98E-01	3.70E-03
3774	365750	3797750	1.22E-01	1.70E-02	2.75E-02	6.58E-03	2.75E-02	6.58E-03	1.45E-01	8.61E-02	3.25E-01	1.92E-01	3.63E-03
3775	366000	3797750	1.21E-01	1.66E-02	2.72E-02	6.43E-03	2.72E-02	6.43E-03	1.43E-01	8.51E-02	3.22E-01	1.86E-01	3.60E-03
3776	366250	3797750	1.19E-01	1.62E-02	2.67E-02	6.27E-03	2.67E-02	6.27E-03	1.41E-01	8.37E-02	3.16E-01	1.78E-01	3.54E-03
3777	366500	3797750	1.17E-01	1.58E-02	2.62E-02	6.11E-03	2.62E-02	6.11E-03	1.38E-01	8.19E-02	3.11E-01	1.70E-01	3.48E-03
3778	366750	3797750	1.15E-01	1.54E-02	2.57E-02	5.96E-03	2.57E-02	5.96E-03	1.36E-01	7.98E-02	3.06E-01	1.65E-01	3.42E-03
3779	354500	3798000	1.22E-01	7.10E-03	1.38E-02	2.66E-03	1.38E-02	2.66E-03	1.46E-01	4.39E-02	3.27E-01	1.00E-01	3.65E-03
3780	354750	3798000	1.25E-01	7.20E-03	1.46E-02	2.70E-03	1.46E-02	2.70E-03	1.49E-01	4.64E-02	3.33E-01	1.01E-01	3.72E-03
3781	355000	3798000	1.36E-01	7.30E-03	1.54E-02	2.73E-03	1.54E-02	2.73E-03	1.65E-01	4.89E-02	3.62E-01	1.09E-01	4.05E-03
3782	355250	3798000	1.53E-01	7.40E-03	1.61E-02	2.77E-03	1.61E-02	2.77E-03	1.86E-01	5.15E-02	4.07E-01	1.20E-01	4.55E-03
3783	355500	3798000	1.65E-01	7.51E-03	1.69E-02	2.81E-03	1.69E-02	2.81E-03	2.00E-01	5.39E-02	4.40E-01	1.29E-01	4.91E-03
3784	355750	3798000	1.75E-01	7.62E-03	1.76E-02	2.86E-03	1.76E-02	2.86E-03	2.12E-01	5.62E-02	4.65E-01	1.33E-01	5.20E-03
3785	356000	3798000	2.06E-01	7.74E-03	1.83E-02	2.90E-03	1.83E-02	2.90E-03	2.51E-01	5.88E-02	5.50E-01	1.37E-01	6.15E-03
3786	356250	3798000	2.27E-01	7.87E-03	1.92E-02	2.95E-03	1.92E-02	2.95E-03	2.76E-01	6.19E-02	6.05E-01	1.35E-01	6.76E-03
3787	356500	3798000	2.31E-01	8.01E-03	1.94E-02	3.02E-03	1.94E-02	3.02E-03	2.85E-01	6.26E-02	6.17E-01	1.59E-01	6.89E-03
3788	356750	3798000	1.91E-01	8.17E-03	1.96E-02	3.11E-03	1.96E-02	3.11E-03	2.36E-01	6.32E-02	5.10E-01	1.65E-01	5.69E-03
3789	357000	3798000	1.95E-01	8.41E-03	1.99E-02	3.21E-03	1.99E-02	3.21E-03	2.42E-01	6.42E-02	5.21E-01	1.55E-01	5.82E-03
3790	357250	3798000	1.91E-01	8.68E-03	2.25E-02	3.32E-03	2.25E-02	3.32E-03	2.37E-01	7.60E-02	5.10E-01	1.70E-01	5.70E-03
3791	357500	3798000	2.10E-01	9.02E-03	3.00E-02	3.46E-03	3.00E-02	3.46E-03	2.60E-01	1.02E-01	5.59E-01	2.48E-01	6.25E-03
3792	357750	3798000	2.29E-01	9.45E-03	3.81E-02	3.64E-03	3.81E-02	3.64E-03	2.85E-01	1.29E-01	6.11E-01	3.33E-01	6.82E-03
3793	358000	3798000	3.19E-01	1.00E-02	4.51E-02	3.88E-03	4.51E-02	3.88E-03	3.97E-01	1.52E-01	8.51E-01	3.97E-01	9.50E-03
3794	358250	3798000	3.90E-01	1.08E-02	6.22E-02	4.19E-03	6.22E-02	4.19E-03	4.86E-01	2.12E-01	1.04E+00	4.59E-01	1.16E-02
3795	358500	3798000	4.30E-01	1.18E-02	1.04E-01	4.59E-03	1.04E-01	4.59E-03	5.37E-01	3.47E-01	1.15E+00	6.97E-01	1.28E-02
3796	358750	3798000	4.54E-01	1.39E-02	1.44E-01	5.36E-03	1.44E-01	5.36E-03	5.66E-01	4.72E-01	1.21E+00	8.58E-01	1.35E-02

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3797	359000	3798000	4.61E-01	1.66E-02	1.34E-01	6.27E-03	1.34E-01	6.27E-03	5.76E-01	4.44E-01	1.23E+00	7.81E-01	1.38E-02
3798	359250	3798000	4.80E-01	1.92E-02	1.28E-01	7.30E-03	1.28E-01	7.30E-03	6.00E-01	4.17E-01	1.28E+00	8.08E-01	1.43E-02
3799	359500	3798000	5.56E-01	2.50E-02	1.39E-01	9.30E-03	1.39E-01	9.30E-03	6.95E-01	4.74E-01	1.48E+00	1.14E+00	1.66E-02
3800	363000	3798000	2.00E-01	2.12E-02	3.53E-02	8.20E-03	3.53E-02	8.20E-03	2.47E-01	1.14E-01	5.34E-01	2.44E-01	5.97E-03
3801	363250	3798000	2.00E-01	2.10E-02	3.49E-02	8.11E-03	3.49E-02	8.11E-03	2.46E-01	1.13E-01	5.33E-01	2.36E-01	5.95E-03
3802	363500	3798000	1.90E-01	2.09E-02	3.38E-02	8.05E-03	3.38E-02	8.05E-03	2.34E-01	1.09E-01	5.07E-01	2.32E-01	5.66E-03
3803	363750	3798000	1.75E-01	2.06E-02	3.21E-02	7.96E-03	3.21E-02	7.96E-03	2.15E-01	1.03E-01	4.65E-01	2.21E-01	5.20E-03
3804	364000	3798000	1.56E-01	2.03E-02	3.09E-02	7.84E-03	3.09E-02	7.84E-03	1.92E-01	9.69E-02	4.17E-01	2.08E-01	4.66E-03
3805	364250	3798000	1.49E-01	1.99E-02	3.01E-02	7.70E-03	3.01E-02	7.70E-03	1.83E-01	9.44E-02	3.97E-01	2.09E-01	4.44E-03
3806	364500	3798000	1.42E-01	1.95E-02	2.92E-02	7.55E-03	2.92E-02	7.55E-03	1.74E-01	9.14E-02	3.78E-01	2.14E-01	4.22E-03
3807	364750	3798000	1.32E-01	1.91E-02	2.84E-02	7.39E-03	2.84E-02	7.39E-03	1.62E-01	9.11E-02	3.52E-01	2.14E-01	3.94E-03
3808	365000	3798000	1.28E-01	1.86E-02	2.84E-02	7.21E-03	2.84E-02	7.21E-03	1.54E-01	9.07E-02	3.42E-01	2.11E-01	3.82E-03
3809	365250	3798000	1.26E-01	1.81E-02	2.83E-02	7.03E-03	2.83E-02	7.03E-03	1.51E-01	8.96E-02	3.37E-01	2.05E-01	3.76E-03
3810	365500	3798000	1.25E-01	1.77E-02	2.80E-02	6.85E-03	2.80E-02	6.85E-03	1.50E-01	8.87E-02	3.34E-01	1.97E-01	3.74E-03
3811	365750	3798000	1.23E-01	1.72E-02	2.76E-02	6.68E-03	2.76E-02	6.68E-03	1.47E-01	8.73E-02	3.29E-01	1.89E-01	3.68E-03
3812	366000	3798000	1.21E-01	1.68E-02	2.72E-02	6.51E-03	2.72E-02	6.51E-03	1.44E-01	8.53E-02	3.24E-01	1.80E-01	3.62E-03
3813	366250	3798000	1.20E-01	1.63E-02	2.75E-02	6.35E-03	2.75E-02	6.35E-03	1.42E-01	8.51E-02	3.21E-01	1.78E-01	3.58E-03
3814	366500	3798000	1.18E-01	1.59E-02	2.77E-02	6.18E-03	2.77E-02	6.18E-03	1.39E-01	8.56E-02	3.15E-01	1.74E-01	3.52E-03
3815	366750	3798000	1.16E-01	1.55E-02	2.77E-02	6.02E-03	2.77E-02	6.02E-03	1.37E-01	8.57E-02	3.09E-01	1.71E-01	3.45E-03
3816	354500	3798250	1.24E-01	7.66E-03	1.34E-02	2.86E-03	1.34E-02	2.86E-03	1.48E-01	4.29E-02	3.31E-01	1.09E-01	3.69E-03
3817	354750	3798250	1.25E-01	7.76E-03	1.35E-02	2.89E-03	1.35E-02	2.89E-03	1.50E-01	4.32E-02	3.34E-01	1.08E-01	3.73E-03
3818	355000	3798250	1.46E-01	7.87E-03	1.43E-02	2.93E-03	1.43E-02	2.93E-03	1.79E-01	4.58E-02	3.90E-01	1.06E-01	4.36E-03
3819	355250	3798250	1.64E-01	7.98E-03	1.54E-02	2.97E-03	1.54E-02	2.97E-03	1.99E-01	4.99E-02	4.38E-01	1.11E-01	4.90E-03
3820	355500	3798250	1.73E-01	8.09E-03	1.65E-02	3.01E-03	1.65E-02	3.01E-03	2.10E-01	5.36E-02	4.61E-01	1.23E-01	5.15E-03
3821	355750	3798250	1.76E-01	8.21E-03	1.70E-02	3.05E-03	1.70E-02	3.05E-03	2.15E-01	5.56E-02	4.69E-01	1.33E-01	5.25E-03
3822	356000	3798250	1.84E-01	8.33E-03	1.78E-02	3.10E-03	1.78E-02	3.10E-03	2.24E-01	5.75E-02	4.91E-01	1.42E-01	5.49E-03
3823	356250	3798250	1.99E-01	8.46E-03	1.88E-02	3.15E-03	1.88E-02	3.15E-03	2.43E-01	6.09E-02	5.31E-01	1.46E-01	5.94E-03
3824	356500	3798250	2.21E-01	8.59E-03	1.90E-02	3.20E-03	1.90E-02	3.20E-03	2.74E-01	6.14E-02	5.90E-01	1.52E-01	6.59E-03
3825	356750	3798250	2.46E-01	8.73E-03	1.98E-02	3.25E-03	1.98E-02	3.25E-03	3.05E-01	6.44E-02	6.56E-01	1.75E-01	7.33E-03
3826	357000	3798250	2.54E-01	8.89E-03	2.03E-02	3.33E-03	2.03E-02	3.33E-03	3.15E-01	6.63E-02	6.78E-01	1.93E-01	7.58E-03
3827	357250	3798250	2.04E-01	9.08E-03	2.01E-02	3.43E-03	2.01E-02	3.43E-03	2.54E-01	6.56E-02	5.45E-01	1.67E-01	6.09E-03
3828	357500	3798250	1.83E-01	9.37E-03	2.15E-02	3.55E-03	2.15E-02	3.55E-03	2.27E-01	7.28E-02	4.88E-01	1.62E-01	5.45E-03
3829	357750	3798250	2.13E-01	9.73E-03	2.95E-02	3.70E-03	2.95E-02	3.70E-03	2.64E-01	1.00E-01	5.67E-01	2.33E-01	6.34E-03
3830	358000	3798250	2.62E-01	1.02E-02	4.26E-02	3.91E-03	4.26E-02	3.91E-03	3.26E-01	1.46E-01	6.98E-01	3.89E-01	7.80E-03
3831	358250	3798250	3.68E-01	1.09E-02	5.83E-02	4.20E-03	5.83E-02	4.20E-03	4.58E-01	2.00E-01	9.80E-01	5.62E-01	1.10E-02
3832	358500	3798250	4.44E-01	1.29E-02	7.65E-02	4.94E-03	7.65E-02	4.94E-03	5.54E-01	2.61E-01	1.18E+00	6.92E-01	1.32E-02
3833	358750	3798250	4.74E-01	1.47E-02	1.32E-01	5.52E-03	1.32E-01	5.52E-03	5.93E-01	4.37E-01	1.27E+00	8.25E-01	1.41E-02
3834	363000	3798250	2.26E-01	2.17E-02	3.53E-02	8.37E-03	3.53E-02	8.37E-03	2.80E-01	1.15E-01	6.03E-01	2.31E-01	6.74E-03
3835	363250	3798250	2.11E-01	2.15E-02	3.41E-02	8.34E-03	3.41E-02	8.34E-03	2.61E-01	1.11E-01	5.63E-01	2.27E-01	6.30E-03
3836	363500	3798250	1.90E-01	2.13E-02	3.25E-02	8.27E-03	3.25E-02	8.27E-03	2.34E-01	1.05E-01	5.06E-01	2.16E-01	5.66E-03
3837	363750	3798250	1.67E-01	2.10E-02	3.13E-02	8.16E-03	3.13E-02	8.16E-03	2.05E-01	1.01E-01	4.45E-01	2.18E-01	4.97E-03
3838	364000	3798250	1.59E-01	2.07E-02	3.08E-02	8.02E-03	3.08E-02	8.02E-03	1.96E-01	9.93E-02	4.25E-01	2.24E-01	4.75E-03
3839	364250	3798250	1.49E-01	2.03E-02	3.02E-02	7.86E-03	3.02E-02	7.86E-03	1.82E-01	9.74E-02	3.96E-01	2.26E-01	4.43E-03
3840	364500	3798250	1.36E-01	1.98E-02	3.00E-02	7.69E-03	3.00E-02	7.69E-03	1.67E-01	9.73E-02	3.62E-01	2.23E-01	4.05E-03
3841	364750	3798250	1.30E-01	1.93E-02	2.95E-02	7.50E-03	2.95E-02	7.50E-03	1.59E-01	9.58E-02	3.47E-01	2.17E-01	3.88E-03
3842	365000	3798250	1.29E-01	1.88E-02	2.88E-02	7.31E-03	2.88E-02	7.31E-03	1.56E-01	9.31E-02	3.44E-01	2.09E-01	3.85E-03
3843	365250	3798250	1.27E-01	1.83E-02	2.85E-02	7.11E-03	2.85E-02	7.11E-03	1.53E-01	9.06E-02	3.40E-01	1.99E-01	3.80E-03
3844	365500	3798250	1.26E-01	1.78E-02	2.91E-02	6.93E-03	2.91E-02	6.93E-03	1.51E-01	9.05E-02	3.37E-01	1.94E-01	3.76E-03
3845	365750	3798250	1.25E-01	1.74E-02	2.95E-02	6.75E-03	2.95E-02	6.75E-03	1.49E-01	9.18E-02	3.33E-01	1.91E-01	3.73E-03
3846	366000	3798250	1.23E-01	1.69E-02	2.96E-02	6.57E-03	2.96E-02	6.57E-03	1.46E-01	9.24E-02	3.27E-01	1.87E-01	3.66E-03
3847	366250	3798250	1.20E-01	1.64E-02	2.97E-02	6.40E-03	2.97E-02	6.40E-03	1.42E-01	9.24E-02	3.20E-01	1.84E-01	3.58E-03
3848	366500	3798250	1.17E-01	1.60E-02	2.95E-02	6.23E-03	2.95E-02	6.23E-03	1.39E-01	9.19E-02	3.13E-01	1.80E-01	3.50E-03
3849	366750	3798250	1.16E-01	1.56E-02	2.93E-02	6.06E-03	2.93E-02	6.06E-03	1.37E-01	9.11E-02	3.09E-01	1.76E-01	3.45E-03
3850	354250	3798500	1.36E-01	8.19E-03	1.48E-02	3.05E-03	1.48E-02	3.05E-03	1.65E-01	4.55E-02	3.62E-01	1.12E-01	4.04E-03
3851	354500	3798500	1.40E-01	8.31E-03	1.47E-02	3.09E-03	1.47E-02	3.09E-03	1.70E-01	4.62E-02	3.74E-01	1.15E-01	4.18E-03
3852	354750	3798500	1.48E-01	8.44E-03	1.46E-02	3.13E-03	1.46E-02	3.13E-03	1.79E-01	4.65E-02	3.94E-01	1.18E-01	4.40E-03
3853	355000	3798500	1.59E-01	8.56E-03	1.45E-02	3.17E-03	1.45E-02	3.17E-03	1.92E-01	4.65E-02	4.23E-01	1.17E-01	4.72E-03
3854	355250	3798500	1.54E-01	8.68E-03	1.44E-02	3.21E-03	1.44E-02	3.21E-03	1.86E-01	4.61E-02	4.11E-01	1.14E-01	4.59E-03
3855	355500	3798500	1.62E-01	8.81E-03	1.47E-02	3.26E-03	1.47E-02	3.26E-03	1.97E-01	4.75E-02	4.33E-01	1.11E-01	4.83E-03
3856	355750	3798500	1.76E-01	8.94E-03	1.56E-02	3.30E-03	1.56E-02	3.30E-03	2.14E-01	5.06E-02	4.69E-01	1.21E-01	5.24E-03
3857	356000	3798500	1.83E-01	9.07E-03	1.65E-02	3.35E-03	1.65E-02	3.35E-03	2.23E-01	5.36E-02	4.89E-01	1.37E-01	5.46E-03
3858	356250	3798500	1.95E-01	9.20E-03	1.80E-02	3.39E-03	1.80E-02	3.39E-03	2.38E-01	5.88E-02	5.20E-01	1.49E-01	5.81E-03
3859	356500	3798500	1.97E-01	9.33E-03	1.92E-02	3.44E-03	1.92E-02	3.44E-03	2.44E-01	6.24E-02	5.26E-01	1.49E-01	5.88E-03
3860	356750	3798500	2.21E-01	9.48E-03	2.01E-02	3.49E-03	2.01E-02	3.49E-03	2.72E-01	6.58E-02	5.89E-01	1.55E-01	6.58E-03
3861	357000	3798500	2.64E-01	9.63E-03	2.29E-02	3.55E-03	2.29E-02	3.55E-03	3.24E-01	7.49E-02	7.04E-01	1.73E-01	7.87E-03
3862	357250	3798500	2.46E-01	9.81E-03	2.01E-02	3.62E-03	2.01E-02	3.62E-03	3.05E-01	6.63E-02	6.56E-01	2.04E-01	7.33E-03
3863	357500	3798500	2.02E-01	1.00E-02	2.00E-02	3.70E-03	2.00E-02	3.70E-03	2.51E-01	6.61E-02	5.39E-01	1.79E-01	6.03E-03
3864	357750	3798500	2.49E-01	1.03E-02	2.04E-02	3.83E-03	2.04E-02	3.83E-03	3.10E-01	6.81E-02	6.63E-01	1.95E-01	7.41E-03
3865	358000	3798500	2.96E-01	1.07E-02	3.31E-02	4.01E-03	3.31E-02	4.01E-03	3.70E-01	1.13E-01	7.90E-01	2.76E-01	8.83E-03
3866	358250	3798500	4.06E-01	1.27E-02	3.74E-02	4.71E-03	3.74E-02	4.71E-03	5.03E-01	1.28E-01	1.08E+00	2.97E-01	1.21E-02
3867	358500	3798500	4.40E-01	1.42E-02	5.30E-02	5.28E-03	5.30E-02	5.28E-03	5.48E-01	1.80E-01	1.17E+00	4.64E-01	1.31E-02
3868	363000	3798500	2.34E-01	2.21E-02	3.46E-02	8.58E-03	3.46E-02	8.58E-03	2.89E-01	1.12E-01	6.24E-01	2.19E-01	6.97E-03
3869	363250	3798500	2.04E-01	2.19E-02	3.37E-02	8.54E-03	3.37E-02	8.54E-03	2.53E-01	1.10E-01	5.45E-01	2.26E-01	6.09E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3870	363500	3798500	1.79E-01	2.17E-02	3.32E-02	8.45E-03	3.32E-02	8.45E-03	2.21E-01	1.08E-01	4.78E-01	2.32E-01	5.34E-03
3871	363750	3798500	1.67E-01	2.13E-02	3.27E-02	8.32E-03	3.27E-02	8.32E-03	2.06E-01	1.06E-01	4.46E-01	2.37E-01	4.99E-03
3872	364000	3798500	1.52E-01	2.09E-02	3.19E-02	8.16E-03	3.19E-02	8.16E-03	1.87E-01	1.05E-01	4.06E-01	2.35E-01	4.54E-03
3873	364250	3798500	1.41E-01	2.05E-02	3.14E-02	7.97E-03	3.14E-02	7.97E-03	1.74E-01	1.03E-01	3.76E-01	2.29E-01	4.21E-03
3874	364500	3798500	1.37E-01	2.00E-02	3.05E-02	7.78E-03	3.05E-02	7.78E-03	1.68E-01	9.97E-02	3.65E-01	2.21E-01	4.08E-03
3875	364750	3798500	1.33E-01	1.94E-02	3.03E-02	7.57E-03	3.03E-02	7.57E-03	1.62E-01	9.56E-02	3.53E-01	2.11E-01	3.95E-03
3876	365000	3798500	1.31E-01	1.89E-02	3.10E-02	7.37E-03	3.10E-02	7.37E-03	1.57E-01	9.73E-02	3.48E-01	2.10E-01	3.89E-03
3877	365250	3798500	1.29E-01	1.84E-02	3.15E-02	7.17E-03	3.15E-02	7.17E-03	1.54E-01	9.88E-02	3.43E-01	2.06E-01	3.84E-03
3878	365500	3798500	1.27E-01	1.79E-02	3.17E-02	6.98E-03	3.17E-02	6.98E-03	1.51E-01	9.94E-02	3.38E-01	2.01E-01	3.78E-03
3879	365750	3798500	1.24E-01	1.74E-02	3.17E-02	6.79E-03	3.17E-02	6.79E-03	1.48E-01	9.94E-02	3.30E-01	1.97E-01	3.69E-03
3880	366000	3798500	1.22E-01	1.69E-02	3.15E-02	6.61E-03	3.15E-02	6.61E-03	1.46E-01	9.88E-02	3.26E-01	1.92E-01	3.65E-03
3881	366250	3798500	1.21E-01	1.65E-02	3.12E-02	6.43E-03	3.12E-02	6.43E-03	1.43E-01	9.77E-02	3.22E-01	1.87E-01	3.60E-03
3882	366500	3798500	1.18E-01	1.60E-02	3.08E-02	6.25E-03	3.08E-02	6.25E-03	1.40E-01	9.64E-02	3.16E-01	1.84E-01	3.53E-03
3883	366750	3798500	1.16E-01	1.56E-02	3.04E-02	6.09E-03	3.04E-02	6.09E-03	1.38E-01	9.48E-02	3.11E-01	1.80E-01	3.47E-03
3884	354250	3798750	1.45E-01	8.93E-03	1.59E-02	3.32E-03	1.59E-02	3.32E-03	1.75E-01	4.87E-02	3.86E-01	1.13E-01	4.31E-03
3885	354500	3798750	1.44E-01	9.08E-03	1.60E-02	3.37E-03	1.60E-02	3.37E-03	1.73E-01	4.90E-02	3.85E-01	1.15E-01	4.30E-03
3886	354750	3798750	1.52E-01	9.23E-03	1.60E-02	3.42E-03	1.60E-02	3.42E-03	1.84E-01	4.91E-02	4.05E-01	1.22E-01	4.53E-03
3887	355000	3798750	1.48E-01	9.39E-03	1.60E-02	3.47E-03	1.60E-02	3.47E-03	1.78E-01	4.97E-02	3.94E-01	1.19E-01	4.40E-03
3888	355250	3798750	1.58E-01	9.54E-03	1.59E-02	3.52E-03	1.59E-02	3.52E-03	1.91E-01	5.04E-02	4.20E-01	1.19E-01	4.70E-03
3889	355500	3798750	1.58E-01	9.69E-03	1.57E-02	3.56E-03	1.57E-02	3.56E-03	1.91E-01	5.06E-02	4.20E-01	1.19E-01	4.70E-03
3890	355750	3798750	1.59E-01	9.84E-03	1.57E-02	3.61E-03	1.57E-02	3.61E-03	1.93E-01	5.04E-02	4.24E-01	1.18E-01	4.74E-03
3891	356000	3798750	1.65E-01	1.00E-02	1.54E-02	3.66E-03	1.54E-02	3.66E-03	1.99E-01	4.95E-02	4.39E-01	1.16E-01	4.91E-03
3892	356250	3798750	1.90E-01	1.01E-02	1.59E-02	3.71E-03	1.59E-02	3.71E-03	2.32E-01	5.23E-02	5.06E-01	1.31E-01	5.66E-03
3893	356500	3798750	2.15E-01	1.03E-02	1.98E-02	3.76E-03	1.98E-02	3.76E-03	2.64E-01	6.52E-02	5.74E-01	1.47E-01	6.41E-03
3894	356750	3798750	2.27E-01	1.04E-02	2.13E-02	3.81E-03	2.13E-02	3.81E-03	2.78E-01	7.06E-02	6.05E-01	1.63E-01	6.76E-03
3895	357000	3798750	2.35E-01	1.06E-02	2.22E-02	3.87E-03	2.22E-02	3.87E-03	2.88E-01	7.30E-02	6.26E-01	1.83E-01	6.99E-03
3896	357250	3798750	2.77E-01	1.08E-02	2.41E-02	3.93E-03	2.41E-02	3.93E-03	3.41E-01	7.96E-02	7.39E-01	1.97E-01	8.26E-03
3897	357500	3798750	3.31E-01	1.15E-02	2.48E-02	4.21E-03	2.48E-02	4.21E-03	4.11E-01	8.19E-02	8.84E-01	1.93E-01	9.88E-03
3898	357750	3798750	2.85E-01	1.13E-02	2.13E-02	4.10E-03	2.13E-02	4.10E-03	3.54E-01	7.20E-02	7.59E-01	2.42E-01	8.48E-03
3899	358000	3798750	3.99E-01	1.31E-02	3.08E-02	4.79E-03	3.08E-02	4.79E-03	4.95E-01	1.02E-01	1.06E+00	2.17E-01	1.19E-02
3900	358250	3798750	4.20E-01	1.41E-02	3.61E-02	5.13E-03	3.61E-02	5.13E-03	5.22E-01	1.21E-01	1.12E+00	2.77E-01	1.25E-02
3901	363000	3798750	2.16E-01	2.23E-02	3.51E-02	8.73E-03	3.51E-02	8.73E-03	2.67E-01	1.15E-01	5.75E-01	2.34E-01	6.43E-03
3902	363250	3798750	1.88E-01	2.21E-02	3.50E-02	8.67E-03	3.50E-02	8.67E-03	2.33E-01	1.15E-01	5.02E-01	2.43E-01	5.61E-03
3903	363500	3798750	1.71E-01	2.18E-02	3.44E-02	8.55E-03	3.44E-02	8.55E-03	2.11E-01	1.13E-01	4.55E-01	2.45E-01	5.08E-03
3904	363750	3798750	1.58E-01	2.14E-02	3.35E-02	8.40E-03	3.35E-02	8.40E-03	1.94E-01	1.11E-01	4.21E-01	2.40E-01	4.70E-03
3905	364000	3798750	1.55E-01	2.10E-02	3.25E-02	8.22E-03	3.25E-02	8.22E-03	1.91E-01	1.07E-01	4.14E-01	2.30E-01	4.63E-03
3906	364250	3798750	1.50E-01	2.05E-02	3.19E-02	8.02E-03	3.19E-02	8.02E-03	1.84E-01	1.02E-01	4.00E-01	2.28E-01	4.47E-03
3907	364500	3798750	1.42E-01	1.99E-02	3.29E-02	7.80E-03	3.29E-02	7.80E-03	1.75E-01	1.04E-01	3.80E-01	2.26E-01	4.24E-03
3908	364750	3798750	1.34E-01	1.94E-02	3.34E-02	7.59E-03	3.34E-02	7.59E-03	1.64E-01	1.06E-01	3.57E-01	2.20E-01	3.99E-03
3909	365000	3798750	1.30E-01	1.89E-02	3.36E-02	7.39E-03	3.36E-02	7.39E-03	1.58E-01	1.06E-01	3.46E-01	2.14E-01	3.86E-03
3910	365250	3798750	1.28E-01	1.84E-02	3.36E-02	7.19E-03	3.36E-02	7.19E-03	1.56E-01	1.06E-01	3.42E-01	2.09E-01	3.82E-03
3911	365500	3798750	1.27E-01	1.79E-02	3.34E-02	7.00E-03	3.34E-02	7.00E-03	1.53E-01	1.06E-01	3.38E-01	2.02E-01	3.78E-03
3912	365750	3798750	1.25E-01	1.74E-02	3.31E-02	6.81E-03	3.31E-02	6.81E-03	1.49E-01	1.04E-01	3.33E-01	1.96E-01	3.72E-03
3913	366000	3798750	1.23E-01	1.69E-02	3.27E-02	6.62E-03	3.27E-02	6.62E-03	1.46E-01	1.03E-01	3.28E-01	1.92E-01	3.66E-03
3914	366250	3798750	1.21E-01	1.64E-02	3.22E-02	6.44E-03	3.22E-02	6.44E-03	1.44E-01	1.01E-01	3.23E-01	1.87E-01	3.61E-03
3915	366500	3798750	1.19E-01	1.60E-02	3.16E-02	6.26E-03	3.16E-02	6.26E-03	1.41E-01	9.90E-02	3.17E-01	1.81E-01	3.54E-03
3916	366750	3798750	1.17E-01	1.56E-02	3.10E-02	6.09E-03	3.10E-02	6.09E-03	1.38E-01	9.69E-02	3.11E-01	1.75E-01	3.48E-03
3917	354250	3799000	1.29E-01	9.78E-03	1.69E-02	3.63E-03	1.69E-02	3.63E-03	1.55E-01	5.20E-02	3.43E-01	1.34E-01	3.84E-03
3918	354500	3799000	1.32E-01	9.97E-03	1.70E-02	3.69E-03	1.70E-02	3.69E-03	1.59E-01	5.26E-02	3.53E-01	1.31E-01	3.94E-03
3919	354750	3799000	1.52E-01	1.02E-02	1.72E-02	3.75E-03	1.72E-02	3.75E-03	1.84E-01	5.32E-02	4.04E-01	1.28E-01	4.52E-03
3920	355000	3799000	1.43E-01	1.04E-02	1.73E-02	3.82E-03	1.73E-02	3.82E-03	1.72E-01	5.36E-02	3.82E-01	1.24E-01	4.27E-03
3921	355250	3799000	1.61E-01	1.06E-02	1.73E-02	3.88E-03	1.73E-02	3.88E-03	1.94E-01	5.37E-02	4.29E-01	1.22E-01	4.79E-03
3922	355500	3799000	1.75E-01	1.08E-02	1.73E-02	3.94E-03	1.73E-02	3.94E-03	2.11E-01	5.36E-02	4.66E-01	1.35E-01	5.20E-03
3923	355750	3799000	1.80E-01	1.09E-02	1.71E-02	4.00E-03	1.71E-02	4.00E-03	2.18E-01	5.45E-02	4.79E-01	1.36E-01	5.36E-03
3924	356000	3799000	1.81E-01	1.11E-02	1.71E-02	4.06E-03	1.71E-02	4.06E-03	2.20E-01	5.50E-02	4.82E-01	1.25E-01	5.38E-03
3925	356250	3799000	1.98E-01	1.13E-02	1.72E-02	4.11E-03	1.72E-02	4.11E-03	2.42E-01	5.51E-02	5.29E-01	1.40E-01	5.91E-03
3926	356500	3799000	2.09E-01	1.15E-02	1.68E-02	4.17E-03	1.68E-02	4.17E-03	2.56E-01	5.43E-02	5.57E-01	1.34E-01	6.23E-03
3927	356750	3799000	2.27E-01	1.17E-02	2.00E-02	4.22E-03	2.00E-02	4.22E-03	2.79E-01	6.50E-02	6.04E-01	1.50E-01	6.75E-03
3928	357000	3799000	2.48E-01	1.19E-02	2.31E-02	4.28E-03	2.31E-02	4.28E-03	3.04E-01	7.59E-02	6.60E-01	1.63E-01	7.38E-03
3929	357250	3799000	2.66E-01	1.24E-02	2.50E-02	4.44E-03	2.50E-02	4.44E-03	3.28E-01	8.28E-02	7.10E-01	1.85E-01	7.93E-03
3930	357500	3799000	2.76E-01	1.32E-02	2.69E-02	4.69E-03	2.69E-02	4.69E-03	3.43E-01	8.82E-02	7.37E-01	2.06E-01	8.24E-03
3931	357750	3799000	3.32E-01	1.33E-02	2.38E-02	4.71E-03	2.38E-02	4.71E-03	4.13E-01	7.75E-02	8.85E-01	2.20E-01	9.89E-03
3932	358000	3799000	4.15E-01	1.53E-02	2.91E-02	5.45E-03	2.91E-02	5.45E-03	5.16E-01	9.73E-02	1.11E+00	2.40E-01	1.24E-02
3933	358250	3799000	4.70E-01	1.65E-02	3.23E-02	5.85E-03	3.23E-02	5.85E-03	5.85E-01	1.09E-01	1.25E+00	2.44E-01	1.40E-02
3934	363000	3799000	1.89E-01	2.23E-02	3.66E-02	8.79E-03	3.66E-02	8.79E-03	2.34E-01	1.21E-01	5.05E-01	2.47E-01	5.64E-03
3935	363250	3799000	1.81E-01	2.20E-02	3.58E-02	8.69E-03	3.58E-02	8.69E-03	2.24E-01	1.20E-01	4.83E-01	2.44E-01	5.40E-03
3936	363500	3799000	1.78E-01	2.17E-02	3.47E-02	8.56E-03	3.47E-02	8.56E-03	2.20E-01	1.15E-01	4.76E-01	2.41E-01	5.32E-03
3937	363750	3799000	1.71E-01	2.13E-02	3.30E-02	8.39E-03	3.30E-02	8.39E-03	2.11E-01	1.09E-01	4.56E-01	2.43E-01	5.09E-03
3938	364000	3799000	1.61E-01	2.08E-02	3.42E-02	8.19E-03	3.42E-02	8.19E-03	1.98E-01	1.09E-01	4.29E-01	2.40E-01	4.79E-03
3939	364250	3799000	1.53E-01	2.03E-02	3.49E-02	7.98E-03	3.49E-02	7.98E-03	1.88E-01	1.12E-01	4.07E-01	2.33E-01	4.55E-03
3940	364500	3799000	1.52E-01	1.98E-02	3.53E-02	7.78E-03	3.53E-02	7.78E-03	1.86E-01	1.13E-01	4.04E-01	2.24E-01	4.52E-03
3941	364750	3799000	1.48E-01	1.93E-02	3.53E-02	7.58E-03	3.53E-02	7.58E-03	1.82E-01	1.13E-01	3.96E-01	2.17E-01	4.42E-03
3942	365000	3799000	1.44E-01	1.88E-02	3.51E-02	7.38E-03	3.51E-02	7.38E-03	1.77E-01	1.12E-01	3.84E-01	2.09E-01	4.29E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
3943	365250	3799000	1.39E-01	1.83E-02	3.48E-02	7.18E-03	3.48E-02	7.18E-03	1.70E-01	1.11E-01	3.70E-01	2.02E-01	4.13E-03
3944	365500	3799000	1.33E-01	1.78E-02	3.43E-02	6.99E-03	3.43E-02	6.99E-03	1.62E-01	1.09E-01	3.54E-01	1.96E-01	3.96E-03
3945	365750	3799000	1.27E-01	1.73E-02	3.37E-02	6.80E-03	3.37E-02	6.80E-03	1.55E-01	1.07E-01	3.38E-01	1.90E-01	3.77E-03
3946	366000	3799000	1.24E-01	1.68E-02	3.31E-02	6.61E-03	3.31E-02	6.61E-03	1.48E-01	1.05E-01	3.30E-01	1.85E-01	3.68E-03
3947	366250	3799000	1.22E-01	1.64E-02	3.25E-02	6.43E-03	3.25E-02	6.43E-03	1.45E-01	1.02E-01	3.24E-01	1.80E-01	3.63E-03
3948	366500	3799000	1.19E-01	1.59E-02	3.18E-02	6.25E-03	3.18E-02	6.25E-03	1.42E-01	9.99E-02	3.18E-01	1.74E-01	3.56E-03
3949	366750	3799000	1.17E-01	1.55E-02	3.11E-02	6.08E-03	3.11E-02	6.08E-03	1.39E-01	9.75E-02	3.13E-01	1.69E-01	3.49E-03
3950	354250	3799250	1.24E-01	1.07E-02	1.75E-02	3.98E-03	1.75E-02	3.98E-03	1.48E-01	5.43E-02	3.29E-01	1.53E-01	3.68E-03
3951	354500	3799250	1.25E-01	1.10E-02	1.78E-02	4.06E-03	1.78E-02	4.06E-03	1.50E-01	5.54E-02	3.35E-01	1.53E-01	3.74E-03
3952	354750	3799250	1.35E-01	1.12E-02	1.80E-02	4.14E-03	1.80E-02	4.14E-03	1.61E-01	5.64E-02	3.59E-01	1.52E-01	4.01E-03
3953	355000	3799250	1.36E-01	1.15E-02	1.83E-02	4.22E-03	1.83E-02	4.22E-03	1.63E-01	5.72E-02	3.63E-01	1.51E-01	4.06E-03
3954	355250	3799250	1.68E-01	1.17E-02	1.85E-02	4.30E-03	1.85E-02	4.30E-03	2.03E-01	5.79E-02	4.47E-01	1.48E-01	4.99E-03
3955	355500	3799250	1.79E-01	1.20E-02	1.86E-02	4.38E-03	1.86E-02	4.38E-03	2.17E-01	5.84E-02	4.77E-01	1.44E-01	5.33E-03
3956	355750	3799250	1.89E-01	1.23E-02	1.86E-02	4.46E-03	1.86E-02	4.46E-03	2.30E-01	5.86E-02	5.03E-01	1.45E-01	5.62E-03
3957	356000	3799250	1.91E-01	1.25E-02	1.86E-02	4.54E-03	1.86E-02	4.54E-03	2.34E-01	5.86E-02	5.10E-01	1.44E-01	5.70E-03
3958	356250	3799250	2.03E-01	1.28E-02	1.84E-02	4.61E-03	1.84E-02	4.61E-03	2.47E-01	5.81E-02	5.41E-01	1.50E-01	6.04E-03
3959	356500	3799250	2.17E-01	1.30E-02	2.13E-02	4.68E-03	2.13E-02	4.68E-03	2.68E-01	6.93E-02	5.79E-01	1.72E-01	6.47E-03
3960	356750	3799250	2.30E-01	1.32E-02	2.39E-02	4.74E-03	2.39E-02	4.74E-03	2.84E-01	7.81E-02	6.13E-01	1.88E-01	6.85E-03
3961	357000	3799250	2.43E-01	1.36E-02	2.44E-02	4.85E-03	2.44E-02	4.85E-03	3.01E-01	7.95E-02	6.47E-01	1.85E-01	7.23E-03
3962	357250	3799250	2.69E-01	1.46E-02	2.53E-02	5.15E-03	2.53E-02	5.15E-03	3.34E-01	8.25E-02	7.18E-01	2.01E-01	8.02E-03
3963	357500	3799250	3.00E-01	1.58E-02	3.00E-02	5.54E-03	3.00E-02	5.54E-03	3.71E-01	9.68E-02	7.99E-01	2.12E-01	8.93E-03
3964	357750	3799250	3.26E-01	1.69E-02	3.41E-02	5.89E-03	3.41E-02	5.89E-03	4.05E-01	1.11E-01	8.68E-01	2.36E-01	9.70E-03
3965	358000	3799250	3.20E-01	1.73E-02	3.08E-02	5.97E-03	3.08E-02	5.97E-03	3.99E-01	1.01E-01	8.54E-01	2.07E-01	9.54E-03
3966	363000	3799250	2.03E-01	2.19E-02	3.68E-02	8.73E-03	3.68E-02	8.73E-03	2.51E-01	1.23E-01	5.42E-01	2.52E-01	6.05E-03
3967	363250	3799250	1.93E-01	2.17E-02	3.47E-02	8.61E-03	3.47E-02	8.61E-03	2.39E-01	1.16E-01	5.15E-01	2.54E-01	5.75E-03
3968	363500	3799250	1.80E-01	2.13E-02	3.41E-02	8.46E-03	3.41E-02	8.46E-03	2.23E-01	1.11E-01	4.81E-01	2.50E-01	5.38E-03
3969	363750	3799250	1.81E-01	2.09E-02	3.54E-02	8.30E-03	3.54E-02	8.30E-03	2.23E-01	1.15E-01	4.82E-01	2.41E-01	5.39E-03
3970	364000	3799250	1.77E-01	2.05E-02	3.61E-02	8.12E-03	3.61E-02	8.12E-03	2.19E-01	1.17E-01	4.73E-01	2.30E-01	5.29E-03
3971	364250	3799250	1.72E-01	2.01E-02	3.62E-02	7.93E-03	3.62E-02	7.93E-03	2.11E-01	1.17E-01	4.58E-01	2.20E-01	5.12E-03
3972	364500	3799250	1.64E-01	1.96E-02	3.61E-02	7.74E-03	3.61E-02	7.74E-03	2.02E-01	1.16E-01	4.38E-01	2.09E-01	4.90E-03
3973	364750	3799250	1.56E-01	1.91E-02	3.58E-02	7.54E-03	3.58E-02	7.54E-03	1.92E-01	1.15E-01	4.17E-01	2.05E-01	4.66E-03
3974	365000	3799250	1.48E-01	1.86E-02	3.54E-02	7.35E-03	3.54E-02	7.35E-03	1.81E-01	1.13E-01	3.94E-01	2.00E-01	4.41E-03
3975	365250	3799250	1.39E-01	1.81E-02	3.49E-02	7.15E-03	3.49E-02	7.15E-03	1.71E-01	1.11E-01	3.72E-01	1.94E-01	4.15E-03
3976	365500	3799250	1.31E-01	1.76E-02	3.43E-02	6.96E-03	3.43E-02	6.96E-03	1.61E-01	1.09E-01	3.50E-01	1.91E-01	3.91E-03
3977	365750	3799250	1.26E-01	1.71E-02	3.36E-02	6.76E-03	3.36E-02	6.76E-03	1.51E-01	1.07E-01	3.36E-01	1.92E-01	3.75E-03
3978	366000	3799250	1.24E-01	1.67E-02	3.29E-02	6.58E-03	3.29E-02	6.58E-03	1.48E-01	1.04E-01	3.31E-01	1.92E-01	3.70E-03
3979	366250	3799250	1.23E-01	1.62E-02	3.22E-02	6.39E-03	3.22E-02	6.39E-03	1.46E-01	1.02E-01	3.27E-01	1.95E-01	3.65E-03
3980	366500	3799250	1.21E-01	1.58E-02	3.15E-02	6.22E-03	3.15E-02	6.22E-03	1.43E-01	9.93E-02	3.22E-01	1.98E-01	3.60E-03
3981	366750	3799250	1.19E-01	1.53E-02	3.08E-02	6.04E-03	3.08E-02	6.04E-03	1.40E-01	9.68E-02	3.16E-01	1.99E-01	3.53E-03
3982	354250	3799500	1.26E-01	1.18E-02	1.84E-02	4.36E-03	1.84E-02	4.36E-03	1.51E-01	5.61E-02	3.37E-01	1.70E-01	3.77E-03
3983	354500	3799500	1.34E-01	1.21E-02	1.87E-02	4.47E-03	1.87E-02	4.47E-03	1.60E-01	5.70E-02	3.56E-01	1.72E-01	3.98E-03
3984	354750	3799500	1.41E-01	1.24E-02	1.89E-02	4.57E-03	1.89E-02	4.57E-03	1.69E-01	5.83E-02	3.76E-01	1.73E-01	4.20E-03
3985	355000	3799500	1.45E-01	1.27E-02	1.90E-02	4.68E-03	1.90E-02	4.68E-03	1.74E-01	5.96E-02	3.86E-01	1.72E-01	4.32E-03
3986	355250	3799500	1.59E-01	1.31E-02	1.93E-02	4.78E-03	1.93E-02	4.78E-03	1.92E-01	6.09E-02	4.23E-01	1.71E-01	4.73E-03
3987	355500	3799500	1.81E-01	1.34E-02	1.96E-02	4.89E-03	1.96E-02	4.89E-03	2.20E-01	6.20E-02	4.82E-01	1.81E-01	5.38E-03
3988	355750	3799500	1.89E-01	1.37E-02	2.00E-02	5.00E-03	2.00E-02	5.00E-03	2.32E-01	6.41E-02	5.04E-01	2.07E-01	5.63E-03
3989	356000	3799500	2.04E-01	1.41E-02	2.01E-02	5.11E-03	2.01E-02	5.11E-03	2.49E-01	6.47E-02	5.44E-01	1.96E-01	6.08E-03
3990	356250	3799500	2.16E-01	1.44E-02	2.08E-02	5.21E-03	2.08E-02	5.21E-03	2.64E-01	6.60E-02	5.76E-01	1.97E-01	6.43E-03
3991	356500	3799500	2.26E-01	1.47E-02	2.17E-02	5.30E-03	2.17E-02	5.30E-03	2.77E-01	6.88E-02	6.02E-01	1.95E-01	6.72E-03
3992	356750	3799500	2.37E-01	1.54E-02	2.45E-02	5.50E-03	2.45E-02	5.50E-03	2.93E-01	7.91E-02	6.31E-01	1.93E-01	7.05E-03
3993	357000	3799500	1.97E-01	1.53E-02	2.25E-02	5.47E-03	2.25E-02	5.47E-03	2.45E-01	7.34E-02	5.26E-01	1.60E-01	5.88E-03
3994	357250	3799500	2.58E-01	1.66E-02	2.74E-02	5.86E-03	2.74E-02	5.86E-03	3.20E-01	8.99E-02	6.88E-01	1.99E-01	7.69E-03
3995	357500	3799500	2.86E-01	1.79E-02	3.01E-02	6.28E-03	3.01E-02	6.28E-03	3.56E-01	9.89E-02	7.62E-01	2.28E-01	8.52E-03
3996	357750	3799500	3.39E-01	2.06E-02	3.33E-02	7.10E-03	3.33E-02	7.10E-03	4.21E-01	1.09E-01	9.03E-01	2.62E-01	1.01E-02
3997	358000	3799500	3.43E-01	2.11E-02	3.15E-02	7.21E-03	3.15E-02	7.21E-03	4.27E-01	1.04E-01	9.15E-01	2.52E-01	1.02E-02
3998	362750	3799500	2.11E-01	2.16E-02	3.60E-02	8.68E-03	3.60E-02	8.68E-03	2.62E-01	1.20E-01	5.63E-01	2.55E-01	6.29E-03
3999	363000	3799500	2.13E-01	2.14E-02	3.31E-02	8.58E-03	3.31E-02	8.58E-03	2.65E-01	1.10E-01	5.69E-01	2.49E-01	6.36E-03
4000	363250	3799500	2.11E-01	2.12E-02	3.41E-02	8.46E-03	3.41E-02	8.46E-03	2.62E-01	1.12E-01	5.64E-01	2.39E-01	6.30E-03
4001	363500	3799500	2.04E-01	2.09E-02	3.52E-02	8.34E-03	3.52E-02	8.34E-03	2.53E-01	1.16E-01	5.45E-01	2.26E-01	6.09E-03
4002	363750	3799500	1.95E-01	2.06E-02	3.59E-02	8.20E-03	3.59E-02	8.20E-03	2.41E-01	1.18E-01	5.19E-01	2.12E-01	5.80E-03
4003	364000	3799500	1.84E-01	2.02E-02	3.62E-02	8.04E-03	3.62E-02	8.04E-03	2.27E-01	1.18E-01	4.90E-01	2.08E-01	5.47E-03
4004	364250	3799500	1.72E-01	1.98E-02	3.61E-02	7.86E-03	3.61E-02	7.86E-03	2.12E-01	1.17E-01	4.59E-01	2.12E-01	5.13E-03
4005	364500	3799500	1.61E-01	1.93E-02	3.58E-02	7.67E-03	3.58E-02	7.67E-03	1.98E-01	1.16E-01	4.28E-01	2.15E-01	4.79E-03
4006	364750	3799500	1.50E-01	1.88E-02	3.53E-02	7.47E-03	3.53E-02	7.47E-03	1.84E-01	1.14E-01	3.99E-01	2.18E-01	4.46E-03
4007	365000	3799500	1.39E-01	1.83E-02	3.48E-02	7.28E-03	3.48E-02	7.28E-03	1.71E-01	1.12E-01	3.71E-01	2.24E-01	4.14E-03
4008	365250	3799500	1.31E-01	1.78E-02	3.42E-02	7.08E-03	3.42E-02	7.08E-03	1.61E-01	1.10E-01	3.50E-01	2.29E-01	3.91E-03
4009	365500	3799500	1.29E-01	1.74E-02	3.36E-02	6.88E-03	3.36E-02	6.88E-03	1.54E-01	1.08E-01	3.43E-01	2.33E-01	3.83E-03
4010	365750	3799500	1.27E-01	1.69E-02	3.29E-02	6.69E-03	3.29E-02	6.69E-03	1.51E-01	1.05E-01	3.38E-01	2.34E-01	3.78E-03
4011	366000	3799500	1.25E-01	1.64E-02	3.22E-02	6.51E-03	3.22E-02	6.51E-03	1.48E-01	1.03E-01	3.32E-01	2.35E-01	3.71E-03
4012	366250	3799500	1.23E-01	1.60E-02	3.15E-02	6.33E-03	3.15E-02	6.33E-03	1.46E-01	1.00E-01	3.27E-01	2.35E-01	3.66E-03
4013	366500	3799500	1.21E-01	1.55E-02	3.08E-02	6.15E-03	3.08E-02	6.15E-03	1.43E-01	9.76E-02	3.22E-01	2.33E-01	3.59E-03
4014	366750	3799500	1.18E-01	1.51E-02	3.01E-02	5.98E-03	3.01E-02	5.98E-03	1.40E-01	9.51E-02	3.15E-01	2.31E-01	3.52E-03
4015	354250	3799750	1.32E-01	1.29E-02	2.09E-02	4.78E-03	2.09E-02	4.78E-03	1.58E-01	6.35E-02	3.52E-01	1.79E-01	3.93E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4016	354500	3799750	1.44E-01	1.33E-02	2.11E-02	4.91E-03	2.11E-02	4.91E-03	1.74E-01	6.43E-02	3.84E-01	1.82E-01	4.29E-03
4017	354750	3799750	1.54E-01	1.37E-02	2.13E-02	5.04E-03	2.13E-02	5.04E-03	1.86E-01	6.50E-02	4.11E-01	1.86E-01	4.60E-03
4018	355000	3799750	1.54E-01	1.41E-02	2.14E-02	5.18E-03	2.14E-02	5.18E-03	1.86E-01	6.55E-02	4.10E-01	1.89E-01	4.58E-03
4019	355250	3799750	1.76E-01	1.45E-02	2.15E-02	5.32E-03	2.15E-02	5.32E-03	2.14E-01	6.59E-02	4.69E-01	1.91E-01	5.24E-03
4020	355500	3799750	1.84E-01	1.49E-02	2.15E-02	5.46E-03	2.15E-02	5.46E-03	2.24E-01	6.60E-02	4.90E-01	2.00E-01	5.48E-03
4021	355750	3799750	1.83E-01	1.54E-02	2.25E-02	5.60E-03	2.25E-02	5.60E-03	2.25E-01	7.30E-02	4.88E-01	2.40E-01	5.45E-03
4022	356000	3799750	2.02E-01	1.58E-02	2.38E-02	5.75E-03	2.38E-02	5.75E-03	2.49E-01	7.63E-02	5.39E-01	2.50E-01	6.02E-03
4023	356250	3799750	2.08E-01	1.63E-02	2.45E-02	5.88E-03	2.45E-02	5.88E-03	2.57E-01	7.91E-02	5.55E-01	2.59E-01	6.21E-03
4024	356500	3799750	2.30E-01	1.68E-02	2.58E-02	6.09E-03	2.58E-02	6.09E-03	2.84E-01	8.40E-02	6.14E-01	2.73E-01	6.86E-03
4025	356750	3799750	1.98E-01	1.71E-02	2.34E-02	6.13E-03	2.34E-02	6.13E-03	2.46E-01	7.61E-02	5.28E-01	2.38E-01	5.90E-03
4026	357000	3799750	1.86E-01	1.75E-02	2.26E-02	6.24E-03	2.26E-02	6.24E-03	2.31E-01	7.28E-02	4.97E-01	2.02E-01	5.55E-03
4027	357250	3799750	2.42E-01	1.86E-02	2.53E-02	6.61E-03	2.53E-02	6.61E-03	3.00E-01	8.16E-02	6.44E-01	2.42E-01	7.20E-03
4028	357500	3799750	2.65E-01	1.99E-02	2.64E-02	7.01E-03	2.64E-02	7.01E-03	3.29E-01	8.52E-02	7.06E-01	2.40E-01	7.89E-03
4029	357750	3799750	3.10E-01	2.26E-02	3.08E-02	7.88E-03	3.08E-02	7.88E-03	3.86E-01	1.03E-01	8.26E-01	2.59E-01	9.23E-03
4030	358000	3799750	3.60E-01	2.50E-02	3.52E-02	8.62E-03	3.52E-02	8.62E-03	4.49E-01	1.18E-01	9.60E-01	2.70E-01	1.07E-02
4031	362500	3799750	2.41E-01	2.13E-02	3.91E-02	8.56E-03	3.91E-02	8.56E-03	3.00E-01	1.34E-01	6.42E-01	2.88E-01	7.18E-03
4032	362750	3799750	2.35E-01	2.11E-02	3.51E-02	8.48E-03	3.51E-02	8.48E-03	2.92E-01	1.19E-01	6.28E-01	2.37E-01	7.01E-03
4033	363000	3799750	2.24E-01	2.10E-02	3.34E-02	8.41E-03	3.34E-02	8.41E-03	2.78E-01	1.09E-01	5.97E-01	2.07E-01	6.67E-03
4034	363250	3799750	2.10E-01	2.08E-02	3.38E-02	8.32E-03	3.38E-02	8.32E-03	2.60E-01	1.12E-01	5.59E-01	2.17E-01	6.25E-03
4035	363500	3799750	1.95E-01	2.05E-02	3.46E-02	8.20E-03	3.46E-02	8.20E-03	2.41E-01	1.15E-01	5.19E-01	2.30E-01	5.80E-03
4036	363750	3799750	1.80E-01	2.01E-02	3.51E-02	8.06E-03	3.51E-02	8.06E-03	2.22E-01	1.16E-01	4.79E-01	2.45E-01	5.35E-03
4037	364000	3799750	1.65E-01	1.98E-02	3.53E-02	7.91E-03	3.53E-02	7.91E-03	2.04E-01	1.16E-01	4.41E-01	2.56E-01	4.93E-03
4038	364250	3799750	1.53E-01	1.93E-02	3.51E-02	7.73E-03	3.51E-02	7.73E-03	1.88E-01	1.15E-01	4.07E-01	2.64E-01	4.55E-03
4039	364500	3799750	1.45E-01	1.89E-02	3.47E-02	7.54E-03	3.47E-02	7.54E-03	1.78E-01	1.13E-01	3.86E-01	2.69E-01	4.31E-03
4040	364750	3799750	1.37E-01	1.84E-02	3.42E-02	7.35E-03	3.42E-02	7.35E-03	1.68E-01	1.11E-01	3.66E-01	2.71E-01	4.09E-03
4041	365000	3799750	1.33E-01	1.80E-02	3.37E-02	7.15E-03	3.37E-02	7.15E-03	1.62E-01	1.09E-01	3.53E-01	2.72E-01	3.95E-03
4042	365250	3799750	1.30E-01	1.75E-02	3.31E-02	6.96E-03	3.31E-02	6.96E-03	1.58E-01	1.07E-01	3.46E-01	2.71E-01	3.86E-03
4043	365500	3799750	1.28E-01	1.70E-02	3.25E-02	6.77E-03	3.25E-02	6.77E-03	1.54E-01	1.05E-01	3.41E-01	2.69E-01	3.81E-03
4044	365750	3799750	1.26E-01	1.66E-02	3.19E-02	6.58E-03	3.19E-02	6.58E-03	1.51E-01	1.02E-01	3.37E-01	2.66E-01	3.76E-03
4045	366000	3799750	1.25E-01	1.61E-02	3.13E-02	6.40E-03	3.13E-02	6.40E-03	1.49E-01	1.00E-01	3.32E-01	2.62E-01	3.71E-03
4046	366250	3799750	1.23E-01	1.57E-02	3.06E-02	6.22E-03	3.06E-02	6.22E-03	1.46E-01	9.77E-02	3.27E-01	2.58E-01	3.65E-03
4047	366500	3799750	1.21E-01	1.52E-02	3.00E-02	6.05E-03	3.00E-02	6.05E-03	1.43E-01	9.53E-02	3.22E-01	2.53E-01	3.60E-03
4048	366750	3799750	1.19E-01	1.48E-02	2.93E-02	5.88E-03	2.93E-02	5.88E-03	1.41E-01	9.29E-02	3.17E-01	2.48E-01	3.54E-03
4049	354000	3800000	1.33E-01	1.37E-02	2.37E-02	5.09E-03	2.37E-02	5.09E-03	1.59E-01	7.24E-02	3.54E-01	1.69E-01	3.96E-03
4050	354250	3800000	1.47E-01	1.41E-02	2.41E-02	5.24E-03	2.41E-02	5.24E-03	1.76E-01	7.36E-02	3.91E-01	1.74E-01	4.37E-03
4051	354500	3800000	1.53E-01	1.45E-02	2.44E-02	5.40E-03	2.44E-02	5.40E-03	1.85E-01	7.48E-02	4.09E-01	1.78E-01	4.57E-03
4052	354750	3800000	1.60E-01	1.50E-02	2.47E-02	5.56E-03	2.47E-02	5.56E-03	1.94E-01	7.58E-02	4.27E-01	1.83E-01	4.77E-03
4053	355000	3800000	1.68E-01	1.55E-02	2.49E-02	5.73E-03	2.49E-02	5.73E-03	2.04E-01	7.68E-02	4.49E-01	1.87E-01	5.02E-03
4054	355250	3800000	1.66E-01	1.60E-02	2.51E-02	5.90E-03	2.51E-02	5.90E-03	2.01E-01	7.77E-02	4.43E-01	1.91E-01	4.95E-03
4055	355500	3800000	1.80E-01	1.65E-02	2.54E-02	6.08E-03	2.54E-02	6.08E-03	2.21E-01	7.93E-02	4.80E-01	2.27E-01	5.36E-03
4056	355750	3800000	1.78E-01	1.71E-02	2.57E-02	6.26E-03	2.57E-02	6.26E-03	2.19E-01	8.09E-02	4.75E-01	2.37E-01	5.30E-03
4057	356000	3800000	1.95E-01	1.77E-02	2.68E-02	6.44E-03	2.68E-02	6.44E-03	2.41E-01	8.45E-02	5.20E-01	2.58E-01	5.81E-03
4058	356250	3800000	1.75E-01	1.82E-02	2.58E-02	6.62E-03	2.58E-02	6.62E-03	2.16E-01	8.12E-02	4.66E-01	2.46E-01	5.20E-03
4059	356500	3800000	2.24E-01	1.90E-02	2.85E-02	6.92E-03	2.85E-02	6.92E-03	2.77E-01	9.02E-02	5.97E-01	2.99E-01	6.67E-03
4060	356750	3800000	2.16E-01	1.95E-02	2.79E-02	7.07E-03	2.79E-02	7.07E-03	2.67E-01	9.12E-02	5.75E-01	3.01E-01	6.42E-03
4061	357000	3800000	1.50E-01	1.98E-02	2.45E-02	7.09E-03	2.45E-02	7.09E-03	1.85E-01	7.61E-02	4.00E-01	1.96E-01	4.47E-03
4062	357250	3800000	1.57E-01	2.03E-02	2.41E-02	7.25E-03	2.41E-02	7.25E-03	1.94E-01	7.71E-02	4.20E-01	2.03E-01	4.69E-03
4063	357500	3800000	1.63E-01	2.10E-02	2.53E-02	7.44E-03	2.53E-02	7.44E-03	2.02E-01	8.08E-02	4.34E-01	2.13E-01	4.85E-03
4064	357750	3800000	2.61E-01	2.48E-02	3.34E-02	8.76E-03	3.34E-02	8.76E-03	3.25E-01	1.11E-01	6.97E-01	3.54E-01	7.78E-03
4065	358000	3800000	2.73E-01	2.64E-02	3.35E-02	9.24E-03	3.35E-02	9.24E-03	3.40E-01	1.08E-01	7.28E-01	3.34E-01	8.13E-03
4066	362500	3800000	2.46E-01	2.07E-02	3.70E-02	8.34E-03	3.70E-02	8.34E-03	3.05E-01	1.23E-01	6.55E-01	2.83E-01	7.32E-03
4067	362750	3800000	2.38E-01	2.05E-02	3.70E-02	8.27E-03	3.70E-02	8.27E-03	2.95E-01	1.23E-01	6.34E-01	2.44E-01	7.09E-03
4068	363000	3800000	2.27E-01	2.04E-02	3.69E-02	8.20E-03	3.69E-02	8.20E-03	2.81E-01	1.21E-01	6.04E-01	2.63E-01	6.75E-03
4069	363250	3800000	2.14E-01	2.01E-02	3.65E-02	8.10E-03	3.65E-02	8.10E-03	2.65E-01	1.20E-01	5.70E-01	2.79E-01	6.37E-03
4070	363500	3800000	2.00E-01	1.99E-02	3.58E-02	7.98E-03	3.58E-02	7.98E-03	2.48E-01	1.17E-01	5.34E-01	2.89E-01	5.97E-03
4071	363750	3800000	1.90E-01	1.95E-02	3.49E-02	7.84E-03	3.49E-02	7.84E-03	2.34E-01	1.14E-01	5.06E-01	2.95E-01	5.65E-03
4072	364000	3800000	1.77E-01	1.92E-02	3.39E-02	7.69E-03	3.39E-02	7.69E-03	2.18E-01	1.12E-01	4.71E-01	2.98E-01	5.27E-03
4073	364250	3800000	1.63E-01	1.88E-02	3.37E-02	7.53E-03	3.37E-02	7.53E-03	2.01E-01	1.11E-01	4.35E-01	2.98E-01	4.86E-03
4074	364500	3800000	1.57E-01	1.83E-02	3.34E-02	7.34E-03	3.34E-02	7.34E-03	1.93E-01	1.10E-01	4.18E-01	2.97E-01	4.67E-03
4075	364750	3800000	1.42E-01	1.79E-02	3.29E-02	7.16E-03	3.29E-02	7.16E-03	1.75E-01	1.08E-01	3.80E-01	2.94E-01	4.24E-03
4076	365000	3800000	1.33E-01	1.74E-02	3.24E-02	6.97E-03	3.24E-02	6.97E-03	1.63E-01	1.06E-01	3.55E-01	2.89E-01	3.97E-03
4077	365250	3800000	1.30E-01	1.70E-02	3.19E-02	6.78E-03	3.19E-02	6.78E-03	1.57E-01	1.04E-01	3.47E-01	2.84E-01	3.88E-03
4078	365500	3800000	1.29E-01	1.65E-02	3.14E-02	6.60E-03	3.14E-02	6.60E-03	1.54E-01	1.02E-01	3.43E-01	2.79E-01	3.83E-03
4079	365750	3800000	1.27E-01	1.61E-02	3.08E-02	6.42E-03	3.08E-02	6.42E-03	1.52E-01	1.00E-01	3.38E-01	2.73E-01	3.78E-03
4080	366000	3800000	1.25E-01	1.57E-02	3.03E-02	6.24E-03	3.03E-02	6.24E-03	1.49E-01	9.84E-02	3.33E-01	2.66E-01	3.72E-03
4081	366250	3800000	1.23E-01	1.53E-02	2.97E-02	6.07E-03	2.97E-02	6.07E-03	1.46E-01	9.63E-02	3.28E-01	2.60E-01	3.67E-03
4082	366500	3800000	1.21E-01	1.48E-02	2.91E-02	5.91E-03	2.91E-02	5.91E-03	1.44E-01	9.42E-02	3.23E-01	2.53E-01	3.61E-03
4083	354000	3800250	1.39E-01	1.48E-02	2.63E-02	5.54E-03	2.63E-02	5.54E-03	1.66E-01	8.13E-02	3.69E-01	1.79E-01	4.13E-03
4084	354250	3800250	1.50E-01	1.53E-02	2.68E-02	5.72E-03	2.68E-02	5.72E-03	1.82E-01	8.31E-02	3.99E-01	1.83E-01	4.46E-03
4085	354500	3800250	1.54E-01	1.59E-02	2.73E-02	5.91E-03	2.73E-02	5.91E-03	1.87E-01	8.49E-02	4.11E-01	1.87E-01	4.59E-03
4086	354750	3800250	1.61E-01	1.64E-02	2.78E-02	6.11E-03	2.78E-02	6.11E-03	1.96E-01	8.70E-02	4.29E-01	1.95E-01	4.79E-03
4087	355000	3800250	1.69E-01	1.70E-02	2.82E-02	6.31E-03	2.82E-02	6.31E-03	2.07E-01	8.89E-02	4.52E-01	2.03E-01	5.05E-03
4088	355250	3800250	1.74E-01	1.76E-02	2.95E-02	6.52E-03	2.95E-02	6.52E-03	2.12E-01	9.45E-02	4.63E-01	2.12E-01	5.18E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4089	355500	3800250	1.86E-01	1.82E-02	3.05E-02	6.74E-03	3.05E-02	6.74E-03	2.27E-01	9.83E-02	4.95E-01	2.24E-01	5.53E-03
4090	355750	3800250	1.77E-01	1.89E-02	3.10E-02	6.96E-03	3.10E-02	6.96E-03	2.18E-01	1.00E-01	4.73E-01	2.21E-01	5.29E-03
4091	356000	3800250	1.45E-01	1.96E-02	2.98E-02	7.20E-03	2.98E-02	7.20E-03	1.78E-01	9.41E-02	3.86E-01	1.95E-01	4.31E-03
4092	356250	3800250	1.48E-01	2.03E-02	3.01E-02	7.43E-03	3.01E-02	7.43E-03	1.82E-01	9.54E-02	3.93E-01	1.94E-01	4.40E-03
4093	356500	3800250	1.55E-01	2.09E-02	3.02E-02	7.65E-03	3.02E-02	7.65E-03	1.91E-01	9.59E-02	4.13E-01	1.90E-01	4.62E-03
4094	356750	3800250	1.65E-01	2.15E-02	3.00E-02	7.85E-03	3.00E-02	7.85E-03	2.04E-01	9.56E-02	4.41E-01	1.82E-01	4.92E-03
4095	357000	3800250	1.77E-01	2.22E-02	2.97E-02	8.05E-03	2.97E-02	8.05E-03	2.19E-01	9.47E-02	4.72E-01	1.76E-01	5.28E-03
4096	357250	3800250	1.89E-01	2.29E-02	2.91E-02	8.27E-03	2.91E-02	8.27E-03	2.34E-01	9.31E-02	5.05E-01	1.68E-01	5.64E-03
4097	357500	3800250	2.03E-01	2.38E-02	2.89E-02	8.52E-03	2.89E-02	8.52E-03	2.51E-01	9.15E-02	5.41E-01	1.76E-01	6.04E-03
4098	357750	3800250	2.46E-01	2.79E-02	3.88E-02	1.00E-02	3.88E-02	1.00E-02	3.07E-01	1.27E-01	6.56E-01	2.96E-01	7.34E-03
4099	362250	3800250	2.72E-01	2.02E-02	4.16E-02	8.12E-03	4.16E-02	8.12E-03	3.39E-01	1.41E-01	7.26E-01	3.69E-01	8.11E-03
4100	362500	3800250	2.59E-01	1.99E-02	3.99E-02	8.04E-03	3.99E-02	8.04E-03	3.22E-01	1.34E-01	6.90E-01	3.11E-01	7.71E-03
4101	362750	3800250	2.43E-01	1.98E-02	3.87E-02	7.97E-03	3.87E-02	7.97E-03	3.01E-01	1.29E-01	6.47E-01	2.67E-01	7.23E-03
4102	363000	3800250	2.26E-01	1.96E-02	3.77E-02	7.90E-03	3.77E-02	7.90E-03	2.80E-01	1.25E-01	6.03E-01	2.69E-01	6.74E-03
4103	363250	3800250	2.11E-01	1.94E-02	3.67E-02	7.81E-03	3.67E-02	7.81E-03	2.62E-01	1.24E-01	5.63E-01	2.81E-01	6.30E-03
4104	363500	3800250	2.28E-01	2.07E-02	4.49E-02	8.43E-03	4.49E-02	8.43E-03	2.82E-01	1.54E-01	6.07E-01	3.72E-01	6.78E-03
4105	363750	3800250	1.81E-01	1.88E-02	3.46E-02	7.58E-03	3.46E-02	7.58E-03	2.25E-01	1.17E-01	4.84E-01	2.85E-01	5.41E-03
4106	364000	3800250	1.88E-01	1.85E-02	3.86E-02	7.43E-03	3.86E-02	7.43E-03	2.32E-01	1.31E-01	5.00E-01	3.24E-01	5.59E-03
4107	364250	3800250	1.57E-01	1.81E-02	3.39E-02	7.26E-03	3.39E-02	7.26E-03	1.94E-01	1.13E-01	4.20E-01	2.82E-01	4.69E-03
4108	364500	3800250	1.47E-01	1.76E-02	3.34E-02	7.08E-03	3.34E-02	7.08E-03	1.81E-01	1.11E-01	3.92E-01	2.79E-01	4.38E-03
4109	364750	3800250	1.37E-01	1.72E-02	3.28E-02	6.90E-03	3.28E-02	6.90E-03	1.69E-01	1.09E-01	3.66E-01	2.74E-01	4.10E-03
4110	365000	3800250	1.32E-01	1.68E-02	3.23E-02	6.73E-03	3.23E-02	6.73E-03	1.62E-01	1.07E-01	3.53E-01	2.69E-01	3.94E-03
4111	365250	3800250	1.30E-01	1.64E-02	3.17E-02	6.56E-03	3.17E-02	6.56E-03	1.57E-01	1.05E-01	3.46E-01	2.64E-01	3.87E-03
4112	365500	3800250	1.28E-01	1.60E-02	3.11E-02	6.39E-03	3.11E-02	6.39E-03	1.54E-01	1.02E-01	3.43E-01	2.58E-01	3.83E-03
4113	365750	3800250	1.27E-01	1.56E-02	3.05E-02	6.22E-03	3.05E-02	6.22E-03	1.52E-01	1.00E-01	3.38E-01	2.52E-01	3.78E-03
4114	366000	3800250	1.25E-01	1.52E-02	2.99E-02	6.05E-03	2.99E-02	6.05E-03	1.49E-01	9.77E-02	3.33E-01	2.45E-01	3.72E-03
4115	366250	3800250	1.23E-01	1.48E-02	2.93E-02	5.89E-03	2.93E-02	5.89E-03	1.46E-01	9.54E-02	3.27E-01	2.39E-01	3.66E-03
4116	366500	3800250	1.21E-01	1.44E-02	2.87E-02	5.73E-03	2.87E-02	5.73E-03	1.43E-01	9.32E-02	3.22E-01	2.33E-01	3.60E-03
4117	354000	3800500	1.37E-01	1.60E-02	2.81E-02	6.02E-03	2.81E-02	6.02E-03	1.65E-01	8.77E-02	3.64E-01	1.94E-01	4.07E-03
4118	354250	3800500	1.45E-01	1.66E-02	2.87E-02	6.23E-03	2.87E-02	6.23E-03	1.76E-01	8.99E-02	3.87E-01	2.04E-01	4.32E-03
4119	354500	3800500	1.49E-01	1.72E-02	2.93E-02	6.45E-03	2.93E-02	6.45E-03	1.81E-01	9.25E-02	3.98E-01	2.13E-01	4.45E-03
4120	354750	3800500	1.53E-01	1.79E-02	3.00E-02	6.68E-03	3.00E-02	6.68E-03	1.86E-01	9.64E-02	4.09E-01	2.21E-01	4.57E-03
4121	355000	3800500	1.55E-01	1.85E-02	3.09E-02	6.93E-03	3.09E-02	6.93E-03	1.88E-01	9.96E-02	4.12E-01	2.26E-01	4.61E-03
4122	355250	3800500	1.53E-01	1.92E-02	3.13E-02	7.18E-03	3.13E-02	7.18E-03	1.88E-01	1.01E-01	4.08E-01	2.25E-01	4.56E-03
4123	355500	3800500	1.74E-01	2.00E-02	3.40E-02	7.45E-03	3.40E-02	7.45E-03	2.13E-01	1.10E-01	4.65E-01	2.55E-01	5.19E-03
4124	355750	3800500	1.73E-01	2.08E-02	3.44E-02	7.72E-03	3.44E-02	7.72E-03	2.13E-01	1.12E-01	4.62E-01	2.53E-01	5.16E-03
4125	356000	3800500	1.48E-01	2.16E-02	3.24E-02	8.01E-03	3.24E-02	8.01E-03	1.83E-01	1.04E-01	3.95E-01	2.19E-01	4.42E-03
4126	356250	3800500	1.52E-01	2.24E-02	3.28E-02	8.31E-03	3.28E-02	8.31E-03	1.87E-01	1.05E-01	4.05E-01	2.23E-01	4.53E-03
4127	356500	3800500	1.57E-01	2.33E-02	3.31E-02	8.60E-03	3.31E-02	8.60E-03	1.94E-01	1.06E-01	4.19E-01	2.26E-01	4.68E-03
4128	356750	3800500	1.64E-01	2.41E-02	3.31E-02	8.88E-03	3.31E-02	8.88E-03	2.02E-01	1.07E-01	4.37E-01	2.27E-01	4.89E-03
4129	357000	3800500	1.75E-01	2.49E-02	3.31E-02	9.16E-03	3.31E-02	9.16E-03	2.16E-01	1.07E-01	4.67E-01	2.26E-01	5.22E-03
4130	357250	3800500	1.87E-01	2.59E-02	3.38E-02	9.46E-03	3.38E-02	9.46E-03	2.31E-01	1.09E-01	4.98E-01	2.23E-01	5.57E-03
4131	357500	3800500	2.00E-01	2.69E-02	3.43E-02	9.79E-03	3.43E-02	9.79E-03	2.47E-01	1.10E-01	5.33E-01	2.16E-01	5.95E-03
4132	357750	3800500	2.37E-01	3.05E-02	4.01E-02	1.12E-02	4.01E-02	1.12E-02	2.95E-01	1.31E-01	6.32E-01	3.11E-01	7.06E-03
4133	362250	3800500	2.22E-01	1.92E-02	4.61E-02	7.71E-03	4.61E-02	7.71E-03	2.76E-01	1.59E-01	5.91E-01	3.96E-01	6.61E-03
4134	362500	3800500	2.13E-01	1.90E-02	4.10E-02	7.65E-03	4.10E-02	7.65E-03	2.65E-01	1.41E-01	5.68E-01	3.33E-01	6.35E-03
4135	362750	3800500	2.04E-01	1.88E-02	3.72E-02	7.60E-03	3.72E-02	7.60E-03	2.54E-01	1.28E-01	5.45E-01	2.85E-01	6.09E-03
4136	363000	3800500	1.94E-01	1.87E-02	3.56E-02	7.55E-03	3.56E-02	7.55E-03	2.41E-01	1.19E-01	5.17E-01	2.47E-01	5.78E-03
4137	363250	3800500	2.11E-01	1.92E-02	3.87E-02	7.79E-03	3.87E-02	7.79E-03	2.63E-01	1.34E-01	5.64E-01	2.99E-01	6.30E-03
4138	363500	3800500	2.44E-01	2.05E-02	4.47E-02	8.35E-03	4.47E-02	8.35E-03	3.03E-01	1.55E-01	6.52E-01	3.62E-01	7.28E-03
4139	363750	3800500	2.06E-01	1.87E-02	3.89E-02	7.58E-03	3.89E-02	7.58E-03	2.55E-01	1.34E-01	5.50E-01	3.10E-01	6.15E-03
4140	364000	3800500	2.20E-01	1.86E-02	3.93E-02	7.57E-03	3.93E-02	7.57E-03	2.71E-01	1.33E-01	5.86E-01	3.31E-01	6.55E-03
4141	364250	3800500	1.91E-01	1.74E-02	3.58E-02	7.04E-03	3.58E-02	7.04E-03	2.36E-01	1.22E-01	5.09E-01	2.92E-01	5.69E-03
4142	364500	3800500	1.42E-01	1.70E-02	3.15E-02	6.82E-03	3.15E-02	6.82E-03	1.75E-01	1.04E-01	3.79E-01	2.37E-01	4.24E-03
4143	364750	3800500	1.43E-01	1.66E-02	3.12E-02	6.65E-03	3.12E-02	6.65E-03	1.76E-01	1.03E-01	3.81E-01	2.34E-01	4.26E-03
4144	365000	3800500	1.33E-01	1.62E-02	3.07E-02	6.48E-03	3.07E-02	6.48E-03	1.62E-01	1.01E-01	3.53E-01	2.30E-01	3.95E-03
4145	365250	3800500	1.29E-01	1.58E-02	3.02E-02	6.32E-03	3.02E-02	6.32E-03	1.58E-01	9.86E-02	3.44E-01	2.25E-01	3.85E-03
4146	365500	3800500	1.28E-01	1.54E-02	2.97E-02	6.15E-03	2.97E-02	6.15E-03	1.58E-01	9.65E-02	3.42E-01	2.21E-01	3.82E-03
4147	365750	3800500	1.30E-01	1.50E-02	2.92E-02	5.99E-03	2.92E-02	5.99E-03	1.58E-01	9.45E-02	3.47E-01	2.16E-01	3.87E-03
4148	366000	3800500	1.25E-01	1.46E-02	2.87E-02	5.83E-03	2.87E-02	5.83E-03	1.51E-01	9.25E-02	3.35E-01	2.11E-01	3.74E-03
4149	366250	3800500	1.22E-01	1.42E-02	2.81E-02	5.68E-03	2.81E-02	5.68E-03	1.46E-01	9.04E-02	3.26E-01	2.06E-01	3.64E-03
4150	366500	3800500	1.20E-01	1.39E-02	2.76E-02	5.54E-03	2.76E-02	5.54E-03	1.43E-01	8.84E-02	3.21E-01	2.01E-01	3.58E-03
4151	354000	3800750	1.19E-01	1.72E-02	2.90E-02	6.51E-03	2.90E-02	6.51E-03	1.43E-01	9.11E-02	3.18E-01	2.01E-01	3.55E-03
4152	354250	3800750	1.23E-01	1.79E-02	2.97E-02	6.75E-03	2.97E-02	6.75E-03	1.50E-01	9.34E-02	3.28E-01	2.07E-01	3.67E-03
4153	354500	3800750	1.40E-01	1.86E-02	3.03E-02	7.01E-03	3.03E-02	7.01E-03	1.71E-01	9.57E-02	3.74E-01	2.23E-01	4.18E-03
4154	354750	3800750	1.28E-01	1.93E-02	3.09E-02	7.28E-03	3.09E-02	7.28E-03	1.57E-01	9.79E-02	3.41E-01	2.18E-01	3.81E-03
4155	355000	3800750	1.37E-01	2.01E-02	3.14E-02	7.57E-03	3.14E-02	7.57E-03	1.68E-01	1.00E-01	3.65E-01	2.27E-01	4.08E-03
4156	355250	3800750	1.36E-01	2.09E-02	3.20E-02	7.87E-03	3.20E-02	7.87E-03	1.67E-01	1.02E-01	3.63E-01	2.30E-01	4.06E-03
4157	355500	3800750	1.40E-01	2.18E-02	3.25E-02	8.19E-03	3.25E-02	8.19E-03	1.72E-01	1.04E-01	3.73E-01	2.36E-01	4.17E-03
4158	355750	3800750	1.77E-01	2.27E-02	3.50E-02	8.52E-03	3.50E-02	8.52E-03	2.19E-01	1.14E-01	4.73E-01	2.88E-01	5.28E-03
4159	356000	3800750	1.59E-01	2.37E-02	3.35E-02	8.88E-03	3.35E-02	8.88E-03	1.96E-01	1.08E-01	4.23E-01	2.65E-01	4.73E-03
4160	356250	3800750	1.70E-01	2.47E-02	3.43E-02	9.26E-03	3.43E-02	9.26E-03	2.10E-01	1.12E-01	4.53E-01	2.82E-01	5.06E-03
4161	356500	3800750	1.86E-01	2.58E-02	3.61E-02	9.64E-03	3.61E-02	9.64E-03	2.30E-01	1.19E-01	4.96E-01	3.07E-01	5.54E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4162	356750	3800750	2.22E-01	2.85E-02	4.14E-02	1.08E-02	4.14E-02	1.08E-02	2.75E-01	1.38E-01	5.91E-01	3.62E-01	6.61E-03
4163	357000	3800750	1.73E-01	2.79E-02	3.66E-02	1.04E-02	3.66E-02	1.04E-02	2.15E-01	1.18E-01	4.61E-01	2.52E-01	5.15E-03
4164	357250	3800750	1.98E-01	2.90E-02	3.76E-02	1.08E-02	3.76E-02	1.08E-02	2.46E-01	1.22E-01	5.27E-01	2.47E-01	5.89E-03
4165	357500	3800750	2.36E-01	3.02E-02	3.83E-02	1.12E-02	3.83E-02	1.12E-02	2.94E-01	1.26E-01	6.30E-01	2.39E-01	7.04E-03
4166	357750	3800750	3.06E-01	3.17E-02	4.14E-02	1.17E-02	4.14E-02	1.17E-02	3.82E-01	1.38E-01	8.17E-01	2.40E-01	9.13E-03
4167	362000	3800750	2.97E-01	1.80E-02	4.47E-02	7.21E-03	4.47E-02	7.21E-03	3.70E-01	1.54E-01	7.91E-01	4.08E-01	8.84E-03
4168	362250	3800750	2.43E-01	1.78E-02	4.01E-02	7.17E-03	4.01E-02	7.17E-03	3.03E-01	1.37E-01	6.48E-01	3.43E-01	7.24E-03
4169	362500	3800750	2.23E-01	1.78E-02	3.86E-02	7.16E-03	3.86E-02	7.16E-03	2.78E-01	1.33E-01	5.95E-01	2.92E-01	6.65E-03
4170	362750	3800750	2.16E-01	1.77E-02	3.53E-02	7.15E-03	3.53E-02	7.15E-03	2.68E-01	1.21E-01	5.75E-01	2.55E-01	6.42E-03
4171	363000	3800750	2.11E-01	1.76E-02	3.36E-02	7.12E-03	3.36E-02	7.12E-03	2.62E-01	1.15E-01	5.62E-01	2.28E-01	6.28E-03
4172	363250	3800750	2.20E-01	1.84E-02	4.34E-02	7.46E-03	4.34E-02	7.46E-03	2.74E-01	1.47E-01	5.87E-01	2.92E-01	6.56E-03
4173	363500	3800750	2.39E-01	1.91E-02	5.05E-02	7.80E-03	5.05E-02	7.80E-03	2.96E-01	1.72E-01	6.37E-01	3.37E-01	7.12E-03
4174	363750	3800750	2.25E-01	1.83E-02	4.72E-02	7.46E-03	4.72E-02	7.46E-03	2.78E-01	1.60E-01	5.99E-01	3.19E-01	6.69E-03
4175	364000	3800750	2.09E-01	1.75E-02	4.34E-02	7.10E-03	4.34E-02	7.10E-03	2.58E-01	1.47E-01	5.56E-01	3.02E-01	6.22E-03
4176	364250	3800750	1.87E-01	1.65E-02	3.88E-02	6.67E-03	3.88E-02	6.67E-03	2.31E-01	1.30E-01	4.99E-01	2.80E-01	5.58E-03
4177	364500	3800750	1.69E-01	1.62E-02	3.48E-02	6.53E-03	3.48E-02	6.53E-03	2.08E-01	1.16E-01	4.50E-01	2.60E-01	5.03E-03
4178	364750	3800750	1.41E-01	1.59E-02	3.23E-02	6.38E-03	3.23E-02	6.38E-03	1.74E-01	1.05E-01	3.77E-01	2.39E-01	4.21E-03
4179	365000	3800750	1.39E-01	1.55E-02	3.18E-02	6.23E-03	3.18E-02	6.23E-03	1.70E-01	1.03E-01	3.70E-01	2.36E-01	4.13E-03
4180	365250	3800750	1.32E-01	1.51E-02	3.12E-02	6.08E-03	3.12E-02	6.08E-03	1.62E-01	1.01E-01	3.52E-01	2.32E-01	3.94E-03
4181	365500	3800750	1.28E-01	1.48E-02	3.05E-02	5.93E-03	3.05E-02	5.93E-03	1.57E-01	9.81E-02	3.42E-01	2.28E-01	3.83E-03
4182	365750	3800750	1.32E-01	1.44E-02	2.99E-02	5.78E-03	2.99E-02	5.78E-03	1.59E-01	9.56E-02	3.51E-01	2.23E-01	3.93E-03
4183	366000	3800750	1.36E-01	1.41E-02	2.93E-02	5.64E-03	2.93E-02	5.64E-03	1.64E-01	9.30E-02	3.63E-01	2.22E-01	4.05E-03
4184	366250	3800750	1.22E-01	1.37E-02	2.86E-02	5.50E-03	2.86E-02	5.50E-03	1.46E-01	9.05E-02	3.26E-01	2.14E-01	3.64E-03
4185	354000	3801000	1.27E-01	1.84E-02	2.96E-02	7.00E-03	2.96E-02	7.00E-03	1.52E-01	9.19E-02	3.38E-01	2.08E-01	3.78E-03
4186	354250	3801000	1.23E-01	1.92E-02	3.04E-02	7.28E-03	3.04E-02	7.28E-03	1.48E-01	9.47E-02	3.29E-01	2.13E-01	3.68E-03
4187	354500	3801000	1.25E-01	2.00E-02	3.11E-02	7.57E-03	3.11E-02	7.57E-03	1.50E-01	9.76E-02	3.34E-01	2.18E-01	3.73E-03
4188	354750	3801000	1.27E-01	2.08E-02	3.19E-02	7.88E-03	3.19E-02	7.88E-03	1.52E-01	1.00E-01	3.38E-01	2.23E-01	3.77E-03
4189	355000	3801000	1.28E-01	2.17E-02	3.26E-02	8.21E-03	3.26E-02	8.21E-03	1.53E-01	1.03E-01	3.41E-01	2.27E-01	3.82E-03
4190	355250	3801000	1.29E-01	2.26E-02	3.34E-02	8.56E-03	3.34E-02	8.56E-03	1.57E-01	1.06E-01	3.45E-01	2.31E-01	3.86E-03
4191	355500	3801000	1.57E-01	2.36E-02	3.41E-02	8.94E-03	3.41E-02	8.94E-03	1.93E-01	1.09E-01	4.18E-01	2.51E-01	4.67E-03
4192	355750	3801000	1.60E-01	2.47E-02	3.49E-02	9.34E-03	3.49E-02	9.34E-03	1.97E-01	1.13E-01	4.27E-01	2.58E-01	4.77E-03
4193	356000	3801000	1.69E-01	2.58E-02	3.70E-02	9.76E-03	3.70E-02	9.76E-03	2.08E-01	1.21E-01	4.49E-01	2.74E-01	5.02E-03
4194	356250	3801000	1.62E-01	2.70E-02	3.64E-02	1.02E-02	3.64E-02	1.02E-02	2.01E-01	1.18E-01	4.33E-01	2.58E-01	4.84E-03
4195	356500	3801000	1.85E-01	2.82E-02	4.16E-02	1.07E-02	4.16E-02	1.07E-02	2.29E-01	1.37E-01	4.94E-01	3.01E-01	5.52E-03
4196	356750	3801000	1.86E-01	2.94E-02	3.95E-02	1.11E-02	3.95E-02	1.11E-02	2.32E-01	1.30E-01	4.96E-01	2.87E-01	5.55E-03
4197	357000	3801000	2.22E-01	3.07E-02	4.02E-02	1.16E-02	4.02E-02	1.16E-02	2.76E-01	1.32E-01	5.92E-01	2.68E-01	6.61E-03
4198	357250	3801000	2.44E-01	3.20E-02	4.27E-02	1.21E-02	4.27E-02	1.21E-02	3.03E-01	1.42E-01	6.50E-01	2.70E-01	7.27E-03
4199	357500	3801000	2.76E-01	3.35E-02	4.53E-02	1.26E-02	4.53E-02	1.26E-02	3.43E-01	1.51E-01	7.35E-01	2.76E-01	8.22E-03
4200	357750	3801000	3.23E-01	3.51E-02	4.76E-02	1.32E-02	4.76E-02	1.32E-02	4.02E-01	1.60E-01	8.61E-01	2.76E-01	9.62E-03
4201	361750	3801000	3.84E-01	1.67E-02	4.89E-02	6.62E-03	4.89E-02	6.62E-03	4.80E-01	1.67E-01	1.03E+00	4.34E-01	1.15E-02
4202	362000	3801000	3.61E-01	1.64E-02	4.32E-02	6.55E-03	4.32E-02	6.55E-03	4.49E-01	1.46E-01	9.62E-01	3.61E-01	1.08E-02
4203	362250	3801000	3.19E-01	1.64E-02	3.96E-02	6.56E-03	3.96E-02	6.56E-03	3.97E-01	1.33E-01	8.50E-01	3.23E-01	9.50E-03
4204	362500	3801000	2.72E-01	1.66E-02	4.04E-02	6.67E-03	4.04E-02	6.67E-03	3.39E-01	1.36E-01	7.26E-01	2.88E-01	8.11E-03
4205	362750	3801000	2.28E-01	1.68E-02	3.95E-02	6.80E-03	3.95E-02	6.80E-03	2.83E-01	1.32E-01	6.09E-01	2.72E-01	6.81E-03
4206	363000	3801000	2.25E-01	1.70E-02	3.91E-02	6.87E-03	3.91E-02	6.87E-03	2.80E-01	1.32E-01	6.00E-01	2.79E-01	6.71E-03
4207	363250	3801000	2.15E-01	1.69E-02	4.23E-02	6.86E-03	4.23E-02	6.86E-03	2.67E-01	1.43E-01	5.73E-01	2.78E-01	6.40E-03
4208	363500	3801000	2.34E-01	1.76E-02	5.15E-02	7.18E-03	5.15E-02	7.18E-03	2.90E-01	1.75E-01	6.25E-01	2.82E-01	6.98E-03
4209	363750	3801000	2.33E-01	1.72E-02	5.21E-02	7.00E-03	5.21E-02	7.00E-03	2.87E-01	1.77E-01	6.21E-01	2.73E-01	6.94E-03
4210	364000	3801000	2.16E-01	1.63E-02	4.83E-02	6.62E-03	4.83E-02	6.62E-03	2.65E-01	1.63E-01	5.77E-01	2.58E-01	6.44E-03
4211	364250	3801000	2.03E-01	1.59E-02	4.63E-02	6.44E-03	4.63E-02	6.44E-03	2.50E-01	1.56E-01	5.41E-01	2.53E-01	6.05E-03
4212	364500	3801000	1.91E-01	1.54E-02	4.35E-02	6.20E-03	4.35E-02	6.20E-03	2.35E-01	1.46E-01	5.10E-01	2.46E-01	5.70E-03
4213	364750	3801000	1.53E-01	1.51E-02	3.57E-02	6.07E-03	3.57E-02	6.07E-03	1.88E-01	1.19E-01	4.08E-01	2.20E-01	4.56E-03
4214	365000	3801000	1.37E-01	1.48E-02	3.46E-02	5.95E-03	3.46E-02	5.95E-03	1.68E-01	1.13E-01	3.64E-01	2.20E-01	4.07E-03
4215	365250	3801000	1.52E-01	1.45E-02	3.54E-02	5.82E-03	3.54E-02	5.82E-03	1.87E-01	1.17E-01	4.06E-01	2.24E-01	4.54E-03
4216	365500	3801000	1.34E-01	1.42E-02	3.34E-02	5.69E-03	3.34E-02	5.69E-03	1.65E-01	1.08E-01	3.58E-01	2.17E-01	4.00E-03
4217	365750	3801000	1.40E-01	1.38E-02	3.27E-02	5.56E-03	3.27E-02	5.56E-03	1.69E-01	1.06E-01	3.72E-01	2.14E-01	4.16E-03
4218	366000	3801000	1.38E-01	1.35E-02	3.20E-02	5.43E-03	3.20E-02	5.43E-03	1.67E-01	1.03E-01	3.67E-01	2.12E-01	4.10E-03
4219	366250	3801000	1.34E-01	1.32E-02	3.13E-02	5.30E-03	3.13E-02	5.30E-03	1.62E-01	1.00E-01	3.58E-01	2.08E-01	4.00E-03
4220	354000	3801250	1.22E-01	1.96E-02	3.13E-02	7.49E-03	3.13E-02	7.49E-03	1.45E-01	9.82E-02	3.24E-01	2.05E-01	3.62E-03
4221	354250	3801250	1.23E-01	2.04E-02	3.21E-02	7.79E-03	3.21E-02	7.79E-03	1.47E-01	1.01E-01	3.29E-01	2.11E-01	3.67E-03
4222	354500	3801250	1.24E-01	2.13E-02	3.29E-02	8.12E-03	3.29E-02	8.12E-03	1.49E-01	1.04E-01	3.32E-01	2.17E-01	3.71E-03
4223	354750	3801250	1.27E-01	2.22E-02	3.37E-02	8.47E-03	3.37E-02	8.47E-03	1.52E-01	1.07E-01	3.38E-01	2.27E-01	3.78E-03
4224	355000	3801250	1.32E-01	2.32E-02	3.44E-02	8.84E-03	3.44E-02	8.84E-03	1.60E-01	1.10E-01	3.53E-01	2.36E-01	3.94E-03
4225	355250	3801250	1.55E-01	2.42E-02	3.61E-02	9.24E-03	3.61E-02	9.24E-03	1.89E-01	1.18E-01	4.12E-01	2.59E-01	4.61E-03
4226	355500	3801250	1.63E-01	2.53E-02	3.82E-02	9.66E-03	3.82E-02	9.66E-03	2.00E-01	1.25E-01	4.34E-01	2.79E-01	4.85E-03
4227	355750	3801250	1.40E-01	2.65E-02	3.66E-02	1.01E-02	3.66E-02	1.01E-02	1.72E-01	1.18E-01	3.72E-01	2.61E-01	4.16E-03
4228	356000	3801250	1.56E-01	2.77E-02	3.73E-02	1.06E-02	3.73E-02	1.06E-02	1.92E-01	1.22E-01	4.15E-01	2.68E-01	4.64E-03
4229	356250	3801250	1.74E-01	2.90E-02	3.81E-02	1.11E-02	3.81E-02	1.11E-02	2.14E-01	1.25E-01	4.63E-01	2.72E-01	5.18E-03
4230	356500	3801250	1.94E-01	3.04E-02	4.00E-02	1.16E-02	4.00E-02	1.16E-02	2.40E-01	1.32E-01	5.17E-01	3.00E-01	5.78E-03
4231	356750	3801250	2.20E-01	3.17E-02	4.07E-02	1.21E-02	4.07E-02	1.21E-02	2.72E-01	1.34E-01	5.86E-01	2.69E-01	6.55E-03
4232	357000	3801250	2.48E-01	3.31E-02	4.23E-02	1.26E-02	4.23E-02	1.26E-02	3.08E-01	1.40E-01	6.61E-01	2.74E-01	7.39E-03
4233	357250	3801250	2.84E-01	3.45E-02	4.35E-02	1.32E-02	4.35E-02	1.32E-02	3.53E-01	1.44E-01	7.57E-01	2.72E-01	8.46E-03
4234	357500	3801250	3.11E-01	3.62E-02	4.43E-02	1.38E-02	4.43E-02	1.38E-02	3.87E-01	1.48E-01	8.30E-01	2.81E-01	9.28E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4235	357750	3801250	3.42E-01	3.80E-02	4.66E-02	1.45E-02	4.66E-02	1.45E-02	4.25E-01	1.53E-01	9.11E-01	2.86E-01	1.02E-02
4236	358000	3801250	3.62E-01	4.02E-02	4.86E-02	1.54E-02	4.86E-02	1.54E-02	4.51E-01	1.62E-01	9.66E-01	2.95E-01	1.08E-02
4237	361500	3801250	3.36E-01	1.62E-02	4.90E-02	6.36E-03	4.90E-02	6.36E-03	4.20E-01	1.68E-01	8.96E-01	5.57E-01	1.00E-02
4238	361750	3801250	2.86E-01	1.55E-02	4.65E-02	6.12E-03	4.65E-02	6.12E-03	3.57E-01	1.58E-01	7.62E-01	4.62E-01	8.52E-03
4239	362000	3801250	2.96E-01	1.52E-02	4.50E-02	6.03E-03	4.50E-02	6.03E-03	3.69E-01	1.53E-01	7.90E-01	3.85E-01	8.83E-03
4240	362250	3801250	3.01E-01	1.51E-02	4.39E-02	6.02E-03	4.39E-02	6.02E-03	3.75E-01	1.49E-01	8.03E-01	3.08E-01	8.97E-03
4241	362500	3801250	2.88E-01	1.51E-02	4.28E-02	6.05E-03	4.28E-02	6.05E-03	3.58E-01	1.44E-01	7.67E-01	2.49E-01	8.57E-03
4242	362750	3801250	2.60E-01	1.53E-02	4.24E-02	6.14E-03	4.24E-02	6.14E-03	3.23E-01	1.42E-01	6.93E-01	2.73E-01	7.75E-03
4243	363000	3801250	2.29E-01	1.52E-02	3.85E-02	6.10E-03	3.85E-02	6.10E-03	2.85E-01	1.29E-01	6.12E-01	2.60E-01	6.84E-03
4244	363250	3801250	2.14E-01	1.53E-02	3.95E-02	6.16E-03	3.95E-02	6.16E-03	2.65E-01	1.32E-01	5.69E-01	2.99E-01	6.36E-03
4245	363500	3801250	2.22E-01	1.57E-02	4.02E-02	6.38E-03	4.02E-02	6.38E-03	2.75E-01	1.34E-01	5.92E-01	3.22E-01	6.62E-03
4246	363750	3801250	2.22E-01	1.56E-02	4.26E-02	6.34E-03	4.26E-02	6.34E-03	2.74E-01	1.44E-01	5.91E-01	3.00E-01	6.61E-03
4247	364000	3801250	2.11E-01	1.50E-02	4.33E-02	6.08E-03	4.33E-02	6.08E-03	2.59E-01	1.46E-01	5.64E-01	2.56E-01	6.30E-03
4248	364250	3801250	1.92E-01	1.47E-02	3.99E-02	5.93E-03	3.99E-02	5.93E-03	2.34E-01	1.34E-01	5.12E-01	2.16E-01	5.72E-03
4249	364500	3801250	1.88E-01	1.45E-02	4.15E-02	5.84E-03	4.15E-02	5.84E-03	2.31E-01	1.40E-01	5.01E-01	2.22E-01	5.60E-03
4250	364750	3801250	1.47E-01	1.43E-02	3.47E-02	5.74E-03	3.47E-02	5.74E-03	1.80E-01	1.14E-01	3.91E-01	1.97E-01	4.37E-03
4251	365000	3801250	1.38E-01	1.40E-02	3.46E-02	5.64E-03	3.46E-02	5.64E-03	1.69E-01	1.14E-01	3.67E-01	1.88E-01	4.10E-03
4252	365250	3801250	1.53E-01	1.37E-02	3.65E-02	5.53E-03	3.65E-02	5.53E-03	1.87E-01	1.22E-01	4.08E-01	1.90E-01	4.56E-03
4253	365500	3801250	1.57E-01	1.35E-02	3.66E-02	5.42E-03	3.66E-02	5.42E-03	1.91E-01	1.22E-01	4.19E-01	1.91E-01	4.68E-03
4254	365750	3801250	1.50E-01	1.32E-02	3.46E-02	5.31E-03	3.46E-02	5.31E-03	1.82E-01	1.15E-01	4.01E-01	1.92E-01	4.48E-03
4255	366000	3801250	1.44E-01	1.29E-02	3.37E-02	5.19E-03	3.37E-02	5.19E-03	1.75E-01	1.11E-01	3.85E-01	1.92E-01	4.31E-03
4256	366250	3801250	1.37E-01	1.27E-02	3.25E-02	5.08E-03	3.25E-02	5.08E-03	1.66E-01	1.07E-01	3.65E-01	1.91E-01	4.08E-03
4257	354000	3801500	1.22E-01	2.07E-02	3.23E-02	7.94E-03	3.23E-02	7.94E-03	1.45E-01	1.02E-01	3.25E-01	2.22E-01	3.63E-03
4258	354250	3801500	1.23E-01	2.16E-02	3.31E-02	8.28E-03	3.31E-02	8.28E-03	1.47E-01	1.05E-01	3.28E-01	2.30E-01	3.67E-03
4259	354500	3801500	1.24E-01	2.25E-02	3.41E-02	8.64E-03	3.41E-02	8.64E-03	1.49E-01	1.09E-01	3.32E-01	2.37E-01	3.71E-03
4260	354750	3801500	1.27E-01	2.35E-02	3.51E-02	9.02E-03	3.51E-02	9.02E-03	1.52E-01	1.13E-01	3.38E-01	2.44E-01	3.78E-03
4261	355000	3801500	1.28E-01	2.45E-02	3.60E-02	9.42E-03	3.60E-02	9.42E-03	1.54E-01	1.16E-01	3.42E-01	2.50E-01	3.82E-03
4262	355250	3801500	1.42E-01	2.57E-02	3.69E-02	9.85E-03	3.69E-02	9.85E-03	1.74E-01	1.20E-01	3.78E-01	2.62E-01	4.23E-03
4263	355500	3801500	1.48E-01	2.68E-02	3.77E-02	1.03E-02	3.77E-02	1.03E-02	1.81E-01	1.23E-01	3.94E-01	2.64E-01	4.40E-03
4264	355750	3801500	1.65E-01	2.81E-02	3.84E-02	1.08E-02	3.84E-02	1.08E-02	2.03E-01	1.26E-01	4.39E-01	2.59E-01	4.90E-03
4265	356000	3801500	1.78E-01	2.94E-02	3.90E-02	1.13E-02	3.90E-02	1.13E-02	2.19E-01	1.28E-01	4.73E-01	2.57E-01	5.29E-03
4266	356250	3801500	1.96E-01	3.07E-02	3.94E-02	1.18E-02	3.94E-02	1.18E-02	2.42E-01	1.30E-01	5.22E-01	2.59E-01	5.83E-03
4267	356500	3801500	2.18E-01	3.21E-02	4.06E-02	1.24E-02	4.06E-02	1.24E-02	2.71E-01	1.34E-01	5.82E-01	2.75E-01	6.50E-03
4268	356750	3801500	2.33E-01	3.35E-02	4.32E-02	1.29E-02	4.32E-02	1.29E-02	2.88E-01	1.39E-01	6.20E-01	2.90E-01	6.93E-03
4269	357000	3801500	2.53E-01	3.49E-02	4.58E-02	1.35E-02	4.58E-02	1.35E-02	3.14E-01	1.49E-01	6.75E-01	3.00E-01	7.55E-03
4270	357250	3801500	2.77E-01	3.65E-02	4.82E-02	1.41E-02	4.82E-02	1.41E-02	3.44E-01	1.57E-01	7.39E-01	3.05E-01	8.26E-03
4271	357500	3801500	2.87E-01	3.82E-02	5.01E-02	1.48E-02	5.01E-02	1.48E-02	3.56E-01	1.65E-01	7.66E-01	3.03E-01	8.56E-03
4272	357750	3801500	3.14E-01	4.02E-02	5.14E-02	1.56E-02	5.14E-02	1.56E-02	3.90E-01	1.70E-01	8.38E-01	2.94E-01	9.36E-03
4273	358000	3801500	3.52E-01	4.26E-02	5.20E-02	1.66E-02	5.20E-02	1.66E-02	4.38E-01	1.73E-01	9.37E-01	3.20E-01	1.05E-02
4274	358250	3801500	3.97E-01	4.58E-02	5.73E-02	1.80E-02	5.73E-02	1.80E-02	4.96E-01	1.96E-01	1.06E+00	4.26E-01	1.18E-02
4275	361250	3801500	5.63E-01	1.70E-02	3.82E-02	6.65E-03	3.82E-02	6.65E-03	7.03E-01	1.30E-01	1.50E+00	3.55E-01	1.68E-02
4276	361500	3801500	3.35E-01	1.56E-02	3.64E-02	6.11E-03	3.64E-02	6.11E-03	4.19E-01	1.23E-01	8.94E-01	3.87E-01	9.99E-03
4277	361750	3801500	2.41E-01	1.48E-02	3.77E-02	5.81E-03	3.77E-02	5.81E-03	3.01E-01	1.28E-01	6.44E-01	4.06E-01	7.19E-03
4278	362000	3801500	2.26E-01	1.43E-02	3.83E-02	5.68E-03	3.83E-02	5.68E-03	2.81E-01	1.29E-01	6.03E-01	3.69E-01	6.74E-03
4279	362250	3801500	2.21E-01	1.42E-02	3.83E-02	5.63E-03	3.83E-02	5.63E-03	2.74E-01	1.29E-01	5.89E-01	3.25E-01	6.58E-03
4280	362500	3801500	2.29E-01	1.41E-02	3.78E-02	5.62E-03	3.78E-02	5.62E-03	2.84E-01	1.27E-01	6.09E-01	2.79E-01	6.81E-03
4281	362750	3801500	2.29E-01	1.41E-02	3.71E-02	5.63E-03	3.71E-02	5.63E-03	2.84E-01	1.24E-01	6.11E-01	2.33E-01	6.82E-03
4282	363000	3801500	2.23E-01	1.41E-02	3.63E-02	5.64E-03	3.63E-02	5.64E-03	2.76E-01	1.21E-01	5.93E-01	1.92E-01	6.63E-03
4283	363250	3801500	2.06E-01	1.41E-02	3.68E-02	5.65E-03	3.68E-02	5.65E-03	2.56E-01	1.23E-01	5.50E-01	2.37E-01	6.15E-03
4284	363500	3801500	2.01E-01	1.41E-02	3.90E-02	5.65E-03	3.90E-02	5.65E-03	2.49E-01	1.30E-01	5.35E-01	2.95E-01	5.98E-03
4285	363750	3801500	2.16E-01	1.42E-02	3.94E-02	5.73E-03	3.94E-02	5.73E-03	2.67E-01	1.32E-01	5.76E-01	3.22E-01	6.44E-03
4286	364000	3801500	2.08E-01	1.39E-02	3.66E-02	5.61E-03	3.66E-02	5.61E-03	2.56E-01	1.21E-01	5.55E-01	3.00E-01	6.21E-03
4287	364250	3801500	1.93E-01	1.38E-02	3.22E-02	5.54E-03	3.22E-02	5.54E-03	2.35E-01	1.07E-01	5.14E-01	2.29E-01	5.74E-03
4288	364500	3801500	1.82E-01	1.36E-02	3.36E-02	5.47E-03	3.36E-02	5.47E-03	2.23E-01	1.12E-01	4.85E-01	2.57E-01	5.42E-03
4289	364750	3801500	1.48E-01	1.34E-02	3.13E-02	5.39E-03	3.13E-02	5.39E-03	1.82E-01	1.03E-01	3.93E-01	2.16E-01	4.40E-03
4290	365000	3801500	1.56E-01	1.32E-02	3.30E-02	5.31E-03	3.30E-02	5.31E-03	1.92E-01	1.10E-01	4.16E-01	2.10E-01	4.64E-03
4291	365250	3801500	1.62E-01	1.30E-02	3.46E-02	5.23E-03	3.46E-02	5.23E-03	1.97E-01	1.15E-01	4.32E-01	1.99E-01	4.82E-03
4292	365500	3801500	1.51E-01	1.28E-02	3.24E-02	5.14E-03	3.24E-02	5.14E-03	1.82E-01	1.06E-01	4.02E-01	1.90E-01	4.49E-03
4293	365750	3801500	1.45E-01	1.26E-02	3.24E-02	5.04E-03	3.24E-02	5.04E-03	1.75E-01	1.06E-01	3.87E-01	1.80E-01	4.32E-03
4294	366000	3801500	1.42E-01	1.23E-02	3.23E-02	4.95E-03	3.23E-02	4.95E-03	1.71E-01	1.06E-01	3.77E-01	1.71E-01	4.22E-03
4295	354250	3801750	1.22E-01	2.26E-02	3.46E-02	8.72E-03	3.46E-02	8.72E-03	1.45E-01	1.11E-01	3.25E-01	2.33E-01	3.63E-03
4296	354500	3801750	1.25E-01	2.36E-02	3.54E-02	9.09E-03	3.54E-02	9.09E-03	1.49E-01	1.14E-01	3.32E-01	2.37E-01	3.72E-03
4297	354750	3801750	1.27E-01	2.46E-02	3.62E-02	9.49E-03	3.62E-02	9.49E-03	1.54E-01	1.17E-01	3.37E-01	2.40E-01	3.77E-03
4298	355000	3801750	1.41E-01	2.57E-02	3.69E-02	9.92E-03	3.69E-02	9.92E-03	1.74E-01	1.20E-01	3.76E-01	2.40E-01	4.20E-03
4299	355250	3801750	1.48E-01	2.69E-02	3.74E-02	1.04E-02	3.74E-02	1.04E-02	1.82E-01	1.22E-01	3.94E-01	2.41E-01	4.40E-03
4300	355500	3801750	1.59E-01	2.81E-02	3.86E-02	1.08E-02	3.86E-02	1.08E-02	1.95E-01	1.28E-01	4.23E-01	2.48E-01	4.72E-03
4301	355750	3801750	1.75E-01	2.93E-02	3.82E-02	1.13E-02	3.82E-02	1.13E-02	2.17E-01	1.26E-01	4.67E-01	2.60E-01	5.22E-03
4302	356000	3801750	1.89E-01	3.06E-02	4.02E-02	1.18E-02	4.02E-02	1.18E-02	2.33E-01	1.28E-01	5.04E-01	2.75E-01	5.63E-03
4303	356250	3801750	1.94E-01	3.19E-02	4.27E-02	1.24E-02	4.27E-02	1.24E-02	2.39E-01	1.37E-01	5.18E-01	2.88E-01	5.78E-03
4304	356500	3801750	2.15E-01	3.33E-02	4.52E-02	1.29E-02	4.52E-02	1.29E-02	2.66E-01	1.46E-01	5.74E-01	2.99E-01	6.42E-03
4305	356750	3801750	2.18E-01	3.48E-02	4.75E-02	1.35E-02	4.75E-02	1.35E-02	2.70E-01	1.55E-01	5.81E-01	3.05E-01	6.49E-03
4306	357000	3801750	2.36E-01	3.63E-02	4.94E-02	1.41E-02	4.94E-02	1.41E-02	2.92E-01	1.61E-01	6.29E-01	3.03E-01	7.03E-03
4307	357250	3801750	2.55E-01	3.80E-02	5.06E-02	1.48E-02	5.06E-02	1.48E-02	3.15E-01	1.66E-01	6.79E-01	2.91E-01	7.59E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4308	357500	3801750	2.79E-01	3.98E-02	5.11E-02	1.55E-02	5.11E-02	1.55E-02	3.46E-01	1.69E-01	7.44E-01	2.82E-01	8.31E-03
4309	357750	3801750	3.06E-01	4.18E-02	5.23E-02	1.64E-02	5.23E-02	1.64E-02	3.80E-01	1.76E-01	8.16E-01	2.94E-01	9.12E-03
4310	358000	3801750	3.15E-01	4.43E-02	5.55E-02	1.74E-02	5.55E-02	1.74E-02	3.92E-01	1.88E-01	8.40E-01	3.79E-01	9.39E-03
4311	358250	3801750	3.02E-01	4.73E-02	5.86E-02	1.88E-02	5.86E-02	1.88E-02	3.76E-01	1.97E-01	8.05E-01	4.63E-01	9.00E-03
4312	358500	3801750	2.70E-01	5.14E-02	6.45E-02	2.06E-02	6.45E-02	2.06E-02	3.36E-01	2.20E-01	7.20E-01	4.82E-01	8.05E-03
4313	358750	3801750	3.03E-01	5.68E-02	7.01E-02	2.31E-02	7.01E-02	2.31E-02	3.77E-01	2.41E-01	8.08E-01	5.04E-01	9.03E-03
4314	359000	3801750	3.47E-01	6.27E-02	7.48E-02	2.58E-02	7.48E-02	2.58E-02	4.33E-01	2.55E-01	9.26E-01	5.97E-01	1.04E-02
4315	359250	3801750	4.18E-01	6.68E-02	8.49E-02	2.77E-02	8.49E-02	2.77E-02	5.22E-01	2.91E-01	1.11E+00	6.55E-01	1.25E-02
4316	359500	3801750	5.14E-01	6.61E-02	8.57E-02	2.75E-02	8.57E-02	2.75E-02	6.42E-01	2.95E-01	1.37E+00	7.87E-01	1.53E-02
4317	359750	3801750	5.45E-01	6.01E-02	9.45E-02	2.49E-02	9.45E-02	2.49E-02	6.82E-01	3.23E-01	1.45E+00	7.58E-01	1.62E-02
4318	360000	3801750	5.30E-01	4.97E-02	9.71E-02	2.05E-02	9.71E-02	2.05E-02	6.63E-01	3.34E-01	1.41E+00	9.08E-01	1.58E-02
4319	360250	3801750	6.46E-01	3.62E-02	9.69E-02	1.47E-02	9.69E-02	1.47E-02	8.08E-01	3.34E-01	1.72E+00	8.00E-01	1.93E-02
4320	360500	3801750	5.02E-01	2.68E-02	6.44E-02	1.07E-02	6.44E-02	1.07E-02	6.27E-01	2.17E-01	1.34E+00	4.70E-01	1.50E-02
4321	360750	3801750	3.53E-01	2.14E-02	5.78E-02	8.41E-03	5.78E-02	8.41E-03	4.41E-01	1.96E-01	9.40E-01	5.08E-01	1.05E-02
4322	361000	3801750	4.90E-01	1.83E-02	3.88E-02	7.18E-03	3.88E-02	7.18E-03	6.13E-01	1.31E-01	1.31E+00	3.50E-01	1.46E-02
4323	361250	3801750	5.60E-01	1.64E-02	3.72E-02	6.44E-03	3.72E-02	6.44E-03	7.00E-01	1.26E-01	1.49E+00	2.99E-01	1.67E-02
4324	361500	3801750	4.46E-01	1.51E-02	3.35E-02	5.94E-03	3.35E-02	5.94E-03	5.57E-01	1.14E-01	1.19E+00	2.65E-01	1.33E-02
4325	361750	3801750	2.87E-01	1.43E-02	2.94E-02	5.62E-03	2.94E-02	5.62E-03	3.58E-01	9.89E-02	7.65E-01	2.87E-01	8.55E-03
4326	362000	3801750	1.88E-01	1.38E-02	3.06E-02	5.44E-03	3.06E-02	5.44E-03	2.33E-01	1.03E-01	5.00E-01	3.09E-01	5.59E-03
4327	362250	3801750	1.92E-01	1.35E-02	3.24E-02	5.35E-03	3.24E-02	5.35E-03	2.37E-01	1.09E-01	5.12E-01	2.98E-01	5.72E-03
4328	362500	3801750	2.02E-01	1.33E-02	3.36E-02	5.30E-03	3.36E-02	5.30E-03	2.50E-01	1.12E-01	5.38E-01	2.72E-01	6.01E-03
4329	362750	3801750	2.03E-01	1.33E-02	3.39E-02	5.28E-03	3.39E-02	5.28E-03	2.52E-01	1.13E-01	5.42E-01	2.46E-01	6.06E-03
4330	363000	3801750	1.93E-01	1.32E-02	3.40E-02	5.27E-03	3.40E-02	5.27E-03	2.39E-01	1.13E-01	5.14E-01	2.16E-01	5.74E-03
4331	363250	3801750	1.80E-01	1.32E-02	3.38E-02	5.26E-03	3.38E-02	5.26E-03	2.23E-01	1.12E-01	4.79E-01	1.86E-01	5.36E-03
4332	363500	3801750	1.75E-01	1.31E-02	3.35E-02	5.26E-03	3.35E-02	5.26E-03	2.16E-01	1.11E-01	4.66E-01	1.81E-01	5.21E-03
4333	363750	3801750	2.02E-01	1.31E-02	3.61E-02	5.24E-03	3.61E-02	5.24E-03	2.50E-01	1.20E-01	5.39E-01	2.57E-01	6.02E-03
4334	364000	3801750	2.06E-01	1.30E-02	3.57E-02	5.21E-03	3.57E-02	5.21E-03	2.53E-01	1.19E-01	5.49E-01	2.74E-01	6.13E-03
4335	364250	3801750	1.93E-01	1.29E-02	3.33E-02	5.16E-03	3.33E-02	5.16E-03	2.37E-01	1.10E-01	5.15E-01	2.61E-01	5.75E-03
4336	364500	3801750	1.86E-01	1.27E-02	3.16E-02	5.11E-03	3.16E-02	5.11E-03	2.27E-01	1.04E-01	4.95E-01	2.53E-01	5.53E-03
4337	364750	3801750	1.71E-01	1.26E-02	3.13E-02	5.05E-03	3.13E-02	5.05E-03	2.10E-01	1.03E-01	4.56E-01	2.55E-01	5.09E-03
4338	365000	3801750	1.57E-01	1.24E-02	2.96E-02	4.99E-03	2.96E-02	4.99E-03	1.92E-01	9.60E-02	4.17E-01	2.36E-01	4.66E-03
4339	365250	3801750	1.61E-01	1.23E-02	2.88E-02	4.92E-03	2.88E-02	4.92E-03	1.95E-01	9.25E-02	4.29E-01	2.10E-01	4.79E-03
4340	365500	3801750	1.41E-01	1.21E-02	2.88E-02	4.85E-03	2.88E-02	4.85E-03	1.70E-01	9.42E-02	3.76E-01	2.03E-01	4.21E-03
4341	365750	3801750	1.32E-01	1.19E-02	2.93E-02	4.77E-03	2.93E-02	4.77E-03	1.58E-01	9.55E-02	3.51E-01	1.95E-01	3.92E-03
4342	354250	3802000	1.22E-01	2.35E-02	3.48E-02	9.09E-03	3.48E-02	9.09E-03	1.49E-01	1.12E-01	3.24E-01	2.20E-01	3.63E-03
4343	354500	3802000	1.23E-01	2.45E-02	3.54E-02	9.48E-03	3.54E-02	9.48E-03	1.51E-01	1.15E-01	3.29E-01	2.19E-01	3.68E-03
4344	354750	3802000	1.32E-01	2.56E-02	3.58E-02	9.88E-03	3.58E-02	9.88E-03	1.61E-01	1.17E-01	3.51E-01	2.26E-01	3.93E-03
4345	355000	3802000	1.49E-01	2.66E-02	3.61E-02	1.03E-02	3.61E-02	1.03E-02	1.83E-01	1.18E-01	3.96E-01	2.40E-01	4.43E-03
4346	355250	3802000	1.55E-01	2.78E-02	3.75E-02	1.08E-02	3.75E-02	1.08E-02	1.92E-01	1.20E-01	4.14E-01	2.53E-01	4.63E-03
4347	355500	3802000	1.62E-01	2.90E-02	3.90E-02	1.12E-02	3.90E-02	1.12E-02	2.00E-01	1.26E-01	4.32E-01	2.66E-01	4.83E-03
4348	355750	3802000	1.75E-01	3.02E-02	4.13E-02	1.17E-02	4.13E-02	1.17E-02	2.16E-01	1.32E-01	4.67E-01	2.77E-01	5.21E-03
4349	356000	3802000	1.72E-01	3.15E-02	4.35E-02	1.22E-02	4.35E-02	1.22E-02	2.11E-01	1.40E-01	4.58E-01	2.87E-01	5.11E-03
4350	356250	3802000	1.81E-01	3.28E-02	4.55E-02	1.28E-02	4.55E-02	1.28E-02	2.23E-01	1.47E-01	4.82E-01	2.92E-01	5.38E-03
4351	356500	3802000	1.96E-01	3.42E-02	4.73E-02	1.33E-02	4.73E-02	1.33E-02	2.42E-01	1.54E-01	5.23E-01	2.92E-01	5.84E-03
4352	356750	3802000	2.09E-01	3.58E-02	4.86E-02	1.40E-02	4.86E-02	1.40E-02	2.59E-01	1.59E-01	5.58E-01	2.84E-01	6.24E-03
4353	357000	3802000	2.31E-01	3.73E-02	4.93E-02	1.46E-02	4.93E-02	1.46E-02	2.85E-01	1.62E-01	6.15E-01	2.76E-01	6.87E-03
4354	357250	3802000	2.53E-01	3.90E-02	4.98E-02	1.53E-02	4.98E-02	1.53E-02	3.13E-01	1.64E-01	6.74E-01	2.69E-01	7.53E-03
4355	357500	3802000	2.66E-01	4.07E-02	5.21E-02	1.60E-02	5.21E-02	1.60E-02	3.30E-01	1.75E-01	7.09E-01	2.76E-01	7.92E-03
4356	357750	3802000	2.64E-01	4.26E-02	5.42E-02	1.68E-02	5.42E-02	1.68E-02	3.27E-01	1.80E-01	7.03E-01	3.25E-01	7.86E-03
4357	358000	3802000	2.39E-01	4.48E-02	5.66E-02	1.78E-02	5.66E-02	1.78E-02	2.97E-01	1.90E-01	6.38E-01	3.66E-01	7.13E-03
4358	358250	3802000	2.23E-01	4.75E-02	5.96E-02	1.90E-02	5.96E-02	1.90E-02	2.76E-01	2.02E-01	5.94E-01	3.61E-01	6.64E-03
4359	358500	3802000	2.45E-01	5.09E-02	6.24E-02	2.06E-02	6.24E-02	2.06E-02	3.04E-01	2.12E-01	6.54E-01	4.21E-01	7.31E-03
4360	358750	3802000	2.71E-01	5.45E-02	6.63E-02	2.22E-02	6.63E-02	2.22E-02	3.38E-01	2.25E-01	7.23E-01	4.73E-01	8.08E-03
4361	359000	3802000	3.08E-01	5.73E-02	7.32E-02	2.35E-02	7.32E-02	2.35E-02	3.83E-01	2.49E-01	8.20E-01	5.25E-01	9.17E-03
4362	359250	3802000	3.48E-01	5.77E-02	7.18E-02	2.38E-02	7.18E-02	2.38E-02	4.35E-01	2.45E-01	9.28E-01	6.06E-01	1.04E-02
4363	359500	3802000	4.23E-01	5.45E-02	7.79E-02	2.25E-02	7.79E-02	2.25E-02	5.29E-01	2.64E-01	1.13E+00	6.19E-01	1.26E-02
4364	359750	3802000	4.25E-01	4.96E-02	8.69E-02	2.04E-02	8.69E-02	2.04E-02	5.31E-01	2.96E-01	1.13E+00	6.59E-01	1.27E-02
4365	360000	3802000	4.25E-01	4.15E-02	8.29E-02	1.70E-02	8.29E-02	1.70E-02	5.31E-01	2.84E-01	1.13E+00	7.27E-01	1.27E-02
4366	360250	3802000	5.57E-01	3.18E-02	8.13E-02	1.28E-02	8.13E-02	1.28E-02	6.95E-01	2.79E-01	1.48E+00	6.35E-01	1.66E-02
4367	360500	3802000	4.67E-01	2.48E-02	5.96E-02	9.86E-03	5.96E-02	9.86E-03	5.84E-01	2.03E-01	1.25E+00	4.21E-01	1.39E-02
4368	360750	3802000	3.35E-01	2.03E-02	5.19E-02	7.98E-03	5.19E-02	7.98E-03	4.18E-01	1.75E-01	8.93E-01	4.10E-01	9.98E-03
4369	361000	3802000	3.21E-01	1.76E-02	3.75E-02	6.89E-03	3.75E-02	6.89E-03	4.01E-01	1.27E-01	8.57E-01	3.29E-01	9.57E-03
4370	361250	3802000	4.56E-01	1.59E-02	3.15E-02	6.23E-03	3.15E-02	6.23E-03	5.69E-01	1.05E-01	1.22E+00	2.63E-01	1.36E-02
4371	361500	3802000	4.54E-01	1.47E-02	3.43E-02	5.78E-03	3.43E-02	5.78E-03	5.66E-01	1.16E-01	1.21E+00	2.62E-01	1.35E-02
4372	361750	3802000	3.59E-01	1.39E-02	3.04E-02	5.47E-03	3.04E-02	5.47E-03	4.47E-01	1.03E-01	9.56E-01	2.31E-01	1.07E-02
4373	362000	3802000	2.44E-01	1.33E-02	2.51E-02	5.27E-03	2.51E-02	5.27E-03	3.04E-01	8.40E-02	6.51E-01	2.24E-01	7.27E-03
4374	362250	3802000	1.78E-01	1.30E-02	2.61E-02	5.14E-03	2.61E-02	5.14E-03	2.19E-01	8.78E-02	4.75E-01	2.45E-01	5.31E-03
4375	362500	3802000	1.79E-01	1.28E-02	2.80E-02	5.06E-03	2.80E-02	5.06E-03	2.21E-01	9.32E-02	4.78E-01	2.45E-01	5.34E-03
4376	362750	3802000	1.78E-01	1.26E-02	2.95E-02	5.01E-03	2.95E-02	5.01E-03	2.21E-01	9.80E-02	4.75E-01	2.30E-01	5.31E-03
4377	363000	3802000	1.85E-01	1.25E-02	3.03E-02	4.98E-03	3.03E-02	4.98E-03	2.28E-01	1.01E-01	4.93E-01	2.16E-01	5.50E-03
4378	363250	3802000	1.81E-01	1.24E-02	3.08E-02	4.96E-03	3.08E-02	4.96E-03	2.23E-01	1.02E-01	4.82E-01	1.97E-01	5.39E-03
4379	363500	3802000	1.73E-01	1.24E-02	3.10E-02	4.93E-03	3.10E-02	4.93E-03	2.14E-01	1.02E-01	4.61E-01	1.75E-01	5.16E-03
4380	363750	3802000	1.79E-01	1.23E-02	3.10E-02	4.91E-03	3.10E-02	4.91E-03	2.21E-01	1.02E-01	4.76E-01	2.00E-01	5.32E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4381	364000	3802000	1.84E-01	1.22E-02	3.15E-02	4.87E-03	3.15E-02	4.87E-03	2.28E-01	1.04E-01	4.92E-01	2.23E-01	5.49E-03
4382	364250	3802000	1.91E-01	1.21E-02	3.09E-02	4.83E-03	3.09E-02	4.83E-03	2.34E-01	1.02E-01	5.10E-01	2.23E-01	5.70E-03
4383	364500	3802000	1.84E-01	1.20E-02	3.01E-02	4.79E-03	3.01E-02	4.79E-03	2.25E-01	9.82E-02	4.91E-01	2.15E-01	5.48E-03
4384	364750	3802000	1.73E-01	1.18E-02	2.97E-02	4.74E-03	2.97E-02	4.74E-03	2.12E-01	9.63E-02	4.62E-01	2.18E-01	5.16E-03
4385	365000	3802000	1.64E-01	1.17E-02	2.91E-02	4.69E-03	2.91E-02	4.69E-03	1.99E-01	9.41E-02	4.36E-01	2.17E-01	4.88E-03
4386	365250	3802000	1.60E-01	1.16E-02	2.85E-02	4.63E-03	2.85E-02	4.63E-03	1.95E-01	9.18E-02	4.27E-01	2.24E-01	4.77E-03
4387	365500	3802000	1.46E-01	1.14E-02	2.79E-02	4.57E-03	2.79E-02	4.57E-03	1.77E-01	8.93E-02	3.90E-01	2.04E-01	4.36E-03
4388	365750	3802000	1.24E-01	1.12E-02	2.72E-02	4.51E-03	2.72E-02	4.51E-03	1.48E-01	8.67E-02	3.30E-01	2.00E-01	3.69E-03
4389	354250	3802250	1.24E-01	2.42E-02	3.39E-02	9.39E-03	3.39E-02	9.39E-03	1.52E-01	1.10E-01	3.31E-01	2.19E-01	3.69E-03
4390	354500	3802250	1.31E-01	2.52E-02	3.54E-02	9.78E-03	3.54E-02	9.78E-03	1.60E-01	1.12E-01	3.48E-01	2.30E-01	3.89E-03
4391	354750	3802250	1.30E-01	2.63E-02	3.69E-02	1.02E-02	3.69E-02	1.02E-02	1.59E-01	1.18E-01	3.46E-01	2.42E-01	3.87E-03
4392	355000	3802250	1.35E-01	2.73E-02	3.83E-02	1.06E-02	3.83E-02	1.06E-02	1.66E-01	1.23E-01	3.61E-01	2.53E-01	4.03E-03
4393	355250	3802250	1.50E-01	2.84E-02	3.95E-02	1.11E-02	3.95E-02	1.11E-02	1.85E-01	1.28E-01	4.00E-01	2.63E-01	4.47E-03
4394	355500	3802250	1.44E-01	2.96E-02	4.14E-02	1.15E-02	4.14E-02	1.15E-02	1.77E-01	1.33E-01	3.84E-01	2.70E-01	4.30E-03
4395	355750	3802250	1.54E-01	3.08E-02	4.32E-02	1.20E-02	4.32E-02	1.20E-02	1.89E-01	1.39E-01	4.11E-01	2.75E-01	4.59E-03
4396	356000	3802250	1.75E-01	3.21E-02	4.47E-02	1.25E-02	4.47E-02	1.25E-02	2.16E-01	1.45E-01	4.68E-01	2.76E-01	5.23E-03
4397	356250	3802250	1.75E-01	3.35E-02	4.60E-02	1.31E-02	4.60E-02	1.31E-02	2.16E-01	1.49E-01	4.67E-01	2.70E-01	5.22E-03
4398	356500	3802250	1.93E-01	3.49E-02	4.68E-02	1.37E-02	4.68E-02	1.37E-02	2.39E-01	1.53E-01	5.16E-01	2.64E-01	5.76E-03
4399	356750	3802250	2.11E-01	3.64E-02	4.79E-02	1.43E-02	4.79E-02	1.43E-02	2.60E-01	1.54E-01	5.62E-01	2.59E-01	6.28E-03
4400	357000	3802250	2.24E-01	3.79E-02	5.01E-02	1.49E-02	5.01E-02	1.49E-02	2.77E-01	1.64E-01	5.96E-01	2.54E-01	6.67E-03
4401	357250	3802250	2.28E-01	3.94E-02	5.18E-02	1.56E-02	5.18E-02	1.56E-02	2.82E-01	1.70E-01	6.08E-01	2.57E-01	6.80E-03
4402	357500	3802250	2.20E-01	4.09E-02	5.31E-02	1.62E-02	5.31E-02	1.62E-02	2.73E-01	1.75E-01	5.87E-01	2.76E-01	6.55E-03
4403	357750	3802250	2.04E-01	4.26E-02	5.43E-02	1.69E-02	5.43E-02	1.69E-02	2.51E-01	1.81E-01	5.43E-01	2.93E-01	6.06E-03
4404	358000	3802250	2.16E-01	4.45E-02	5.56E-02	1.78E-02	5.56E-02	1.78E-02	2.68E-01	1.87E-01	5.77E-01	3.13E-01	6.45E-03
4405	358250	3802250	2.40E-01	4.67E-02	5.84E-02	1.88E-02	5.84E-02	1.88E-02	2.98E-01	1.95E-01	6.41E-01	3.63E-01	7.16E-03
4406	358500	3802250	2.22E-01	4.91E-02	6.08E-02	1.99E-02	6.08E-02	1.99E-02	2.74E-01	2.04E-01	5.91E-01	4.01E-01	6.60E-03
4407	358750	3802250	2.41E-01	5.09E-02	6.49E-02	2.08E-02	6.49E-02	2.08E-02	2.99E-01	2.19E-01	6.42E-01	4.36E-01	7.17E-03
4408	359000	3802250	2.81E-01	5.15E-02	6.58E-02	2.11E-02	6.58E-02	2.11E-02	3.49E-01	2.24E-01	7.48E-01	4.70E-01	8.36E-03
4409	359250	3802250	3.41E-01	4.98E-02	6.68E-02	2.05E-02	6.68E-02	2.05E-02	4.25E-01	2.23E-01	9.09E-01	5.39E-01	1.02E-02
4410	359500	3802250	3.60E-01	4.71E-02	7.00E-02	1.93E-02	7.00E-02	1.93E-02	4.49E-01	2.37E-01	9.60E-01	5.03E-01	1.07E-02
4411	359750	3802250	3.30E-01	4.25E-02	7.36E-02	1.74E-02	7.36E-02	1.74E-02	4.11E-01	2.49E-01	8.79E-01	5.55E-01	9.82E-03
4412	360000	3802250	3.58E-01	3.60E-02	7.13E-02	1.46E-02	7.13E-02	1.46E-02	4.47E-01	2.44E-01	9.56E-01	5.91E-01	1.07E-02
4413	360250	3802250	4.78E-01	2.87E-02	7.03E-02	1.15E-02	7.03E-02	1.15E-02	5.97E-01	2.39E-01	1.27E+00	5.14E-01	1.43E-02
4414	360500	3802250	4.27E-01	2.31E-02	5.59E-02	9.19E-03	5.59E-02	9.19E-03	5.33E-01	1.90E-01	1.14E+00	3.70E-01	1.27E-02
4415	360750	3802250	3.42E-01	1.93E-02	4.60E-02	7.61E-03	4.60E-02	7.61E-03	4.26E-01	1.54E-01	9.11E-01	3.22E-01	1.02E-02
4416	361000	3802250	2.25E-01	1.69E-02	3.78E-02	6.63E-03	3.78E-02	6.63E-03	2.80E-01	1.28E-01	6.00E-01	3.10E-01	6.70E-03
4417	361250	3802250	3.36E-01	1.53E-02	3.12E-02	6.02E-03	3.12E-02	6.02E-03	4.19E-01	1.04E-01	8.97E-01	2.27E-01	1.00E-02
4418	361500	3802250	3.96E-01	1.43E-02	3.09E-02	5.62E-03	3.09E-02	5.62E-03	4.93E-01	1.04E-01	1.06E+00	2.48E-01	1.18E-02
4419	361750	3802250	3.69E-01	1.35E-02	3.19E-02	5.33E-03	3.19E-02	5.33E-03	4.59E-01	1.07E-01	9.84E-01	2.32E-01	1.10E-02
4420	362000	3802250	2.94E-01	1.30E-02	2.83E-02	5.12E-03	2.83E-02	5.12E-03	3.66E-01	9.48E-02	7.85E-01	2.39E-01	8.77E-03
4421	362250	3802250	2.09E-01	1.26E-02	2.59E-02	4.98E-03	2.59E-02	4.98E-03	2.59E-01	8.45E-02	5.56E-01	2.29E-01	6.22E-03
4422	362500	3802250	1.68E-01	1.23E-02	2.48E-02	4.88E-03	2.48E-02	4.88E-03	2.06E-01	8.04E-02	4.48E-01	2.05E-01	5.01E-03
4423	362750	3802250	1.64E-01	1.21E-02	2.46E-02	4.81E-03	2.46E-02	4.81E-03	2.01E-01	8.11E-02	4.36E-01	2.06E-01	4.88E-03
4424	363000	3802250	1.65E-01	1.19E-02	2.61E-02	4.75E-03	2.61E-02	4.75E-03	2.03E-01	8.62E-02	4.41E-01	2.00E-01	4.92E-03
4425	363250	3802250	1.64E-01	1.18E-02	2.71E-02	4.71E-03	2.71E-02	4.71E-03	2.02E-01	8.95E-02	4.37E-01	1.90E-01	4.89E-03
4426	363500	3802250	1.65E-01	1.17E-02	2.78E-02	4.67E-03	2.78E-02	4.67E-03	2.03E-01	9.16E-02	4.39E-01	1.78E-01	4.91E-03
4427	363750	3802250	1.65E-01	1.16E-02	2.82E-02	4.63E-03	2.82E-02	4.63E-03	2.04E-01	9.26E-02	4.41E-01	1.63E-01	4.93E-03
4428	364000	3802250	1.65E-01	1.15E-02	2.84E-02	4.59E-03	2.84E-02	4.59E-03	2.03E-01	9.29E-02	4.40E-01	1.79E-01	4.91E-03
4429	364250	3802250	1.77E-01	1.14E-02	2.84E-02	4.55E-03	2.84E-02	4.55E-03	2.17E-01	9.27E-02	4.71E-01	2.10E-01	5.27E-03
4430	364500	3802250	1.74E-01	1.13E-02	2.83E-02	4.51E-03	2.83E-02	4.51E-03	2.14E-01	9.22E-02	4.64E-01	2.12E-01	5.19E-03
4431	364750	3802250	1.71E-01	1.12E-02	2.82E-02	4.46E-03	2.82E-02	4.46E-03	2.08E-01	9.14E-02	4.55E-01	1.97E-01	5.08E-03
4432	365000	3802250	1.52E-01	1.10E-02	2.79E-02	4.41E-03	2.79E-02	4.41E-03	1.84E-01	9.02E-02	4.06E-01	1.82E-01	4.54E-03
4433	365250	3802250	1.49E-01	1.09E-02	2.76E-02	4.36E-03	2.76E-02	4.36E-03	1.80E-01	8.88E-02	3.98E-01	1.88E-01	4.45E-03
4434	365500	3802250	1.32E-01	1.08E-02	2.71E-02	4.31E-03	2.71E-02	4.31E-03	1.59E-01	8.71E-02	3.53E-01	1.91E-01	3.94E-03
4435	354500	3802500	1.22E-01	2.58E-02	3.71E-02	1.00E-02	3.71E-02	1.00E-02	1.46E-01	1.19E-01	3.26E-01	2.38E-01	3.65E-03
4436	354750	3802500	1.24E-01	2.68E-02	3.81E-02	1.04E-02	3.81E-02	1.04E-02	1.48E-01	1.23E-01	3.31E-01	2.47E-01	3.70E-03
4437	355000	3802500	1.26E-01	2.78E-02	3.91E-02	1.08E-02	3.91E-02	1.08E-02	1.52E-01	1.27E-01	3.35E-01	2.53E-01	3.74E-03
4438	355250	3802500	1.33E-01	2.89E-02	4.07E-02	1.13E-02	4.07E-02	1.13E-02	1.63E-01	1.31E-01	3.55E-01	2.57E-01	3.96E-03
4439	355500	3802500	1.41E-01	3.01E-02	4.21E-02	1.18E-02	4.21E-02	1.18E-02	1.73E-01	1.35E-01	3.77E-01	2.58E-01	4.21E-03
4440	355750	3802500	1.51E-01	3.13E-02	4.33E-02	1.23E-02	4.33E-02	1.23E-02	1.86E-01	1.40E-01	4.02E-01	2.54E-01	4.50E-03
4441	356000	3802500	1.73E-01	3.26E-02	4.41E-02	1.28E-02	4.41E-02	1.28E-02	2.13E-01	1.43E-01	4.61E-01	2.51E-01	5.15E-03
4442	356250	3802500	1.91E-01	3.39E-02	4.53E-02	1.33E-02	4.53E-02	1.33E-02	2.37E-01	1.45E-01	5.10E-01	2.46E-01	5.70E-03
4443	356500	3802500	2.03E-01	3.53E-02	4.76E-02	1.39E-02	4.76E-02	1.39E-02	2.51E-01	1.54E-01	5.41E-01	2.46E-01	6.05E-03
4444	356750	3802500	2.03E-01	3.67E-02	4.94E-02	1.45E-02	4.94E-02	1.45E-02	2.51E-01	1.61E-01	5.41E-01	2.56E-01	6.04E-03
4445	357000	3802500	1.95E-01	3.80E-02	5.07E-02	1.50E-02	5.07E-02	1.50E-02	2.41E-01	1.65E-01	5.20E-01	2.56E-01	5.81E-03
4446	357250	3802500	1.94E-01	3.93E-02	5.15E-02	1.56E-02	5.15E-02	1.56E-02	2.37E-01	1.69E-01	5.16E-01	2.56E-01	5.77E-03
4447	357500	3802500	1.92E-01	4.06E-02	5.19E-02	1.61E-02	5.19E-02	1.61E-02	2.36E-01	1.72E-01	5.13E-01	2.61E-01	5.73E-03
4448	357750	3802500	2.09E-01	4.20E-02	5.25E-02	1.68E-02	5.25E-02	1.68E-02	2.58E-01	1.75E-01	5.58E-01	2.88E-01	6.24E-03
4449	358000	3802500	2.30E-01	4.36E-02	5.54E-02	1.75E-02	5.54E-02	1.75E-02	2.84E-01	1.83E-01	6.12E-01	3.23E-01	6.84E-03
4450	358250	3802500	2.19E-01	4.52E-02	5.69E-02	1.83E-02	5.69E-02	1.83E-02	2.70E-01	1.90E-01	5.83E-01	3.50E-01	6.52E-03
4451	358500	3802500	2.38E-01	4.65E-02	5.92E-02	1.89E-02	5.92E-02	1.89E-02	2.96E-01	1.98E-01	6.34E-01	3.71E-01	7.08E-03
4452	358750	3802500	2.32E-01	4.69E-02	6.27E-02	1.91E-02	6.27E-02	1.91E-02	2.89E-01	2.12E-01	6.20E-01	3.88E-01	6.93E-03
4453	359000	3802500	2.55E-01	4.60E-02	6.02E-02	1.88E-02	6.02E-02	1.88E-02	3.18E-01	2.03E-01	6.81E-01	4.53E-01	7.61E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4454	359250	3802500	3.18E-01	4.43E-02	6.48E-02	1.80E-02	6.48E-02	1.80E-02	3.96E-01	2.17E-01	8.47E-01	4.53E-01	9.46E-03
4455	359500	3802500	3.32E-01	4.16E-02	6.78E-02	1.69E-02	6.78E-02	1.69E-02	4.14E-01	2.28E-01	8.86E-01	4.11E-01	9.90E-03
4456	359750	3802500	2.86E-01	3.74E-02	6.56E-02	1.52E-02	6.56E-02	1.52E-02	3.56E-01	2.21E-01	7.64E-01	4.64E-01	8.53E-03
4457	360000	3802500	3.19E-01	3.22E-02	6.21E-02	1.30E-02	6.21E-02	1.30E-02	3.98E-01	2.12E-01	8.51E-01	4.88E-01	9.51E-03
4458	360250	3802500	4.13E-01	2.64E-02	6.21E-02	1.05E-02	6.21E-02	1.05E-02	5.14E-01	2.11E-01	1.10E+00	4.25E-01	1.23E-02
4459	360500	3802500	3.83E-01	2.18E-02	5.22E-02	8.65E-03	5.22E-02	8.65E-03	4.77E-01	1.76E-01	1.02E+00	3.24E-01	1.14E-02
4460	360750	3802500	3.28E-01	1.85E-02	4.08E-02	7.30E-03	4.08E-02	7.30E-03	4.08E-01	1.36E-01	8.75E-01	2.53E-01	9.78E-03
4461	361000	3802500	2.19E-01	1.63E-02	3.63E-02	6.41E-03	3.63E-02	6.41E-03	2.73E-01	1.22E-01	5.84E-01	2.72E-01	6.53E-03
4462	361250	3802500	2.37E-01	1.49E-02	3.03E-02	5.84E-03	3.03E-02	5.84E-03	2.95E-01	1.01E-01	6.32E-01	2.15E-01	7.07E-03
4463	361500	3802500	3.17E-01	1.39E-02	2.77E-02	5.46E-03	2.77E-02	5.46E-03	3.94E-01	9.20E-02	8.44E-01	2.21E-01	9.44E-03
4464	361750	3802500	3.37E-01	1.31E-02	3.00E-02	5.18E-03	3.00E-02	5.18E-03	4.19E-01	1.01E-01	8.98E-01	2.30E-01	1.00E-02
4465	362000	3802500	3.04E-01	1.26E-02	2.99E-02	4.98E-03	2.99E-02	4.98E-03	3.78E-01	1.00E-01	8.10E-01	2.32E-01	9.05E-03
4466	362250	3802500	2.44E-01	1.22E-02	2.65E-02	4.83E-03	2.65E-02	4.83E-03	3.03E-01	8.84E-02	6.50E-01	2.39E-01	7.26E-03
4467	362500	3802500	1.80E-01	1.19E-02	2.66E-02	4.72E-03	2.66E-02	4.72E-03	2.23E-01	8.67E-02	4.79E-01	2.29E-01	5.36E-03
4468	362750	3802500	1.56E-01	1.17E-02	2.55E-02	4.63E-03	2.55E-02	4.63E-03	1.91E-01	8.26E-02	4.17E-01	2.06E-01	4.66E-03
4469	363000	3802500	1.53E-01	1.15E-02	2.36E-02	4.57E-03	2.36E-02	4.57E-03	1.87E-01	7.59E-02	4.08E-01	1.78E-01	4.56E-03
4470	363250	3802500	1.51E-01	1.13E-02	2.33E-02	4.51E-03	2.33E-02	4.51E-03	1.85E-01	7.65E-02	4.04E-01	1.76E-01	4.51E-03
4471	363500	3802500	1.48E-01	1.12E-02	2.44E-02	4.46E-03	2.44E-02	4.46E-03	1.81E-01	8.01E-02	3.95E-01	1.76E-01	4.41E-03
4472	363750	3802500	1.49E-01	1.11E-02	2.52E-02	4.41E-03	2.52E-02	4.41E-03	1.84E-01	8.23E-02	3.97E-01	1.81E-01	4.43E-03
4473	364000	3802500	1.67E-01	1.09E-02	2.56E-02	4.36E-03	2.56E-02	4.36E-03	2.07E-01	8.37E-02	4.47E-01	1.95E-01	4.99E-03
4474	364250	3802500	1.44E-01	1.08E-02	2.59E-02	4.32E-03	2.59E-02	4.32E-03	1.78E-01	8.45E-02	3.85E-01	1.55E-01	4.30E-03
4475	364500	3802500	1.68E-01	1.07E-02	2.61E-02	4.27E-03	2.61E-02	4.27E-03	2.05E-01	8.48E-02	4.48E-01	1.82E-01	5.00E-03
4476	364750	3802500	1.67E-01	1.06E-02	2.62E-02	4.22E-03	2.62E-02	4.22E-03	2.03E-01	8.48E-02	4.45E-01	1.90E-01	4.97E-03
4477	365000	3802500	1.59E-01	1.05E-02	2.61E-02	4.18E-03	2.61E-02	4.18E-03	1.92E-01	8.45E-02	4.23E-01	1.78E-01	4.72E-03
4478	365250	3802500	1.47E-01	1.03E-02	2.60E-02	4.13E-03	2.60E-02	4.13E-03	1.77E-01	8.38E-02	3.91E-01	1.59E-01	4.37E-03
4479	354500	3802750	1.21E-01	2.62E-02	3.72E-02	1.02E-02	3.72E-02	1.02E-02	1.45E-01	1.20E-01	3.21E-01	2.36E-01	3.59E-03
4480	354750	3802750	1.22E-01	2.72E-02	3.83E-02	1.06E-02	3.83E-02	1.06E-02	1.45E-01	1.22E-01	3.25E-01	2.39E-01	3.64E-03
4481	355000	3802750	1.25E-01	2.82E-02	3.95E-02	1.10E-02	3.95E-02	1.10E-02	1.50E-01	1.26E-01	3.34E-01	2.43E-01	3.73E-03
4482	355250	3802750	1.39E-01	2.93E-02	4.06E-02	1.15E-02	4.06E-02	1.15E-02	1.72E-01	1.30E-01	3.72E-01	2.44E-01	4.15E-03
4483	355500	3802750	1.58E-01	3.05E-02	4.14E-02	1.19E-02	4.14E-02	1.19E-02	1.95E-01	1.33E-01	4.21E-01	2.41E-01	4.71E-03
4484	355750	3802750	1.75E-01	3.17E-02	4.27E-02	1.24E-02	4.27E-02	1.24E-02	2.16E-01	1.35E-01	4.66E-01	2.34E-01	5.20E-03
4485	356000	3802750	1.87E-01	3.29E-02	4.48E-02	1.29E-02	4.48E-02	1.29E-02	2.30E-01	1.45E-01	4.97E-01	2.37E-01	5.56E-03
4486	356250	3802750	1.91E-01	3.41E-02	4.66E-02	1.35E-02	4.66E-02	1.35E-02	2.36E-01	1.52E-01	5.08E-01	2.46E-01	5.68E-03
4487	356500	3802750	1.84E-01	3.54E-02	4.80E-02	1.40E-02	4.80E-02	1.40E-02	2.28E-01	1.56E-01	4.91E-01	2.55E-01	5.49E-03
4488	356750	3802750	1.76E-01	3.65E-02	4.90E-02	1.44E-02	4.90E-02	1.44E-02	2.16E-01	1.59E-01	4.68E-01	2.49E-01	5.23E-03
4489	357000	3802750	1.82E-01	3.76E-02	4.95E-02	1.49E-02	4.95E-02	1.49E-02	2.23E-01	1.62E-01	4.85E-01	2.53E-01	5.42E-03
4490	357250	3802750	1.83E-01	3.87E-02	4.96E-02	1.54E-02	4.96E-02	1.54E-02	2.25E-01	1.64E-01	4.89E-01	2.58E-01	5.46E-03
4491	357500	3802750	1.99E-01	3.99E-02	5.11E-02	1.59E-02	5.11E-02	1.59E-02	2.45E-01	1.68E-01	5.31E-01	2.68E-01	5.94E-03
4492	357750	3802750	2.16E-01	4.11E-02	5.30E-02	1.65E-02	5.30E-02	1.65E-02	2.67E-01	1.75E-01	5.77E-01	2.95E-01	6.45E-03
4493	358000	3802750	2.11E-01	4.23E-02	5.39E-02	1.70E-02	5.39E-02	1.70E-02	2.60E-01	1.79E-01	5.63E-01	3.13E-01	6.29E-03
4494	358250	3802750	2.33E-01	4.32E-02	5.63E-02	1.75E-02	5.63E-02	1.75E-02	2.90E-01	1.87E-01	6.22E-01	3.23E-01	6.95E-03
4495	358500	3802750	2.13E-01	4.34E-02	5.96E-02	1.76E-02	5.96E-02	1.76E-02	2.64E-01	2.00E-01	5.67E-01	3.47E-01	6.34E-03
4496	358750	3802750	2.01E-01	4.29E-02	5.69E-02	1.75E-02	5.69E-02	1.75E-02	2.45E-01	1.92E-01	5.37E-01	3.80E-01	6.00E-03
4497	359000	3802750	2.43E-01	4.18E-02	6.01E-02	1.69E-02	6.01E-02	1.69E-02	3.02E-01	1.99E-01	6.48E-01	4.11E-01	7.24E-03
4498	359250	3802750	3.30E-01	4.01E-02	6.07E-02	1.63E-02	6.07E-02	1.63E-02	4.11E-01	2.03E-01	8.80E-01	3.69E-01	9.83E-03
4499	359500	3802750	2.84E-01	3.73E-02	6.49E-02	1.51E-02	6.49E-02	1.51E-02	3.54E-01	2.18E-01	7.56E-01	3.66E-01	8.45E-03
4500	359750	3802750	2.46E-01	3.37E-02	5.93E-02	1.36E-02	5.93E-02	1.36E-02	3.05E-01	1.99E-01	6.55E-01	3.94E-01	7.32E-03
4501	360000	3802750	2.88E-01	2.93E-02	5.46E-02	1.18E-02	5.46E-02	1.18E-02	3.58E-01	1.86E-01	7.67E-01	4.10E-01	8.57E-03
4502	360250	3802750	3.58E-01	2.46E-02	5.59E-02	9.79E-03	5.59E-02	9.79E-03	4.46E-01	1.89E-01	9.56E-01	3.56E-01	1.07E-02
4503	360500	3802750	3.42E-01	2.06E-02	4.87E-02	8.19E-03	4.87E-02	8.19E-03	4.26E-01	1.64E-01	9.12E-01	2.83E-01	1.02E-02
4504	360750	3802750	3.05E-01	1.78E-02	3.68E-02	7.03E-03	3.68E-02	7.03E-03	3.79E-01	1.23E-01	8.13E-01	2.02E-01	9.09E-03
4505	361000	3802750	2.27E-01	1.58E-02	3.40E-02	6.21E-03	3.40E-02	6.21E-03	2.82E-01	1.14E-01	6.05E-01	2.31E-01	6.76E-03
4506	361250	3802750	1.81E-01	1.44E-02	2.92E-02	5.66E-03	2.92E-02	5.66E-03	2.24E-01	9.71E-02	4.82E-01	2.08E-01	5.39E-03
4507	361500	3802750	2.42E-01	1.35E-02	2.76E-02	5.30E-03	2.76E-02	5.30E-03	3.00E-01	9.18E-02	6.44E-01	1.94E-01	7.20E-03
4508	361750	3802750	2.85E-01	1.28E-02	2.67E-02	5.04E-03	2.67E-02	5.04E-03	3.54E-01	8.90E-02	7.60E-01	2.16E-01	8.50E-03
4509	362000	3802750	2.86E-01	1.22E-02	2.89E-02	4.84E-03	2.89E-02	4.84E-03	3.55E-01	9.66E-02	7.62E-01	2.12E-01	8.52E-03
4510	362250	3802750	2.54E-01	1.18E-02	2.80E-02	4.69E-03	2.80E-02	4.69E-03	3.15E-01	9.37E-02	6.77E-01	2.32E-01	7.56E-03
4511	362500	3802750	2.06E-01	1.15E-02	2.67E-02	4.57E-03	2.67E-02	4.57E-03	2.55E-01	8.71E-02	5.49E-01	2.36E-01	6.14E-03
4512	362750	3802750	1.56E-01	1.13E-02	2.70E-02	4.48E-03	2.70E-02	4.48E-03	1.94E-01	8.80E-02	4.17E-01	2.24E-01	4.66E-03
4513	363000	3802750	1.45E-01	1.11E-02	2.60E-02	4.41E-03	2.60E-02	4.41E-03	1.76E-01	8.41E-02	3.85E-01	2.04E-01	4.31E-03
4514	363250	3802750	1.43E-01	1.09E-02	2.40E-02	4.34E-03	2.40E-02	4.34E-03	1.74E-01	7.73E-02	3.80E-01	1.78E-01	4.25E-03
4515	363500	3802750	1.42E-01	1.08E-02	2.19E-02	4.28E-03	2.19E-02	4.28E-03	1.74E-01	6.98E-02	3.79E-01	1.68E-01	4.24E-03
4516	363750	3802750	1.38E-01	1.06E-02	2.21E-02	4.22E-03	2.21E-02	4.22E-03	1.68E-01	7.20E-02	3.67E-01	1.74E-01	4.10E-03
4517	364000	3802750	1.41E-01	1.05E-02	2.29E-02	4.17E-03	2.29E-02	4.17E-03	1.74E-01	7.44E-02	3.76E-01	1.77E-01	4.20E-03
4518	364250	3802750	1.50E-01	1.03E-02	2.34E-02	4.12E-03	2.34E-02	4.12E-03	1.85E-01	7.60E-02	4.01E-01	1.87E-01	4.48E-03
4519	364500	3802750	1.46E-01	1.02E-02	2.38E-02	4.07E-03	2.38E-02	4.07E-03	1.80E-01	7.70E-02	3.89E-01	1.67E-01	4.35E-03
4520	364750	3802750	1.63E-01	1.01E-02	2.40E-02	4.02E-03	2.40E-02	4.02E-03	1.98E-01	7.76E-02	4.35E-01	1.54E-01	4.86E-03
4521	365000	3802750	1.56E-01	9.97E-03	2.42E-02	3.98E-03	2.42E-02	3.98E-03	1.89E-01	7.79E-02	4.16E-01	1.56E-01	4.65E-03
4522	365250	3802750	1.50E-01	9.85E-03	2.42E-02	3.93E-03	2.42E-02	3.93E-03	1.81E-01	7.79E-02	3.99E-01	1.65E-01	4.46E-03
4523	354750	3803000	1.28E-01	2.75E-02	3.81E-02	1.08E-02	3.81E-02	1.08E-02	1.58E-01	1.21E-01	3.43E-01	2.33E-01	3.83E-03
4524	355000	3803000	1.44E-01	2.85E-02	3.89E-02	1.12E-02	3.89E-02	1.12E-02	1.78E-01	1.24E-01	3.85E-01	2.32E-01	4.30E-03
4525	355250	3803000	1.59E-01	2.96E-02	4.01E-02	1.16E-02	4.01E-02	1.16E-02	1.96E-01	1.27E-01	4.24E-01	2.27E-01	4.74E-03
4526	355500	3803000	1.71E-01	3.07E-02	4.21E-02	1.21E-02	4.21E-02	1.21E-02	2.10E-01	1.35E-01	4.55E-01	2.26E-01	5.08E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4527	355750	3803000	1.77E-01	3.18E-02	4.40E-02	1.25E-02	4.40E-02	1.25E-02	2.18E-01	1.43E-01	4.71E-01	2.37E-01	5.26E-03
4528	356000	3803000	1.75E-01	3.29E-02	4.54E-02	1.30E-02	4.54E-02	1.30E-02	2.16E-01	1.48E-01	4.67E-01	2.45E-01	5.22E-03
4529	356250	3803000	1.71E-01	3.40E-02	4.64E-02	1.34E-02	4.64E-02	1.34E-02	2.11E-01	1.49E-01	4.57E-01	2.49E-01	5.11E-03
4530	356500	3803000	1.68E-01	3.50E-02	4.70E-02	1.39E-02	4.70E-02	1.39E-02	2.05E-01	1.52E-01	4.48E-01	2.39E-01	5.01E-03
4531	356750	3803000	1.71E-01	3.60E-02	4.73E-02	1.43E-02	4.73E-02	1.43E-02	2.09E-01	1.54E-01	4.57E-01	2.49E-01	5.10E-03
4532	357000	3803000	1.73E-01	3.70E-02	4.73E-02	1.47E-02	4.73E-02	1.47E-02	2.11E-01	1.55E-01	4.61E-01	2.56E-01	5.16E-03
4533	357250	3803000	1.88E-01	3.80E-02	4.96E-02	1.51E-02	4.96E-02	1.51E-02	2.31E-01	1.62E-01	5.01E-01	2.60E-01	5.60E-03
4534	357500	3803000	2.02E-01	3.90E-02	5.10E-02	1.56E-02	5.10E-02	1.56E-02	2.49E-01	1.67E-01	5.39E-01	2.74E-01	6.02E-03
4535	357750	3803000	2.01E-01	3.99E-02	5.16E-02	1.60E-02	5.16E-02	1.60E-02	2.47E-01	1.70E-01	5.36E-01	2.87E-01	5.99E-03
4536	358000	3803000	2.23E-01	4.06E-02	5.39E-02	1.63E-02	5.39E-02	1.63E-02	2.77E-01	1.77E-01	5.96E-01	2.87E-01	6.66E-03
4537	358250	3803000	2.18E-01	4.08E-02	5.67E-02	1.65E-02	5.67E-02	1.65E-02	2.70E-01	1.88E-01	5.80E-01	3.15E-01	6.48E-03
4538	358500	3803000	1.92E-01	4.04E-02	5.68E-02	1.64E-02	5.68E-02	1.64E-02	2.18E-01	1.90E-01	5.12E-01	3.22E-01	5.72E-03
4539	358750	3803000	2.05E-01	3.96E-02	5.67E-02	1.60E-02	5.67E-02	1.60E-02	2.52E-01	1.86E-01	5.46E-01	3.64E-01	6.10E-03
4540	359000	3803000	2.71E-01	3.85E-02	5.87E-02	1.56E-02	5.87E-02	1.56E-02	3.37E-01	1.94E-01	7.22E-01	3.60E-01	8.07E-03
4541	359250	3803000	3.11E-01	3.66E-02	5.91E-02	1.48E-02	5.91E-02	1.48E-02	3.87E-01	1.96E-01	8.29E-01	3.24E-01	9.27E-03
4542	359500	3803000	2.33E-01	3.39E-02	6.16E-02	1.37E-02	6.16E-02	1.37E-02	2.90E-01	2.06E-01	6.20E-01	3.37E-01	6.93E-03
4543	359750	3803000	2.19E-01	3.08E-02	5.53E-02	1.24E-02	5.53E-02	1.24E-02	2.63E-01	1.84E-01	5.83E-01	3.50E-01	6.52E-03
4544	360000	3803000	2.59E-01	2.71E-02	5.22E-02	1.09E-02	5.22E-02	1.09E-02	3.22E-01	1.74E-01	6.91E-01	3.49E-01	7.72E-03
4545	360250	3803000	3.14E-01	2.31E-02	5.09E-02	9.20E-03	5.09E-02	9.20E-03	3.90E-01	1.71E-01	8.37E-01	3.03E-01	9.36E-03
4546	360500	3803000	3.05E-01	1.96E-02	4.56E-02	7.79E-03	4.56E-02	7.79E-03	3.79E-01	1.53E-01	8.14E-01	2.49E-01	9.10E-03
4547	360750	3803000	2.79E-01	1.72E-02	3.64E-02	6.77E-03	3.64E-02	6.77E-03	3.46E-01	1.21E-01	7.44E-01	1.93E-01	8.32E-03
4548	361000	3803000	2.25E-01	1.53E-02	3.16E-02	6.03E-03	3.16E-02	6.03E-03	2.79E-01	1.06E-01	5.99E-01	1.93E-01	6.69E-03
4549	361250	3803000	1.72E-01	1.40E-02	2.79E-02	5.51E-03	2.79E-02	5.51E-03	2.14E-01	9.28E-02	4.60E-01	1.92E-01	5.14E-03
4550	361500	3803000	1.80E-01	1.31E-02	2.71E-02	5.15E-03	2.71E-02	5.15E-03	2.24E-01	8.99E-02	4.80E-01	1.72E-01	5.36E-03
4551	361750	3803000	2.31E-01	1.24E-02	2.54E-02	4.90E-03	2.54E-02	4.90E-03	2.86E-01	8.42E-02	6.15E-01	1.97E-01	6.87E-03
4552	362000	3803000	2.52E-01	1.19E-02	2.63E-02	4.71E-03	2.63E-02	4.71E-03	3.13E-01	8.78E-02	6.72E-01	2.05E-01	7.51E-03
4553	362250	3803000	2.44E-01	1.15E-02	2.75E-02	4.56E-03	2.75E-02	4.56E-03	3.02E-01	9.19E-02	6.51E-01	2.14E-01	7.27E-03
4554	362500	3803000	2.15E-01	1.12E-02	2.64E-02	4.44E-03	2.64E-02	4.44E-03	2.66E-01	8.78E-02	5.73E-01	2.28E-01	6.41E-03
4555	362750	3803000	1.76E-01	1.09E-02	2.71E-02	4.34E-03	2.71E-02	4.34E-03	2.18E-01	8.81E-02	4.70E-01	2.29E-01	5.26E-03
4556	363000	3803000	1.45E-01	1.07E-02	2.71E-02	4.26E-03	2.71E-02	4.26E-03	1.78E-01	8.80E-02	3.87E-01	2.18E-01	4.33E-03
4557	363250	3803000	1.39E-01	1.05E-02	2.59E-02	4.19E-03	2.59E-02	4.19E-03	1.70E-01	8.36E-02	3.71E-01	1.99E-01	4.15E-03
4558	363500	3803000	1.35E-01	1.04E-02	2.40E-02	4.12E-03	2.40E-02	4.12E-03	1.66E-01	7.70E-02	3.61E-01	1.76E-01	4.04E-03
4559	363750	3803000	1.38E-01	1.02E-02	2.19E-02	4.06E-03	2.19E-02	4.06E-03	1.68E-01	7.00E-02	3.67E-01	1.62E-01	4.10E-03
4560	364000	3803000	1.34E-01	1.01E-02	2.02E-02	4.01E-03	2.02E-02	4.01E-03	1.64E-01	6.52E-02	3.58E-01	1.69E-01	4.00E-03
4561	364250	3803000	1.34E-01	9.93E-03	2.09E-02	3.95E-03	2.09E-02	3.95E-03	1.65E-01	6.76E-02	3.58E-01	1.71E-01	4.01E-03
4562	364500	3803000	1.45E-01	9.80E-03	2.15E-02	3.90E-03	2.15E-02	3.90E-03	1.78E-01	6.93E-02	3.86E-01	1.89E-01	4.32E-03
4563	364750	3803000	1.54E-01	9.67E-03	2.19E-02	3.85E-03	2.19E-02	3.85E-03	1.89E-01	7.05E-02	4.11E-01	1.84E-01	4.60E-03
4564	365000	3803000	1.54E-01	9.55E-03	2.22E-02	3.80E-03	2.22E-02	3.80E-03	1.87E-01	7.12E-02	4.11E-01	1.56E-01	4.59E-03
4565	354750	3803250	1.45E-01	2.77E-02	3.77E-02	1.09E-02	3.77E-02	1.09E-02	1.78E-01	1.19E-01	3.87E-01	2.19E-01	4.32E-03
4566	355000	3803250	1.56E-01	2.87E-02	3.98E-02	1.13E-02	3.98E-02	1.13E-02	1.91E-01	1.27E-01	4.15E-01	2.14E-01	4.64E-03
4567	355250	3803250	1.63E-01	2.97E-02	4.16E-02	1.17E-02	4.16E-02	1.17E-02	2.00E-01	1.34E-01	4.33E-01	2.27E-01	4.84E-03
4568	355500	3803250	1.64E-01	3.07E-02	4.30E-02	1.21E-02	4.30E-02	1.21E-02	2.02E-01	1.39E-01	4.38E-01	2.34E-01	4.89E-03
4569	355750	3803250	1.63E-01	3.17E-02	4.38E-02	1.25E-02	4.38E-02	1.25E-02	2.00E-01	1.42E-01	4.35E-01	2.40E-01	4.86E-03
4570	356000	3803250	1.63E-01	3.27E-02	4.46E-02	1.29E-02	4.46E-02	1.29E-02	2.00E-01	1.43E-01	4.34E-01	2.39E-01	4.85E-03
4571	356250	3803250	1.60E-01	3.36E-02	4.50E-02	1.33E-02	4.50E-02	1.33E-02	1.96E-01	1.45E-01	4.26E-01	2.34E-01	4.76E-03
4572	356500	3803250	1.61E-01	3.45E-02	4.51E-02	1.37E-02	4.51E-02	1.37E-02	1.97E-01	1.46E-01	4.30E-01	2.46E-01	4.81E-03
4573	356750	3803250	1.65E-01	3.54E-02	4.55E-02	1.40E-02	4.55E-02	1.40E-02	2.04E-01	1.48E-01	4.40E-01	2.63E-01	4.92E-03
4574	357000	3803250	1.76E-01	3.62E-02	4.80E-02	1.44E-02	4.80E-02	1.44E-02	2.16E-01	1.57E-01	4.70E-01	2.64E-01	5.25E-03
4575	357250	3803250	1.88E-01	3.71E-02	4.92E-02	1.48E-02	4.92E-02	1.48E-02	2.31E-01	1.62E-01	5.02E-01	2.55E-01	5.61E-03
4576	357500	3803250	1.90E-01	3.79E-02	5.02E-02	1.52E-02	5.02E-02	1.52E-02	2.33E-01	1.64E-01	5.07E-01	2.67E-01	5.67E-03
4577	357750	3803250	2.11E-01	3.84E-02	5.18E-02	1.54E-02	5.18E-02	1.54E-02	2.61E-01	1.69E-01	5.63E-01	2.68E-01	6.29E-03
4578	358000	3803250	2.15E-01	3.86E-02	5.38E-02	1.56E-02	5.38E-02	1.56E-02	2.66E-01	1.77E-01	5.73E-01	2.88E-01	6.40E-03
4579	358250	3803250	1.87E-01	3.83E-02	5.58E-02	1.55E-02	5.58E-02	1.55E-02	2.33E-01	1.86E-01	5.00E-01	2.98E-01	5.58E-03
4580	358500	3803250	1.80E-01	3.78E-02	5.41E-02	1.52E-02	5.41E-02	1.52E-02	2.21E-01	1.76E-01	4.80E-01	3.21E-01	5.37E-03
4581	358750	3803250	2.09E-01	3.70E-02	5.67E-02	1.49E-02	5.67E-02	1.49E-02	2.56E-01	1.86E-01	5.56E-01	3.36E-01	6.22E-03
4582	359000	3803250	2.79E-01	3.56E-02	5.60E-02	1.44E-02	5.60E-02	1.44E-02	3.46E-01	1.85E-01	7.43E-01	3.07E-01	8.30E-03
4583	359250	3803250	2.76E-01	3.37E-02	5.91E-02	1.36E-02	5.91E-02	1.36E-02	3.44E-01	1.96E-01	7.37E-01	2.97E-01	8.24E-03
4584	359500	3803250	2.06E-01	3.13E-02	5.84E-02	1.26E-02	5.84E-02	1.26E-02	2.56E-01	1.95E-01	5.50E-01	3.13E-01	6.14E-03
4585	359750	3803250	2.11E-01	2.85E-02	5.45E-02	1.15E-02	5.45E-02	1.15E-02	2.50E-01	1.81E-01	5.62E-01	3.12E-01	6.28E-03
4586	360000	3803250	2.34E-01	2.53E-02	5.06E-02	1.01E-02	5.06E-02	1.01E-02	2.90E-01	1.68E-01	6.23E-01	3.01E-01	6.97E-03
4587	360250	3803250	2.77E-01	2.19E-02	4.70E-02	8.70E-03	4.70E-02	8.70E-03	3.44E-01	1.58E-01	7.39E-01	2.61E-01	8.26E-03
4588	360500	3803250	2.73E-01	1.88E-02	4.29E-02	7.45E-03	4.29E-02	7.45E-03	3.39E-01	1.43E-01	7.28E-01	2.33E-01	8.14E-03
4589	360750	3803250	2.53E-01	1.66E-02	3.57E-02	6.54E-03	3.57E-02	6.54E-03	3.14E-01	1.19E-01	6.76E-01	1.98E-01	7.55E-03
4590	361000	3803250	2.16E-01	1.49E-02	2.93E-02	5.85E-03	2.93E-02	5.85E-03	2.68E-01	9.73E-02	5.77E-01	1.76E-01	6.44E-03
4591	361250	3803250	1.64E-01	1.36E-02	2.64E-02	5.36E-03	2.64E-02	5.36E-03	2.01E-01	8.78E-02	4.36E-01	1.71E-01	4.88E-03
4592	361500	3803250	1.71E-01	1.27E-02	2.62E-02	5.01E-03	2.62E-02	5.01E-03	2.11E-01	8.69E-02	4.55E-01	1.64E-01	5.09E-03
4593	361750	3803250	1.82E-01	1.21E-02	2.52E-02	4.76E-03	2.52E-02	4.76E-03	2.25E-01	8.32E-02	4.84E-01	1.88E-01	5.41E-03
4594	362000	3803250	2.13E-01	1.16E-02	2.34E-02	4.57E-03	2.34E-02	4.57E-03	2.64E-01	7.77E-02	5.68E-01	1.92E-01	6.35E-03
4595	362250	3803250	2.22E-01	1.12E-02	2.57E-02	4.43E-03	2.57E-02	4.43E-03	2.75E-01	8.56E-02	5.91E-01	1.92E-01	6.61E-03
4596	362500	3803250	2.10E-01	1.09E-02	2.62E-02	4.31E-03	2.62E-02	4.31E-03	2.60E-01	8.72E-02	5.60E-01	2.12E-01	6.26E-03
4597	362750	3803250	1.85E-01	1.06E-02	2.57E-02	4.21E-03	2.57E-02	4.21E-03	2.28E-01	8.36E-02	4.92E-01	2.22E-01	5.50E-03
4598	363000	3803250	1.53E-01	1.04E-02	2.69E-02	4.13E-03	2.69E-02	4.13E-03	1.89E-01	8.73E-02	4.08E-01	2.21E-01	4.56E-03
4599	363250	3803250	1.39E-01	1.02E-02	2.67E-02	4.05E-03	2.67E-02	4.05E-03	1.70E-01	8.66E-02	3.72E-01	2.10E-01	4.16E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4600	363500	3803250	1.34E-01	1.00E-02	2.55E-02	3.98E-03	2.55E-02	3.98E-03	1.64E-01	8.24E-02	3.58E-01	1.93E-01	4.00E-03
4601	363750	3803250	1.32E-01	9.86E-03	2.38E-02	3.92E-03	2.38E-02	3.92E-03	1.60E-01	7.63E-02	3.51E-01	1.72E-01	3.93E-03
4602	364000	3803250	1.32E-01	9.71E-03	2.19E-02	3.86E-03	2.19E-02	3.86E-03	1.62E-01	6.97E-02	3.53E-01	1.56E-01	3.94E-03
4603	364250	3803250	1.37E-01	9.57E-03	2.01E-02	3.81E-03	2.01E-02	3.81E-03	1.68E-01	6.35E-02	3.66E-01	1.63E-01	4.08E-03
4604	364500	3803250	1.47E-01	9.43E-03	1.94E-02	3.75E-03	1.94E-02	3.75E-03	1.81E-01	6.34E-02	3.93E-01	1.84E-01	4.39E-03
4605	364750	3803250	1.52E-01	9.31E-03	2.00E-02	3.70E-03	2.00E-02	3.70E-03	1.85E-01	6.56E-02	4.04E-01	1.92E-01	4.52E-03
4606	355000	3803500	1.52E-01	2.88E-02	4.09E-02	1.13E-02	4.09E-02	1.13E-02	1.87E-01	1.31E-01	4.06E-01	2.24E-01	4.54E-03
4607	355250	3803500	1.53E-01	2.97E-02	4.18E-02	1.17E-02	4.18E-02	1.17E-02	1.87E-01	1.35E-01	4.07E-01	2.29E-01	4.55E-03
4608	355500	3803500	1.56E-01	3.06E-02	4.22E-02	1.21E-02	4.22E-02	1.21E-02	1.92E-01	1.36E-01	4.17E-01	2.32E-01	4.66E-03
4609	355750	3803500	1.53E-01	3.14E-02	4.28E-02	1.24E-02	4.28E-02	1.24E-02	1.88E-01	1.36E-01	4.08E-01	2.28E-01	4.56E-03
4610	356000	3803500	1.55E-01	3.22E-02	4.31E-02	1.28E-02	4.31E-02	1.28E-02	1.90E-01	1.38E-01	4.13E-01	2.32E-01	4.61E-03
4611	356250	3803500	1.55E-01	3.30E-02	4.37E-02	1.31E-02	4.37E-02	1.31E-02	1.90E-01	1.42E-01	4.14E-01	2.47E-01	4.62E-03
4612	356500	3803500	1.62E-01	3.38E-02	4.44E-02	1.34E-02	4.44E-02	1.34E-02	1.99E-01	1.43E-01	4.31E-01	2.65E-01	4.81E-03
4613	356750	3803500	1.67E-01	3.46E-02	4.64E-02	1.38E-02	4.64E-02	1.38E-02	2.06E-01	1.51E-01	4.46E-01	2.64E-01	4.98E-03
4614	357000	3803500	1.75E-01	3.54E-02	4.83E-02	1.41E-02	4.83E-02	1.41E-02	2.14E-01	1.60E-01	4.67E-01	2.54E-01	5.21E-03
4615	357250	3803500	1.79E-01	3.60E-02	4.98E-02	1.44E-02	4.98E-02	1.44E-02	2.19E-01	1.63E-01	4.78E-01	2.50E-01	5.34E-03
4616	357500	3803500	1.98E-01	3.65E-02	5.10E-02	1.47E-02	5.10E-02	1.47E-02	2.44E-01	1.68E-01	5.27E-01	2.56E-01	5.89E-03
4617	357750	3803500	2.07E-01	3.67E-02	5.17E-02	1.48E-02	5.17E-02	1.48E-02	2.57E-01	1.69E-01	5.53E-01	2.72E-01	6.18E-03
4618	358000	3803500	1.92E-01	3.65E-02	5.42E-02	1.47E-02	5.42E-02	1.47E-02	2.38E-01	1.79E-01	5.12E-01	2.79E-01	5.73E-03
4619	358250	3803500	1.73E-01	3.62E-02	5.27E-02	1.46E-02	5.27E-02	1.46E-02	2.14E-01	1.75E-01	4.61E-01	2.83E-01	5.15E-03
4620	358500	3803500	1.90E-01	3.56E-02	5.48E-02	1.43E-02	5.48E-02	1.43E-02	2.33E-01	1.78E-01	5.06E-01	3.08E-01	5.66E-03
4621	358750	3803500	2.25E-01	3.46E-02	5.52E-02	1.39E-02	5.52E-02	1.39E-02	2.79E-01	1.81E-01	5.99E-01	3.02E-01	6.70E-03
4622	359000	3803500	2.67E-01	3.31E-02	5.35E-02	1.33E-02	5.35E-02	1.33E-02	3.32E-01	1.76E-01	7.13E-01	2.80E-01	7.97E-03
4623	359250	3803500	2.37E-01	3.13E-02	5.88E-02	1.26E-02	5.88E-02	1.26E-02	2.95E-01	1.93E-01	6.33E-01	2.75E-01	7.07E-03
4624	359500	3803500	1.90E-01	2.91E-02	5.56E-02	1.17E-02	5.56E-02	1.17E-02	2.33E-01	1.84E-01	5.08E-01	2.90E-01	5.68E-03
4625	359750	3803500	2.02E-01	2.67E-02	5.36E-02	1.07E-02	5.36E-02	1.07E-02	2.41E-01	1.77E-01	5.40E-01	2.85E-01	6.03E-03
4626	360000	3803500	2.14E-01	2.38E-02	4.91E-02	9.54E-03	4.91E-02	9.54E-03	2.62E-01	1.62E-01	5.71E-01	2.63E-01	6.38E-03
4627	360250	3803500	2.47E-01	2.08E-02	4.37E-02	8.28E-03	4.37E-02	8.28E-03	3.06E-01	1.46E-01	6.57E-01	2.51E-01	7.35E-03
4628	360500	3803500	2.45E-01	1.81E-02	4.03E-02	7.14E-03	4.03E-02	7.14E-03	3.04E-01	1.34E-01	6.54E-01	2.30E-01	7.31E-03
4629	360750	3803500	2.29E-01	1.60E-02	3.46E-02	6.32E-03	3.46E-02	6.32E-03	2.84E-01	1.15E-01	6.12E-01	1.98E-01	6.84E-03
4630	361000	3803500	2.05E-01	1.44E-02	2.74E-02	5.68E-03	2.74E-02	5.68E-03	2.53E-01	9.02E-02	5.46E-01	1.76E-01	6.10E-03
4631	361250	3803500	1.59E-01	1.32E-02	2.51E-02	5.21E-03	2.51E-02	5.21E-03	1.96E-01	8.37E-02	4.23E-01	1.81E-01	4.73E-03
4632	361500	3803500	1.63E-01	1.24E-02	2.52E-02	4.87E-03	2.52E-02	4.87E-03	2.01E-01	8.32E-02	4.34E-01	1.65E-01	4.85E-03
4633	361750	3803500	1.59E-01	1.17E-02	2.46E-02	4.63E-03	2.46E-02	4.63E-03	1.96E-01	8.11E-02	4.24E-01	1.83E-01	4.73E-03
4634	362000	3803500	1.75E-01	1.12E-02	2.43E-02	4.44E-03	2.43E-02	4.44E-03	2.17E-01	7.96E-02	4.67E-01	1.93E-01	5.22E-03
4635	362250	3803500	1.94E-01	1.09E-02	2.33E-02	4.30E-03	2.33E-02	4.30E-03	2.40E-01	7.72E-02	5.17E-01	1.83E-01	5.78E-03
4636	362500	3803500	1.95E-01	1.05E-02	2.48E-02	4.18E-03	2.48E-02	4.18E-03	2.41E-01	8.22E-02	5.20E-01	1.90E-01	5.82E-03
4637	362750	3803500	1.82E-01	1.03E-02	2.47E-02	4.08E-03	2.47E-02	4.08E-03	2.25E-01	8.20E-02	4.86E-01	2.07E-01	5.43E-03
4638	363000	3803500	1.60E-01	1.01E-02	2.56E-02	4.00E-03	2.56E-02	4.00E-03	1.98E-01	8.29E-02	4.27E-01	2.14E-01	4.77E-03
4639	363250	3803500	1.34E-01	9.87E-03	2.64E-02	3.92E-03	2.64E-02	3.92E-03	1.65E-01	8.56E-02	3.58E-01	2.12E-01	4.00E-03
4640	363500	3803500	1.34E-01	9.70E-03	2.62E-02	3.85E-03	2.62E-02	3.85E-03	1.64E-01	8.46E-02	3.57E-01	2.02E-01	3.98E-03
4641	363750	3803500	1.31E-01	9.54E-03	2.51E-02	3.79E-03	2.51E-02	3.79E-03	1.58E-01	8.07E-02	3.49E-01	1.86E-01	3.90E-03
4642	364000	3803500	1.30E-01	9.39E-03	2.35E-02	3.73E-03	2.35E-02	3.73E-03	1.56E-01	7.52E-02	3.47E-01	1.68E-01	3.87E-03
4643	364250	3803500	1.28E-01	9.25E-03	2.17E-02	3.68E-03	2.17E-02	3.68E-03	1.54E-01	6.91E-02	3.42E-01	1.49E-01	3.82E-03
4644	364500	3803500	1.30E-01	9.11E-03	2.00E-02	3.62E-03	2.00E-02	3.62E-03	1.59E-01	6.32E-02	3.48E-01	1.56E-01	3.88E-03
4645	364750	3803500	1.40E-01	8.98E-03	1.85E-02	3.57E-03	1.85E-02	3.57E-03	1.71E-01	5.79E-02	3.73E-01	1.67E-01	4.16E-03
4646	355000	3803750	1.48E-01	2.86E-02	4.04E-02	1.13E-02	4.04E-02	1.13E-02	1.81E-01	1.30E-01	3.93E-01	2.22E-01	4.40E-03
4647	355250	3803750	1.48E-01	2.94E-02	4.06E-02	1.16E-02	4.06E-02	1.16E-02	1.82E-01	1.30E-01	3.95E-01	2.23E-01	4.41E-03
4648	355500	3803750	1.48E-01	3.02E-02	4.10E-02	1.19E-02	4.10E-02	1.19E-02	1.82E-01	1.30E-01	3.96E-01	2.24E-01	4.42E-03
4649	355750	3803750	1.49E-01	3.09E-02	4.17E-02	1.22E-02	4.17E-02	1.22E-02	1.82E-01	1.34E-01	3.97E-01	2.38E-01	4.43E-03
4650	356000	3803750	1.53E-01	3.16E-02	4.23E-02	1.25E-02	4.23E-02	1.25E-02	1.87E-01	1.37E-01	4.07E-01	2.50E-01	4.55E-03
4651	356250	3803750	1.57E-01	3.23E-02	4.31E-02	1.28E-02	4.31E-02	1.28E-02	1.93E-01	1.38E-01	4.18E-01	2.65E-01	4.67E-03
4652	356500	3803750	1.63E-01	3.30E-02	4.48E-02	1.31E-02	4.48E-02	1.31E-02	2.00E-01	1.46E-01	4.34E-01	2.61E-01	4.85E-03
4653	356750	3803750	1.63E-01	3.37E-02	4.74E-02	1.35E-02	4.74E-02	1.35E-02	2.00E-01	1.57E-01	4.34E-01	2.50E-01	4.85E-03
4654	357000	3803750	1.68E-01	3.44E-02	4.95E-02	1.37E-02	4.95E-02	1.37E-02	2.06E-01	1.61E-01	4.49E-01	2.47E-01	5.02E-03
4655	357250	3803750	1.85E-01	3.48E-02	5.11E-02	1.40E-02	5.11E-02	1.40E-02	2.28E-01	1.68E-01	4.92E-01	2.53E-01	5.50E-03
4656	357500	3803750	1.98E-01	3.50E-02	4.99E-02	1.41E-02	4.99E-02	1.41E-02	2.44E-01	1.64E-01	5.27E-01	2.71E-01	5.89E-03
4657	357750	3803750	1.91E-01	3.50E-02	5.23E-02	1.40E-02	5.23E-02	1.40E-02	2.36E-01	1.71E-01	5.09E-01	2.73E-01	5.69E-03
4658	358000	3803750	1.73E-01	3.48E-02	5.25E-02	1.40E-02	5.25E-02	1.40E-02	2.14E-01	1.73E-01	4.62E-01	2.65E-01	5.17E-03
4659	358250	3803750	1.69E-01	3.43E-02	5.30E-02	1.38E-02	5.30E-02	1.38E-02	2.07E-01	1.71E-01	4.50E-01	2.80E-01	5.03E-03
4660	358500	3803750	1.89E-01	3.35E-02	5.41E-02	1.35E-02	5.41E-02	1.35E-02	2.32E-01	1.76E-01	5.05E-01	2.87E-01	5.64E-03
4661	358750	3803750	2.31E-01	3.24E-02	5.29E-02	1.30E-02	5.29E-02	1.30E-02	2.86E-01	1.73E-01	6.15E-01	2.66E-01	6.87E-03
4662	359000	3803750	2.45E-01	3.10E-02	5.56E-02	1.25E-02	5.56E-02	1.25E-02	3.04E-01	1.81E-01	6.54E-01	2.55E-01	7.31E-03
4663	359250	3803750	1.99E-01	2.92E-02	5.83E-02	1.18E-02	5.83E-02	1.18E-02	2.47E-01	1.92E-01	5.32E-01	2.66E-01	5.94E-03
4664	359500	3803750	1.90E-01	2.73E-02	5.33E-02	1.10E-02	5.33E-02	1.10E-02	2.31E-01	1.76E-01	5.06E-01	2.70E-01	5.65E-03
4665	359750	3803750	1.94E-01	2.51E-02	5.26E-02	1.01E-02	5.26E-02	1.01E-02	2.31E-01	1.74E-01	5.17E-01	2.74E-01	5.78E-03
4666	360000	3803750	2.03E-01	2.26E-02	4.78E-02	9.02E-03	4.78E-02	9.02E-03	2.38E-01	1.57E-01	5.42E-01	2.52E-01	6.06E-03
4667	360250	3803750	2.21E-01	1.99E-02	4.24E-02	7.90E-03	4.24E-02	7.90E-03	2.73E-01	1.40E-01	5.89E-01	2.62E-01	6.58E-03
4668	360500	3803750	2.21E-01	1.74E-02	3.81E-02	6.89E-03	3.81E-02	6.89E-03	2.74E-01	1.26E-01	5.90E-01	2.27E-01	6.59E-03
4669	360750	3803750	2.08E-01	1.55E-02	3.33E-02	6.11E-03	3.33E-02	6.11E-03	2.57E-01	1.10E-01	5.54E-01	1.97E-01	6.19E-03
4670	361000	3803750	1.92E-01	1.40E-02	2.73E-02	5.52E-03	2.73E-02	5.52E-03	2.37E-01	8.99E-02	5.11E-01	1.71E-01	5.71E-03
4671	361250	3803750	1.56E-01	1.29E-02	2.38E-02	5.07E-03	2.38E-02	5.07E-03	1.93E-01	7.90E-02	4.17E-01	1.87E-01	4.66E-03
4672	361500	3803750	1.51E-01	1.20E-02	2.40E-02	4.74E-03	2.40E-02	4.74E-03	1.86E-01	7.91E-02	4.03E-01	1.69E-01	4.50E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4673	361750	3803750	1.56E-01	1.14E-02	2.38E-02	4.50E-03	2.38E-02	4.50E-03	1.92E-01	7.84E-02	4.16E-01	1.72E-01	4.65E-03
4674	362000	3803750	1.43E-01	1.09E-02	2.43E-02	4.32E-03	2.43E-02	4.32E-03	1.76E-01	7.93E-02	3.80E-01	1.93E-01	4.25E-03
4675	362250	3803750	1.65E-01	1.05E-02	2.34E-02	4.17E-03	2.34E-02	4.17E-03	2.04E-01	7.62E-02	4.40E-01	1.92E-01	4.92E-03
4676	362500	3803750	1.75E-01	1.02E-02	2.27E-02	4.05E-03	2.27E-02	4.05E-03	2.16E-01	7.52E-02	4.67E-01	1.74E-01	5.22E-03
4677	362750	3803750	1.72E-01	9.97E-03	2.37E-02	3.96E-03	2.37E-02	3.96E-03	2.13E-01	7.84E-02	4.60E-01	1.88E-01	5.14E-03
4678	363000	3803750	1.59E-01	9.75E-03	2.36E-02	3.87E-03	2.36E-02	3.87E-03	1.97E-01	7.73E-02	4.25E-01	2.01E-01	4.75E-03
4679	363250	3803750	1.40E-01	9.56E-03	2.52E-02	3.80E-03	2.52E-02	3.80E-03	1.73E-01	8.15E-02	3.74E-01	2.05E-01	4.18E-03
4680	363500	3803750	1.31E-01	9.39E-03	2.59E-02	3.73E-03	2.59E-02	3.73E-03	1.58E-01	8.36E-02	3.48E-01	2.02E-01	3.89E-03
4681	363750	3803750	1.31E-01	9.24E-03	2.56E-02	3.67E-03	2.56E-02	3.67E-03	1.57E-01	8.24E-02	3.49E-01	1.93E-01	3.90E-03
4682	364000	3803750	1.29E-01	9.09E-03	2.45E-02	3.61E-03	2.45E-02	3.61E-03	1.55E-01	7.88E-02	3.45E-01	1.79E-01	3.85E-03
4683	364250	3803750	1.28E-01	8.95E-03	2.31E-02	3.56E-03	2.31E-02	3.56E-03	1.53E-01	7.38E-02	3.40E-01	1.63E-01	3.80E-03
4684	364500	3803750	1.27E-01	8.82E-03	2.15E-02	3.51E-03	2.15E-02	3.51E-03	1.51E-01	6.81E-02	3.38E-01	1.45E-01	3.77E-03
4685	355250	3804000	1.44E-01	2.90E-02	3.95E-02	1.15E-02	3.95E-02	1.15E-02	1.76E-01	1.25E-01	3.83E-01	2.22E-01	4.28E-03
4686	355500	3804000	1.43E-01	2.97E-02	4.06E-02	1.18E-02	4.06E-02	1.18E-02	1.75E-01	1.30E-01	3.81E-01	2.40E-01	4.26E-03
4687	355750	3804000	1.49E-01	3.04E-02	4.09E-02	1.20E-02	4.09E-02	1.20E-02	1.83E-01	1.32E-01	3.97E-01	2.52E-01	4.44E-03
4688	356000	3804000	1.52E-01	3.10E-02	4.19E-02	1.23E-02	4.19E-02	1.23E-02	1.86E-01	1.34E-01	4.04E-01	2.63E-01	4.52E-03
4689	356250	3804000	1.58E-01	3.16E-02	4.41E-02	1.26E-02	4.41E-02	1.26E-02	1.94E-01	1.44E-01	4.21E-01	2.58E-01	4.71E-03
4690	356500	3804000	1.57E-01	3.23E-02	4.65E-02	1.29E-02	4.65E-02	1.29E-02	1.94E-01	1.53E-01	4.20E-01	2.49E-01	4.69E-03
4691	356750	3804000	1.61E-01	3.28E-02	4.88E-02	1.31E-02	4.88E-02	1.31E-02	1.98E-01	1.59E-01	4.30E-01	2.43E-01	4.80E-03
4692	357000	3804000	1.72E-01	3.33E-02	5.06E-02	1.33E-02	5.06E-02	1.33E-02	2.12E-01	1.66E-01	4.58E-01	2.48E-01	5.12E-03
4693	357250	3804000	1.87E-01	3.35E-02	4.99E-02	1.34E-02	4.99E-02	1.34E-02	2.30E-01	1.64E-01	4.98E-01	2.67E-01	5.56E-03
4694	357500	3804000	1.86E-01	3.36E-02	5.01E-02	1.34E-02	5.01E-02	1.34E-02	2.29E-01	1.63E-01	4.95E-01	2.76E-01	5.53E-03
4695	357750	3804000	1.73E-01	3.35E-02	5.16E-02	1.34E-02	5.16E-02	1.34E-02	2.14E-01	1.69E-01	4.61E-01	2.64E-01	5.15E-03
4696	358000	3804000	1.66E-01	3.31E-02	5.11E-02	1.33E-02	5.11E-02	1.33E-02	2.06E-01	1.64E-01	4.44E-01	2.69E-01	4.96E-03
4697	358250	3804000	1.72E-01	3.25E-02	5.28E-02	1.30E-02	5.28E-02	1.30E-02	2.11E-01	1.71E-01	4.60E-01	2.70E-01	5.14E-03
4698	358500	3804000	1.90E-01	3.16E-02	5.25E-02	1.27E-02	5.25E-02	1.27E-02	2.33E-01	1.71E-01	5.06E-01	2.63E-01	5.65E-03
4699	358750	3804000	2.24E-01	3.05E-02	5.03E-02	1.23E-02	5.03E-02	1.23E-02	2.78E-01	1.64E-01	5.98E-01	2.47E-01	6.68E-03
4700	359000	3804000	2.18E-01	2.91E-02	5.68E-02	1.17E-02	5.68E-02	1.17E-02	2.70E-01	1.85E-01	5.81E-01	2.47E-01	6.50E-03
4701	359250	3804000	1.76E-01	2.75E-02	5.72E-02	1.11E-02	5.72E-02	1.11E-02	2.17E-01	1.88E-01	4.69E-01	2.55E-01	5.24E-03
4702	359500	3804000	1.86E-01	2.58E-02	5.10E-02	1.03E-02	5.10E-02	1.03E-02	2.26E-01	1.67E-01	4.95E-01	2.63E-01	5.53E-03
4703	359750	3804000	1.86E-01	2.38E-02	5.17E-02	9.52E-03	5.17E-02	9.52E-03	2.19E-01	1.70E-01	4.96E-01	2.71E-01	5.54E-03
4704	360000	3804000	1.93E-01	2.15E-02	4.66E-02	8.58E-03	4.66E-02	8.58E-03	2.17E-01	1.53E-01	5.16E-01	2.63E-01	5.76E-03
4705	360250	3804000	1.99E-01	1.91E-02	4.28E-02	7.57E-03	4.28E-02	7.57E-03	2.46E-01	1.40E-01	5.30E-01	2.71E-01	5.93E-03
4706	360500	3804000	2.00E-01	1.68E-02	3.68E-02	6.65E-03	3.68E-02	6.65E-03	2.48E-01	1.20E-01	5.35E-01	2.24E-01	5.97E-03
4707	360750	3804000	1.88E-01	1.50E-02	3.20E-02	5.91E-03	3.20E-02	5.91E-03	2.32E-01	1.06E-01	5.02E-01	1.95E-01	5.61E-03
4708	361000	3804000	1.78E-01	1.36E-02	2.70E-02	5.36E-03	2.70E-02	5.36E-03	2.20E-01	8.86E-02	4.76E-01	1.68E-01	5.32E-03
4709	361250	3804000	1.52E-01	1.25E-02	2.24E-02	4.94E-03	2.24E-02	4.94E-03	1.87E-01	7.42E-02	4.04E-01	1.87E-01	4.52E-03
4710	361500	3804000	1.44E-01	1.17E-02	2.27E-02	4.62E-03	2.27E-02	4.62E-03	1.76E-01	7.48E-02	3.84E-01	1.77E-01	4.29E-03
4711	361750	3804000	1.49E-01	1.11E-02	2.29E-02	4.38E-03	2.29E-02	4.38E-03	1.84E-01	7.53E-02	3.98E-01	1.57E-01	4.44E-03
4712	362000	3804000	1.44E-01	1.06E-02	2.35E-02	4.19E-03	2.35E-02	4.19E-03	1.77E-01	7.67E-02	3.84E-01	1.84E-01	4.29E-03
4713	362250	3804000	1.38E-01	1.02E-02	2.36E-02	4.05E-03	2.36E-02	4.05E-03	1.70E-01	7.69E-02	3.68E-01	1.94E-01	4.11E-03
4714	362500	3804000	1.53E-01	9.92E-03	2.22E-02	3.93E-03	2.22E-02	3.93E-03	1.89E-01	7.20E-02	4.08E-01	1.86E-01	4.56E-03
4715	362750	3804000	1.58E-01	9.67E-03	2.20E-02	3.84E-03	2.20E-02	3.84E-03	1.95E-01	7.27E-02	4.21E-01	1.68E-01	4.70E-03
4716	363000	3804000	1.53E-01	9.46E-03	2.26E-02	3.75E-03	2.26E-02	3.75E-03	1.88E-01	7.46E-02	4.08E-01	1.84E-01	4.56E-03
4717	363250	3804000	1.41E-01	9.27E-03	2.34E-02	3.68E-03	2.34E-02	3.68E-03	1.73E-01	7.56E-02	3.75E-01	1.94E-01	4.19E-03
4718	363500	3804000	1.30E-01	9.11E-03	2.47E-02	3.62E-03	2.47E-02	3.62E-03	1.57E-01	7.98E-02	3.47E-01	1.97E-01	3.88E-03
4719	363750	3804000	1.29E-01	8.95E-03	2.52E-02	3.56E-03	2.52E-02	3.56E-03	1.55E-01	8.13E-02	3.43E-01	1.93E-01	3.84E-03
4720	364000	3804000	1.29E-01	8.81E-03	2.49E-02	3.50E-03	2.49E-02	3.50E-03	1.54E-01	8.01E-02	3.43E-01	1.84E-01	3.83E-03
4721	364250	3804000	1.27E-01	8.68E-03	2.40E-02	3.45E-03	2.40E-02	3.45E-03	1.52E-01	7.68E-02	3.38E-01	1.72E-01	3.78E-03
4722	355500	3804250	1.45E-01	2.92E-02	3.95E-02	1.16E-02	3.95E-02	1.16E-02	1.77E-01	1.27E-01	3.86E-01	2.52E-01	4.32E-03
4723	355750	3804250	1.46E-01	2.97E-02	4.06E-02	1.18E-02	4.06E-02	1.18E-02	1.79E-01	1.29E-01	3.89E-01	2.60E-01	4.35E-03
4724	356000	3804250	1.53E-01	3.03E-02	4.35E-02	1.21E-02	4.35E-02	1.21E-02	1.87E-01	1.42E-01	4.07E-01	2.53E-01	4.55E-03
4725	356250	3804250	1.52E-01	3.09E-02	4.56E-02	1.23E-02	4.56E-02	1.23E-02	1.87E-01	1.50E-01	4.05E-01	2.48E-01	4.53E-03
4726	356500	3804250	1.54E-01	3.14E-02	4.81E-02	1.25E-02	4.81E-02	1.25E-02	1.89E-01	1.56E-01	4.12E-01	2.41E-01	4.60E-03
4727	356750	3804250	1.60E-01	3.18E-02	4.99E-02	1.27E-02	4.99E-02	1.27E-02	1.97E-01	1.63E-01	4.27E-01	2.42E-01	4.77E-03
4728	357000	3804250	1.76E-01	3.20E-02	4.97E-02	1.28E-02	4.97E-02	1.28E-02	2.16E-01	1.63E-01	4.68E-01	2.62E-01	5.23E-03
4729	357250	3804250	1.78E-01	3.23E-02	4.79E-02	1.29E-02	4.79E-02	1.29E-02	2.20E-01	1.55E-01	4.75E-01	2.74E-01	5.31E-03
4730	357500	3804250	1.73E-01	3.22E-02	5.02E-02	1.29E-02	5.02E-02	1.29E-02	2.14E-01	1.64E-01	4.62E-01	2.64E-01	5.16E-03
4731	357750	3804250	1.68E-01	3.20E-02	4.94E-02	1.28E-02	4.94E-02	1.28E-02	2.07E-01	1.62E-01	4.47E-01	2.65E-01	4.99E-03
4732	358000	3804250	1.64E-01	3.15E-02	5.13E-02	1.26E-02	5.13E-02	1.26E-02	2.00E-01	1.65E-01	4.37E-01	2.62E-01	4.89E-03
4733	358250	3804250	1.70E-01	3.08E-02	5.17E-02	1.24E-02	5.17E-02	1.24E-02	2.09E-01	1.67E-01	4.54E-01	2.58E-01	5.08E-03
4734	358500	3804250	1.91E-01	2.99E-02	5.03E-02	1.20E-02	5.03E-02	1.20E-02	2.36E-01	1.63E-01	5.09E-01	2.37E-01	5.69E-03
4735	358750	3804250	2.10E-01	2.88E-02	5.27E-02	1.16E-02	5.27E-02	1.16E-02	2.60E-01	1.70E-01	5.61E-01	2.30E-01	6.27E-03
4736	359000	3804250	1.90E-01	2.75E-02	5.71E-02	1.10E-02	5.71E-02	1.10E-02	2.35E-01	1.86E-01	5.07E-01	2.47E-01	5.66E-03
4737	359250	3804250	1.68E-01	2.60E-02	5.56E-02	1.04E-02	5.56E-02	1.04E-02	2.07E-01	1.82E-01	4.49E-01	2.55E-01	5.01E-03
4738	359500	3804250	1.80E-01	2.44E-02	5.05E-02	9.78E-03	5.05E-02	9.78E-03	2.18E-01	1.65E-01	4.79E-01	2.70E-01	5.36E-03
4739	359750	3804250	1.78E-01	2.26E-02	5.07E-02	9.04E-03	5.07E-02	9.04E-03	2.11E-01	1.66E-01	4.75E-01	2.66E-01	5.31E-03
4740	360000	3804250	1.84E-01	2.05E-02	4.55E-02	8.18E-03	4.55E-02	8.18E-03	2.02E-01	1.49E-01	4.91E-01	2.71E-01	5.48E-03
4741	360250	3804250	1.80E-01	1.83E-02	4.29E-02	7.27E-03	4.29E-02	7.27E-03	2.23E-01	1.40E-01	4.81E-01	2.77E-01	5.37E-03
4742	360500	3804250	1.82E-01	1.63E-02	3.75E-02	6.43E-03	3.75E-02	6.43E-03	2.25E-01	1.22E-01	4.87E-01	2.26E-01	5.44E-03
4743	360750	3804250	1.71E-01	1.46E-02	3.08E-02	5.73E-03	3.08E-02	5.73E-03	2.11E-01	1.01E-01	4.57E-01	1.93E-01	5.10E-03
4744	361000	3804250	1.66E-01	1.32E-02	2.64E-02	5.21E-03	2.64E-02	5.21E-03	2.04E-01	8.69E-02	4.42E-01	1.67E-01	4.94E-03
4745	361250	3804250	1.45E-01	1.22E-02	2.16E-02	4.81E-03	2.16E-02	4.81E-03	1.79E-01	7.05E-02	3.88E-01	1.82E-01	4.34E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4746	361500	3804250	1.39E-01	1.14E-02	2.14E-02	4.49E-03	2.14E-02	4.49E-03	1.70E-01	7.04E-02	3.71E-01	1.82E-01	4.15E-03
4747	361750	3804250	1.40E-01	1.08E-02	2.19E-02	4.26E-03	2.19E-02	4.26E-03	1.72E-01	7.19E-02	3.73E-01	1.63E-01	4.16E-03
4748	362000	3804250	1.41E-01	1.03E-02	2.23E-02	4.08E-03	2.23E-02	4.08E-03	1.73E-01	7.26E-02	3.76E-01	1.72E-01	4.20E-03
4749	362250	3804250	1.33E-01	9.94E-03	2.32E-02	3.93E-03	2.32E-02	3.93E-03	1.63E-01	7.56E-02	3.55E-01	1.89E-01	3.96E-03
4750	362500	3804250	1.32E-01	9.64E-03	2.27E-02	3.82E-03	2.27E-02	3.82E-03	1.62E-01	7.36E-02	3.53E-01	1.91E-01	3.94E-03
4751	362750	3804250	1.41E-01	9.39E-03	2.10E-02	3.72E-03	2.10E-02	3.72E-03	1.74E-01	6.78E-02	3.76E-01	1.77E-01	4.21E-03
4752	363000	3804250	1.42E-01	9.18E-03	2.12E-02	3.64E-03	2.12E-02	3.64E-03	1.75E-01	7.00E-02	3.80E-01	1.65E-01	4.24E-03
4753	363250	3804250	1.36E-01	8.99E-03	2.15E-02	3.57E-03	2.15E-02	3.57E-03	1.68E-01	7.08E-02	3.64E-01	1.78E-01	4.06E-03
4754	363500	3804250	1.29E-01	8.83E-03	2.31E-02	3.51E-03	2.31E-02	3.51E-03	1.57E-01	7.43E-02	3.45E-01	1.86E-01	3.85E-03
4755	363750	3804250	1.28E-01	8.69E-03	2.42E-02	3.45E-03	2.42E-02	3.45E-03	1.54E-01	7.78E-02	3.42E-01	1.88E-01	3.82E-03
4756	364000	3804250	1.27E-01	8.55E-03	2.46E-02	3.40E-03	2.46E-02	3.40E-03	1.52E-01	7.89E-02	3.38E-01	1.84E-01	3.77E-03
4757	355750	3804500	1.47E-01	2.91E-02	4.29E-02	1.16E-02	4.29E-02	1.16E-02	1.80E-01	1.39E-01	3.93E-01	2.48E-01	4.39E-03
4758	356000	3804500	1.47E-01	2.97E-02	4.47E-02	1.18E-02	4.47E-02	1.18E-02	1.80E-01	1.46E-01	3.91E-01	2.45E-01	4.37E-03
4759	356250	3804500	1.48E-01	3.01E-02	4.72E-02	1.20E-02	4.72E-02	1.20E-02	1.80E-01	1.52E-01	3.94E-01	2.39E-01	4.40E-03
4760	356500	3804500	1.51E-01	3.05E-02	4.91E-02	1.22E-02	4.91E-02	1.22E-02	1.85E-01	1.60E-01	4.03E-01	2.36E-01	4.51E-03
4761	356750	3804500	1.65E-01	3.08E-02	4.93E-02	1.23E-02	4.93E-02	1.23E-02	2.02E-01	1.61E-01	4.39E-01	2.57E-01	4.90E-03
4762	357000	3804500	1.70E-01	3.10E-02	4.72E-02	1.24E-02	4.72E-02	1.24E-02	2.09E-01	1.55E-01	4.52E-01	2.69E-01	5.05E-03
4763	357250	3804500	1.70E-01	3.10E-02	4.85E-02	1.24E-02	4.85E-02	1.24E-02	2.10E-01	1.57E-01	4.54E-01	2.67E-01	5.08E-03
4764	357500	3804500	1.64E-01	3.09E-02	4.88E-02	1.24E-02	4.88E-02	1.24E-02	2.02E-01	1.59E-01	4.37E-01	2.59E-01	4.88E-03
4765	357750	3804500	1.57E-01	3.05E-02	4.96E-02	1.22E-02	4.96E-02	1.22E-02	1.93E-01	1.58E-01	4.18E-01	2.67E-01	4.67E-03
4766	358000	3804500	1.64E-01	2.99E-02	5.06E-02	1.20E-02	5.06E-02	1.20E-02	2.01E-01	1.63E-01	4.39E-01	2.61E-01	4.90E-03
4767	358250	3804500	1.71E-01	2.92E-02	5.00E-02	1.17E-02	5.00E-02	1.17E-02	2.09E-01	1.61E-01	4.55E-01	2.47E-01	5.08E-03
4768	358500	3804500	1.88E-01	2.83E-02	4.78E-02	1.14E-02	4.78E-02	1.14E-02	2.32E-01	1.55E-01	5.00E-01	2.32E-01	5.59E-03
4769	358750	3804500	1.92E-01	2.72E-02	5.42E-02	1.09E-02	5.42E-02	1.09E-02	2.37E-01	1.75E-01	5.12E-01	2.30E-01	5.73E-03
4770	359000	3804500	1.70E-01	2.60E-02	5.67E-02	1.04E-02	5.67E-02	1.04E-02	2.09E-01	1.84E-01	4.54E-01	2.44E-01	5.07E-03
4771	359250	3804500	1.62E-01	2.47E-02	5.37E-02	9.88E-03	5.37E-02	9.88E-03	2.00E-01	1.75E-01	4.33E-01	2.53E-01	4.84E-03
4772	359500	3804500	1.73E-01	2.32E-02	5.01E-02	9.29E-03	5.01E-02	9.29E-03	2.09E-01	1.63E-01	4.61E-01	2.72E-01	5.15E-03
4773	359750	3804500	1.71E-01	2.15E-02	4.95E-02	8.60E-03	4.95E-02	8.60E-03	2.05E-01	1.62E-01	4.55E-01	2.60E-01	5.09E-03
4774	360000	3804500	1.75E-01	1.96E-02	4.43E-02	7.81E-03	4.43E-02	7.81E-03	1.92E-01	1.45E-01	4.68E-01	2.76E-01	5.23E-03
4775	360250	3804500	1.71E-01	1.76E-02	4.28E-02	6.99E-03	4.28E-02	6.99E-03	2.03E-01	1.40E-01	4.56E-01	2.80E-01	5.10E-03
4776	360500	3804500	1.67E-01	1.57E-02	3.78E-02	6.22E-03	3.78E-02	6.22E-03	2.06E-01	1.23E-01	4.45E-01	2.34E-01	4.97E-03
4777	360750	3804500	1.56E-01	1.42E-02	3.00E-02	5.58E-03	3.00E-02	5.58E-03	1.92E-01	9.74E-02	4.16E-01	1.91E-01	4.65E-03
4778	361000	3804500	1.54E-01	1.28E-02	2.59E-02	5.06E-03	2.59E-02	5.06E-03	1.89E-01	8.48E-02	4.09E-01	1.66E-01	4.58E-03
4779	361250	3804500	1.39E-01	1.19E-02	2.16E-02	4.68E-03	2.16E-02	4.68E-03	1.70E-01	7.05E-02	3.69E-01	1.76E-01	4.13E-03
4780	361500	3804500	1.35E-01	1.11E-02	2.02E-02	4.38E-03	2.02E-02	4.38E-03	1.66E-01	6.60E-02	3.60E-01	1.83E-01	4.02E-03
4781	361750	3804500	1.34E-01	1.05E-02	2.09E-02	4.14E-03	2.09E-02	4.14E-03	1.64E-01	6.84E-02	3.56E-01	1.67E-01	3.98E-03
4782	362000	3804500	1.35E-01	1.00E-02	2.10E-02	3.96E-03	2.10E-02	3.96E-03	1.66E-01	6.85E-02	3.60E-01	1.57E-01	4.02E-03
4783	362250	3804500	1.32E-01	9.66E-03	2.23E-02	3.82E-03	2.23E-02	3.82E-03	1.61E-01	7.26E-02	3.51E-01	1.80E-01	3.92E-03
4784	362500	3804500	1.30E-01	9.37E-03	2.26E-02	3.71E-03	2.26E-02	3.71E-03	1.58E-01	7.33E-02	3.46E-01	1.89E-01	3.86E-03
4785	362750	3804500	1.30E-01	9.12E-03	2.16E-02	3.62E-03	2.16E-02	3.62E-03	1.57E-01	6.99E-02	3.48E-01	1.84E-01	3.89E-03
4786	363000	3804500	1.31E-01	8.91E-03	1.98E-02	3.54E-03	1.98E-02	3.54E-03	1.61E-01	6.45E-02	3.49E-01	1.68E-01	3.90E-03
4787	363250	3804500	1.31E-01	8.73E-03	2.04E-02	3.47E-03	2.04E-02	3.47E-03	1.60E-01	6.71E-02	3.49E-01	1.62E-01	3.90E-03
4788	363500	3804500	1.27E-01	8.57E-03	2.13E-02	3.41E-03	2.13E-02	3.41E-03	1.53E-01	6.84E-02	3.40E-01	1.73E-01	3.80E-03
4789	363750	3804500	1.27E-01	8.43E-03	2.27E-02	3.35E-03	2.27E-02	3.35E-03	1.52E-01	7.28E-02	3.38E-01	1.79E-01	3.78E-03
4790	356250	3804750	1.47E-01	2.93E-02	4.82E-02	1.17E-02	4.82E-02	1.17E-02	1.79E-01	1.56E-01	3.91E-01	2.32E-01	4.37E-03
4791	356500	3804750	1.54E-01	2.96E-02	4.86E-02	1.18E-02	4.86E-02	1.18E-02	1.89E-01	1.58E-01	4.11E-01	2.50E-01	4.59E-03
4792	356750	3804750	1.60E-01	2.99E-02	4.71E-02	1.19E-02	4.71E-02	1.19E-02	1.97E-01	1.54E-01	4.28E-01	2.63E-01	4.78E-03
4793	357000	3804750	1.65E-01	2.99E-02	4.67E-02	1.20E-02	4.67E-02	1.20E-02	2.03E-01	1.50E-01	4.41E-01	2.66E-01	4.92E-03
4794	357250	3804750	1.58E-01	2.98E-02	4.79E-02	1.19E-02	4.79E-02	1.19E-02	1.94E-01	1.55E-01	4.21E-01	2.53E-01	4.70E-03
4795	357500	3804750	1.58E-01	2.95E-02	4.78E-02	1.18E-02	4.78E-02	1.18E-02	1.94E-01	1.52E-01	4.22E-01	2.64E-01	4.71E-03
4796	357750	3804750	1.57E-01	2.91E-02	4.92E-02	1.16E-02	4.92E-02	1.16E-02	1.93E-01	1.57E-01	4.19E-01	2.56E-01	4.68E-03
4797	358000	3804750	1.59E-01	2.85E-02	4.92E-02	1.14E-02	4.92E-02	1.14E-02	1.93E-01	1.58E-01	4.23E-01	2.56E-01	4.73E-03
4798	358250	3804750	1.67E-01	2.77E-02	4.78E-02	1.11E-02	4.78E-02	1.11E-02	2.06E-01	1.54E-01	4.46E-01	2.38E-01	4.98E-03
4799	358500	3804750	1.79E-01	2.68E-02	4.95E-02	1.08E-02	4.95E-02	1.08E-02	2.21E-01	1.58E-01	4.77E-01	2.23E-01	5.33E-03
4800	358750	3804750	1.78E-01	2.58E-02	5.47E-02	1.03E-02	5.47E-02	1.03E-02	2.19E-01	1.77E-01	4.74E-01	2.36E-01	5.29E-03
4801	359000	3804750	1.67E-01	2.47E-02	5.56E-02	9.88E-03	5.56E-02	9.88E-03	2.06E-01	1.81E-01	4.46E-01	2.45E-01	4.99E-03
4802	359250	3804750	1.61E-01	2.35E-02	5.16E-02	9.39E-03	5.16E-02	9.39E-03	1.97E-01	1.68E-01	4.29E-01	2.48E-01	4.79E-03
4803	359500	3804750	1.65E-01	2.21E-02	4.94E-02	8.85E-03	4.94E-02	8.85E-03	2.02E-01	1.61E-01	4.41E-01	2.71E-01	4.93E-03
4804	359750	3804750	1.64E-01	2.05E-02	4.83E-02	8.21E-03	4.83E-02	8.21E-03	1.99E-01	1.58E-01	4.36E-01	2.53E-01	4.88E-03
4805	360000	3804750	1.67E-01	1.88E-02	4.31E-02	7.48E-03	4.31E-02	7.48E-03	1.86E-01	1.40E-01	4.46E-01	2.80E-01	4.99E-03
4806	360250	3804750	1.63E-01	1.69E-02	4.26E-02	6.73E-03	4.26E-02	6.73E-03	1.88E-01	1.39E-01	4.35E-01	2.82E-01	4.86E-03
4807	360500	3804750	1.53E-01	1.52E-02	3.80E-02	6.02E-03	3.80E-02	6.02E-03	1.88E-01	1.23E-01	4.08E-01	2.39E-01	4.56E-03
4808	360750	3804750	1.44E-01	1.38E-02	3.06E-02	5.42E-03	3.06E-02	5.42E-03	1.77E-01	9.87E-02	3.83E-01	1.89E-01	4.28E-03
4809	361000	3804750	1.42E-01	1.25E-02	2.52E-02	4.93E-03	2.52E-02	4.93E-03	1.75E-01	8.25E-02	3.79E-01	1.64E-01	4.24E-03
4810	361250	3804750	1.32E-01	1.15E-02	2.14E-02	4.55E-03	2.14E-02	4.55E-03	1.62E-01	6.99E-02	3.53E-01	1.68E-01	3.94E-03
4811	361500	3804750	1.32E-01	1.08E-02	1.94E-02	4.26E-03	1.94E-02	4.26E-03	1.62E-01	6.31E-02	3.51E-01	1.81E-01	3.93E-03
4812	361750	3804750	1.29E-01	1.02E-02	1.99E-02	4.04E-03	1.99E-02	4.04E-03	1.58E-01	6.49E-02	3.45E-01	1.72E-01	3.86E-03
4813	362000	3804750	1.30E-01	9.76E-03	2.01E-02	3.86E-03	2.01E-02	3.86E-03	1.58E-01	6.57E-02	3.46E-01	1.55E-01	3.86E-03
4814	362250	3804750	1.29E-01	9.40E-03	2.12E-02	3.72E-03	2.12E-02	3.72E-03	1.57E-01	6.87E-02	3.44E-01	1.67E-01	3.84E-03
4815	362500	3804750	1.28E-01	9.11E-03	2.20E-02	3.61E-03	2.20E-02	3.61E-03	1.54E-01	7.14E-02	3.42E-01	1.83E-01	3.82E-03
4816	362750	3804750	1.29E-01	8.87E-03	2.18E-02	3.52E-03	2.18E-02	3.52E-03	1.55E-01	7.03E-02	3.44E-01	1.85E-01	3.85E-03
4817	363000	3804750	1.28E-01	8.66E-03	2.05E-02	3.44E-03	2.05E-02	3.44E-03	1.54E-01	6.60E-02	3.42E-01	1.75E-01	3.83E-03
4818	363250	3804750	1.28E-01	8.48E-03	1.90E-02	3.37E-03	1.90E-02	3.37E-03	1.54E-01	6.25E-02	3.42E-01	1.58E-01	3.82E-03

AERMOD Maximum Modeled Proposed Project Concentration Increments by Receptor (ug/m3)

Receptor No.	UTM X (m)	UTM Y (m)	NO2 1-Hour	NO2 Annual	PM10 24-Hour	PM10 Annual	PM2.5 24-Hour	PM2.5 Annual	SO2 1-Hour	SO2 24-Hour	CO 1-Hour	CO 8-Hour	H2S 1-Hour
4819	356500	3805000	1.51E-01	2.88E-02	4.68E-02	1.15E-02	4.68E-02	1.15E-02	1.86E-01	1.52E-01	4.03E-01	2.56E-01	4.51E-03
4820	356750	3805000	1.59E-01	2.89E-02	4.49E-02	1.15E-02	4.49E-02	1.15E-02	1.95E-01	1.44E-01	4.23E-01	2.63E-01	4.73E-03
4821	357000	3805000	1.54E-01	2.88E-02	4.66E-02	1.15E-02	4.66E-02	1.15E-02	1.89E-01	1.50E-01	4.11E-01	2.53E-01	4.59E-03
4822	357250	3805000	1.56E-01	2.86E-02	4.61E-02	1.14E-02	4.61E-02	1.14E-02	1.91E-01	1.49E-01	4.15E-01	2.58E-01	4.64E-03
4823	357500	3805000	1.50E-01	2.82E-02	4.78E-02	1.13E-02	4.78E-02	1.13E-02	1.84E-01	1.52E-01	4.01E-01	2.60E-01	4.48E-03
4824	357750	3805000	1.55E-01	2.77E-02	4.83E-02	1.11E-02	4.83E-02	1.11E-02	1.90E-01	1.54E-01	4.14E-01	2.57E-01	4.62E-03
4825	358000	3805000	1.60E-01	2.71E-02	4.75E-02	1.09E-02	4.75E-02	1.09E-02	1.97E-01	1.52E-01	4.28E-01	2.44E-01	4.78E-03
4826	358250	3805000	1.69E-01	2.64E-02	4.56E-02	1.06E-02	4.56E-02	1.06E-02	2.08E-01	1.47E-01	4.50E-01	2.34E-01	5.02E-03
4827	358500	3805000	1.73E-01	2.55E-02	5.10E-02	1.02E-02	5.10E-02	1.02E-02	2.14E-01	1.63E-01	4.62E-01	2.19E-01	5.16E-03
4828	358750	3805000	1.65E-01	2.45E-02	5.47E-02	9.82E-03	5.47E-02	9.82E-03	2.04E-01	1.76E-01	4.41E-01	2.37E-01	4.93E-03
4829	359000	3805000	1.62E-01	2.35E-02	5.41E-02	9.40E-03	5.41E-02	9.40E-03	2.00E-01	1.76E-01	4.33E-01	2.47E-01	4.84E-03
4830	359250	3805000	1.59E-01	2.24E-02	4.94E-02	8.95E-03	4.94E-02	8.95E-03	1.94E-01	1.61E-01	4.25E-01	2.50E-01	4.75E-03
4831	359500	3805000	1.63E-01	2.11E-02	4.85E-02	8.44E-03	4.85E-02	8.44E-03	1.99E-01	1.58E-01	4.34E-01	2.67E-01	4.85E-03
4832	359750	3805000	1.60E-01	1.97E-02	4.70E-02	7.85E-03	4.70E-02	7.85E-03	1.96E-01	1.53E-01	4.26E-01	2.45E-01	4.76E-03
4833	360000	3805000	1.60E-01	1.80E-02	4.23E-02	7.18E-03	4.23E-02	7.18E-03	1.84E-01	1.36E-01	4.27E-01	2.81E-01	4.77E-03
4834	360250	3805000	1.56E-01	1.63E-02	4.22E-02	6.48E-03	4.22E-02	6.48E-03	1.79E-01	1.37E-01	4.16E-01	2.82E-01	4.65E-03
4835	360500	3805000	1.45E-01	1.48E-02	3.80E-02	5.83E-03	3.80E-02	5.83E-03	1.73E-01	1.23E-01	3.88E-01	2.42E-01	4.33E-03
4836	360750	3805000	1.34E-01	1.34E-02	3.11E-02	5.27E-03	3.11E-02	5.27E-03	1.64E-01	9.99E-02	3.56E-01	1.85E-01	3.98E-03
4837	361000	3805000	1.32E-01	1.22E-02	2.45E-02	4.82E-03	2.45E-02	4.82E-03	1.62E-01	8.00E-02	3.52E-01	1.62E-01	3.93E-03
4838	361250	3805000	1.29E-01	1.13E-02	2.12E-02	4.44E-03	2.12E-02	4.44E-03	1.58E-01	6.90E-02	3.45E-01	1.60E-01	3.85E-03
4839	361500	3805000	1.28E-01	1.05E-02	1.88E-02	4.16E-03	1.88E-02	4.16E-03	1.57E-01	6.09E-02	3.43E-01	1.77E-01	3.83E-03
4840	361750	3805000	1.28E-01	9.96E-03	1.92E-02	3.93E-03	1.92E-02	3.93E-03	1.55E-01	6.25E-02	3.42E-01	1.74E-01	3.82E-03
4841	362000	3805000	1.28E-01	9.51E-03	1.93E-02	3.76E-03	1.93E-02	3.76E-03	1.54E-01	6.29E-02	3.42E-01	1.58E-01	3.82E-03
4842	362250	3805000	1.26E-01	9.15E-03	1.99E-02	3.62E-03	1.99E-02	3.62E-03	1.53E-01	6.43E-02	3.37E-01	1.54E-01	3.77E-03
4843	362500	3805000	1.26E-01	8.87E-03	2.12E-02	3.51E-03	2.12E-02	3.51E-03	1.51E-01	6.84E-02	3.37E-01	1.73E-01	3.77E-03
4844	362750	3805000	1.26E-01	8.63E-03	2.15E-02	3.42E-03	2.15E-02	3.42E-03	1.50E-01	6.93E-02	3.35E-01	1.82E-01	3.74E-03
4845	357000	3805250	1.51E-01	2.77E-02	4.54E-02	1.11E-02	4.54E-02	1.11E-02	1.85E-01	1.46E-01	4.02E-01	2.48E-01	4.49E-03
4846	357250	3805250	1.48E-01	2.74E-02	4.62E-02	1.10E-02	4.62E-02	1.10E-02	1.81E-01	1.46E-01	3.93E-01	2.59E-01	4.40E-03
4847	357500	3805250	1.50E-01	2.70E-02	4.71E-02	1.08E-02	4.71E-02	1.08E-02	1.84E-01	1.50E-01	4.00E-01	2.52E-01	4.47E-03
4848	357750	3805250	1.52E-01	2.65E-02	4.69E-02	1.06E-02	4.69E-02	1.06E-02	1.86E-01	1.50E-01	4.04E-01	2.50E-01	4.52E-03
4849	358000	3805250	1.58E-01	2.59E-02	4.55E-02	1.04E-02	4.55E-02	1.04E-02	1.94E-01	1.46E-01	4.20E-01	2.35E-01	4.70E-03
4850	358250	3805250	1.65E-01	2.51E-02	4.63E-02	1.01E-02	4.63E-02	1.01E-02	2.03E-01	1.47E-01	4.41E-01	2.25E-01	4.93E-03
4851	358500	3805250	1.66E-01	2.43E-02	5.18E-02	9.72E-03	5.18E-02	9.72E-03	2.05E-01	1.66E-01	4.43E-01	2.26E-01	4.96E-03
4852	358750	3805250	1.62E-01	2.34E-02	5.41E-02	9.35E-03	5.41E-02	9.35E-03	2.00E-01	1.74E-01	4.33E-01	2.34E-01	4.84E-03
4853	359000	3805250	1.55E-01	2.24E-02	5.24E-02	8.96E-03	5.24E-02	8.96E-03	1.91E-01	1.70E-01	4.14E-01	2.46E-01	4.63E-03
4854	359250	3805250	1.57E-01	2.14E-02	4.72E-02	8.54E-03	4.72E-02	8.54E-03	1.90E-01	1.53E-01	4.17E-01	2.52E-01	4.66E-03
4855	359500	3805250	1.59E-01	2.02E-02	4.75E-02	8.07E-03	4.75E-02	8.07E-03	1.94E-01	1.54E-01	4.25E-01	2.62E-01	4.75E-03
4856	359750	3805250	1.57E-01	1.88E-02	4.56E-02	7.52E-03	4.56E-02	7.52E-03	1.93E-01	1.48E-01	4.18E-01	2.40E-01	4.67E-03
4857	360000	3805250	1.53E-01	1.73E-02	4.18E-02	6.89E-03	4.18E-02	6.89E-03	1.82E-01	1.35E-01	4.08E-01	2.81E-01	4.56E-03
4858	360250	3805250	1.49E-01	1.58E-02	4.17E-02	6.25E-03	4.17E-02	6.25E-03	1.73E-01	1.35E-01	3.98E-01	2.81E-01	4.45E-03
4859	360500	3805250	1.40E-01	1.43E-02	3.78E-02	5.65E-03	3.78E-02	5.65E-03	1.60E-01	1.22E-01	3.72E-01	2.43E-01	4.16E-03
4860	360750	3805250	1.28E-01	1.30E-02	3.13E-02	5.13E-03	3.13E-02	5.13E-03	1.54E-01	1.01E-01	3.42E-01	1.85E-01	3.83E-03
4861	361000	3805250	1.28E-01	1.19E-02	2.42E-02	4.70E-03	2.42E-02	4.70E-03	1.54E-01	7.74E-02	3.41E-01	1.59E-01	3.81E-03
4862	361250	3805250	1.27E-01	1.10E-02	2.08E-02	4.35E-03	2.08E-02	4.35E-03	1.54E-01	6.78E-02	3.38E-01	1.51E-01	3.78E-03
4863	361500	3805250	1.27E-01	1.03E-02	1.81E-02	4.06E-03	1.81E-02	4.06E-03	1.53E-01	5.84E-02	3.39E-01	1.71E-01	3.79E-03
4864	361750	3805250	1.28E-01	9.71E-03	1.89E-02	3.84E-03	1.89E-02	3.84E-03	1.54E-01	6.12E-02	3.41E-01	1.74E-01	3.81E-03
4865	362000	3805250	1.26E-01	9.27E-03	1.84E-02	3.67E-03	1.84E-02	3.67E-03	1.50E-01	5.99E-02	3.35E-01	1.59E-01	3.74E-03
4866	362250	3805250	1.26E-01	8.92E-03	1.86E-02	3.53E-03	1.86E-02	3.53E-03	1.50E-01	6.04E-02	3.35E-01	1.46E-01	3.74E-03
4867	362500	3805250	1.25E-01	8.63E-03	2.01E-02	3.42E-03	2.01E-02	3.42E-03	1.50E-01	6.47E-02	3.34E-01	1.61E-01	3.73E-03
4868	357750	3805500	1.54E-01	2.53E-02	4.52E-02	1.01E-02	4.52E-02	1.01E-02	1.89E-01	1.44E-01	4.11E-01	2.39E-01	4.59E-03
4869	358000	3805500	1.56E-01	2.47E-02	4.36E-02	9.88E-03	4.36E-02	9.88E-03	1.92E-01	1.41E-01	4.17E-01	2.31E-01	4.65E-03
4870	358250	3805500	1.59E-01	2.40E-02	4.78E-02	9.59E-03	4.78E-02	9.59E-03	1.95E-01	1.52E-01	4.23E-01	2.14E-01	4.73E-03
4871	358500	3805500	1.57E-01	2.32E-02	5.21E-02	9.27E-03	5.21E-02	9.27E-03	1.94E-01	1.67E-01	4.20E-01	2.30E-01	4.69E-03
4872	358750	3805500	1.61E-01	2.23E-02	5.31E-02	8.92E-03	5.31E-02	8.92E-03	1.97E-01	1.71E-01	4.28E-01	2.29E-01	4.78E-03
4873	359000	3805500	1.53E-01	2.14E-02	5.06E-02	8.56E-03	5.06E-02	8.56E-03	1.87E-01	1.63E-01	4.07E-01	2.43E-01	4.55E-03
4874	359250	3805500	1.53E-01	2.05E-02	4.56E-02	8.17E-03	4.56E-02	8.17E-03	1.85E-01	1.47E-01	4.07E-01	2.52E-01	4.55E-03
4875	359500	3805500	1.55E-01	1.94E-02	4.65E-02	7.73E-03	4.65E-02	7.73E-03	1.89E-01	1.50E-01	4.14E-01	2.56E-01	4.63E-03
4876	359750	3805500	1.53E-01	1.81E-02	4.43E-02	7.21E-03	4.43E-02	7.21E-03	1.88E-01	1.43E-01	4.08E-01	2.43E-01	4.56E-03
4877	360000	3805500	1.47E-01	1.67E-02	4.13E-02	6.63E-03	4.13E-02	6.63E-03	1.79E-01	1.33E-01	3.91E-01	2.80E-01	4.37E-03
4878	360250	3805500	1.44E-01	1.52E-02	4.12E-02	6.03E-03	4.12E-02	6.03E-03	1.69E-01	1.33E-01	3.84E-01	2.80E-01	4.29E-03
4879	360500	3805500	1.34E-01	1.39E-02	3.76E-02	5.48E-03	3.76E-02	5.48E-03	1.51E-01	1.21E-01	3.58E-01	2.44E-01	4.00E-03
4880	360750	3805500	1.27E-01	1.27E-02	3.15E-02	4.99E-03	3.15E-02	4.99E-03	1.52E-01	1.01E-01	3.38E-01	1.89E-01	3.78E-03
4881	361000	3805500	1.26E-01	1.16E-02	2.47E-02	4.59E-03	2.47E-02	4.59E-03	1.51E-01	7.85E-02	3.35E-01	1.56E-01	3.75E-03
4882	361250	3805500	1.26E-01	1.08E-02	2.04E-02	4.25E-03	2.04E-02	4.25E-03	1.50E-01	6.64E-02	3.35E-01	1.42E-01	3.74E-03
4883	361500	3805500	1.25E-01	1.01E-02	1.76E-02	3.97E-03	1.76E-02	3.97E-03	1.50E-01	5.71E-02	3.33E-01	1.65E-01	3.72E-03
4884	361750	3805500	1.27E-01	9.50E-03	1.84E-02	3.74E-03	1.84E-02	3.74E-03	1.51E-01	5.95E-02	3.37E-01	1.72E-01	3.77E-03

Attachment 2

Health Risk Increments Predicted by HARP2 at All Modeled Receptors

Highlighted cells represent the maximum HARP2 Modeled output

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1	358957	3800698	8.61E-08	9.98E-08	5.55E-09	1.93E-03	3.84E-03	SCL Property Line
2	359006	3800698	8.00E-08	9.27E-08	5.16E-09	1.80E-03	4.02E-03	SCL Property Line
3	359054	3800698	7.37E-08	8.54E-08	4.75E-09	1.66E-03	4.22E-03	SCL Property Line
4	359103	3800697	7.62E-08	8.83E-08	4.91E-09	1.71E-03	4.39E-03	SCL Property Line
5	359152	3800697	8.70E-08	1.01E-07	5.60E-09	1.95E-03	4.56E-03	SCL Property Line
6	359200	3800696	1.03E-07	1.19E-07	6.62E-09	2.31E-03	4.71E-03	SCL Property Line
7	359249	3800696	1.23E-07	1.43E-07	7.95E-09	2.77E-03	4.83E-03	SCL Property Line
8	359298	3800696	1.39E-07	1.61E-07	8.96E-09	3.13E-03	4.92E-03	SCL Property Line
9	359346	3800695	1.41E-07	1.64E-07	9.09E-09	3.17E-03	4.95E-03	SCL Property Line
10	359395	3800695	1.31E-07	1.52E-07	8.45E-09	2.95E-03	4.98E-03	SCL Property Line
11	359443	3800695	1.32E-07	1.53E-07	8.48E-09	2.96E-03	5.53E-03	SCL Property Line
12	359492	3800694	1.40E-07	1.62E-07	9.02E-09	3.14E-03	6.18E-03	SCL Property Line
13	359541	3800694	1.71E-07	1.98E-07	1.10E-08	3.85E-03	6.82E-03	SCL Property Line
14	359589	3800693	2.22E-07	2.57E-07	1.43E-08	4.99E-03	8.23E-03	SCL Property Line
15	359638	3800693	3.16E-07	3.66E-07	2.04E-08	7.10E-03	9.85E-03	SCL Property Line
16	359687	3800693	3.55E-07	4.11E-07	2.29E-08	7.97E-03	1.14E-02	SCL Property Line
17	359735	3800692	4.11E-07	4.76E-07	2.65E-08	9.23E-03	1.29E-02	SCL Property Line
18	359784	3800692	4.78E-07	5.54E-07	3.08E-08	1.07E-02	1.40E-02	SCL Property Line
19	359833	3800692	4.88E-07	5.66E-07	3.14E-08	1.10E-02	1.26E-02	SCL Property Line
20	359881	3800691	5.06E-07	5.86E-07	3.26E-08	1.14E-02	1.18E-02	SCL Property Line
21	359930	3800691	5.62E-07	6.51E-07	3.62E-08	1.26E-02	1.36E-02	SCL Property Line
22	359979	3800690	4.54E-07	5.26E-07	2.92E-08	1.02E-02	1.18E-02	SCL Property Line
23	360027	3800690	4.06E-07	4.71E-07	2.62E-08	9.12E-03	9.37E-03	SCL Property Line
24	360076	3800690	3.86E-07	4.47E-07	2.49E-08	8.68E-03	9.39E-03	SCL Property Line
25	360124	3800689	4.33E-07	5.01E-07	2.79E-08	9.72E-03	1.33E-02	SCL Property Line
26	360173	3800689	4.37E-07	5.06E-07	2.81E-08	9.82E-03	1.64E-02	SCL Property Line
27	360222	3800688	2.54E-07	2.94E-07	1.63E-08	5.70E-03	1.26E-02	SCL Property Line
28	360270	3800688	1.56E-07	1.81E-07	1.00E-08	3.50E-03	8.90E-03	SCL Property Line
29	360319	3800688	1.19E-07	1.38E-07	7.67E-09	2.68E-03	7.96E-03	SCL Property Line
30	360368	3800687	9.80E-08	1.14E-07	6.31E-09	2.20E-03	7.49E-03	SCL Property Line
31	360416	3800687	8.47E-08	9.81E-08	5.45E-09	1.90E-03	6.73E-03	SCL Property Line
32	360465	3800687	7.58E-08	8.79E-08	4.89E-09	1.70E-03	5.65E-03	SCL Property Line
33	360471	3800655	7.70E-08	8.92E-08	4.96E-09	1.73E-03	5.86E-03	SCL Property Line
34	360477	3800624	7.85E-08	9.10E-08	5.06E-09	1.76E-03	7.26E-03	SCL Property Line
35	360514	3800632	7.36E-08	8.52E-08	4.74E-09	1.65E-03	7.32E-03	SCL Property Line
36	360551	3800640	6.93E-08	8.03E-08	4.46E-09	1.56E-03	7.02E-03	SCL Property Line
37	360559	3800606	7.15E-08	8.29E-08	4.61E-09	1.61E-03	7.16E-03	SCL Property Line
38	360568	3800572	7.40E-08	8.58E-08	4.77E-09	1.66E-03	6.79E-03	SCL Property Line
39	360609	3800576	7.01E-08	8.13E-08	4.52E-09	1.58E-03	6.19E-03	SCL Property Line
40	360650	3800580	6.64E-08	7.70E-08	4.28E-09	1.49E-03	5.73E-03	SCL Property Line
41	360651	3800545	6.93E-08	8.03E-08	4.46E-09	1.56E-03	5.99E-03	SCL Property Line
42	360666	3800509	7.10E-08	8.23E-08	4.57E-09	1.60E-03	5.81E-03	SCL Property Line
43	360700	3800492	6.90E-08	8.00E-08	4.45E-09	1.55E-03	5.60E-03	SCL Property Line
44	360734	3800474	6.69E-08	7.76E-08	4.31E-09	1.50E-03	5.16E-03	SCL Property Line
45	360769	3800457	6.47E-08	7.50E-08	4.17E-09	1.45E-03	4.95E-03	SCL Property Line
46	360782	3800429	6.47E-08	7.50E-08	4.17E-09	1.45E-03	4.94E-03	SCL Property Line
47	360794	3800400	6.45E-08	7.47E-08	4.15E-09	1.45E-03	4.97E-03	SCL Property Line
48	360831	3800396	6.13E-08	7.11E-08	3.95E-09	1.38E-03	4.71E-03	SCL Property Line
49	360868	3800393	5.85E-08	6.77E-08	3.77E-09	1.31E-03	4.46E-03	SCL Property Line
50	360893	3800355	5.73E-08	6.64E-08	3.69E-09	1.29E-03	4.33E-03	SCL Property Line
51	360917	3800317	5.59E-08	6.48E-08	3.60E-09	1.26E-03	4.29E-03	SCL Property Line
52	360940	3800299	5.45E-08	6.31E-08	3.51E-09	1.22E-03	4.18E-03	SCL Property Line
53	360964	3800281	5.31E-08	6.15E-08	3.42E-09	1.19E-03	4.01E-03	SCL Property Line
54	360964	3800235	5.32E-08	6.16E-08	3.43E-09	1.20E-03	3.87E-03	SCL Property Line

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
55	360947	3800195	5.41E-08	6.27E-08	3.49E-09	1.22E-03	4.03E-03	SCL Property Line
56	360931	3800155	5.61E-08	6.50E-08	3.62E-09	1.26E-03	3.95E-03	SCL Property Line
57	360950	3800135	5.47E-08	6.34E-08	3.52E-09	1.23E-03	3.80E-03	SCL Property Line
58	360970	3800116	5.26E-08	6.10E-08	3.39E-09	1.18E-03	3.68E-03	SCL Property Line
59	360981	3800085	5.11E-08	5.92E-08	3.29E-09	1.15E-03	3.63E-03	SCL Property Line
60	361019	3800074	4.91E-08	5.69E-08	3.16E-09	1.10E-03	3.42E-03	SCL Property Line
61	361057	3800063	4.73E-08	5.48E-08	3.05E-09	1.06E-03	3.23E-03	SCL Property Line
62	361088	3800043	4.58E-08	5.31E-08	2.95E-09	1.03E-03	3.10E-03	SCL Property Line
63	361118	3800023	4.44E-08	5.15E-08	2.86E-09	9.98E-04	2.99E-03	SCL Property Line
64	361149	3800003	4.32E-08	5.00E-08	2.78E-09	9.70E-04	2.90E-03	SCL Property Line
65	361155	3799965	4.25E-08	4.93E-08	2.74E-09	9.55E-04	2.91E-03	SCL Property Line
66	361161	3799927	4.18E-08	4.85E-08	2.69E-09	9.40E-04	2.79E-03	SCL Property Line
67	361166	3799889	4.11E-08	4.76E-08	2.65E-09	9.23E-04	2.66E-03	SCL Property Line
68	361172	3799851	4.03E-08	4.67E-08	2.60E-09	9.06E-04	2.61E-03	SCL Property Line
69	361147	3799857	4.10E-08	4.75E-08	2.64E-09	9.21E-04	2.69E-03	SCL Property Line
70	361115	3799844	4.15E-08	4.81E-08	2.67E-09	9.32E-04	2.73E-03	SCL Property Line
71	361083	3799832	4.20E-08	4.86E-08	2.70E-09	9.43E-04	2.79E-03	SCL Property Line
72	361051	3799820	4.24E-08	4.92E-08	2.73E-09	9.53E-04	2.86E-03	SCL Property Line
73	361048	3799804	4.22E-08	4.89E-08	2.72E-09	9.47E-04	2.81E-03	SCL Property Line
74	361073	3799781	4.10E-08	4.76E-08	2.64E-09	9.22E-04	2.68E-03	SCL Property Line
75	361098	3799759	4.00E-08	4.64E-08	2.58E-09	8.99E-04	2.56E-03	SCL Property Line
76	361137	3799738	3.89E-08	4.51E-08	2.51E-09	8.75E-04	2.53E-03	SCL Property Line
77	361164	3799710	3.81E-08	4.42E-08	2.46E-09	8.56E-04	2.49E-03	SCL Property Line
78	361190	3799682	3.74E-08	4.34E-08	2.41E-09	8.41E-04	2.45E-03	SCL Property Line
79	361217	3799654	3.69E-08	4.27E-08	2.37E-09	8.28E-04	2.40E-03	SCL Property Line
80	361223	3799617	3.64E-08	4.22E-08	2.35E-09	8.18E-04	2.28E-03	SCL Property Line
81	361254	3799625	3.62E-08	4.20E-08	2.34E-09	8.15E-04	2.35E-03	SCL Property Line
82	361270	3799609	3.60E-08	4.17E-08	2.32E-09	8.09E-04	2.32E-03	SCL Property Line
83	361258	3799574	3.58E-08	4.15E-08	2.30E-09	8.04E-04	2.19E-03	SCL Property Line
84	361272	3799543	3.55E-08	4.11E-08	2.28E-09	7.97E-04	2.10E-03	SCL Property Line
85	361287	3799512	3.52E-08	4.08E-08	2.27E-09	7.91E-04	2.08E-03	SCL Property Line
86	361301	3799481	3.49E-08	4.05E-08	2.25E-09	7.85E-04	2.05E-03	SCL Property Line
87	361330	3799448	3.47E-08	4.02E-08	2.23E-09	7.79E-04	2.01E-03	SCL Property Line
88	361359	3799414	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.97E-03	SCL Property Line
89	361367	3799381	3.43E-08	3.98E-08	2.21E-09	7.71E-04	2.01E-03	SCL Property Line
90	361375	3799348	3.43E-08	3.97E-08	2.21E-09	7.70E-04	2.06E-03	SCL Property Line
91	361391	3799301	3.42E-08	3.96E-08	2.20E-09	7.68E-04	2.10E-03	SCL Property Line
92	361406	3799255	3.42E-08	3.96E-08	2.20E-09	7.68E-04	2.12E-03	SCL Property Line
93	361442	3799241	3.41E-08	3.95E-08	2.19E-09	7.65E-04	2.00E-03	SCL Property Line
94	361478	3799227	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.89E-03	SCL Property Line
95	361513	3799214	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.79E-03	SCL Property Line
96	361558	3799210	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.72E-03	SCL Property Line
97	361603	3799207	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.74E-03	SCL Property Line
98	361648	3799204	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.76E-03	SCL Property Line
99	361656	3799168	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.71E-03	SCL Property Line
100	361665	3799132	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.66E-03	SCL Property Line
101	361685	3799101	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.62E-03	SCL Property Line
102	361701	3799080	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.60E-03	SCL Property Line
103	361718	3799060	3.40E-08	3.93E-08	2.19E-09	7.63E-04	1.58E-03	SCL Property Line
104	361751	3799036	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.56E-03	SCL Property Line
105	361784	3799012	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.55E-03	SCL Property Line
106	361817	3798988	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.53E-03	SCL Property Line
107	361817	3798940	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.45E-03	SCL Property Line
108	361817	3798893	3.41E-08	3.95E-08	2.19E-09	7.66E-04	1.44E-03	SCL Property Line

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
109	361816	3798846	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.49E-03	SCL Property Line
110	361816	3798799	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.53E-03	SCL Property Line
111	361816	3798751	3.42E-08	3.97E-08	2.21E-09	7.69E-04	1.56E-03	SCL Property Line
112	361816	3798704	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.58E-03	SCL Property Line
113	361815	3798657	3.43E-08	3.97E-08	2.21E-09	7.71E-04	1.59E-03	SCL Property Line
114	361815	3798610	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.60E-03	SCL Property Line
115	361815	3798563	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.59E-03	SCL Property Line
116	361815	3798515	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.58E-03	SCL Property Line
117	361814	3798468	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.55E-03	SCL Property Line
118	361814	3798421	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.53E-03	SCL Property Line
119	361814	3798374	3.42E-08	3.96E-08	2.20E-09	7.69E-04	1.50E-03	SCL Property Line
120	361814	3798326	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.47E-03	SCL Property Line
121	361813	3798279	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.44E-03	SCL Property Line
122	361813	3798232	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.42E-03	SCL Property Line
123	361764	3798232	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.45E-03	SCL Property Line
124	361715	3798232	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.48E-03	SCL Property Line
125	361666	3798231	3.51E-08	4.07E-08	2.26E-09	7.88E-04	1.51E-03	SCL Property Line
126	361617	3798231	3.56E-08	4.12E-08	2.29E-09	7.99E-04	1.53E-03	SCL Property Line
127	361568	3798231	3.61E-08	4.18E-08	2.33E-09	8.11E-04	1.64E-03	SCL Property Line
128	361519	3798231	3.67E-08	4.25E-08	2.36E-09	8.25E-04	1.81E-03	SCL Property Line
129	361470	3798231	3.74E-08	4.33E-08	2.41E-09	8.40E-04	1.99E-03	SCL Property Line
130	361421	3798231	3.82E-08	4.43E-08	2.46E-09	8.58E-04	2.14E-03	SCL Property Line
131	361372	3798231	3.91E-08	4.53E-08	2.52E-09	8.79E-04	2.28E-03	SCL Property Line
132	361323	3798231	4.02E-08	4.66E-08	2.59E-09	9.04E-04	2.38E-03	SCL Property Line
133	361273	3798230	4.17E-08	4.84E-08	2.69E-09	9.38E-04	2.45E-03	SCL Property Line
134	361224	3798230	4.38E-08	5.08E-08	2.82E-09	9.84E-04	2.49E-03	SCL Property Line
135	361175	3798230	4.68E-08	5.42E-08	3.01E-09	1.05E-03	2.54E-03	SCL Property Line
136	361126	3798230	5.11E-08	5.92E-08	3.29E-09	1.15E-03	2.56E-03	SCL Property Line
137	361077	3798230	5.64E-08	6.54E-08	3.63E-09	1.27E-03	2.56E-03	SCL Property Line
138	361028	3798230	6.15E-08	7.13E-08	3.96E-09	1.38E-03	2.59E-03	SCL Property Line
139	361008	3798270	6.41E-08	7.43E-08	4.13E-09	1.44E-03	2.66E-03	SCL Property Line
140	360987	3798311	6.65E-08	7.71E-08	4.29E-09	1.50E-03	2.72E-03	SCL Property Line
141	360967	3798351	6.84E-08	7.93E-08	4.41E-09	1.54E-03	2.79E-03	SCL Property Line
142	360947	3798392	6.91E-08	8.01E-08	4.45E-09	1.55E-03	2.86E-03	SCL Property Line
143	360926	3798432	6.76E-08	7.83E-08	4.35E-09	1.52E-03	2.93E-03	SCL Property Line
144	360906	3798473	6.57E-08	7.61E-08	4.23E-09	1.48E-03	3.01E-03	SCL Property Line
145	360886	3798513	7.65E-08	8.86E-08	4.93E-09	1.72E-03	3.11E-03	SCL Property Line
146	360865	3798554	7.88E-08	9.14E-08	5.08E-09	1.77E-03	3.20E-03	SCL Property Line
147	360845	3798594	7.44E-08	8.62E-08	4.79E-09	1.67E-03	3.29E-03	SCL Property Line
148	360808	3798599	6.52E-08	7.56E-08	4.20E-09	1.47E-03	3.36E-03	SCL Property Line
149	360771	3798603	6.33E-08	7.33E-08	4.08E-09	1.42E-03	3.44E-03	SCL Property Line
150	360735	3798608	6.50E-08	7.53E-08	4.18E-09	1.46E-03	3.51E-03	SCL Property Line
151	360694	3798601	6.49E-08	7.52E-08	4.18E-09	1.46E-03	3.55E-03	SCL Property Line
152	360654	3798595	6.51E-08	7.54E-08	4.19E-09	1.46E-03	3.57E-03	SCL Property Line
153	360614	3798588	6.59E-08	7.64E-08	4.25E-09	1.48E-03	3.58E-03	SCL Property Line
154	360574	3798582	6.89E-08	7.99E-08	4.44E-09	1.55E-03	3.52E-03	SCL Property Line
155	360566	3798631	7.08E-08	8.21E-08	4.56E-09	1.59E-03	3.67E-03	SCL Property Line
156	360559	3798680	7.66E-08	8.87E-08	4.93E-09	1.72E-03	3.79E-03	SCL Property Line
157	360514	3798702	7.95E-08	9.22E-08	5.12E-09	1.79E-03	3.88E-03	SCL Property Line
158	360470	3798723	7.80E-08	9.04E-08	5.03E-09	1.75E-03	4.06E-03	SCL Property Line
159	360425	3798745	7.89E-08	9.14E-08	5.08E-09	1.77E-03	4.17E-03	SCL Property Line
160	360380	3798767	7.92E-08	9.18E-08	5.10E-09	1.78E-03	4.21E-03	SCL Property Line
161	360336	3798788	8.03E-08	9.31E-08	5.18E-09	1.81E-03	4.26E-03	SCL Property Line
162	360291	3798810	8.04E-08	9.31E-08	5.18E-09	1.81E-03	4.37E-03	SCL Property Line

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
163	360247	3798832	8.66E-08	1.00E-07	5.58E-09	1.95E-03	4.40E-03	SCL Property Line
164	360200	3798833	8.98E-08	1.04E-07	5.78E-09	2.02E-03	4.41E-03	SCL Property Line
165	360154	3798834	7.96E-08	9.22E-08	5.13E-09	1.79E-03	4.55E-03	SCL Property Line
166	360108	3798836	7.26E-08	8.42E-08	4.68E-09	1.63E-03	4.58E-03	SCL Property Line
167	360061	3798837	6.93E-08	8.03E-08	4.46E-09	1.56E-03	4.55E-03	SCL Property Line
168	360022	3798857	6.83E-08	7.91E-08	4.40E-09	1.53E-03	4.56E-03	SCL Property Line
169	359984	3798878	6.36E-08	7.37E-08	4.10E-09	1.43E-03	4.39E-03	SCL Property Line
170	359945	3798898	5.98E-08	6.93E-08	3.85E-09	1.34E-03	4.15E-03	SCL Property Line
171	359907	3798919	5.69E-08	6.60E-08	3.67E-09	1.28E-03	4.15E-03	SCL Property Line
172	359868	3798939	5.43E-08	6.29E-08	3.50E-09	1.22E-03	4.26E-03	SCL Property Line
173	359829	3798960	5.63E-08	6.53E-08	3.63E-09	1.27E-03	4.45E-03	SCL Property Line
174	359865	3798990	5.67E-08	6.57E-08	3.65E-09	1.27E-03	4.40E-03	SCL Property Line
175	359900	3799021	5.74E-08	6.65E-08	3.70E-09	1.29E-03	4.57E-03	SCL Property Line
176	359936	3799052	5.66E-08	6.57E-08	3.65E-09	1.27E-03	4.51E-03	SCL Property Line
177	359971	3799083	5.99E-08	6.94E-08	3.86E-09	1.35E-03	4.96E-03	SCL Property Line
178	360007	3799114	6.37E-08	7.38E-08	4.10E-09	1.43E-03	5.42E-03	SCL Property Line
179	359959	3799114	5.98E-08	6.93E-08	3.85E-09	1.34E-03	4.87E-03	SCL Property Line
180	359912	3799114	5.67E-08	6.57E-08	3.65E-09	1.27E-03	4.75E-03	SCL Property Line
181	359865	3799115	5.42E-08	6.29E-08	3.49E-09	1.22E-03	5.13E-03	SCL Property Line
182	359818	3799115	5.30E-08	6.15E-08	3.42E-09	1.19E-03	5.18E-03	SCL Property Line
183	359771	3799115	5.23E-08	6.06E-08	3.37E-09	1.18E-03	4.69E-03	SCL Property Line
184	359724	3799115	5.20E-08	6.03E-08	3.35E-09	1.17E-03	4.27E-03	SCL Property Line
185	359677	3799116	5.25E-08	6.09E-08	3.38E-09	1.18E-03	3.99E-03	SCL Property Line
186	359630	3799116	5.37E-08	6.22E-08	3.46E-09	1.21E-03	3.75E-03	SCL Property Line
187	359583	3799116	4.64E-08	5.38E-08	2.99E-09	1.04E-03	3.99E-03	SCL Property Line
188	359536	3799117	3.96E-08	4.59E-08	2.55E-09	8.91E-04	4.39E-03	SCL Property Line
189	359489	3799117	3.74E-08	4.34E-08	2.41E-09	8.41E-04	4.60E-03	SCL Property Line
190	359442	3799117	3.88E-08	4.50E-08	2.50E-09	8.72E-04	4.63E-03	SCL Property Line
191	359395	3799118	3.86E-08	4.48E-08	2.49E-09	8.68E-04	4.48E-03	SCL Property Line
192	359394	3799166	4.61E-08	5.35E-08	2.97E-09	1.04E-03	4.49E-03	SCL Property Line
193	359393	3799215	7.22E-08	8.37E-08	4.65E-09	1.62E-03	4.62E-03	SCL Property Line
194	359392	3799264	8.38E-08	9.71E-08	5.40E-09	1.88E-03	4.82E-03	SCL Property Line
195	359391	3799312	8.88E-08	1.03E-07	5.72E-09	2.00E-03	4.92E-03	SCL Property Line
196	359390	3799361	8.71E-08	1.01E-07	5.61E-09	1.96E-03	4.87E-03	SCL Property Line
197	359389	3799410	8.15E-08	9.44E-08	5.25E-09	1.83E-03	4.66E-03	SCL Property Line
198	359388	3799458	7.51E-08	8.71E-08	4.84E-09	1.69E-03	4.29E-03	SCL Property Line
199	359387	3799507	6.91E-08	8.01E-08	4.45E-09	1.55E-03	3.76E-03	SCL Property Line
200	359342	3799508	7.20E-08	8.34E-08	4.64E-09	1.62E-03	3.19E-03	SCL Property Line
201	359297	3799509	7.71E-08	8.93E-08	4.97E-09	1.73E-03	3.48E-03	SCL Property Line
202	359253	3799510	8.29E-08	9.61E-08	5.34E-09	1.86E-03	3.66E-03	SCL Property Line
203	359208	3799511	8.36E-08	9.69E-08	5.39E-09	1.88E-03	3.77E-03	SCL Property Line
204	359181	3799531	8.31E-08	9.63E-08	5.36E-09	1.87E-03	3.84E-03	SCL Property Line
205	359155	3799551	8.05E-08	9.33E-08	5.19E-09	1.81E-03	3.76E-03	SCL Property Line
206	359128	3799571	7.75E-08	8.98E-08	4.99E-09	1.74E-03	3.70E-03	SCL Property Line
207	359105	3799603	7.77E-08	9.00E-08	5.01E-09	1.75E-03	3.86E-03	SCL Property Line
208	359095	3799628	7.82E-08	9.06E-08	5.04E-09	1.76E-03	3.83E-03	SCL Property Line
209	359107	3799663	7.78E-08	9.02E-08	5.02E-09	1.75E-03	3.92E-03	SCL Property Line
210	359126	3799690	7.76E-08	8.99E-08	5.00E-09	1.74E-03	4.00E-03	SCL Property Line
211	359145	3799718	7.50E-08	8.69E-08	4.83E-09	1.69E-03	4.12E-03	SCL Property Line
212	359184	3799723	7.43E-08	8.61E-08	4.79E-09	1.67E-03	4.28E-03	SCL Property Line
213	359223	3799729	7.48E-08	8.67E-08	4.82E-09	1.68E-03	4.36E-03	SCL Property Line
214	359247	3799741	7.42E-08	8.60E-08	4.78E-09	1.67E-03	4.43E-03	SCL Property Line
215	359258	3799780	7.19E-08	8.33E-08	4.63E-09	1.62E-03	4.61E-03	SCL Property Line
216	359251	3799815	7.07E-08	8.20E-08	4.56E-09	1.59E-03	4.46E-03	SCL Property Line

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
217	359220	3799850	6.83E-08	7.92E-08	4.40E-09	1.54E-03	3.62E-03	SCL Property Line
218	359175	3799871	6.52E-08	7.55E-08	4.20E-09	1.46E-03	3.46E-03	SCL Property Line
219	359156	3799904	6.50E-08	7.53E-08	4.19E-09	1.46E-03	3.55E-03	SCL Property Line
220	359138	3799936	6.36E-08	7.37E-08	4.10E-09	1.43E-03	3.43E-03	SCL Property Line
221	359109	3799962	6.11E-08	7.08E-08	3.94E-09	1.37E-03	3.31E-03	SCL Property Line
222	359081	3799988	6.01E-08	6.97E-08	3.87E-09	1.35E-03	3.37E-03	SCL Property Line
223	359074	3800032	6.06E-08	7.03E-08	3.91E-09	1.36E-03	3.30E-03	SCL Property Line
224	359067	3800075	6.03E-08	6.99E-08	3.89E-09	1.36E-03	3.18E-03	SCL Property Line
225	359059	3800118	6.31E-08	7.32E-08	4.07E-09	1.42E-03	3.37E-03	SCL Property Line
226	359052	3800162	6.50E-08	7.53E-08	4.19E-09	1.46E-03	3.16E-03	SCL Property Line
227	359021	3800162	6.38E-08	7.40E-08	4.11E-09	1.43E-03	3.00E-03	SCL Property Line
228	359019	3800199	6.65E-08	7.70E-08	4.28E-09	1.49E-03	2.93E-03	SCL Property Line
229	359004	3800227	6.72E-08	7.79E-08	4.33E-09	1.51E-03	2.80E-03	SCL Property Line
230	358990	3800255	6.70E-08	7.77E-08	4.32E-09	1.51E-03	2.75E-03	SCL Property Line
231	358988	3800296	6.84E-08	7.93E-08	4.41E-09	1.54E-03	2.58E-03	SCL Property Line
232	358986	3800337	7.13E-08	8.26E-08	4.59E-09	1.60E-03	2.48E-03	SCL Property Line
233	358968	3800366	7.43E-08	8.61E-08	4.78E-09	1.67E-03	2.61E-03	SCL Property Line
234	358965	3800402	7.84E-08	9.09E-08	5.05E-09	1.76E-03	2.76E-03	SCL Property Line
235	358962	3800438	8.37E-08	9.70E-08	5.39E-09	1.88E-03	2.80E-03	SCL Property Line
236	358994	3800438	8.22E-08	9.52E-08	5.29E-09	1.85E-03	2.81E-03	SCL Property Line
237	358980	3800483	9.04E-08	1.05E-07	5.82E-09	2.03E-03	3.00E-03	SCL Property Line
238	358984	3800522	8.85E-08	1.03E-07	5.70E-09	1.99E-03	3.35E-03	SCL Property Line
239	358956	3800526	9.15E-08	1.06E-07	5.89E-09	2.06E-03	3.25E-03	SCL Property Line
240	358960	3800565	8.81E-08	1.02E-07	5.67E-09	1.98E-03	3.53E-03	SCL Property Line
241	358987	3800560	8.64E-08	1.00E-07	5.57E-09	1.94E-03	3.63E-03	SCL Property Line
242	359013	3800555	7.93E-08	9.19E-08	5.11E-09	1.78E-03	3.73E-03	SCL Property Line
243	358985	3800578	8.55E-08	9.91E-08	5.51E-09	1.92E-03	3.72E-03	SCL Property Line
244	358957	3800601	8.62E-08	9.99E-08	5.55E-09	1.94E-03	3.70E-03	SCL Property Line
245	358929	3800623	8.56E-08	9.92E-08	5.51E-09	1.92E-03	3.65E-03	SCL Property Line
246	358927	3800664	8.56E-08	9.92E-08	5.51E-09	1.92E-03	3.72E-03	SCL Property Line
247	360900	3797750	5.54E-08	6.42E-08	3.57E-09	1.24E-03	2.08E-03	
248	360950	3797750	5.50E-08	6.38E-08	3.54E-09	1.24E-03	2.03E-03	
249	361000	3797750	5.43E-08	6.29E-08	3.50E-09	1.22E-03	2.00E-03	
250	361050	3797750	5.31E-08	6.15E-08	3.42E-09	1.19E-03	2.03E-03	
251	361100	3797750	5.14E-08	5.96E-08	3.31E-09	1.16E-03	2.04E-03	
252	361150	3797750	4.94E-08	5.72E-08	3.18E-09	1.11E-03	2.01E-03	
253	361200	3797750	4.72E-08	5.48E-08	3.04E-09	1.06E-03	1.98E-03	
254	361250	3797750	4.51E-08	5.23E-08	2.91E-09	1.01E-03	1.96E-03	
255	361300	3797750	4.31E-08	5.00E-08	2.78E-09	9.69E-04	1.93E-03	
256	361350	3797750	4.14E-08	4.79E-08	2.66E-09	9.30E-04	1.92E-03	
257	361400	3797750	3.98E-08	4.62E-08	2.57E-09	8.95E-04	1.90E-03	
258	361450	3797750	3.85E-08	4.47E-08	2.48E-09	8.66E-04	1.88E-03	
259	361500	3797750	3.74E-08	4.34E-08	2.41E-09	8.41E-04	1.87E-03	
260	361550	3797750	3.65E-08	4.23E-08	2.35E-09	8.20E-04	1.83E-03	
261	361600	3797750	3.57E-08	4.14E-08	2.30E-09	8.02E-04	1.77E-03	
262	361650	3797750	3.50E-08	4.06E-08	2.26E-09	7.87E-04	1.70E-03	
263	361700	3797750	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.61E-03	
264	361750	3797750	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.52E-03	
265	361800	3797750	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.45E-03	
266	361850	3797750	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.37E-03	
267	361900	3797750	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.28E-03	
268	360800	3797800	5.60E-08	6.49E-08	3.61E-09	1.26E-03	2.21E-03	
269	360850	3797800	5.60E-08	6.49E-08	3.61E-09	1.26E-03	2.16E-03	
270	360900	3797800	5.59E-08	6.48E-08	3.60E-09	1.26E-03	2.12E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
271	360950	3797800	5.56E-08	6.44E-08	3.58E-09	1.25E-03	2.06E-03	
272	361000	3797800	5.49E-08	6.36E-08	3.54E-09	1.23E-03	2.06E-03	
273	361050	3797800	5.36E-08	6.21E-08	3.45E-09	1.20E-03	2.09E-03	
274	361100	3797800	5.18E-08	6.00E-08	3.34E-09	1.16E-03	2.08E-03	
275	361150	3797800	4.96E-08	5.75E-08	3.19E-09	1.11E-03	2.05E-03	
276	361200	3797800	4.73E-08	5.48E-08	3.05E-09	1.06E-03	2.03E-03	
277	361250	3797800	4.50E-08	5.22E-08	2.90E-09	1.01E-03	2.00E-03	
278	361300	3797800	4.30E-08	4.98E-08	2.77E-09	9.65E-04	1.98E-03	
279	361350	3797800	4.12E-08	4.77E-08	2.65E-09	9.25E-04	1.97E-03	
280	361400	3797800	3.96E-08	4.59E-08	2.55E-09	8.90E-04	1.95E-03	
281	361450	3797800	3.83E-08	4.44E-08	2.47E-09	8.61E-04	1.93E-03	
282	361500	3797800	3.72E-08	4.32E-08	2.40E-09	8.37E-04	1.90E-03	
283	361550	3797800	3.63E-08	4.21E-08	2.34E-09	8.16E-04	1.85E-03	
284	361600	3797800	3.56E-08	4.12E-08	2.29E-09	7.99E-04	1.78E-03	
285	361650	3797800	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.69E-03	
286	361700	3797800	3.44E-08	3.98E-08	2.22E-09	7.73E-04	1.59E-03	
287	361750	3797800	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.51E-03	
288	361800	3797800	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.43E-03	
289	361850	3797800	3.31E-08	3.84E-08	2.14E-09	7.45E-04	1.34E-03	
290	361900	3797800	3.28E-08	3.80E-08	2.11E-09	7.38E-04	1.25E-03	
291	361950	3797800	3.26E-08	3.77E-08	2.10E-09	7.32E-04	1.20E-03	
292	362000	3797800	3.23E-08	3.75E-08	2.08E-09	7.27E-04	1.19E-03	
293	362050	3797800	3.21E-08	3.73E-08	2.07E-09	7.22E-04	1.17E-03	
294	360750	3797850	5.65E-08	6.55E-08	3.64E-09	1.27E-03	2.29E-03	
295	360800	3797850	5.64E-08	6.54E-08	3.64E-09	1.27E-03	2.25E-03	
296	360850	3797850	5.64E-08	6.54E-08	3.63E-09	1.27E-03	2.20E-03	
297	360900	3797850	5.64E-08	6.54E-08	3.64E-09	1.27E-03	2.16E-03	
298	360950	3797850	5.62E-08	6.52E-08	3.62E-09	1.26E-03	2.11E-03	
299	361000	3797850	5.55E-08	6.44E-08	3.58E-09	1.25E-03	2.13E-03	
300	361050	3797850	5.42E-08	6.28E-08	3.49E-09	1.22E-03	2.15E-03	
301	361100	3797850	5.22E-08	6.05E-08	3.36E-09	1.17E-03	2.13E-03	
302	361150	3797850	4.98E-08	5.77E-08	3.21E-09	1.12E-03	2.10E-03	
303	361200	3797850	4.73E-08	5.48E-08	3.05E-09	1.06E-03	2.08E-03	
304	361250	3797850	4.49E-08	5.20E-08	2.89E-09	1.01E-03	2.04E-03	
305	361300	3797850	4.28E-08	4.96E-08	2.76E-09	9.61E-04	2.03E-03	
306	361350	3797850	4.09E-08	4.74E-08	2.64E-09	9.20E-04	2.01E-03	
307	361400	3797850	3.94E-08	4.57E-08	2.54E-09	8.85E-04	1.99E-03	
308	361450	3797850	3.81E-08	4.42E-08	2.46E-09	8.56E-04	1.97E-03	
309	361500	3797850	3.71E-08	4.30E-08	2.39E-09	8.33E-04	1.93E-03	
310	361550	3797850	3.62E-08	4.19E-08	2.33E-09	8.13E-04	1.87E-03	
311	361600	3797850	3.55E-08	4.11E-08	2.29E-09	7.97E-04	1.78E-03	
312	361650	3797850	3.49E-08	4.04E-08	2.25E-09	7.83E-04	1.68E-03	
313	361700	3797850	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.57E-03	
314	361750	3797850	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.48E-03	
315	361800	3797850	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.39E-03	
316	361850	3797850	3.32E-08	3.84E-08	2.14E-09	7.45E-04	1.29E-03	
317	361900	3797850	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.24E-03	
318	361950	3797850	3.26E-08	3.78E-08	2.10E-09	7.33E-04	1.22E-03	
319	362000	3797850	3.24E-08	3.76E-08	2.09E-09	7.28E-04	1.20E-03	
320	362050	3797850	3.22E-08	3.74E-08	2.08E-09	7.24E-04	1.18E-03	
321	362100	3797850	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.16E-03	
322	360700	3797900	5.72E-08	6.62E-08	3.68E-09	1.28E-03	2.35E-03	
323	360750	3797900	5.69E-08	6.60E-08	3.67E-09	1.28E-03	2.34E-03	
324	360800	3797900	5.68E-08	6.59E-08	3.66E-09	1.28E-03	2.29E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
325	360850	3797900	5.69E-08	6.60E-08	3.67E-09	1.28E-03	2.25E-03	
326	360900	3797900	5.71E-08	6.61E-08	3.68E-09	1.28E-03	2.19E-03	
327	360950	3797900	5.70E-08	6.60E-08	3.67E-09	1.28E-03	2.15E-03	
328	361000	3797900	5.63E-08	6.52E-08	3.62E-09	1.26E-03	2.19E-03	
329	361050	3797900	5.48E-08	6.35E-08	3.53E-09	1.23E-03	2.20E-03	
330	361100	3797900	5.25E-08	6.09E-08	3.39E-09	1.18E-03	2.17E-03	
331	361150	3797900	4.99E-08	5.79E-08	3.22E-09	1.12E-03	2.15E-03	
332	361200	3797900	4.72E-08	5.47E-08	3.04E-09	1.06E-03	2.12E-03	
333	361250	3797900	4.47E-08	5.18E-08	2.88E-09	1.01E-03	2.09E-03	
334	361300	3797900	4.25E-08	4.93E-08	2.74E-09	9.56E-04	2.09E-03	
335	361350	3797900	4.07E-08	4.71E-08	2.62E-09	9.14E-04	2.06E-03	
336	361400	3797900	3.92E-08	4.54E-08	2.52E-09	8.80E-04	2.04E-03	
337	361450	3797900	3.79E-08	4.40E-08	2.44E-09	8.52E-04	2.01E-03	
338	361500	3797900	3.69E-08	4.28E-08	2.38E-09	8.29E-04	1.95E-03	
339	361550	3797900	3.61E-08	4.18E-08	2.32E-09	8.11E-04	1.87E-03	
340	361600	3797900	3.54E-08	4.10E-08	2.28E-09	7.95E-04	1.78E-03	
341	361650	3797900	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.66E-03	
342	361700	3797900	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.55E-03	
343	361750	3797900	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.45E-03	
344	361800	3797900	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.35E-03	
345	361850	3797900	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.28E-03	
346	361900	3797900	3.29E-08	3.82E-08	2.12E-09	7.40E-04	1.26E-03	
347	361950	3797900	3.27E-08	3.79E-08	2.11E-09	7.35E-04	1.24E-03	
348	362000	3797900	3.25E-08	3.77E-08	2.09E-09	7.31E-04	1.22E-03	
349	362050	3797900	3.23E-08	3.75E-08	2.08E-09	7.27E-04	1.19E-03	
350	362100	3797900	3.22E-08	3.73E-08	2.07E-09	7.23E-04	1.17E-03	
351	362150	3797900	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.16E-03	
352	360650	3797950	5.78E-08	6.70E-08	3.72E-09	1.30E-03	2.39E-03	
353	360700	3797950	5.76E-08	6.67E-08	3.71E-09	1.29E-03	2.41E-03	
354	360750	3797950	5.73E-08	6.64E-08	3.69E-09	1.29E-03	2.40E-03	
355	360800	3797950	5.73E-08	6.64E-08	3.69E-09	1.29E-03	2.34E-03	
356	360850	3797950	5.74E-08	6.66E-08	3.70E-09	1.29E-03	2.29E-03	
357	360900	3797950	5.77E-08	6.69E-08	3.72E-09	1.30E-03	2.22E-03	
358	360950	3797950	5.77E-08	6.69E-08	3.72E-09	1.30E-03	2.22E-03	
359	361000	3797950	5.71E-08	6.61E-08	3.68E-09	1.28E-03	2.26E-03	
360	361050	3797950	5.54E-08	6.42E-08	3.57E-09	1.25E-03	2.25E-03	
361	361100	3797950	5.29E-08	6.14E-08	3.41E-09	1.19E-03	2.22E-03	
362	361150	3797950	5.00E-08	5.80E-08	3.22E-09	1.12E-03	2.20E-03	
363	361200	3797950	4.71E-08	5.46E-08	3.04E-09	1.06E-03	2.16E-03	
364	361250	3797950	4.45E-08	5.16E-08	2.87E-09	1.00E-03	2.16E-03	
365	361300	3797950	4.23E-08	4.90E-08	2.72E-09	9.50E-04	2.14E-03	
366	361350	3797950	4.04E-08	4.69E-08	2.60E-09	9.09E-04	2.11E-03	
367	361400	3797950	3.90E-08	4.52E-08	2.51E-09	8.75E-04	2.09E-03	
368	361450	3797950	3.78E-08	4.38E-08	2.43E-09	8.49E-04	2.04E-03	
369	361500	3797950	3.68E-08	4.27E-08	2.37E-09	8.27E-04	1.97E-03	
370	361550	3797950	3.60E-08	4.17E-08	2.32E-09	8.09E-04	1.88E-03	
371	361600	3797950	3.53E-08	4.10E-08	2.28E-09	7.94E-04	1.76E-03	
372	361650	3797950	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.64E-03	
373	361700	3797950	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.52E-03	
374	361750	3797950	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.41E-03	
375	361800	3797950	3.36E-08	3.89E-08	2.16E-09	7.54E-04	1.33E-03	
376	361850	3797950	3.32E-08	3.85E-08	2.14E-09	7.47E-04	1.30E-03	
377	361900	3797950	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.28E-03	
378	361950	3797950	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.25E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
379	362000	3797950	3.26E-08	3.78E-08	2.10E-09	7.33E-04	1.23E-03	
380	362050	3797950	3.24E-08	3.76E-08	2.09E-09	7.29E-04	1.20E-03	
381	362100	3797950	3.23E-08	3.74E-08	2.08E-09	7.26E-04	1.19E-03	
382	362150	3797950	3.22E-08	3.73E-08	2.07E-09	7.23E-04	1.18E-03	
383	362200	3797950	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.17E-03	
384	360600	3798000	5.84E-08	6.77E-08	3.76E-09	1.31E-03	2.46E-03	
385	360650	3798000	5.82E-08	6.74E-08	3.75E-09	1.31E-03	2.45E-03	
386	360700	3798000	5.79E-08	6.71E-08	3.73E-09	1.30E-03	2.47E-03	
387	360750	3798000	5.77E-08	6.69E-08	3.72E-09	1.30E-03	2.45E-03	
388	360800	3798000	5.77E-08	6.69E-08	3.72E-09	1.30E-03	2.39E-03	
389	360850	3798000	5.80E-08	6.72E-08	3.74E-09	1.30E-03	2.33E-03	
390	360900	3798000	5.84E-08	6.77E-08	3.77E-09	1.31E-03	2.27E-03	
391	360950	3798000	5.86E-08	6.80E-08	3.78E-09	1.32E-03	2.30E-03	
392	361000	3798000	5.80E-08	6.72E-08	3.73E-09	1.30E-03	2.32E-03	
393	361050	3798000	5.61E-08	6.51E-08	3.62E-09	1.26E-03	2.30E-03	
394	361100	3798000	5.33E-08	6.18E-08	3.44E-09	1.20E-03	2.27E-03	
395	361150	3798000	5.01E-08	5.81E-08	3.23E-09	1.13E-03	2.25E-03	
396	361200	3798000	4.70E-08	5.44E-08	3.03E-09	1.06E-03	2.22E-03	
397	361250	3798000	4.42E-08	5.13E-08	2.85E-09	9.94E-04	2.22E-03	
398	361300	3798000	4.20E-08	4.87E-08	2.70E-09	9.43E-04	2.18E-03	
399	361350	3798000	4.02E-08	4.66E-08	2.59E-09	9.03E-04	2.16E-03	
400	361400	3798000	3.88E-08	4.49E-08	2.50E-09	8.71E-04	2.13E-03	
401	361450	3798000	3.76E-08	4.36E-08	2.43E-09	8.46E-04	2.07E-03	
402	361500	3798000	3.67E-08	4.26E-08	2.37E-09	8.25E-04	1.98E-03	
403	361550	3798000	3.60E-08	4.17E-08	2.32E-09	8.08E-04	1.87E-03	
404	361600	3798000	3.53E-08	4.09E-08	2.28E-09	7.94E-04	1.74E-03	
405	361650	3798000	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.60E-03	
406	361700	3798000	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.48E-03	
407	361750	3798000	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.38E-03	
408	361800	3798000	3.36E-08	3.90E-08	2.17E-09	7.55E-04	1.34E-03	
409	361850	3798000	3.33E-08	3.86E-08	2.15E-09	7.49E-04	1.32E-03	
410	361900	3798000	3.31E-08	3.83E-08	2.13E-09	7.43E-04	1.29E-03	
411	361950	3798000	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.26E-03	
412	362000	3798000	3.27E-08	3.79E-08	2.11E-09	7.35E-04	1.24E-03	
413	362050	3798000	3.26E-08	3.77E-08	2.10E-09	7.31E-04	1.22E-03	
414	362100	3798000	3.24E-08	3.76E-08	2.09E-09	7.29E-04	1.21E-03	
415	362150	3798000	3.23E-08	3.75E-08	2.08E-09	7.26E-04	1.21E-03	
416	362200	3798000	3.22E-08	3.74E-08	2.08E-09	7.24E-04	1.19E-03	
417	362250	3798000	3.22E-08	3.73E-08	2.07E-09	7.23E-04	1.17E-03	
418	360600	3798050	5.88E-08	6.81E-08	3.79E-09	1.32E-03	2.52E-03	
419	360650	3798050	5.86E-08	6.79E-08	3.77E-09	1.32E-03	2.52E-03	
420	360700	3798050	5.83E-08	6.76E-08	3.76E-09	1.31E-03	2.54E-03	
421	360750	3798050	5.81E-08	6.74E-08	3.74E-09	1.31E-03	2.50E-03	
422	360800	3798050	5.82E-08	6.74E-08	3.75E-09	1.31E-03	2.43E-03	
423	360850	3798050	5.86E-08	6.79E-08	3.77E-09	1.32E-03	2.37E-03	
424	360900	3798050	5.92E-08	6.87E-08	3.82E-09	1.33E-03	2.33E-03	
425	360950	3798050	5.96E-08	6.91E-08	3.84E-09	1.34E-03	2.37E-03	
426	361000	3798050	5.90E-08	6.84E-08	3.80E-09	1.33E-03	2.38E-03	
427	361050	3798050	5.69E-08	6.59E-08	3.66E-09	1.28E-03	2.36E-03	
428	361100	3798050	5.37E-08	6.22E-08	3.46E-09	1.21E-03	2.33E-03	
429	361150	3798050	5.01E-08	5.80E-08	3.23E-09	1.13E-03	2.30E-03	
430	361200	3798050	4.67E-08	5.41E-08	3.01E-09	1.05E-03	2.29E-03	
431	361250	3798050	4.39E-08	5.09E-08	2.83E-09	9.87E-04	2.28E-03	
432	361300	3798050	4.17E-08	4.83E-08	2.68E-09	9.36E-04	2.24E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
433	361350	3798050	3.99E-08	4.63E-08	2.57E-09	8.98E-04	2.21E-03	
434	361400	3798050	3.86E-08	4.47E-08	2.49E-09	8.67E-04	2.16E-03	
435	361450	3798050	3.76E-08	4.35E-08	2.42E-09	8.44E-04	2.08E-03	
436	361500	3798050	3.67E-08	4.25E-08	2.36E-09	8.24E-04	1.98E-03	
437	361550	3798050	3.60E-08	4.17E-08	2.32E-09	8.08E-04	1.85E-03	
438	361600	3798050	3.54E-08	4.10E-08	2.28E-09	7.94E-04	1.71E-03	
439	361650	3798050	3.48E-08	4.04E-08	2.24E-09	7.82E-04	1.56E-03	
440	361700	3798050	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.43E-03	
441	361750	3798050	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.38E-03	
442	361800	3798050	3.37E-08	3.90E-08	2.17E-09	7.57E-04	1.36E-03	
443	361850	3798050	3.34E-08	3.87E-08	2.15E-09	7.51E-04	1.34E-03	
444	361900	3798050	3.32E-08	3.84E-08	2.14E-09	7.45E-04	1.31E-03	
445	361950	3798050	3.30E-08	3.82E-08	2.12E-09	7.41E-04	1.28E-03	
446	362000	3798050	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.26E-03	
447	362050	3798050	3.27E-08	3.79E-08	2.10E-09	7.34E-04	1.25E-03	
448	362100	3798050	3.25E-08	3.77E-08	2.10E-09	7.31E-04	1.24E-03	
449	362150	3798050	3.25E-08	3.76E-08	2.09E-09	7.29E-04	1.23E-03	
450	362200	3798050	3.24E-08	3.75E-08	2.08E-09	7.27E-04	1.21E-03	
451	362250	3798050	3.23E-08	3.74E-08	2.08E-09	7.26E-04	1.18E-03	
452	360450	3798100	5.93E-08	6.87E-08	3.82E-09	1.33E-03	2.67E-03	Nonresidential
453	360500	3798100	5.94E-08	6.89E-08	3.83E-09	1.34E-03	2.67E-03	Nonresidential
454	360550	3798100	5.94E-08	6.88E-08	3.83E-09	1.33E-03	2.62E-03	Nonresidential
455	360600	3798100	5.92E-08	6.86E-08	3.81E-09	1.33E-03	2.58E-03	Nonresidential
456	360650	3798100	5.89E-08	6.83E-08	3.80E-09	1.32E-03	2.59E-03	Nonresidential
457	360700	3798100	5.87E-08	6.80E-08	3.78E-09	1.32E-03	2.60E-03	Nonresidential
458	360750	3798100	5.85E-08	6.78E-08	3.77E-09	1.31E-03	2.55E-03	
459	360800	3798100	5.86E-08	6.79E-08	3.78E-09	1.32E-03	2.48E-03	
460	360850	3798100	5.91E-08	6.86E-08	3.81E-09	1.33E-03	2.42E-03	
461	360900	3798100	6.01E-08	6.97E-08	3.87E-09	1.35E-03	2.41E-03	
462	360950	3798100	6.08E-08	7.04E-08	3.92E-09	1.37E-03	2.45E-03	
463	361000	3798100	6.01E-08	6.97E-08	3.87E-09	1.35E-03	2.44E-03	
464	361050	3798100	5.77E-08	6.68E-08	3.72E-09	1.30E-03	2.41E-03	
465	361100	3798100	5.39E-08	6.25E-08	3.48E-09	1.21E-03	2.39E-03	
466	361150	3798100	5.00E-08	5.79E-08	3.22E-09	1.12E-03	2.36E-03	
467	361200	3798100	4.64E-08	5.38E-08	2.99E-09	1.04E-03	2.36E-03	
468	361250	3798100	4.36E-08	5.05E-08	2.81E-09	9.79E-04	2.33E-03	
469	361300	3798100	4.14E-08	4.79E-08	2.67E-09	9.30E-04	2.29E-03	
470	361350	3798100	3.97E-08	4.61E-08	2.56E-09	8.93E-04	2.26E-03	
471	361400	3798100	3.85E-08	4.46E-08	2.48E-09	8.65E-04	2.19E-03	
472	361450	3798100	3.75E-08	4.35E-08	2.42E-09	8.43E-04	2.09E-03	
473	361500	3798100	3.67E-08	4.25E-08	2.36E-09	8.24E-04	1.96E-03	
474	361550	3798100	3.60E-08	4.17E-08	2.32E-09	8.09E-04	1.82E-03	
475	361600	3798100	3.54E-08	4.10E-08	2.28E-09	7.96E-04	1.67E-03	
476	361650	3798100	3.49E-08	4.05E-08	2.25E-09	7.84E-04	1.51E-03	
477	361700	3798100	3.45E-08	3.99E-08	2.22E-09	7.74E-04	1.42E-03	
478	361750	3798100	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.41E-03	
479	361800	3798100	3.38E-08	3.91E-08	2.18E-09	7.59E-04	1.38E-03	
480	361850	3798100	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.35E-03	
481	361900	3798100	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.32E-03	
482	361950	3798100	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.30E-03	
483	362000	3798100	3.29E-08	3.82E-08	2.12E-09	7.40E-04	1.29E-03	
484	362050	3798100	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.28E-03	
485	362100	3798100	3.27E-08	3.79E-08	2.10E-09	7.34E-04	1.26E-03	
486	362150	3798100	3.26E-08	3.78E-08	2.10E-09	7.32E-04	1.25E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
487	362200	3798100	3.25E-08	3.77E-08	2.09E-09	7.30E-04	1.22E-03	
488	362250	3798100	3.24E-08	3.76E-08	2.09E-09	7.29E-04	1.19E-03	
489	360350	3798150	5.86E-08	6.79E-08	3.77E-09	1.32E-03	2.73E-03	Nonresidential
490	360400	3798150	5.94E-08	6.88E-08	3.83E-09	1.33E-03	2.76E-03	Nonresidential
491	360450	3798150	5.98E-08	6.93E-08	3.85E-09	1.34E-03	2.75E-03	Nonresidential
492	360500	3798150	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.74E-03	Nonresidential
493	360550	3798150	5.99E-08	6.94E-08	3.86E-09	1.34E-03	2.69E-03	Nonresidential
494	360600	3798150	5.96E-08	6.90E-08	3.84E-09	1.34E-03	2.65E-03	Nonresidential
495	360650	3798150	5.92E-08	6.87E-08	3.82E-09	1.33E-03	2.67E-03	Nonresidential
496	360700	3798150	5.90E-08	6.83E-08	3.80E-09	1.33E-03	2.66E-03	Nonresidential
497	360750	3798150	5.89E-08	6.82E-08	3.79E-09	1.32E-03	2.60E-03	Nonresidential
498	360800	3798150	5.90E-08	6.84E-08	3.80E-09	1.33E-03	2.53E-03	
499	360850	3798150	5.98E-08	6.93E-08	3.85E-09	1.34E-03	2.48E-03	
500	360900	3798150	6.10E-08	7.07E-08	3.93E-09	1.37E-03	2.49E-03	
501	360950	3798150	6.21E-08	7.19E-08	4.00E-09	1.39E-03	2.52E-03	
502	361000	3798150	6.14E-08	7.11E-08	3.95E-09	1.38E-03	2.50E-03	
503	361050	3798150	5.84E-08	6.77E-08	3.76E-09	1.31E-03	2.48E-03	
504	361100	3798150	5.41E-08	6.27E-08	3.48E-09	1.22E-03	2.44E-03	
505	361150	3798150	4.97E-08	5.76E-08	3.20E-09	1.12E-03	2.43E-03	
506	361200	3798150	4.60E-08	5.33E-08	2.96E-09	1.03E-03	2.42E-03	
507	361250	3798150	4.32E-08	5.00E-08	2.78E-09	9.70E-04	2.38E-03	
508	361300	3798150	4.11E-08	4.77E-08	2.65E-09	9.24E-04	2.35E-03	
509	361350	3798150	3.96E-08	4.59E-08	2.55E-09	8.90E-04	2.29E-03	
510	361400	3798150	3.85E-08	4.46E-08	2.48E-09	8.64E-04	2.20E-03	
511	361450	3798150	3.75E-08	4.35E-08	2.42E-09	8.43E-04	2.08E-03	
512	361500	3798150	3.67E-08	4.26E-08	2.37E-09	8.26E-04	1.94E-03	
513	361550	3798150	3.61E-08	4.18E-08	2.32E-09	8.11E-04	1.79E-03	
514	361600	3798150	3.55E-08	4.12E-08	2.29E-09	7.98E-04	1.62E-03	
515	361650	3798150	3.50E-08	4.06E-08	2.26E-09	7.87E-04	1.49E-03	
516	361700	3798150	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.45E-03	
517	361750	3798150	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.43E-03	
518	361800	3798150	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.40E-03	
519	361850	3798150	3.36E-08	3.90E-08	2.17E-09	7.55E-04	1.37E-03	
520	361900	3798150	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.34E-03	
521	361950	3798150	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.32E-03	
522	362000	3798150	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.32E-03	
523	362050	3798150	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.30E-03	
524	362100	3798150	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.28E-03	
525	362150	3798150	3.27E-08	3.79E-08	2.11E-09	7.35E-04	1.26E-03	
526	362200	3798150	3.26E-08	3.78E-08	2.10E-09	7.33E-04	1.23E-03	
527	362250	3798150	3.26E-08	3.77E-08	2.10E-09	7.32E-04	1.20E-03	
528	362300	3798150	3.25E-08	3.77E-08	2.09E-09	7.30E-04	1.16E-03	
529	360300	3798200	5.81E-08	6.73E-08	3.74E-09	1.31E-03	2.81E-03	Nonresidential
530	360350	3798200	5.92E-08	6.87E-08	3.82E-09	1.33E-03	2.80E-03	Nonresidential
531	360400	3798200	6.00E-08	6.96E-08	3.87E-09	1.35E-03	2.83E-03	Nonresidential
532	360450	3798200	6.04E-08	7.00E-08	3.89E-09	1.36E-03	2.82E-03	Nonresidential
533	360500	3798200	6.05E-08	7.01E-08	3.90E-09	1.36E-03	2.81E-03	Nonresidential
534	360550	3798200	6.03E-08	6.99E-08	3.89E-09	1.36E-03	2.75E-03	Nonresidential
535	360600	3798200	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.72E-03	Nonresidential
536	360650	3798200	5.96E-08	6.90E-08	3.84E-09	1.34E-03	2.74E-03	Nonresidential
537	360700	3798200	5.93E-08	6.87E-08	3.82E-09	1.33E-03	2.72E-03	Nonresidential
538	360750	3798200	5.92E-08	6.86E-08	3.81E-09	1.33E-03	2.66E-03	Nonresidential
539	360800	3798200	5.94E-08	6.89E-08	3.83E-09	1.34E-03	2.58E-03	Nonresidential
540	360850	3798200	6.03E-08	6.99E-08	3.89E-09	1.36E-03	2.56E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
541	360900	3798200	6.20E-08	7.19E-08	4.00E-09	1.39E-03	2.57E-03	Nonresidential
542	360950	3798200	6.35E-08	7.36E-08	4.09E-09	1.43E-03	2.59E-03	Nonresidential
543	361000	3798200	6.27E-08	7.27E-08	4.04E-09	1.41E-03	2.56E-03	Nonresidential
544	361050	3798200	5.91E-08	6.85E-08	3.81E-09	1.33E-03	2.54E-03	
545	361100	3798200	5.40E-08	6.26E-08	3.48E-09	1.21E-03	2.51E-03	
546	361150	3798200	4.92E-08	5.70E-08	3.17E-09	1.11E-03	2.51E-03	
547	361200	3798200	4.55E-08	5.27E-08	2.93E-09	1.02E-03	2.48E-03	
548	361250	3798200	4.28E-08	4.96E-08	2.76E-09	9.62E-04	2.43E-03	
549	361300	3798200	4.09E-08	4.74E-08	2.64E-09	9.20E-04	2.40E-03	
550	361350	3798200	3.96E-08	4.58E-08	2.55E-09	8.89E-04	2.32E-03	
551	361400	3798200	3.85E-08	4.46E-08	2.48E-09	8.65E-04	2.21E-03	
552	361450	3798200	3.76E-08	4.36E-08	2.42E-09	8.45E-04	2.07E-03	
553	361500	3798200	3.69E-08	4.27E-08	2.37E-09	8.28E-04	1.91E-03	
554	361550	3798200	3.62E-08	4.20E-08	2.33E-09	8.14E-04	1.74E-03	
555	361600	3798200	3.56E-08	4.13E-08	2.30E-09	8.01E-04	1.57E-03	
556	361650	3798200	3.51E-08	4.07E-08	2.26E-09	7.90E-04	1.50E-03	
557	361700	3798200	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.48E-03	
558	361750	3798200	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.45E-03	
559	361800	3798200	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.42E-03	
560	361850	3798200	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.39E-03	
561	361900	3798200	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.36E-03	
562	361950	3798200	3.33E-08	3.86E-08	2.15E-09	7.48E-04	1.36E-03	
563	362000	3798200	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.34E-03	
564	362050	3798200	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.32E-03	
565	362100	3798200	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.30E-03	
566	362150	3798200	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.27E-03	
567	362200	3798200	3.27E-08	3.79E-08	2.11E-09	7.36E-04	1.24E-03	
568	362250	3798200	3.27E-08	3.79E-08	2.11E-09	7.34E-04	1.20E-03	
569	362300	3798200	3.26E-08	3.78E-08	2.10E-09	7.33E-04	1.16E-03	
570	360200	3798250	5.54E-08	6.42E-08	3.57E-09	1.24E-03	2.92E-03	Nonresidential
571	360250	3798250	5.73E-08	6.64E-08	3.69E-09	1.29E-03	2.91E-03	Nonresidential
572	360300	3798250	5.88E-08	6.82E-08	3.79E-09	1.32E-03	2.88E-03	Nonresidential
573	360350	3798250	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.89E-03	Nonresidential
574	360400	3798250	6.07E-08	7.04E-08	3.91E-09	1.37E-03	2.92E-03	Nonresidential
575	360450	3798250	6.11E-08	7.08E-08	3.94E-09	1.37E-03	2.90E-03	Nonresidential
576	360500	3798250	6.11E-08	7.08E-08	3.94E-09	1.37E-03	2.88E-03	Nonresidential
577	360550	3798250	6.08E-08	7.05E-08	3.92E-09	1.37E-03	2.82E-03	Nonresidential
578	360600	3798250	6.04E-08	7.00E-08	3.89E-09	1.36E-03	2.80E-03	Nonresidential
579	360650	3798250	5.99E-08	6.94E-08	3.86E-09	1.35E-03	2.82E-03	Nonresidential
580	360700	3798250	5.95E-08	6.89E-08	3.83E-09	1.34E-03	2.79E-03	Nonresidential
581	360750	3798250	5.94E-08	6.88E-08	3.83E-09	1.33E-03	2.72E-03	Nonresidential
582	360800	3798250	5.98E-08	6.93E-08	3.85E-09	1.34E-03	2.65E-03	Nonresidential
583	360850	3798250	6.09E-08	7.05E-08	3.92E-09	1.37E-03	2.64E-03	Nonresidential
584	360900	3798250	6.30E-08	7.30E-08	4.06E-09	1.42E-03	2.66E-03	Nonresidential
585	360950	3798250	6.50E-08	7.54E-08	4.19E-09	1.46E-03	2.65E-03	Nonresidential
586	361000	3798250	6.41E-08	7.43E-08	4.13E-09	1.44E-03	2.63E-03	Nonresidential
587	361850	3798250	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.41E-03	
588	361900	3798250	3.36E-08	3.89E-08	2.16E-09	7.54E-04	1.40E-03	
589	361950	3798250	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.38E-03	
590	362000	3798250	3.32E-08	3.85E-08	2.14E-09	7.47E-04	1.37E-03	
591	362050	3798250	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.34E-03	
592	362100	3798250	3.30E-08	3.82E-08	2.13E-09	7.41E-04	1.31E-03	
593	362150	3798250	3.29E-08	3.82E-08	2.12E-09	7.40E-04	1.28E-03	
594	362200	3798250	3.29E-08	3.81E-08	2.12E-09	7.38E-04	1.24E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
595	362250	3798250	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.19E-03	
596	362300	3798250	3.28E-08	3.80E-08	2.11E-09	7.36E-04	1.15E-03	
597	360200	3798300	5.60E-08	6.50E-08	3.61E-09	1.26E-03	3.01E-03	Nonresidential
598	360250	3798300	5.80E-08	6.72E-08	3.74E-09	1.30E-03	3.01E-03	Nonresidential
599	360300	3798300	5.96E-08	6.91E-08	3.84E-09	1.34E-03	2.96E-03	Nonresidential
600	360350	3798300	6.08E-08	7.05E-08	3.92E-09	1.37E-03	2.97E-03	Nonresidential
601	360400	3798300	6.15E-08	7.13E-08	3.97E-09	1.38E-03	3.00E-03	Nonresidential
602	360450	3798300	6.19E-08	7.17E-08	3.99E-09	1.39E-03	2.99E-03	Nonresidential
603	360500	3798300	6.18E-08	7.16E-08	3.98E-09	1.39E-03	2.96E-03	Nonresidential
604	360550	3798300	6.14E-08	7.11E-08	3.95E-09	1.38E-03	2.89E-03	Nonresidential
605	360600	3798300	6.08E-08	7.05E-08	3.92E-09	1.37E-03	2.87E-03	Nonresidential
606	360650	3798300	6.02E-08	6.97E-08	3.88E-09	1.35E-03	2.89E-03	Nonresidential
607	360700	3798300	5.97E-08	6.91E-08	3.84E-09	1.34E-03	2.85E-03	Nonresidential
608	360750	3798300	5.95E-08	6.90E-08	3.84E-09	1.34E-03	2.78E-03	Nonresidential
609	360800	3798300	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.73E-03	Nonresidential
610	360850	3798300	6.12E-08	7.10E-08	3.94E-09	1.38E-03	2.73E-03	Nonresidential
611	360900	3798300	6.39E-08	7.40E-08	4.12E-09	1.44E-03	2.74E-03	Nonresidential
612	360950	3798300	6.66E-08	7.72E-08	4.29E-09	1.50E-03	2.72E-03	Nonresidential
613	361850	3798300	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.44E-03	
614	361900	3798300	3.37E-08	3.90E-08	2.17E-09	7.56E-04	1.43E-03	
615	361950	3798300	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.41E-03	
616	362000	3798300	3.33E-08	3.86E-08	2.15E-09	7.49E-04	1.38E-03	
617	362050	3798300	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.35E-03	
618	362100	3798300	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.32E-03	
619	362150	3798300	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.28E-03	
620	362200	3798300	3.30E-08	3.82E-08	2.12E-09	7.41E-04	1.23E-03	
621	362250	3798300	3.29E-08	3.82E-08	2.12E-09	7.40E-04	1.19E-03	
622	362300	3798300	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.14E-03	
623	359950	3798350	4.53E-08	5.25E-08	2.92E-09	1.02E-03	3.17E-03	Nonresidential
624	360000	3798350	4.73E-08	5.48E-08	3.05E-09	1.06E-03	3.17E-03	Nonresidential
625	360050	3798350	4.96E-08	5.74E-08	3.19E-09	1.11E-03	3.18E-03	Nonresidential
626	360100	3798350	5.20E-08	6.03E-08	3.35E-09	1.17E-03	3.16E-03	Nonresidential
627	360150	3798350	5.45E-08	6.31E-08	3.51E-09	1.22E-03	3.14E-03	Nonresidential
628	360200	3798350	5.68E-08	6.58E-08	3.66E-09	1.28E-03	3.11E-03	Nonresidential
629	360250	3798350	5.88E-08	6.82E-08	3.79E-09	1.32E-03	3.11E-03	Nonresidential
630	360300	3798350	6.05E-08	7.01E-08	3.90E-09	1.36E-03	3.05E-03	Nonresidential
631	360350	3798350	6.17E-08	7.15E-08	3.98E-09	1.39E-03	3.07E-03	Nonresidential
632	360400	3798350	6.25E-08	7.24E-08	4.02E-09	1.40E-03	3.08E-03	Nonresidential
633	360450	3798350	6.27E-08	7.27E-08	4.04E-09	1.41E-03	3.07E-03	Nonresidential
634	360500	3798350	6.25E-08	7.25E-08	4.03E-09	1.41E-03	3.03E-03	Nonresidential
635	360550	3798350	6.20E-08	7.19E-08	4.00E-09	1.39E-03	2.96E-03	Nonresidential
636	360600	3798350	6.13E-08	7.10E-08	3.95E-09	1.38E-03	2.97E-03	Nonresidential
637	360650	3798350	6.05E-08	7.01E-08	3.90E-09	1.36E-03	2.97E-03	Nonresidential
638	360700	3798350	5.98E-08	6.93E-08	3.85E-09	1.34E-03	2.93E-03	Nonresidential
639	360750	3798350	5.95E-08	6.90E-08	3.84E-09	1.34E-03	2.85E-03	Nonresidential
640	360800	3798350	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.83E-03	Nonresidential
641	360850	3798350	6.14E-08	7.11E-08	3.95E-09	1.38E-03	2.82E-03	Nonresidential
642	360900	3798350	6.45E-08	7.48E-08	4.16E-09	1.45E-03	2.82E-03	Nonresidential
643	360950	3798350	6.82E-08	7.90E-08	4.39E-09	1.53E-03	2.79E-03	Nonresidential
644	361850	3798350	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.47E-03	
645	361900	3798350	3.37E-08	3.91E-08	2.17E-09	7.58E-04	1.46E-03	
646	361950	3798350	3.35E-08	3.89E-08	2.16E-09	7.54E-04	1.43E-03	
647	362000	3798350	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.40E-03	
648	362050	3798350	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.36E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
649	362100	3798350	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.32E-03	
650	362150	3798350	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.27E-03	
651	362200	3798350	3.31E-08	3.83E-08	2.13E-09	7.43E-04	1.22E-03	
652	362250	3798350	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.17E-03	
653	362300	3798350	3.30E-08	3.83E-08	2.13E-09	7.42E-04	1.13E-03	
654	359850	3798400	4.27E-08	4.95E-08	2.75E-09	9.59E-04	3.08E-03	Nonresidential
655	359900	3798400	4.38E-08	5.08E-08	2.82E-09	9.85E-04	3.20E-03	Nonresidential
656	359950	3798400	4.55E-08	5.27E-08	2.93E-09	1.02E-03	3.26E-03	Nonresidential
657	360000	3798400	4.76E-08	5.52E-08	3.07E-09	1.07E-03	3.28E-03	Nonresidential
658	360050	3798400	5.00E-08	5.80E-08	3.22E-09	1.12E-03	3.27E-03	Nonresidential
659	360100	3798400	5.26E-08	6.09E-08	3.39E-09	1.18E-03	3.27E-03	Nonresidential
660	360150	3798400	5.51E-08	6.39E-08	3.55E-09	1.24E-03	3.25E-03	Nonresidential
661	360200	3798400	5.76E-08	6.67E-08	3.71E-09	1.29E-03	3.22E-03	Nonresidential
662	360250	3798400	5.97E-08	6.92E-08	3.85E-09	1.34E-03	3.21E-03	Nonresidential
663	360300	3798400	6.15E-08	7.12E-08	3.96E-09	1.38E-03	3.15E-03	Nonresidential
664	360350	3798400	6.27E-08	7.27E-08	4.04E-09	1.41E-03	3.16E-03	Nonresidential
665	360400	3798400	6.35E-08	7.36E-08	4.09E-09	1.43E-03	3.17E-03	Nonresidential
666	360450	3798400	6.37E-08	7.38E-08	4.10E-09	1.43E-03	3.16E-03	Nonresidential
667	360500	3798400	6.34E-08	7.35E-08	4.09E-09	1.43E-03	3.11E-03	Nonresidential
668	360550	3798400	6.28E-08	7.28E-08	4.04E-09	1.41E-03	3.04E-03	Nonresidential
669	360600	3798400	6.19E-08	7.17E-08	3.99E-09	1.39E-03	3.11E-03	Nonresidential
670	360650	3798400	6.09E-08	7.05E-08	3.92E-09	1.37E-03	3.05E-03	Nonresidential
671	360700	3798400	6.00E-08	6.95E-08	3.86E-09	1.35E-03	3.00E-03	Nonresidential
672	360750	3798400	5.95E-08	6.89E-08	3.83E-09	1.34E-03	2.94E-03	Nonresidential
673	360800	3798400	5.97E-08	6.92E-08	3.85E-09	1.34E-03	2.93E-03	Nonresidential
674	360850	3798400	6.12E-08	7.09E-08	3.94E-09	1.37E-03	2.91E-03	Nonresidential
675	360900	3798400	6.47E-08	7.50E-08	4.17E-09	1.45E-03	2.89E-03	Nonresidential
676	361850	3798400	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.50E-03	
677	361900	3798400	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.48E-03	
678	361950	3798400	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.45E-03	
679	362000	3798400	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.41E-03	
680	362050	3798400	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.36E-03	
681	362100	3798400	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.31E-03	
682	362150	3798400	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.26E-03	
683	362200	3798400	3.32E-08	3.84E-08	2.14E-09	7.45E-04	1.21E-03	
684	362250	3798400	3.31E-08	3.84E-08	2.14E-09	7.45E-04	1.15E-03	
685	362300	3798400	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.12E-03	
686	359750	3798450	4.21E-08	4.87E-08	2.71E-09	9.45E-04	3.19E-03	Nonresidential
687	359800	3798450	4.22E-08	4.89E-08	2.72E-09	9.48E-04	3.10E-03	Nonresidential
688	359850	3798450	4.28E-08	4.96E-08	2.76E-09	9.62E-04	3.15E-03	Nonresidential
689	359900	3798450	4.40E-08	5.10E-08	2.84E-09	9.89E-04	3.27E-03	Nonresidential
690	359950	3798450	4.58E-08	5.31E-08	2.95E-09	1.03E-03	3.35E-03	Nonresidential
691	360000	3798450	4.80E-08	5.56E-08	3.09E-09	1.08E-03	3.39E-03	Nonresidential
692	360050	3798450	5.05E-08	5.86E-08	3.25E-09	1.14E-03	3.38E-03	Nonresidential
693	360100	3798450	5.32E-08	6.17E-08	3.43E-09	1.20E-03	3.39E-03	Nonresidential
694	360150	3798450	5.59E-08	6.48E-08	3.60E-09	1.26E-03	3.36E-03	Nonresidential
695	360200	3798450	5.85E-08	6.78E-08	3.77E-09	1.31E-03	3.33E-03	Nonresidential
696	360250	3798450	6.07E-08	7.04E-08	3.91E-09	1.36E-03	3.33E-03	Nonresidential
697	360300	3798450	6.26E-08	7.25E-08	4.03E-09	1.41E-03	3.26E-03	Nonresidential
698	360350	3798450	6.38E-08	7.40E-08	4.11E-09	1.43E-03	3.28E-03	Nonresidential
699	360400	3798450	6.46E-08	7.49E-08	4.16E-09	1.45E-03	3.27E-03	Nonresidential
700	360450	3798450	6.48E-08	7.51E-08	4.17E-09	1.46E-03	3.25E-03	Nonresidential
701	360500	3798450	6.45E-08	7.47E-08	4.15E-09	1.45E-03	3.21E-03	Nonresidential
702	360550	3798450	6.37E-08	7.38E-08	4.11E-09	1.43E-03	3.14E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
703	360600	3798450	6.27E-08	7.26E-08	4.04E-09	1.41E-03	3.21E-03	Nonresidential
704	360650	3798450	6.14E-08	7.12E-08	3.96E-09	1.38E-03	3.15E-03	Nonresidential
705	360700	3798450	6.03E-08	6.98E-08	3.88E-09	1.35E-03	3.09E-03	Nonresidential
706	360750	3798450	5.94E-08	6.88E-08	3.83E-09	1.33E-03	3.04E-03	Nonresidential
707	360800	3798450	5.93E-08	6.87E-08	3.82E-09	1.33E-03	3.03E-03	Nonresidential
708	360850	3798450	6.05E-08	7.01E-08	3.90E-09	1.36E-03	2.99E-03	Nonresidential
709	360900	3798450	6.40E-08	7.42E-08	4.13E-09	1.44E-03	2.97E-03	Nonresidential
710	361850	3798450	3.41E-08	3.95E-08	2.19E-09	7.66E-04	1.53E-03	
711	361900	3798450	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.49E-03	
712	361950	3798450	3.37E-08	3.90E-08	2.17E-09	7.56E-04	1.45E-03	
713	362000	3798450	3.35E-08	3.89E-08	2.16E-09	7.54E-04	1.41E-03	
714	362050	3798450	3.34E-08	3.87E-08	2.15E-09	7.51E-04	1.36E-03	
715	362100	3798450	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.30E-03	
716	362150	3798450	3.33E-08	3.86E-08	2.15E-09	7.49E-04	1.25E-03	
717	362200	3798450	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.19E-03	
718	362250	3798450	3.33E-08	3.85E-08	2.14E-09	7.47E-04	1.14E-03	
719	362300	3798450	3.32E-08	3.85E-08	2.14E-09	7.47E-04	1.11E-03	
720	359650	3798500	4.31E-08	5.00E-08	2.78E-09	9.69E-04	3.35E-03	Nonresidential
721	359700	3798500	4.28E-08	4.96E-08	2.76E-09	9.61E-04	3.33E-03	Nonresidential
722	359750	3798500	4.24E-08	4.91E-08	2.73E-09	9.52E-04	3.30E-03	Nonresidential
723	359800	3798500	4.23E-08	4.91E-08	2.73E-09	9.51E-04	3.19E-03	Nonresidential
724	359850	3798500	4.29E-08	4.98E-08	2.77E-09	9.65E-04	3.20E-03	Nonresidential
725	359900	3798500	4.42E-08	5.13E-08	2.85E-09	9.94E-04	3.34E-03	Nonresidential
726	359950	3798500	4.61E-08	5.34E-08	2.97E-09	1.04E-03	3.45E-03	Nonresidential
727	360000	3798500	4.84E-08	5.61E-08	3.12E-09	1.09E-03	3.51E-03	Nonresidential
728	360050	3798500	5.11E-08	5.93E-08	3.29E-09	1.15E-03	3.50E-03	Nonresidential
729	360100	3798500	5.40E-08	6.26E-08	3.48E-09	1.21E-03	3.51E-03	Nonresidential
730	360150	3798500	5.68E-08	6.59E-08	3.66E-09	1.28E-03	3.49E-03	Nonresidential
731	360200	3798500	5.95E-08	6.90E-08	3.83E-09	1.34E-03	3.44E-03	Nonresidential
732	360250	3798500	6.19E-08	7.17E-08	3.99E-09	1.39E-03	3.44E-03	Nonresidential
733	360300	3798500	6.38E-08	7.39E-08	4.11E-09	1.43E-03	3.37E-03	Nonresidential
734	360350	3798500	6.51E-08	7.55E-08	4.19E-09	1.46E-03	3.39E-03	Nonresidential
735	360400	3798500	6.59E-08	7.63E-08	4.24E-09	1.48E-03	3.38E-03	Nonresidential
736	360450	3798500	6.60E-08	7.65E-08	4.25E-09	1.48E-03	3.36E-03	Nonresidential
737	360500	3798500	6.57E-08	7.61E-08	4.23E-09	1.48E-03	3.32E-03	Nonresidential
738	360550	3798500	6.48E-08	7.51E-08	4.18E-09	1.46E-03	3.33E-03	Nonresidential
739	360600	3798500	6.37E-08	7.38E-08	4.10E-09	1.43E-03	3.32E-03	Nonresidential
740	360650	3798500	6.23E-08	7.22E-08	4.01E-09	1.40E-03	3.24E-03	Nonresidential
741	360700	3798500	6.09E-08	7.05E-08	3.92E-09	1.37E-03	3.18E-03	Nonresidential
742	360750	3798500	5.96E-08	6.91E-08	3.84E-09	1.34E-03	3.15E-03	Nonresidential
743	360800	3798500	5.89E-08	6.82E-08	3.79E-09	1.32E-03	3.13E-03	Nonresidential
744	360850	3798500	6.08E-08	7.05E-08	3.92E-09	1.37E-03	3.07E-03	Nonresidential
745	361850	3798500	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.54E-03	
746	361900	3798500	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.50E-03	
747	361950	3798500	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.46E-03	
748	362000	3798500	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.40E-03	
749	362050	3798500	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.35E-03	
750	362100	3798500	3.34E-08	3.88E-08	2.15E-09	7.52E-04	1.29E-03	
751	362150	3798500	3.34E-08	3.87E-08	2.15E-09	7.51E-04	1.22E-03	
752	362200	3798500	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.17E-03	
753	362250	3798500	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.14E-03	
754	362300	3798500	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.13E-03	
755	359550	3798550	4.28E-08	4.96E-08	2.76E-09	9.62E-04	3.12E-03	Nonresidential
756	359600	3798550	4.41E-08	5.11E-08	2.84E-09	9.90E-04	3.39E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
757	359650	3798550	4.40E-08	5.10E-08	2.84E-09	9.89E-04	3.49E-03	Nonresidential
758	359700	3798550	4.33E-08	5.02E-08	2.79E-09	9.73E-04	3.44E-03	Nonresidential
759	359750	3798550	4.26E-08	4.94E-08	2.75E-09	9.58E-04	3.41E-03	Nonresidential
760	359800	3798550	4.25E-08	4.92E-08	2.74E-09	9.55E-04	3.30E-03	Nonresidential
761	359850	3798550	4.31E-08	5.00E-08	2.78E-09	9.69E-04	3.27E-03	Nonresidential
762	359900	3798550	4.45E-08	5.15E-08	2.87E-09	9.99E-04	3.41E-03	Nonresidential
763	359950	3798550	4.65E-08	5.39E-08	2.99E-09	1.04E-03	3.54E-03	Nonresidential
764	360000	3798550	4.90E-08	5.68E-08	3.16E-09	1.10E-03	3.63E-03	Nonresidential
765	360050	3798550	5.18E-08	6.01E-08	3.34E-09	1.16E-03	3.63E-03	Nonresidential
766	360100	3798550	5.49E-08	6.36E-08	3.54E-09	1.23E-03	3.64E-03	Nonresidential
767	360150	3798550	5.79E-08	6.71E-08	3.73E-09	1.30E-03	3.63E-03	Nonresidential
768	360200	3798550	6.07E-08	7.03E-08	3.91E-09	1.36E-03	3.57E-03	Nonresidential
769	360250	3798550	6.32E-08	7.32E-08	4.07E-09	1.42E-03	3.57E-03	Nonresidential
770	360300	3798550	6.51E-08	7.55E-08	4.20E-09	1.46E-03	3.50E-03	Nonresidential
771	360350	3798550	6.65E-08	7.71E-08	4.29E-09	1.50E-03	3.52E-03	Nonresidential
772	360400	3798550	6.73E-08	7.80E-08	4.34E-09	1.51E-03	3.49E-03	Nonresidential
773	360450	3798550	6.75E-08	7.82E-08	4.35E-09	1.52E-03	3.48E-03	Nonresidential
774	360500	3798550	6.71E-08	7.77E-08	4.32E-09	1.51E-03	3.43E-03	Nonresidential
775	360550	3798550	6.63E-08	7.69E-08	4.27E-09	1.49E-03	3.49E-03	Nonresidential
776	360600	3798550	6.50E-08	7.53E-08	4.19E-09	1.46E-03	3.44E-03	Nonresidential
777	360650	3798550	6.36E-08	7.37E-08	4.10E-09	1.43E-03	3.36E-03	Nonresidential
778	360700	3798550	6.20E-08	7.19E-08	4.00E-09	1.39E-03	3.29E-03	Nonresidential
779	360750	3798550	6.05E-08	7.01E-08	3.90E-09	1.36E-03	3.27E-03	Nonresidential
780	360800	3798550	5.91E-08	6.85E-08	3.81E-09	1.33E-03	3.22E-03	Nonresidential
781	360850	3798550	7.55E-08	8.75E-08	4.86E-09	1.70E-03	3.21E-03	Nonresidential
782	361850	3798550	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.56E-03	
783	361900	3798550	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.51E-03	
784	361950	3798550	3.38E-08	3.91E-08	2.17E-09	7.59E-04	1.45E-03	
785	362000	3798550	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.39E-03	
786	362050	3798550	3.36E-08	3.89E-08	2.16E-09	7.54E-04	1.33E-03	
787	362100	3798550	3.35E-08	3.89E-08	2.16E-09	7.53E-04	1.26E-03	
788	362150	3798550	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.19E-03	
789	362200	3798550	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.16E-03	
790	362250	3798550	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.17E-03	
791	362300	3798550	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.19E-03	
792	359500	3798600	4.15E-08	4.81E-08	2.67E-09	9.32E-04	2.78E-03	Nonresidential
793	359550	3798600	4.43E-08	5.13E-08	2.85E-09	9.94E-04	3.12E-03	Nonresidential
794	359600	3798600	4.54E-08	5.26E-08	2.92E-09	1.02E-03	3.41E-03	Nonresidential
795	359650	3798600	4.49E-08	5.20E-08	2.89E-09	1.01E-03	3.55E-03	Nonresidential
796	359700	3798600	4.38E-08	5.07E-08	2.82E-09	9.83E-04	3.57E-03	Nonresidential
797	359750	3798600	4.28E-08	4.96E-08	2.76E-09	9.62E-04	3.51E-03	Nonresidential
798	359800	3798600	4.26E-08	4.94E-08	2.75E-09	9.58E-04	3.43E-03	Nonresidential
799	359850	3798600	4.33E-08	5.02E-08	2.79E-09	9.73E-04	3.33E-03	Nonresidential
800	359900	3798600	4.48E-08	5.19E-08	2.89E-09	1.01E-03	3.47E-03	Nonresidential
801	359950	3798600	4.70E-08	5.44E-08	3.03E-09	1.06E-03	3.63E-03	Nonresidential
802	360000	3798600	4.96E-08	5.75E-08	3.20E-09	1.12E-03	3.76E-03	Nonresidential
803	360050	3798600	5.27E-08	6.11E-08	3.39E-09	1.18E-03	3.78E-03	Nonresidential
804	360100	3798600	5.59E-08	6.48E-08	3.60E-09	1.26E-03	3.78E-03	Nonresidential
805	360150	3798600	5.91E-08	6.84E-08	3.80E-09	1.33E-03	3.77E-03	Nonresidential
806	360200	3798600	6.20E-08	7.19E-08	4.00E-09	1.39E-03	3.69E-03	Nonresidential
807	360250	3798600	6.46E-08	7.49E-08	4.16E-09	1.45E-03	3.70E-03	Nonresidential
808	360300	3798600	6.67E-08	7.73E-08	4.30E-09	1.50E-03	3.62E-03	Nonresidential
809	360350	3798600	6.82E-08	7.90E-08	4.39E-09	1.53E-03	3.64E-03	Nonresidential
810	360400	3798600	6.90E-08	7.99E-08	4.44E-09	1.55E-03	3.62E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
811	360450	3798600	6.91E-08	8.01E-08	4.45E-09	1.55E-03	3.62E-03	Nonresidential
812	360500	3798600	6.87E-08	7.97E-08	4.43E-09	1.54E-03	3.65E-03	Nonresidential
813	360550	3798600	7.12E-08	8.26E-08	4.59E-09	1.60E-03	3.57E-03	Nonresidential
814	360700	3798600	6.46E-08	7.48E-08	4.16E-09	1.45E-03	3.54E-03	Nonresidential
815	360750	3798600	6.31E-08	7.32E-08	4.07E-09	1.42E-03	3.46E-03	Nonresidential
816	361850	3798600	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.56E-03	
817	361900	3798600	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.50E-03	
818	361950	3798600	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.44E-03	
819	362000	3798600	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.37E-03	
820	362050	3798600	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.30E-03	
821	362100	3798600	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.23E-03	
822	362150	3798600	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.19E-03	
823	362200	3798600	3.36E-08	3.89E-08	2.16E-09	7.54E-04	1.21E-03	
824	362250	3798600	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.22E-03	
825	362300	3798600	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.24E-03	
826	359250	3798650	2.76E-08	3.20E-08	1.78E-09	6.20E-04	2.98E-03	Nonresidential
827	359300	3798650	3.00E-08	3.48E-08	1.93E-09	6.74E-04	2.84E-03	Nonresidential
828	359350	3798650	3.21E-08	3.72E-08	2.07E-09	7.22E-04	2.93E-03	Nonresidential
829	359400	3798650	3.51E-08	4.07E-08	2.26E-09	7.89E-04	2.97E-03	Nonresidential
830	359450	3798650	3.88E-08	4.50E-08	2.50E-09	8.73E-04	2.80E-03	Nonresidential
831	359500	3798650	4.29E-08	4.97E-08	2.76E-09	9.63E-04	2.78E-03	Nonresidential
832	359550	3798650	4.59E-08	5.32E-08	2.96E-09	1.03E-03	3.10E-03	Nonresidential
833	359600	3798650	4.68E-08	5.42E-08	3.01E-09	1.05E-03	3.43E-03	Nonresidential
834	359650	3798650	4.58E-08	5.30E-08	2.95E-09	1.03E-03	3.62E-03	Nonresidential
835	359700	3798650	4.41E-08	5.11E-08	2.84E-09	9.91E-04	3.70E-03	Nonresidential
836	359750	3798650	4.29E-08	4.98E-08	2.77E-09	9.65E-04	3.64E-03	Nonresidential
837	359800	3798650	4.27E-08	4.95E-08	2.75E-09	9.61E-04	3.57E-03	Nonresidential
838	359850	3798650	4.36E-08	5.05E-08	2.81E-09	9.79E-04	3.44E-03	Nonresidential
839	359900	3798650	4.53E-08	5.24E-08	2.92E-09	1.02E-03	3.52E-03	Nonresidential
840	359950	3798650	4.76E-08	5.52E-08	3.07E-09	1.07E-03	3.72E-03	Nonresidential
841	360000	3798650	5.04E-08	5.85E-08	3.25E-09	1.13E-03	3.89E-03	Nonresidential
842	360050	3798650	5.36E-08	6.22E-08	3.46E-09	1.21E-03	3.93E-03	Nonresidential
843	360100	3798650	5.70E-08	6.61E-08	3.67E-09	1.28E-03	3.93E-03	Nonresidential
844	360150	3798650	6.04E-08	7.00E-08	3.89E-09	1.36E-03	3.92E-03	Nonresidential
845	360200	3798650	6.35E-08	7.36E-08	4.09E-09	1.43E-03	3.83E-03	Nonresidential
846	360250	3798650	6.63E-08	7.68E-08	4.27E-09	1.49E-03	3.83E-03	Nonresidential
847	360300	3798650	6.89E-08	7.98E-08	4.44E-09	1.55E-03	3.88E-03	Nonresidential
848	360350	3798650	7.00E-08	8.12E-08	4.51E-09	1.57E-03	3.85E-03	Nonresidential
849	360400	3798650	7.09E-08	8.22E-08	4.57E-09	1.59E-03	3.76E-03	Nonresidential
850	360450	3798650	7.11E-08	8.25E-08	4.58E-09	1.60E-03	3.76E-03	Nonresidential
851	360500	3798650	7.08E-08	8.21E-08	4.56E-09	1.59E-03	3.82E-03	Nonresidential
852	360550	3798650	7.31E-08	8.47E-08	4.71E-09	1.64E-03	3.70E-03	Nonresidential
853	361850	3798650	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.55E-03	
854	361900	3798650	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.49E-03	
855	361950	3798650	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.41E-03	
856	362000	3798650	3.38E-08	3.91E-08	2.17E-09	7.59E-04	1.34E-03	
857	362050	3798650	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.27E-03	
858	362100	3798650	3.37E-08	3.90E-08	2.17E-09	7.57E-04	1.23E-03	
859	362150	3798650	3.37E-08	3.90E-08	2.17E-09	7.57E-04	1.24E-03	
860	362200	3798650	3.37E-08	3.90E-08	2.17E-09	7.57E-04	1.26E-03	
861	362250	3798650	3.37E-08	3.90E-08	2.17E-09	7.57E-04	1.28E-03	
862	362300	3798650	3.37E-08	3.91E-08	2.17E-09	7.58E-04	1.28E-03	
863	359150	3798700	2.45E-08	2.84E-08	1.58E-09	5.51E-04	3.12E-03	Nonresidential
864	359200	3798700	2.60E-08	3.01E-08	1.67E-09	5.83E-04	3.29E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
865	359250	3798700	2.77E-08	3.21E-08	1.78E-09	6.22E-04	3.18E-03	Nonresidential
866	359300	3798700	2.99E-08	3.47E-08	1.93E-09	6.72E-04	3.05E-03	Nonresidential
867	359350	3798700	3.34E-08	3.87E-08	2.15E-09	7.50E-04	2.87E-03	Nonresidential
868	359400	3798700	3.57E-08	4.14E-08	2.30E-09	8.02E-04	3.10E-03	Nonresidential
869	359450	3798700	3.98E-08	4.61E-08	2.56E-09	8.94E-04	2.87E-03	Nonresidential
870	359500	3798700	4.44E-08	5.14E-08	2.86E-09	9.97E-04	2.80E-03	Nonresidential
871	359550	3798700	4.77E-08	5.53E-08	3.07E-09	1.07E-03	3.05E-03	Nonresidential
872	359600	3798700	4.82E-08	5.59E-08	3.11E-09	1.08E-03	3.42E-03	Nonresidential
873	359650	3798700	4.65E-08	5.39E-08	3.00E-09	1.04E-03	3.69E-03	Nonresidential
874	359700	3798700	4.43E-08	5.13E-08	2.85E-09	9.96E-04	3.81E-03	Nonresidential
875	359750	3798700	4.30E-08	4.98E-08	2.77E-09	9.66E-04	3.78E-03	Nonresidential
876	359800	3798700	4.29E-08	4.97E-08	2.76E-09	9.64E-04	3.70E-03	Nonresidential
877	359850	3798700	4.40E-08	5.09E-08	2.83E-09	9.88E-04	3.56E-03	Nonresidential
878	359900	3798700	4.58E-08	5.31E-08	2.95E-09	1.03E-03	3.59E-03	Nonresidential
879	359950	3798700	4.84E-08	5.61E-08	3.12E-09	1.09E-03	3.81E-03	Nonresidential
880	360000	3798700	5.14E-08	5.96E-08	3.31E-09	1.15E-03	4.02E-03	Nonresidential
881	360050	3798700	5.48E-08	6.35E-08	3.53E-09	1.23E-03	4.09E-03	Nonresidential
882	360100	3798700	5.83E-08	6.76E-08	3.76E-09	1.31E-03	4.09E-03	Nonresidential
883	360150	3798700	6.19E-08	7.17E-08	3.99E-09	1.39E-03	4.08E-03	Nonresidential
884	360200	3798700	6.52E-08	7.56E-08	4.20E-09	1.47E-03	4.05E-03	Nonresidential
885	360250	3798700	7.13E-08	8.26E-08	4.59E-09	1.60E-03	4.04E-03	Nonresidential
886	360300	3798700	7.41E-08	8.59E-08	4.77E-09	1.67E-03	3.99E-03	Nonresidential
887	360350	3798700	7.22E-08	8.36E-08	4.65E-09	1.62E-03	4.01E-03	Nonresidential
888	360400	3798700	7.32E-08	8.48E-08	4.71E-09	1.64E-03	4.01E-03	Nonresidential
889	360450	3798700	7.43E-08	8.62E-08	4.79E-09	1.67E-03	4.05E-03	Nonresidential
890	360500	3798700	7.75E-08	8.98E-08	4.99E-09	1.74E-03	3.93E-03	Nonresidential
891	361850	3798700	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.54E-03	
892	361900	3798700	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.46E-03	
893	361950	3798700	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.38E-03	
894	362000	3798700	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.30E-03	
895	362050	3798700	3.38E-08	3.91E-08	2.18E-09	7.59E-04	1.26E-03	
896	362100	3798700	3.38E-08	3.91E-08	2.17E-09	7.58E-04	1.28E-03	
897	362150	3798700	3.38E-08	3.91E-08	2.17E-09	7.58E-04	1.30E-03	
898	362200	3798700	3.38E-08	3.91E-08	2.18E-09	7.59E-04	1.32E-03	
899	362250	3798700	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.32E-03	
900	362300	3798700	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.33E-03	
901	359100	3798750	2.41E-08	2.79E-08	1.55E-09	5.41E-04	3.06E-03	Nonresidential
902	359150	3798750	2.46E-08	2.86E-08	1.59E-09	5.54E-04	3.18E-03	Nonresidential
903	359200	3798750	2.61E-08	3.02E-08	1.68E-09	5.86E-04	3.42E-03	Nonresidential
904	359250	3798750	2.78E-08	3.22E-08	1.79E-09	6.25E-04	3.43E-03	Nonresidential
905	359300	3798750	3.00E-08	3.48E-08	1.94E-09	6.75E-04	3.27E-03	Nonresidential
906	359350	3798750	3.28E-08	3.80E-08	2.11E-09	7.37E-04	3.10E-03	Nonresidential
907	359400	3798750	3.62E-08	4.20E-08	2.33E-09	8.14E-04	3.07E-03	Nonresidential
908	359450	3798750	4.07E-08	4.72E-08	2.62E-09	9.15E-04	2.99E-03	Nonresidential
909	359500	3798750	4.60E-08	5.33E-08	2.96E-09	1.03E-03	2.88E-03	Nonresidential
910	359550	3798750	4.97E-08	5.76E-08	3.20E-09	1.12E-03	2.98E-03	Nonresidential
911	359600	3798750	4.96E-08	5.75E-08	3.20E-09	1.12E-03	3.41E-03	Nonresidential
912	359650	3798750	4.70E-08	5.44E-08	3.03E-09	1.06E-03	3.73E-03	Nonresidential
913	359700	3798750	4.43E-08	5.13E-08	2.85E-09	9.95E-04	3.92E-03	Nonresidential
914	359750	3798750	4.30E-08	4.98E-08	2.77E-09	9.66E-04	3.93E-03	Nonresidential
915	359800	3798750	4.32E-08	5.01E-08	2.78E-09	9.71E-04	3.82E-03	Nonresidential
916	359850	3798750	4.45E-08	5.16E-08	2.87E-09	1.00E-03	3.70E-03	Nonresidential
917	359900	3798750	4.66E-08	5.40E-08	3.00E-09	1.05E-03	3.66E-03	Nonresidential
918	359950	3798750	4.93E-08	5.72E-08	3.18E-09	1.11E-03	3.93E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
919	360000	3798750	5.25E-08	6.08E-08	3.38E-09	1.18E-03	4.22E-03	Nonresidential
920	360050	3798750	5.60E-08	6.49E-08	3.61E-09	1.26E-03	4.34E-03	Nonresidential
921	360100	3798750	5.98E-08	6.93E-08	3.85E-09	1.34E-03	4.32E-03	Nonresidential
922	360150	3798750	6.35E-08	7.36E-08	4.09E-09	1.43E-03	4.35E-03	Nonresidential
923	360200	3798750	6.78E-08	7.86E-08	4.37E-09	1.52E-03	4.19E-03	Nonresidential
924	360250	3798750	7.90E-08	9.16E-08	5.09E-09	1.78E-03	4.12E-03	Nonresidential
925	360300	3798750	7.64E-08	8.85E-08	4.92E-09	1.72E-03	4.16E-03	Nonresidential
926	360350	3798750	7.73E-08	8.96E-08	4.98E-09	1.74E-03	4.15E-03	Nonresidential
927	360400	3798750	7.88E-08	9.13E-08	5.07E-09	1.77E-03	4.15E-03	Nonresidential
928	361850	3798750	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.51E-03	
929	361900	3798750	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.43E-03	
930	361950	3798750	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.34E-03	
931	362000	3798750	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.30E-03	
932	362050	3798750	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.32E-03	
933	362100	3798750	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.34E-03	
934	362150	3798750	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.36E-03	
935	362200	3798750	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.36E-03	
936	362250	3798750	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.37E-03	
937	362300	3798750	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.36E-03	
938	359050	3798800	2.50E-08	2.89E-08	1.61E-09	5.61E-04	3.22E-03	Nonresidential
939	359100	3798800	2.40E-08	2.78E-08	1.54E-09	5.39E-04	3.23E-03	Nonresidential
940	359150	3798800	2.48E-08	2.87E-08	1.60E-09	5.57E-04	3.22E-03	Nonresidential
941	359200	3798800	2.62E-08	3.03E-08	1.69E-09	5.88E-04	3.49E-03	Nonresidential
942	359250	3798800	2.79E-08	3.24E-08	1.80E-09	6.27E-04	3.46E-03	Nonresidential
943	359300	3798800	3.02E-08	3.50E-08	1.94E-09	6.78E-04	3.53E-03	Nonresidential
944	359350	3798800	3.30E-08	3.83E-08	2.13E-09	7.42E-04	3.39E-03	Nonresidential
945	359400	3798800	3.67E-08	4.25E-08	2.36E-09	8.24E-04	3.13E-03	Nonresidential
946	359450	3798800	4.15E-08	4.81E-08	2.68E-09	9.34E-04	2.92E-03	Nonresidential
947	359500	3798800	4.76E-08	5.51E-08	3.07E-09	1.07E-03	2.95E-03	Nonresidential
948	359550	3798800	5.17E-08	5.99E-08	3.33E-09	1.16E-03	2.96E-03	Nonresidential
949	359600	3798800	5.08E-08	5.89E-08	3.27E-09	1.14E-03	3.36E-03	Nonresidential
950	359650	3798800	4.70E-08	5.45E-08	3.03E-09	1.06E-03	3.75E-03	Nonresidential
951	359700	3798800	4.41E-08	5.11E-08	2.84E-09	9.90E-04	4.01E-03	Nonresidential
952	359750	3798800	4.31E-08	4.99E-08	2.78E-09	9.68E-04	4.08E-03	Nonresidential
953	359800	3798800	4.37E-08	5.06E-08	2.81E-09	9.81E-04	3.98E-03	Nonresidential
954	359850	3798800	4.53E-08	5.25E-08	2.92E-09	1.02E-03	3.87E-03	Nonresidential
955	359900	3798800	4.76E-08	5.52E-08	3.07E-09	1.07E-03	3.75E-03	Nonresidential
956	359950	3798800	5.06E-08	5.86E-08	3.26E-09	1.14E-03	4.00E-03	Nonresidential
957	360000	3798800	5.83E-08	6.75E-08	3.75E-09	1.31E-03	4.30E-03	Nonresidential
958	360050	3798800	6.04E-08	6.99E-08	3.89E-09	1.36E-03	4.42E-03	Nonresidential
959	360100	3798800	6.43E-08	7.46E-08	4.14E-09	1.45E-03	4.45E-03	Nonresidential
960	360150	3798800	7.60E-08	8.81E-08	4.90E-09	1.71E-03	4.43E-03	Nonresidential
961	360200	3798800	8.01E-08	9.29E-08	5.16E-09	1.80E-03	4.30E-03	Nonresidential
962	360250	3798800	8.47E-08	9.81E-08	5.46E-09	1.90E-03	4.28E-03	Nonresidential
963	360300	3798800	8.07E-08	9.36E-08	5.20E-09	1.81E-03	4.30E-03	Nonresidential
964	361850	3798800	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.47E-03	
965	361900	3798800	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.38E-03	
966	361950	3798800	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.34E-03	
967	362000	3798800	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.36E-03	
968	362050	3798800	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.38E-03	
969	362100	3798800	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.40E-03	
970	362150	3798800	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.41E-03	
971	362200	3798800	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.41E-03	
972	362250	3798800	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.40E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
973	362300	3798800	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.39E-03	
974	359000	3798850	2.28E-08	2.65E-08	1.47E-09	5.13E-04	3.17E-03	Nonresidential
975	359050	3798850	2.52E-08	2.92E-08	1.62E-09	5.66E-04	3.30E-03	Nonresidential
976	359100	3798850	2.62E-08	3.03E-08	1.68E-09	5.88E-04	3.37E-03	Nonresidential
977	359150	3798850	2.55E-08	2.95E-08	1.64E-09	5.73E-04	3.35E-03	Nonresidential
978	359200	3798850	2.64E-08	3.06E-08	1.70E-09	5.92E-04	3.48E-03	Nonresidential
979	359250	3798850	2.80E-08	3.25E-08	1.81E-09	6.30E-04	3.68E-03	Nonresidential
980	359300	3798850	3.02E-08	3.50E-08	1.95E-09	6.79E-04	3.62E-03	Nonresidential
981	359350	3798850	3.31E-08	3.84E-08	2.13E-09	7.44E-04	3.57E-03	Nonresidential
982	359400	3798850	3.69E-08	4.28E-08	2.38E-09	8.30E-04	3.44E-03	Nonresidential
983	359450	3798850	4.21E-08	4.88E-08	2.72E-09	9.47E-04	3.13E-03	Nonresidential
984	359500	3798850	4.91E-08	5.69E-08	3.16E-09	1.10E-03	2.98E-03	Nonresidential
985	359550	3798850	5.36E-08	6.22E-08	3.46E-09	1.21E-03	2.95E-03	Nonresidential
986	359600	3798850	5.14E-08	5.95E-08	3.31E-09	1.15E-03	3.29E-03	Nonresidential
987	359650	3798850	4.66E-08	5.40E-08	3.00E-09	1.05E-03	3.75E-03	Nonresidential
988	359700	3798850	4.37E-08	5.07E-08	2.82E-09	9.83E-04	4.07E-03	Nonresidential
989	359750	3798850	4.33E-08	5.02E-08	2.79E-09	9.74E-04	4.22E-03	Nonresidential
990	359800	3798850	4.44E-08	5.15E-08	2.86E-09	9.98E-04	4.14E-03	Nonresidential
991	359850	3798850	4.74E-08	5.50E-08	3.06E-09	1.07E-03	4.08E-03	Nonresidential
992	359900	3798850	5.46E-08	6.33E-08	3.52E-09	1.23E-03	3.95E-03	Nonresidential
993	359950	3798850	5.55E-08	6.44E-08	3.58E-09	1.25E-03	4.14E-03	Nonresidential
994	360000	3798850	6.57E-08	7.61E-08	4.23E-09	1.48E-03	4.43E-03	Nonresidential
995	361850	3798850	3.40E-08	3.94E-08	2.19E-09	7.65E-04	1.43E-03	
996	361900	3798850	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.38E-03	
997	361950	3798850	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.40E-03	
998	362000	3798850	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.43E-03	
999	362050	3798850	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.44E-03	
1000	362100	3798850	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.45E-03	
1001	362150	3798850	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.45E-03	
1002	362200	3798850	3.41E-08	3.95E-08	2.19E-09	7.66E-04	1.44E-03	
1003	362250	3798850	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.43E-03	
1004	362300	3798850	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.41E-03	
1005	358950	3798900	2.22E-08	2.57E-08	1.43E-09	4.98E-04	2.91E-03	Nonresidential
1006	359000	3798900	2.26E-08	2.62E-08	1.46E-09	5.08E-04	3.15E-03	Nonresidential
1007	359050	3798900	2.40E-08	2.78E-08	1.54E-09	5.39E-04	3.34E-03	Nonresidential
1008	359100	3798900	2.62E-08	3.04E-08	1.69E-09	5.89E-04	3.47E-03	Nonresidential
1009	359150	3798900	2.65E-08	3.07E-08	1.71E-09	5.95E-04	3.51E-03	Nonresidential
1010	359200	3798900	2.66E-08	3.09E-08	1.72E-09	5.99E-04	3.49E-03	Nonresidential
1011	359250	3798900	2.82E-08	3.27E-08	1.82E-09	6.34E-04	3.73E-03	Nonresidential
1012	359300	3798900	3.03E-08	3.51E-08	1.95E-09	6.80E-04	3.77E-03	Nonresidential
1013	359350	3798900	3.31E-08	3.83E-08	2.13E-09	7.43E-04	3.78E-03	Nonresidential
1014	359400	3798900	3.69E-08	4.28E-08	2.38E-09	8.30E-04	3.67E-03	Nonresidential
1015	359450	3798900	4.24E-08	4.91E-08	2.73E-09	9.52E-04	3.43E-03	Nonresidential
1016	359500	3798900	5.03E-08	5.83E-08	3.24E-09	1.13E-03	3.09E-03	Nonresidential
1017	359550	3798900	5.52E-08	6.39E-08	3.55E-09	1.24E-03	3.01E-03	Nonresidential
1018	359600	3798900	5.10E-08	5.91E-08	3.29E-09	1.15E-03	3.18E-03	Nonresidential
1019	359650	3798900	4.56E-08	5.28E-08	2.94E-09	1.02E-03	3.70E-03	Nonresidential
1020	359700	3798900	4.36E-08	5.05E-08	2.81E-09	9.79E-04	4.11E-03	Nonresidential
1021	359750	3798900	4.40E-08	5.10E-08	2.83E-09	9.89E-04	4.38E-03	Nonresidential
1022	359800	3798900	4.64E-08	5.38E-08	2.99E-09	1.04E-03	4.36E-03	Nonresidential
1023	359850	3798900	5.25E-08	6.09E-08	3.38E-09	1.18E-03	4.13E-03	Nonresidential
1024	359900	3798900	5.81E-08	6.74E-08	3.75E-09	1.31E-03	4.00E-03	Nonresidential
1025	361850	3798900	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.42E-03	
1026	361900	3798900	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.45E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1027	361950	3798900	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.47E-03	
1028	362000	3798900	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.49E-03	
1029	362050	3798900	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.49E-03	
1030	362100	3798900	3.40E-08	3.95E-08	2.19E-09	7.65E-04	1.49E-03	
1031	362150	3798900	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.48E-03	
1032	362200	3798900	3.42E-08	3.96E-08	2.20E-09	7.67E-04	1.46E-03	
1033	362250	3798900	3.42E-08	3.97E-08	2.20E-09	7.69E-04	1.44E-03	
1034	362300	3798900	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.41E-03	
1035	358950	3798950	2.23E-08	2.59E-08	1.44E-09	5.02E-04	2.79E-03	Nonresidential
1036	359000	3798950	2.31E-08	2.67E-08	1.49E-09	5.19E-04	3.08E-03	Nonresidential
1037	359050	3798950	2.39E-08	2.77E-08	1.54E-09	5.37E-04	3.33E-03	Nonresidential
1038	359100	3798950	2.53E-08	2.93E-08	1.63E-09	5.68E-04	3.52E-03	Nonresidential
1039	359150	3798950	2.59E-08	3.00E-08	1.67E-09	5.82E-04	3.64E-03	Nonresidential
1040	359200	3798950	2.71E-08	3.14E-08	1.75E-09	6.09E-04	3.67E-03	Nonresidential
1041	359250	3798950	2.86E-08	3.31E-08	1.84E-09	6.42E-04	3.74E-03	Nonresidential
1042	359300	3798950	3.04E-08	3.52E-08	1.96E-09	6.83E-04	3.87E-03	Nonresidential
1043	359350	3798950	3.29E-08	3.82E-08	2.12E-09	7.40E-04	3.96E-03	Nonresidential
1044	359400	3798950	3.66E-08	4.24E-08	2.36E-09	8.22E-04	3.92E-03	Nonresidential
1045	359450	3798950	4.20E-08	4.87E-08	2.71E-09	9.44E-04	3.74E-03	Nonresidential
1046	359500	3798950	5.07E-08	5.87E-08	3.26E-09	1.14E-03	3.42E-03	Nonresidential
1047	359550	3798950	5.56E-08	6.45E-08	3.58E-09	1.25E-03	3.08E-03	Nonresidential
1048	359600	3798950	4.93E-08	5.72E-08	3.18E-09	1.11E-03	3.12E-03	Nonresidential
1049	359650	3798950	4.45E-08	5.16E-08	2.87E-09	1.00E-03	3.63E-03	Nonresidential
1050	359700	3798950	4.40E-08	5.10E-08	2.83E-09	9.88E-04	4.12E-03	Nonresidential
1051	359750	3798950	4.53E-08	5.25E-08	2.92E-09	1.02E-03	4.47E-03	Nonresidential
1052	359800	3798950	5.19E-08	6.01E-08	3.34E-09	1.17E-03	4.49E-03	Nonresidential
1053	361850	3798950	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.49E-03	
1054	361900	3798950	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.52E-03	
1055	361950	3798950	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.53E-03	
1056	362000	3798950	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.54E-03	
1057	362050	3798950	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.53E-03	
1058	362100	3798950	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.52E-03	
1059	362150	3798950	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.50E-03	
1060	362200	3798950	3.42E-08	3.97E-08	2.21E-09	7.69E-04	1.48E-03	
1061	362250	3798950	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.45E-03	
1062	362300	3798950	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.41E-03	
1063	358950	3799000	2.29E-08	2.65E-08	1.47E-09	5.14E-04	2.63E-03	Nonresidential
1064	359000	3799000	2.36E-08	2.74E-08	1.52E-09	5.31E-04	2.96E-03	Nonresidential
1065	359050	3799000	2.45E-08	2.84E-08	1.58E-09	5.51E-04	3.26E-03	Nonresidential
1066	359100	3799000	2.55E-08	2.95E-08	1.64E-09	5.73E-04	3.53E-03	Nonresidential
1067	359150	3799000	2.66E-08	3.08E-08	1.71E-09	5.98E-04	3.79E-03	Nonresidential
1068	359200	3799000	2.78E-08	3.23E-08	1.79E-09	6.25E-04	3.89E-03	Nonresidential
1069	359250	3799000	2.92E-08	3.39E-08	1.88E-09	6.57E-04	3.81E-03	Nonresidential
1070	359300	3799000	3.09E-08	3.58E-08	1.99E-09	6.94E-04	3.92E-03	Nonresidential
1071	359350	3799000	3.30E-08	3.83E-08	2.13E-09	7.42E-04	4.11E-03	Nonresidential
1072	359400	3799000	3.61E-08	4.18E-08	2.33E-09	8.11E-04	4.15E-03	Nonresidential
1073	359450	3799000	4.09E-08	4.74E-08	2.63E-09	9.19E-04	4.04E-03	Nonresidential
1074	359500	3799000	4.94E-08	5.72E-08	3.18E-09	1.11E-03	3.77E-03	Nonresidential
1075	359550	3799000	5.38E-08	6.23E-08	3.47E-09	1.21E-03	3.36E-03	Nonresidential
1076	359600	3799000	4.66E-08	5.40E-08	3.00E-09	1.05E-03	3.61E-03	Nonresidential
1077	359650	3799000	4.43E-08	5.13E-08	2.85E-09	9.95E-04	3.51E-03	Nonresidential
1078	359700	3799000	4.67E-08	5.42E-08	3.01E-09	1.05E-03	4.08E-03	Nonresidential
1079	359750	3799000	5.30E-08	6.14E-08	3.41E-09	1.19E-03	4.49E-03	Nonresidential
1080	359800	3799000	5.93E-08	6.87E-08	3.82E-09	1.33E-03	4.65E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1081	359850	3799000	5.74E-08	6.65E-08	3.70E-09	1.29E-03	4.51E-03	Nonresidential
1082	361850	3799000	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.56E-03	
1083	361900	3799000	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.58E-03	
1084	361950	3799000	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.58E-03	
1085	362000	3799000	3.41E-08	3.95E-08	2.19E-09	7.66E-04	1.58E-03	
1086	362050	3799000	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.56E-03	
1087	362100	3799000	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.54E-03	
1088	362150	3799000	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.51E-03	
1089	362200	3799000	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.48E-03	
1090	362250	3799000	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.44E-03	
1091	362300	3799000	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.40E-03	
1092	358900	3799050	2.27E-08	2.64E-08	1.46E-09	5.11E-04	2.08E-03	
1093	358950	3799050	2.35E-08	2.72E-08	1.51E-09	5.28E-04	2.42E-03	
1094	359000	3799050	2.43E-08	2.82E-08	1.57E-09	5.47E-04	2.78E-03	Nonresidential
1095	359050	3799050	2.53E-08	2.93E-08	1.63E-09	5.68E-04	3.14E-03	Nonresidential
1096	359100	3799050	2.64E-08	3.06E-08	1.70E-09	5.93E-04	3.48E-03	Nonresidential
1097	359150	3799050	2.76E-08	3.20E-08	1.78E-09	6.20E-04	3.73E-03	Nonresidential
1098	359200	3799050	2.89E-08	3.35E-08	1.86E-09	6.50E-04	3.92E-03	Nonresidential
1099	359250	3799050	3.04E-08	3.52E-08	1.96E-09	6.83E-04	4.00E-03	Nonresidential
1100	359300	3799050	3.20E-08	3.71E-08	2.06E-09	7.19E-04	3.99E-03	Nonresidential
1101	359350	3799050	3.38E-08	3.92E-08	2.18E-09	7.59E-04	4.24E-03	Nonresidential
1102	359400	3799050	3.60E-08	4.17E-08	2.32E-09	8.09E-04	4.37E-03	Nonresidential
1103	359450	3799050	3.93E-08	4.55E-08	2.53E-09	8.82E-04	4.39E-03	Nonresidential
1104	359500	3799050	4.52E-08	5.24E-08	2.91E-09	1.02E-03	4.12E-03	Nonresidential
1105	359550	3799050	4.83E-08	5.60E-08	3.11E-09	1.09E-03	3.75E-03	Nonresidential
1106	359600	3799050	4.46E-08	5.17E-08	2.88E-09	1.00E-03	3.86E-03	Nonresidential
1107	359650	3799050	4.77E-08	5.53E-08	3.08E-09	1.07E-03	3.89E-03	Nonresidential
1108	359700	3799050	5.53E-08	6.41E-08	3.56E-09	1.24E-03	4.00E-03	Nonresidential
1109	359750	3799050	5.77E-08	6.69E-08	3.72E-09	1.30E-03	4.52E-03	Nonresidential
1110	359800	3799050	5.71E-08	6.62E-08	3.68E-09	1.28E-03	4.78E-03	Nonresidential
1111	359850	3799050	5.53E-08	6.41E-08	3.56E-09	1.24E-03	4.80E-03	Nonresidential
1112	359900	3799050	5.56E-08	6.44E-08	3.58E-09	1.25E-03	4.70E-03	Nonresidential
1113	361750	3799050	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.58E-03	
1114	361800	3799050	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.61E-03	
1115	361850	3799050	3.39E-08	3.93E-08	2.19E-09	7.63E-04	1.62E-03	
1116	361900	3799050	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.63E-03	
1117	361950	3799050	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.62E-03	
1118	362000	3799050	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.60E-03	
1119	362050	3799050	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.58E-03	
1120	362100	3799050	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.55E-03	
1121	362150	3799050	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.51E-03	
1122	362200	3799050	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.47E-03	
1123	362250	3799050	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.42E-03	
1124	362300	3799050	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.38E-03	
1125	358900	3799100	2.34E-08	2.72E-08	1.51E-09	5.27E-04	1.86E-03	
1126	358950	3799100	2.43E-08	2.81E-08	1.56E-09	5.46E-04	2.18E-03	
1127	359000	3799100	2.52E-08	2.92E-08	1.63E-09	5.67E-04	2.56E-03	
1128	359050	3799100	2.63E-08	3.05E-08	1.70E-09	5.91E-04	2.95E-03	Nonresidential
1129	359100	3799100	2.76E-08	3.19E-08	1.78E-09	6.19E-04	3.33E-03	Nonresidential
1130	359150	3799100	2.90E-08	3.36E-08	1.87E-09	6.51E-04	3.67E-03	Nonresidential
1131	359200	3799100	3.05E-08	3.54E-08	1.97E-09	6.86E-04	3.95E-03	Nonresidential
1132	359250	3799100	3.22E-08	3.74E-08	2.08E-09	7.24E-04	4.13E-03	Nonresidential
1133	359300	3799100	3.41E-08	3.95E-08	2.20E-09	7.66E-04	4.23E-03	Nonresidential
1134	359350	3799100	3.59E-08	4.16E-08	2.31E-09	8.07E-04	4.23E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1135	359400	3799100	3.75E-08	4.35E-08	2.42E-09	8.43E-04	4.54E-03	Nonresidential
1136	359450	3799100	3.83E-08	4.44E-08	2.47E-09	8.62E-04	4.57E-03	Nonresidential
1137	359500	3799100	3.90E-08	4.52E-08	2.51E-09	8.76E-04	4.46E-03	Nonresidential
1138	359550	3799100	4.19E-08	4.86E-08	2.70E-09	9.42E-04	4.16E-03	Nonresidential
1139	359600	3799100	4.71E-08	5.46E-08	3.04E-09	1.06E-03	4.02E-03	Nonresidential
1140	359650	3799100	5.38E-08	6.23E-08	3.46E-09	1.21E-03	3.73E-03	Nonresidential
1141	359700	3799100	5.37E-08	6.23E-08	3.46E-09	1.21E-03	3.94E-03	Nonresidential
1142	359750	3799100	5.30E-08	6.14E-08	3.41E-09	1.19E-03	4.49E-03	Nonresidential
1143	359800	3799100	5.35E-08	6.20E-08	3.45E-09	1.20E-03	4.93E-03	Nonresidential
1144	359850	3799100	5.45E-08	6.32E-08	3.51E-09	1.22E-03	5.11E-03	Nonresidential
1145	359900	3799100	5.57E-08	6.45E-08	3.59E-09	1.25E-03	4.76E-03	Nonresidential
1146	359950	3799100	5.88E-08	6.82E-08	3.79E-09	1.32E-03	4.73E-03	Nonresidential
1147	361700	3799100	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.63E-03	
1148	361750	3799100	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.66E-03	
1149	361800	3799100	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.67E-03	
1150	361850	3799100	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.67E-03	
1151	361900	3799100	3.40E-08	3.94E-08	2.19E-09	7.65E-04	1.66E-03	
1152	361950	3799100	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.64E-03	
1153	362000	3799100	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.62E-03	
1154	362050	3799100	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.58E-03	
1155	362100	3799100	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.54E-03	
1156	362150	3799100	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.50E-03	
1157	362200	3799100	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.45E-03	
1158	362250	3799100	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.39E-03	
1159	362300	3799100	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.34E-03	
1160	358900	3799150	2.43E-08	2.82E-08	1.57E-09	5.47E-04	1.95E-03	
1161	358950	3799150	2.53E-08	2.93E-08	1.63E-09	5.68E-04	1.96E-03	
1162	359000	3799150	2.64E-08	3.06E-08	1.70E-09	5.93E-04	2.29E-03	
1163	359050	3799150	2.77E-08	3.21E-08	1.78E-09	6.22E-04	2.71E-03	Nonresidential
1164	359100	3799150	2.92E-08	3.38E-08	1.88E-09	6.55E-04	3.13E-03	Nonresidential
1165	359150	3799150	3.09E-08	3.58E-08	1.99E-09	6.95E-04	3.54E-03	Nonresidential
1166	359200	3799150	3.29E-08	3.82E-08	2.12E-09	7.40E-04	3.91E-03	Nonresidential
1167	359250	3799150	3.52E-08	4.08E-08	2.27E-09	7.92E-04	4.23E-03	Nonresidential
1168	359300	3799150	3.79E-08	4.39E-08	2.44E-09	8.51E-04	4.40E-03	Nonresidential
1169	359350	3799150	4.07E-08	4.72E-08	2.62E-09	9.15E-04	4.36E-03	Nonresidential
1170	361700	3799150	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.70E-03	
1171	361750	3799150	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.72E-03	
1172	361800	3799150	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.72E-03	
1173	361850	3799150	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.71E-03	
1174	361900	3799150	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.68E-03	
1175	361950	3799150	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.65E-03	
1176	362000	3799150	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.61E-03	
1177	362050	3799150	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.57E-03	
1178	362100	3799150	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.52E-03	
1179	362150	3799150	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.47E-03	
1180	362200	3799150	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.41E-03	
1181	362250	3799150	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.35E-03	
1182	358800	3799200	2.36E-08	2.73E-08	1.52E-09	5.30E-04	1.73E-03	
1183	358850	3799200	2.44E-08	2.83E-08	1.57E-09	5.49E-04	1.89E-03	
1184	358900	3799200	2.54E-08	2.94E-08	1.64E-09	5.70E-04	2.01E-03	
1185	358950	3799200	2.65E-08	3.07E-08	1.71E-09	5.96E-04	2.07E-03	
1186	359000	3799200	2.78E-08	3.23E-08	1.79E-09	6.26E-04	2.07E-03	
1187	359050	3799200	2.94E-08	3.41E-08	1.90E-09	6.61E-04	2.41E-03	
1188	359100	3799200	3.14E-08	3.63E-08	2.02E-09	7.05E-04	2.86E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1189	359150	3799200	3.37E-08	3.90E-08	2.17E-09	7.57E-04	3.32E-03	Nonresidential
1190	359200	3799200	3.65E-08	4.23E-08	2.35E-09	8.20E-04	3.76E-03	Nonresidential
1191	359250	3799200	4.00E-08	4.64E-08	2.58E-09	8.99E-04	4.15E-03	Nonresidential
1192	359300	3799200	4.45E-08	5.16E-08	2.87E-09	1.00E-03	4.43E-03	Nonresidential
1193	359350	3799200	5.45E-08	6.32E-08	3.51E-09	1.23E-03	4.57E-03	Nonresidential
1194	361650	3799200	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.75E-03	
1195	361700	3799200	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.76E-03	
1196	361750	3799200	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.76E-03	
1197	361800	3799200	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.75E-03	
1198	361850	3799200	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.72E-03	
1199	361900	3799200	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.68E-03	
1200	361950	3799200	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.64E-03	
1201	362000	3799200	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.59E-03	
1202	362050	3799200	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.54E-03	
1203	362100	3799200	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.48E-03	
1204	362150	3799200	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.43E-03	
1205	362200	3799200	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.39E-03	
1206	362250	3799200	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.35E-03	
1207	358750	3799250	2.37E-08	2.75E-08	1.53E-09	5.33E-04	1.38E-03	
1208	358800	3799250	2.46E-08	2.85E-08	1.58E-09	5.52E-04	1.59E-03	
1209	358850	3799250	2.55E-08	2.96E-08	1.64E-09	5.74E-04	1.80E-03	
1210	358900	3799250	2.67E-08	3.09E-08	1.72E-09	6.00E-04	1.99E-03	
1211	358950	3799250	2.85E-08	3.31E-08	1.84E-09	6.42E-04	2.15E-03	
1212	359000	3799250	2.97E-08	3.44E-08	1.91E-09	6.67E-04	2.19E-03	
1213	359050	3799250	3.17E-08	3.68E-08	2.04E-09	7.13E-04	2.18E-03	
1214	359100	3799250	3.42E-08	3.97E-08	2.21E-09	7.69E-04	2.54E-03	
1215	359150	3799250	3.74E-08	4.34E-08	2.41E-09	8.41E-04	3.03E-03	Nonresidential
1216	359200	3799250	4.16E-08	4.82E-08	2.68E-09	9.34E-04	3.53E-03	Nonresidential
1217	359250	3799250	5.05E-08	5.85E-08	3.25E-09	1.14E-03	4.01E-03	Nonresidential
1218	359300	3799250	5.99E-08	6.94E-08	3.86E-09	1.35E-03	4.41E-03	Nonresidential
1219	359350	3799250	7.98E-08	9.24E-08	5.14E-09	1.79E-03	4.68E-03	Nonresidential
1220	361450	3799250	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.96E-03	
1221	361500	3799250	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.80E-03	
1222	361550	3799250	3.38E-08	3.92E-08	2.18E-09	7.61E-04	1.77E-03	
1223	361600	3799250	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.80E-03	
1224	361650	3799250	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.81E-03	
1225	361700	3799250	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.80E-03	
1226	361750	3799250	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.79E-03	
1227	361800	3799250	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.76E-03	
1228	361850	3799250	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.72E-03	
1229	361900	3799250	3.42E-08	3.97E-08	2.21E-09	7.70E-04	1.67E-03	
1230	361950	3799250	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.61E-03	
1231	362000	3799250	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.57E-03	
1232	362050	3799250	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.53E-03	
1233	362100	3799250	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.49E-03	
1234	362150	3799250	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.44E-03	
1235	362200	3799250	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.40E-03	
1236	358750	3799300	2.47E-08	2.86E-08	1.59E-09	5.55E-04	1.31E-03	
1237	358800	3799300	2.57E-08	2.97E-08	1.65E-09	5.77E-04	1.40E-03	
1238	358850	3799300	2.68E-08	3.11E-08	1.73E-09	6.02E-04	1.64E-03	
1239	358900	3799300	2.82E-08	3.27E-08	1.82E-09	6.33E-04	1.87E-03	
1240	358950	3799300	3.05E-08	3.54E-08	1.97E-09	6.86E-04	2.09E-03	
1241	359000	3799300	3.19E-08	3.70E-08	2.06E-09	7.17E-04	2.24E-03	
1242	359050	3799300	3.45E-08	4.00E-08	2.22E-09	7.76E-04	2.33E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1243	359100	3799300	3.79E-08	4.39E-08	2.44E-09	8.51E-04	2.32E-03	
1244	359150	3799300	4.23E-08	4.90E-08	2.72E-09	9.49E-04	2.67E-03	Nonresidential
1245	359200	3799300	5.12E-08	5.94E-08	3.30E-09	1.15E-03	3.21E-03	Nonresidential
1246	359250	3799300	6.16E-08	7.14E-08	3.97E-09	1.39E-03	3.76E-03	Nonresidential
1247	359300	3799300	6.93E-08	8.03E-08	4.46E-09	1.56E-03	4.27E-03	Nonresidential
1248	359350	3799300	7.93E-08	9.19E-08	5.11E-09	1.78E-03	4.68E-03	Nonresidential
1249	361400	3799300	3.42E-08	3.96E-08	2.20E-09	7.67E-04	2.06E-03	
1250	361450	3799300	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.86E-03	
1251	361500	3799300	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.81E-03	
1252	361550	3799300	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.84E-03	
1253	361600	3799300	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.85E-03	
1254	361650	3799300	3.39E-08	3.93E-08	2.19E-09	7.62E-04	1.84E-03	
1255	361700	3799300	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.82E-03	
1256	361750	3799300	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.79E-03	
1257	361800	3799300	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.74E-03	
1258	361850	3799300	3.42E-08	3.97E-08	2.21E-09	7.70E-04	1.71E-03	
1259	361900	3799300	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.67E-03	
1260	361950	3799300	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.63E-03	
1261	362000	3799300	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.59E-03	
1262	362050	3799300	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.55E-03	
1263	362100	3799300	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.50E-03	
1264	362150	3799300	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.44E-03	
1265	362200	3799300	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.39E-03	
1266	358700	3799350	2.49E-08	2.89E-08	1.61E-09	5.60E-04	1.47E-03	
1267	358750	3799350	2.58E-08	2.99E-08	1.66E-09	5.80E-04	1.37E-03	
1268	358800	3799350	2.69E-08	3.12E-08	1.73E-09	6.05E-04	1.39E-03	
1269	358850	3799350	2.83E-08	3.28E-08	1.82E-09	6.36E-04	1.43E-03	
1270	358900	3799350	2.99E-08	3.47E-08	1.93E-09	6.73E-04	1.68E-03	
1271	358950	3799350	3.22E-08	3.73E-08	2.07E-09	7.24E-04	1.94E-03	
1272	359000	3799350	3.46E-08	4.01E-08	2.23E-09	7.77E-04	2.18E-03	
1273	359050	3799350	3.79E-08	4.39E-08	2.44E-09	8.51E-04	2.39E-03	
1274	359100	3799350	4.21E-08	4.88E-08	2.71E-09	9.47E-04	2.50E-03	
1275	359150	3799350	4.77E-08	5.53E-08	3.07E-09	1.07E-03	2.52E-03	
1276	359200	3799350	6.00E-08	6.95E-08	3.86E-09	1.35E-03	3.10E-03	Nonresidential
1277	359250	3799350	6.53E-08	7.57E-08	4.21E-09	1.47E-03	3.40E-03	Nonresidential
1278	359300	3799350	7.52E-08	8.71E-08	4.84E-09	1.69E-03	4.00E-03	Nonresidential
1279	359350	3799350	8.48E-08	9.83E-08	5.46E-09	1.91E-03	4.54E-03	Nonresidential
1280	361400	3799350	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.94E-03	
1281	361450	3799350	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.85E-03	
1282	361500	3799350	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.88E-03	
1283	361550	3799350	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.89E-03	
1284	361600	3799350	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.88E-03	
1285	361650	3799350	3.40E-08	3.95E-08	2.19E-09	7.65E-04	1.85E-03	
1286	361700	3799350	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.83E-03	
1287	361750	3799350	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.81E-03	
1288	361800	3799350	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.78E-03	
1289	361850	3799350	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.75E-03	
1290	361900	3799350	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.70E-03	
1291	361950	3799350	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.66E-03	
1292	362000	3799350	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.60E-03	
1293	362050	3799350	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.55E-03	
1294	362100	3799350	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.49E-03	
1295	362150	3799350	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.43E-03	
1296	358650	3799400	2.56E-08	2.96E-08	1.65E-09	5.74E-04	1.78E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1297	358700	3799400	2.64E-08	3.06E-08	1.70E-09	5.94E-04	1.71E-03	
1298	358750	3799400	2.72E-08	3.16E-08	1.75E-09	6.12E-04	1.60E-03	
1299	358800	3799400	2.87E-08	3.33E-08	1.85E-09	6.46E-04	1.53E-03	
1300	358850	3799400	3.11E-08	3.61E-08	2.00E-09	6.99E-04	1.74E-03	
1301	358900	3799400	3.34E-08	3.87E-08	2.15E-09	7.51E-04	1.97E-03	
1302	358950	3799400	3.57E-08	4.14E-08	2.30E-09	8.02E-04	2.03E-03	
1303	359000	3799400	3.92E-08	4.54E-08	2.52E-09	8.80E-04	2.17E-03	
1304	359050	3799400	4.39E-08	5.09E-08	2.83E-09	9.87E-04	2.47E-03	
1305	359100	3799400	4.89E-08	5.67E-08	3.15E-09	1.10E-03	2.65E-03	Nonresidential
1306	359150	3799400	5.63E-08	6.53E-08	3.63E-09	1.27E-03	2.97E-03	Nonresidential
1307	359200	3799400	6.68E-08	7.74E-08	4.30E-09	1.50E-03	3.15E-03	Nonresidential
1308	359250	3799400	7.33E-08	8.50E-08	4.72E-09	1.65E-03	3.20E-03	Nonresidential
1309	359300	3799400	7.81E-08	9.05E-08	5.03E-09	1.76E-03	3.61E-03	Nonresidential
1310	359350	3799400	8.39E-08	9.72E-08	5.40E-09	1.88E-03	4.25E-03	Nonresidential
1311	361400	3799400	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.90E-03	
1312	361450	3799400	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.91E-03	
1313	361500	3799400	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.92E-03	
1314	361550	3799400	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.93E-03	
1315	361600	3799400	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.93E-03	
1316	361650	3799400	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.92E-03	
1317	361700	3799400	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.90E-03	
1318	361750	3799400	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.87E-03	
1319	361800	3799400	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.83E-03	
1320	361850	3799400	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.78E-03	
1321	361900	3799400	3.45E-08	4.00E-08	2.23E-09	7.76E-04	1.72E-03	
1322	361950	3799400	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.66E-03	
1323	362000	3799400	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.60E-03	
1324	362050	3799400	3.47E-08	4.03E-08	2.24E-09	7.80E-04	1.54E-03	
1325	362100	3799400	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.47E-03	
1326	358650	3799450	2.74E-08	3.17E-08	1.76E-09	6.15E-04	2.00E-03	
1327	358700	3799450	2.83E-08	3.28E-08	1.82E-09	6.35E-04	1.96E-03	
1328	358750	3799450	2.94E-08	3.41E-08	1.90E-09	6.62E-04	1.89E-03	
1329	358800	3799450	3.12E-08	3.61E-08	2.01E-09	7.00E-04	1.83E-03	
1330	358850	3799450	3.42E-08	3.97E-08	2.21E-09	7.69E-04	1.92E-03	
1331	358900	3799450	3.72E-08	4.31E-08	2.39E-09	8.35E-04	2.30E-03	
1332	358950	3799450	4.01E-08	4.65E-08	2.58E-09	9.02E-04	2.54E-03	
1333	359000	3799450	4.50E-08	5.22E-08	2.90E-09	1.01E-03	2.93E-03	Nonresidential
1334	359050	3799450	5.00E-08	5.79E-08	3.22E-09	1.12E-03	3.07E-03	Nonresidential
1335	359100	3799450	5.61E-08	6.50E-08	3.62E-09	1.26E-03	3.08E-03	Nonresidential
1336	359150	3799450	6.61E-08	7.66E-08	4.26E-09	1.48E-03	3.23E-03	Nonresidential
1337	359200	3799450	7.35E-08	8.52E-08	4.74E-09	1.65E-03	3.45E-03	Nonresidential
1338	359250	3799450	8.44E-08	9.78E-08	5.44E-09	1.90E-03	3.46E-03	Nonresidential
1339	359300	3799450	8.58E-08	9.95E-08	5.53E-09	1.93E-03	3.52E-03	Nonresidential
1340	359350	3799450	7.84E-08	9.09E-08	5.05E-09	1.76E-03	3.82E-03	Nonresidential
1341	361350	3799450	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.96E-03	
1342	361400	3799450	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.96E-03	
1343	361450	3799450	3.44E-08	3.98E-08	2.21E-09	7.72E-04	2.00E-03	
1344	361500	3799450	3.43E-08	3.98E-08	2.21E-09	7.71E-04	2.03E-03	
1345	361550	3799450	3.43E-08	3.98E-08	2.21E-09	7.71E-04	2.03E-03	
1346	361600	3799450	3.44E-08	3.98E-08	2.21E-09	7.72E-04	2.02E-03	
1347	361650	3799450	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.99E-03	
1348	361700	3799450	3.44E-08	3.99E-08	2.22E-09	7.74E-04	1.95E-03	
1349	361750	3799450	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.90E-03	
1350	361800	3799450	3.45E-08	4.00E-08	2.23E-09	7.76E-04	1.85E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1351	361850	3799450	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.78E-03	
1352	361900	3799450	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.72E-03	
1353	361950	3799450	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.65E-03	
1354	362000	3799450	3.47E-08	4.03E-08	2.24E-09	7.80E-04	1.58E-03	
1355	362050	3799450	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.51E-03	
1356	358650	3799500	2.95E-08	3.42E-08	1.90E-09	6.63E-04	2.16E-03	
1357	358700	3799500	3.05E-08	3.54E-08	1.97E-09	6.86E-04	2.18E-03	
1358	358750	3799500	3.20E-08	3.71E-08	2.06E-09	7.19E-04	2.17E-03	
1359	358800	3799500	3.43E-08	3.97E-08	2.21E-09	7.70E-04	2.14E-03	
1360	358850	3799500	3.76E-08	4.36E-08	2.42E-09	8.46E-04	2.38E-03	
1361	358900	3799500	4.13E-08	4.78E-08	2.66E-09	9.28E-04	2.63E-03	Nonresidential
1362	358950	3799500	4.56E-08	5.28E-08	2.93E-09	1.02E-03	2.74E-03	Nonresidential
1363	359000	3799500	5.15E-08	5.97E-08	3.32E-09	1.16E-03	2.98E-03	Nonresidential
1364	359050	3799500	5.71E-08	6.62E-08	3.68E-09	1.28E-03	3.19E-03	Nonresidential
1365	359100	3799500	6.38E-08	7.39E-08	4.11E-09	1.43E-03	3.41E-03	Nonresidential
1366	359150	3799500	7.36E-08	8.53E-08	4.74E-09	1.65E-03	3.54E-03	Nonresidential
1367	359200	3799500	8.20E-08	9.51E-08	5.28E-09	1.84E-03	3.70E-03	Nonresidential
1368	359250	3799500	8.47E-08	9.81E-08	5.46E-09	1.90E-03	3.62E-03	Nonresidential
1369	359300	3799500	7.83E-08	9.08E-08	5.04E-09	1.76E-03	3.45E-03	Nonresidential
1370	359350	3799500	7.26E-08	8.41E-08	4.68E-09	1.63E-03	3.27E-03	Nonresidential
1371	361300	3799500	3.50E-08	4.06E-08	2.26E-09	7.87E-04	2.05E-03	
1372	361350	3799500	3.48E-08	4.04E-08	2.24E-09	7.83E-04	2.06E-03	
1373	361400	3799500	3.47E-08	4.02E-08	2.23E-09	7.79E-04	2.11E-03	
1374	361450	3799500	3.46E-08	4.01E-08	2.23E-09	7.77E-04	2.13E-03	
1375	361500	3799500	3.46E-08	4.01E-08	2.23E-09	7.77E-04	2.13E-03	
1376	361550	3799500	3.46E-08	4.00E-08	2.23E-09	7.77E-04	2.12E-03	
1377	361600	3799500	3.46E-08	4.01E-08	2.23E-09	7.77E-04	2.08E-03	
1378	361650	3799500	3.46E-08	4.01E-08	2.23E-09	7.77E-04	2.04E-03	
1379	361700	3799500	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.98E-03	
1380	361750	3799500	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.91E-03	
1381	361800	3799500	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.84E-03	
1382	361850	3799500	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.77E-03	
1383	361900	3799500	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.69E-03	
1384	361950	3799500	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.61E-03	
1385	362000	3799500	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.53E-03	
1386	362050	3799500	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.46E-03	
1387	358650	3799550	3.21E-08	3.71E-08	2.06E-09	7.20E-04	2.10E-03	
1388	358700	3799550	3.31E-08	3.84E-08	2.14E-09	7.45E-04	2.21E-03	
1389	358750	3799550	3.52E-08	4.07E-08	2.26E-09	7.90E-04	2.24E-03	
1390	358800	3799550	3.82E-08	4.43E-08	2.46E-09	8.59E-04	2.43E-03	
1391	358850	3799550	4.19E-08	4.86E-08	2.70E-09	9.43E-04	2.81E-03	Nonresidential
1392	358900	3799550	4.68E-08	5.42E-08	3.01E-09	1.05E-03	3.15E-03	Nonresidential
1393	358950	3799550	5.15E-08	5.97E-08	3.32E-09	1.16E-03	3.35E-03	Nonresidential
1394	359000	3799550	5.76E-08	6.67E-08	3.71E-09	1.29E-03	3.47E-03	Nonresidential
1395	359050	3799550	6.38E-08	7.40E-08	4.11E-09	1.43E-03	3.42E-03	Nonresidential
1396	359100	3799550	7.06E-08	8.18E-08	4.55E-09	1.59E-03	3.57E-03	Nonresidential
1397	359150	3799550	7.97E-08	9.23E-08	5.13E-09	1.79E-03	3.72E-03	Nonresidential
1398	361300	3799550	3.54E-08	4.10E-08	2.28E-09	7.94E-04	2.16E-03	
1399	361350	3799550	3.51E-08	4.07E-08	2.26E-09	7.90E-04	2.22E-03	
1400	361400	3799550	3.50E-08	4.05E-08	2.25E-09	7.86E-04	2.24E-03	
1401	361450	3799550	3.49E-08	4.05E-08	2.25E-09	7.84E-04	2.24E-03	
1402	361500	3799550	3.48E-08	4.04E-08	2.24E-09	7.83E-04	2.21E-03	
1403	361550	3799550	3.48E-08	4.04E-08	2.24E-09	7.82E-04	2.17E-03	
1404	361600	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	2.11E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1405	361650	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	2.05E-03	
1406	361700	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.97E-03	
1407	361750	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.89E-03	
1408	361800	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.81E-03	
1409	361850	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.72E-03	
1410	361900	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.64E-03	
1411	361950	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.56E-03	
1412	362000	3799550	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.47E-03	
1413	358600	3799600	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.83E-03	
1414	358650	3799600	3.52E-08	4.08E-08	2.27E-09	7.91E-04	1.87E-03	
1415	358700	3799600	3.67E-08	4.25E-08	2.36E-09	8.24E-04	1.93E-03	
1416	358750	3799600	3.93E-08	4.56E-08	2.53E-09	8.84E-04	2.28E-03	
1417	358800	3799600	4.29E-08	4.98E-08	2.77E-09	9.65E-04	2.68E-03	Nonresidential
1418	358850	3799600	4.64E-08	5.38E-08	2.99E-09	1.04E-03	3.00E-03	Nonresidential
1419	358900	3799600	5.06E-08	5.86E-08	3.26E-09	1.14E-03	3.27E-03	Nonresidential
1420	358950	3799600	5.64E-08	6.53E-08	3.63E-09	1.27E-03	3.48E-03	Nonresidential
1421	359000	3799600	6.26E-08	7.26E-08	4.03E-09	1.41E-03	3.60E-03	Nonresidential
1422	359050	3799600	6.96E-08	8.07E-08	4.48E-09	1.56E-03	3.64E-03	Nonresidential
1423	359100	3799600	7.72E-08	8.94E-08	4.97E-09	1.73E-03	3.84E-03	Nonresidential
1424	361300	3799600	3.57E-08	4.14E-08	2.30E-09	8.03E-04	2.32E-03	
1425	361350	3799600	3.55E-08	4.12E-08	2.29E-09	7.98E-04	2.34E-03	
1426	361400	3799600	3.54E-08	4.10E-08	2.28E-09	7.95E-04	2.33E-03	
1427	361450	3799600	3.52E-08	4.08E-08	2.27E-09	7.92E-04	2.30E-03	
1428	361500	3799600	3.52E-08	4.07E-08	2.26E-09	7.90E-04	2.25E-03	
1429	361550	3799600	3.51E-08	4.06E-08	2.26E-09	7.88E-04	2.19E-03	
1430	361600	3799600	3.50E-08	4.06E-08	2.26E-09	7.87E-04	2.11E-03	
1431	361650	3799600	3.50E-08	4.05E-08	2.25E-09	7.86E-04	2.03E-03	
1432	361700	3799600	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.94E-03	
1433	361750	3799600	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.84E-03	
1434	361800	3799600	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.75E-03	
1435	361850	3799600	3.49E-08	4.04E-08	2.25E-09	7.83E-04	1.66E-03	
1436	361900	3799600	3.48E-08	4.04E-08	2.24E-09	7.83E-04	1.57E-03	
1437	361950	3799600	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.48E-03	
1438	358600	3799650	3.71E-08	4.30E-08	2.39E-09	8.34E-04	2.11E-03	
1439	358650	3799650	3.87E-08	4.48E-08	2.49E-09	8.69E-04	2.16E-03	
1440	358700	3799650	4.03E-08	4.67E-08	2.60E-09	9.06E-04	2.16E-03	
1441	358750	3799650	4.20E-08	4.87E-08	2.71E-09	9.44E-04	2.12E-03	
1442	358800	3799650	4.54E-08	5.26E-08	2.92E-09	1.02E-03	2.27E-03	
1443	358850	3799650	4.79E-08	5.55E-08	3.09E-09	1.08E-03	2.62E-03	Nonresidential
1444	358900	3799650	5.21E-08	6.04E-08	3.36E-09	1.17E-03	3.02E-03	Nonresidential
1445	358950	3799650	5.86E-08	6.79E-08	3.78E-09	1.32E-03	3.41E-03	Nonresidential
1446	359000	3799650	6.27E-08	7.27E-08	4.04E-09	1.41E-03	3.68E-03	Nonresidential
1447	359050	3799650	6.83E-08	7.91E-08	4.40E-09	1.53E-03	3.81E-03	Nonresidential
1448	359100	3799650	7.78E-08	9.02E-08	5.01E-09	1.75E-03	3.90E-03	Nonresidential
1449	361250	3799650	3.65E-08	4.23E-08	2.35E-09	8.21E-04	2.42E-03	
1450	361300	3799650	3.62E-08	4.20E-08	2.33E-09	8.14E-04	2.44E-03	
1451	361350	3799650	3.60E-08	4.17E-08	2.32E-09	8.08E-04	2.42E-03	
1452	361400	3799650	3.58E-08	4.14E-08	2.30E-09	8.03E-04	2.39E-03	
1453	361450	3799650	3.56E-08	4.12E-08	2.29E-09	8.00E-04	2.33E-03	
1454	361500	3799650	3.54E-08	4.11E-08	2.28E-09	7.96E-04	2.25E-03	
1455	361550	3799650	3.53E-08	4.09E-08	2.28E-09	7.94E-04	2.16E-03	
1456	361600	3799650	3.52E-08	4.08E-08	2.27E-09	7.92E-04	2.07E-03	
1457	361650	3799650	3.52E-08	4.07E-08	2.26E-09	7.90E-04	1.97E-03	
1458	361700	3799650	3.51E-08	4.06E-08	2.26E-09	7.88E-04	1.87E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1459	361750	3799650	3.50E-08	4.06E-08	2.26E-09	7.87E-04	1.77E-03	
1460	361800	3799650	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.67E-03	
1461	361850	3799650	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.57E-03	
1462	358650	3799700	3.88E-08	4.50E-08	2.50E-09	8.72E-04	2.04E-03	
1463	358700	3799700	4.06E-08	4.70E-08	2.61E-09	9.12E-04	2.12E-03	
1464	358750	3799700	4.00E-08	4.64E-08	2.58E-09	8.99E-04	1.99E-03	
1465	358800	3799700	4.24E-08	4.91E-08	2.73E-09	9.52E-04	2.14E-03	
1466	358850	3799700	4.51E-08	5.22E-08	2.90E-09	1.01E-03	2.28E-03	
1467	358900	3799700	5.12E-08	5.93E-08	3.30E-09	1.15E-03	2.39E-03	
1468	358950	3799700	5.45E-08	6.31E-08	3.51E-09	1.22E-03	2.79E-03	Nonresidential
1469	359000	3799700	5.61E-08	6.51E-08	3.62E-09	1.26E-03	2.91E-03	Nonresidential
1470	359050	3799700	6.42E-08	7.44E-08	4.14E-09	1.44E-03	3.72E-03	Nonresidential
1471	359100	3799700	7.34E-08	8.50E-08	4.73E-09	1.65E-03	3.95E-03	Nonresidential
1472	361200	3799700	3.76E-08	4.35E-08	2.42E-09	8.44E-04	2.50E-03	
1473	361250	3799700	3.71E-08	4.30E-08	2.39E-09	8.34E-04	2.52E-03	
1474	361300	3799700	3.67E-08	4.26E-08	2.37E-09	8.25E-04	2.50E-03	
1475	361350	3799700	3.64E-08	4.22E-08	2.35E-09	8.18E-04	2.45E-03	
1476	361400	3799700	3.61E-08	4.19E-08	2.33E-09	8.12E-04	2.38E-03	
1477	361450	3799700	3.59E-08	4.16E-08	2.31E-09	8.07E-04	2.30E-03	
1478	361500	3799700	3.57E-08	4.14E-08	2.30E-09	8.03E-04	2.20E-03	
1479	361550	3799700	3.56E-08	4.12E-08	2.29E-09	7.99E-04	2.09E-03	
1480	361600	3799700	3.54E-08	4.10E-08	2.28E-09	7.96E-04	1.99E-03	
1481	361650	3799700	3.53E-08	4.09E-08	2.27E-09	7.93E-04	1.87E-03	
1482	361700	3799700	3.52E-08	4.08E-08	2.27E-09	7.90E-04	1.77E-03	
1483	361750	3799700	3.51E-08	4.06E-08	2.26E-09	7.88E-04	1.66E-03	
1484	358650	3799750	3.79E-08	4.39E-08	2.44E-09	8.51E-04	1.72E-03	
1485	358700	3799750	4.17E-08	4.83E-08	2.68E-09	9.36E-04	2.01E-03	
1486	358750	3799750	4.17E-08	4.83E-08	2.68E-09	9.36E-04	1.82E-03	
1487	358800	3799750	4.16E-08	4.82E-08	2.68E-09	9.35E-04	2.12E-03	
1488	358850	3799750	4.52E-08	5.24E-08	2.91E-09	1.02E-03	2.21E-03	
1489	358900	3799750	5.03E-08	5.83E-08	3.24E-09	1.13E-03	2.23E-03	
1490	358950	3799750	4.95E-08	5.73E-08	3.19E-09	1.11E-03	2.67E-03	Nonresidential
1491	359000	3799750	5.37E-08	6.22E-08	3.46E-09	1.21E-03	2.69E-03	Nonresidential
1492	359050	3799750	6.08E-08	7.04E-08	3.92E-09	1.37E-03	3.12E-03	Nonresidential
1493	359100	3799750	6.88E-08	7.97E-08	4.43E-09	1.55E-03	3.74E-03	Nonresidential
1494	359150	3799750	7.30E-08	8.46E-08	4.70E-09	1.64E-03	4.09E-03	Nonresidential
1495	359200	3799750	7.44E-08	8.63E-08	4.79E-09	1.67E-03	4.33E-03	Nonresidential
1496	361150	3799750	3.89E-08	4.51E-08	2.51E-09	8.75E-04	2.57E-03	Nonresidential
1497	361200	3799750	3.82E-08	4.43E-08	2.46E-09	8.59E-04	2.58E-03	Nonresidential
1498	361250	3799750	3.77E-08	4.37E-08	2.43E-09	8.47E-04	2.56E-03	
1499	361300	3799750	3.73E-08	4.32E-08	2.40E-09	8.37E-04	2.50E-03	
1500	361350	3799750	3.69E-08	4.27E-08	2.38E-09	8.29E-04	2.42E-03	
1501	361400	3799750	3.65E-08	4.23E-08	2.35E-09	8.21E-04	2.32E-03	
1502	361450	3799750	3.62E-08	4.20E-08	2.33E-09	8.14E-04	2.21E-03	
1503	361500	3799750	3.60E-08	4.17E-08	2.32E-09	8.08E-04	2.10E-03	
1504	361550	3799750	3.58E-08	4.14E-08	2.30E-09	8.03E-04	1.98E-03	
1505	361600	3799750	3.56E-08	4.12E-08	2.29E-09	7.99E-04	1.86E-03	
1506	361650	3799750	3.54E-08	4.10E-08	2.28E-09	7.95E-04	1.75E-03	
1507	361700	3799750	3.52E-08	4.08E-08	2.27E-09	7.92E-04	1.63E-03	
1508	358650	3799800	3.96E-08	4.59E-08	2.55E-09	8.91E-04	1.91E-03	
1509	358700	3799800	4.25E-08	4.92E-08	2.74E-09	9.55E-04	2.07E-03	
1510	358750	3799800	4.17E-08	4.84E-08	2.69E-09	9.38E-04	1.71E-03	
1511	358800	3799800	4.15E-08	4.81E-08	2.67E-09	9.33E-04	1.84E-03	
1512	358850	3799800	4.35E-08	5.04E-08	2.80E-09	9.78E-04	2.04E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1513	358900	3799800	4.58E-08	5.30E-08	2.95E-09	1.03E-03	2.25E-03	
1514	358950	3799800	4.82E-08	5.59E-08	3.11E-09	1.08E-03	2.49E-03	
1515	359000	3799800	5.43E-08	6.30E-08	3.50E-09	1.22E-03	2.35E-03	
1516	359050	3799800	5.84E-08	6.77E-08	3.76E-09	1.31E-03	2.64E-03	Nonresidential
1517	359100	3799800	6.06E-08	7.02E-08	3.90E-09	1.36E-03	2.83E-03	Nonresidential
1518	359150	3799800	6.48E-08	7.51E-08	4.18E-09	1.46E-03	3.62E-03	Nonresidential
1519	359200	3799800	6.87E-08	7.97E-08	4.43E-09	1.54E-03	4.20E-03	Nonresidential
1520	359250	3799800	7.16E-08	8.29E-08	4.61E-09	1.61E-03	4.54E-03	Nonresidential
1521	361100	3799800	4.09E-08	4.74E-08	2.63E-09	9.18E-04	2.70E-03	Nonresidential
1522	361150	3799800	3.98E-08	4.62E-08	2.57E-09	8.95E-04	2.61E-03	Nonresidential
1523	361200	3799800	3.90E-08	4.52E-08	2.51E-09	8.76E-04	2.58E-03	Nonresidential
1524	361250	3799800	3.83E-08	4.44E-08	2.47E-09	8.61E-04	2.52E-03	
1525	361300	3799800	3.78E-08	4.38E-08	2.43E-09	8.49E-04	2.43E-03	
1526	361350	3799800	3.73E-08	4.32E-08	2.40E-09	8.38E-04	2.32E-03	
1527	361400	3799800	3.69E-08	4.27E-08	2.38E-09	8.28E-04	2.20E-03	
1528	361450	3799800	3.65E-08	4.23E-08	2.35E-09	8.20E-04	2.08E-03	
1529	361500	3799800	3.62E-08	4.19E-08	2.33E-09	8.13E-04	1.95E-03	
1530	361550	3799800	3.59E-08	4.16E-08	2.31E-09	8.07E-04	1.84E-03	
1531	361600	3799800	3.57E-08	4.13E-08	2.30E-09	8.01E-04	1.73E-03	
1532	361650	3799800	3.54E-08	4.11E-08	2.28E-09	7.96E-04	1.64E-03	
1533	361700	3799800	3.53E-08	4.09E-08	2.27E-09	7.92E-04	1.54E-03	
1534	358650	3799850	4.06E-08	4.71E-08	2.62E-09	9.13E-04	1.92E-03	
1535	358700	3799850	4.14E-08	4.80E-08	2.67E-09	9.30E-04	1.82E-03	
1536	358750	3799850	4.10E-08	4.75E-08	2.64E-09	9.21E-04	1.41E-03	
1537	358800	3799850	4.04E-08	4.68E-08	2.60E-09	9.07E-04	1.44E-03	
1538	358850	3799850	4.12E-08	4.77E-08	2.65E-09	9.25E-04	1.47E-03	
1539	358900	3799850	4.39E-08	5.09E-08	2.83E-09	9.87E-04	1.78E-03	
1540	358950	3799850	4.90E-08	5.68E-08	3.16E-09	1.10E-03	2.15E-03	
1541	359000	3799850	5.17E-08	5.99E-08	3.33E-09	1.16E-03	2.34E-03	
1542	359050	3799850	5.29E-08	6.13E-08	3.41E-09	1.19E-03	2.65E-03	Nonresidential
1543	359100	3799850	5.66E-08	6.56E-08	3.65E-09	1.27E-03	2.56E-03	Nonresidential
1544	359150	3799850	6.07E-08	7.03E-08	3.91E-09	1.36E-03	2.97E-03	Nonresidential
1545	359200	3799850	6.68E-08	7.75E-08	4.31E-09	1.50E-03	3.41E-03	Nonresidential
1546	361150	3799850	4.08E-08	4.72E-08	2.63E-09	9.16E-04	2.67E-03	Nonresidential
1547	361200	3799850	3.97E-08	4.60E-08	2.56E-09	8.92E-04	2.53E-03	
1548	361250	3799850	3.89E-08	4.51E-08	2.51E-09	8.74E-04	2.40E-03	
1549	361300	3799850	3.82E-08	4.43E-08	2.46E-09	8.59E-04	2.32E-03	
1550	361350	3799850	3.77E-08	4.36E-08	2.43E-09	8.46E-04	2.22E-03	
1551	361400	3799850	3.72E-08	4.31E-08	2.39E-09	8.35E-04	2.14E-03	
1552	361450	3799850	3.67E-08	4.25E-08	2.36E-09	8.25E-04	2.03E-03	
1553	361500	3799850	3.63E-08	4.21E-08	2.34E-09	8.16E-04	1.92E-03	
1554	361550	3799850	3.60E-08	4.17E-08	2.32E-09	8.09E-04	1.80E-03	
1555	361600	3799850	3.57E-08	4.14E-08	2.30E-09	8.02E-04	1.68E-03	
1556	361650	3799850	3.55E-08	4.11E-08	2.28E-09	7.97E-04	1.56E-03	
1557	361700	3799850	3.52E-08	4.08E-08	2.27E-09	7.92E-04	1.46E-03	
1558	358600	3799900	3.67E-08	4.25E-08	2.36E-09	8.25E-04	1.29E-03	
1559	358650	3799900	3.97E-08	4.60E-08	2.56E-09	8.92E-04	1.48E-03	
1560	358700	3799900	3.92E-08	4.54E-08	2.53E-09	8.81E-04	1.40E-03	
1561	358750	3799900	4.03E-08	4.67E-08	2.59E-09	9.05E-04	1.45E-03	
1562	358800	3799900	3.98E-08	4.61E-08	2.56E-09	8.94E-04	1.51E-03	
1563	358850	3799900	4.13E-08	4.79E-08	2.66E-09	9.29E-04	1.56E-03	
1564	358900	3799900	4.29E-08	4.97E-08	2.76E-09	9.63E-04	1.61E-03	
1565	358950	3799900	4.44E-08	5.14E-08	2.86E-09	9.97E-04	1.66E-03	
1566	359000	3799900	4.84E-08	5.60E-08	3.11E-09	1.09E-03	1.94E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1567	359050	3799900	5.37E-08	6.23E-08	3.46E-09	1.21E-03	2.15E-03	
1568	359100	3799900	5.86E-08	6.79E-08	3.77E-09	1.32E-03	2.85E-03	Nonresidential
1569	359150	3799900	6.46E-08	7.49E-08	4.16E-09	1.45E-03	3.51E-03	Nonresidential
1570	361200	3799900	4.04E-08	4.69E-08	2.60E-09	9.09E-04	2.61E-03	Nonresidential
1571	361250	3799900	3.94E-08	4.57E-08	2.54E-09	8.85E-04	2.52E-03	
1572	361300	3799900	3.86E-08	4.47E-08	2.49E-09	8.67E-04	2.41E-03	
1573	361350	3799900	3.79E-08	4.40E-08	2.44E-09	8.53E-04	2.28E-03	
1574	361400	3799900	3.74E-08	4.33E-08	2.41E-09	8.39E-04	2.13E-03	
1575	361450	3799900	3.69E-08	4.27E-08	2.37E-09	8.28E-04	1.98E-03	
1576	361500	3799900	3.64E-08	4.22E-08	2.35E-09	8.18E-04	1.84E-03	
1577	361550	3799900	3.60E-08	4.18E-08	2.32E-09	8.10E-04	1.70E-03	
1578	361600	3799900	3.57E-08	4.14E-08	2.30E-09	8.02E-04	1.59E-03	
1579	361650	3799900	3.54E-08	4.10E-08	2.28E-09	7.96E-04	1.51E-03	
1580	358600	3799950	3.78E-08	4.38E-08	2.44E-09	8.50E-04	1.26E-03	
1581	358650	3799950	3.90E-08	4.51E-08	2.51E-09	8.75E-04	1.33E-03	
1582	358700	3799950	3.77E-08	4.37E-08	2.43E-09	8.48E-04	1.39E-03	
1583	358750	3799950	3.87E-08	4.49E-08	2.49E-09	8.70E-04	1.46E-03	
1584	358800	3799950	4.01E-08	4.65E-08	2.58E-09	9.01E-04	1.53E-03	
1585	358850	3799950	4.14E-08	4.80E-08	2.67E-09	9.31E-04	1.60E-03	
1586	358900	3799950	4.27E-08	4.95E-08	2.75E-09	9.60E-04	1.68E-03	
1587	358950	3799950	4.51E-08	5.23E-08	2.91E-09	1.01E-03	1.75E-03	
1588	359000	3799950	4.96E-08	5.75E-08	3.20E-09	1.12E-03	1.85E-03	
1589	359050	3799950	5.47E-08	6.34E-08	3.52E-09	1.23E-03	2.61E-03	Nonresidential
1590	359100	3799950	5.96E-08	6.91E-08	3.84E-09	1.34E-03	3.14E-03	Nonresidential
1591	361200	3799950	4.11E-08	4.76E-08	2.64E-09	9.22E-04	2.74E-03	Nonresidential
1592	361250	3799950	3.99E-08	4.62E-08	2.57E-09	8.95E-04	2.56E-03	Nonresidential
1593	361300	3799950	3.89E-08	4.51E-08	2.51E-09	8.74E-04	2.38E-03	
1594	361350	3799950	3.81E-08	4.42E-08	2.46E-09	8.57E-04	2.19E-03	
1595	361400	3799950	3.75E-08	4.35E-08	2.42E-09	8.43E-04	2.02E-03	
1596	361450	3799950	3.69E-08	4.28E-08	2.38E-09	8.30E-04	1.88E-03	
1597	361500	3799950	3.64E-08	4.22E-08	2.35E-09	8.19E-04	1.76E-03	
1598	361550	3799950	3.60E-08	4.18E-08	2.32E-09	8.10E-04	1.69E-03	
1599	361600	3799950	3.57E-08	4.13E-08	2.30E-09	8.01E-04	1.63E-03	
1600	361650	3799950	3.53E-08	4.10E-08	2.28E-09	7.94E-04	1.58E-03	
1601	358550	3800000	3.57E-08	4.14E-08	2.30E-09	8.02E-04	1.14E-03	
1602	358600	3800000	3.79E-08	4.39E-08	2.44E-09	8.52E-04	1.20E-03	
1603	358650	3800000	3.78E-08	4.38E-08	2.43E-09	8.48E-04	1.27E-03	
1604	358700	3800000	3.79E-08	4.40E-08	2.44E-09	8.52E-04	1.35E-03	
1605	358750	3800000	3.91E-08	4.53E-08	2.52E-09	8.79E-04	1.42E-03	
1606	358800	3800000	4.03E-08	4.67E-08	2.60E-09	9.06E-04	1.51E-03	
1607	358850	3800000	4.15E-08	4.81E-08	2.67E-09	9.32E-04	1.59E-03	
1608	358900	3800000	4.26E-08	4.93E-08	2.74E-09	9.56E-04	1.68E-03	
1609	358950	3800000	4.71E-08	5.46E-08	3.04E-09	1.06E-03	1.79E-03	
1610	359000	3800000	5.16E-08	5.98E-08	3.32E-09	1.16E-03	2.04E-03	
1611	359050	3800000	5.71E-08	6.62E-08	3.68E-09	1.28E-03	3.03E-03	Nonresidential
1612	361150	3800000	4.31E-08	4.99E-08	2.78E-09	9.68E-04	2.90E-03	Nonresidential
1613	361200	3800000	4.16E-08	4.82E-08	2.68E-09	9.34E-04	2.66E-03	Nonresidential
1614	361250	3800000	4.02E-08	4.66E-08	2.59E-09	9.03E-04	2.45E-03	
1615	361300	3800000	3.91E-08	4.53E-08	2.52E-09	8.79E-04	2.27E-03	
1616	361350	3800000	3.83E-08	4.43E-08	2.47E-09	8.60E-04	2.11E-03	
1617	361400	3800000	3.76E-08	4.35E-08	2.42E-09	8.44E-04	2.00E-03	
1618	361450	3800000	3.69E-08	4.28E-08	2.38E-09	8.30E-04	1.92E-03	
1619	361500	3800000	3.64E-08	4.22E-08	2.35E-09	8.18E-04	1.85E-03	
1620	361550	3800000	3.60E-08	4.17E-08	2.32E-09	8.08E-04	1.78E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1621	361600	3800000	3.56E-08	4.12E-08	2.29E-09	7.99E-04	1.70E-03	
1622	361650	3800000	3.52E-08	4.08E-08	2.27E-09	7.92E-04	1.63E-03	
1623	358550	3800050	3.63E-08	4.21E-08	2.34E-09	8.16E-04	1.16E-03	
1624	358600	3800050	3.66E-08	4.24E-08	2.36E-09	8.22E-04	1.20E-03	
1625	358650	3800050	3.74E-08	4.34E-08	2.41E-09	8.41E-04	1.26E-03	
1626	358700	3800050	3.85E-08	4.46E-08	2.48E-09	8.64E-04	1.31E-03	
1627	358750	3800050	3.95E-08	4.58E-08	2.55E-09	8.88E-04	1.36E-03	
1628	358800	3800050	4.06E-08	4.70E-08	2.61E-09	9.11E-04	1.43E-03	
1629	358850	3800050	4.16E-08	4.82E-08	2.68E-09	9.34E-04	1.52E-03	
1630	358900	3800050	4.46E-08	5.16E-08	2.87E-09	1.00E-03	1.62E-03	
1631	358950	3800050	4.81E-08	5.57E-08	3.10E-09	1.08E-03	1.74E-03	
1632	359000	3800050	5.32E-08	6.17E-08	3.43E-09	1.20E-03	2.33E-03	
1633	359050	3800050	6.01E-08	6.97E-08	3.87E-09	1.35E-03	3.14E-03	Nonresidential
1634	361100	3800050	4.54E-08	5.26E-08	2.92E-09	1.02E-03	3.02E-03	Nonresidential
1635	361150	3800050	4.36E-08	5.05E-08	2.81E-09	9.79E-04	2.80E-03	Nonresidential
1636	361200	3800050	4.19E-08	4.86E-08	2.70E-09	9.42E-04	2.59E-03	Nonresidential
1637	361250	3800050	4.04E-08	4.69E-08	2.61E-09	9.09E-04	2.42E-03	
1638	361300	3800050	3.92E-08	4.55E-08	2.53E-09	8.81E-04	2.29E-03	
1639	361350	3800050	3.83E-08	4.44E-08	2.47E-09	8.60E-04	2.19E-03	
1640	361400	3800050	3.75E-08	4.35E-08	2.42E-09	8.44E-04	2.10E-03	
1641	361450	3800050	3.69E-08	4.28E-08	2.38E-09	8.29E-04	2.00E-03	
1642	361500	3800050	3.63E-08	4.21E-08	2.34E-09	8.17E-04	1.90E-03	
1643	361550	3800050	3.59E-08	4.16E-08	2.31E-09	8.06E-04	1.80E-03	
1644	361600	3800050	3.54E-08	4.11E-08	2.28E-09	7.96E-04	1.71E-03	
1645	358550	3800100	3.62E-08	4.19E-08	2.33E-09	8.13E-04	1.21E-03	
1646	358600	3800100	3.71E-08	4.30E-08	2.39E-09	8.34E-04	1.25E-03	
1647	358650	3800100	3.80E-08	4.41E-08	2.45E-09	8.55E-04	1.29E-03	
1648	358700	3800100	3.90E-08	4.52E-08	2.51E-09	8.76E-04	1.34E-03	
1649	358750	3800100	3.99E-08	4.63E-08	2.57E-09	8.97E-04	1.40E-03	
1650	358800	3800100	4.08E-08	4.73E-08	2.63E-09	9.18E-04	1.46E-03	
1651	358850	3800100	4.17E-08	4.83E-08	2.69E-09	9.37E-04	1.54E-03	
1652	358900	3800100	4.58E-08	5.31E-08	2.95E-09	1.03E-03	1.61E-03	
1653	358950	3800100	5.03E-08	5.82E-08	3.24E-09	1.13E-03	1.83E-03	
1654	359000	3800100	5.59E-08	6.48E-08	3.60E-09	1.26E-03	2.74E-03	Nonresidential
1655	359050	3800100	6.24E-08	7.23E-08	4.02E-09	1.40E-03	3.32E-03	Nonresidential
1656	361000	3800100	5.04E-08	5.84E-08	3.24E-09	1.13E-03	3.52E-03	Nonresidential
1657	361050	3800100	4.80E-08	5.56E-08	3.09E-09	1.08E-03	3.23E-03	Nonresidential
1658	361100	3800100	4.58E-08	5.31E-08	2.95E-09	1.03E-03	3.01E-03	Nonresidential
1659	361150	3800100	4.39E-08	5.08E-08	2.83E-09	9.85E-04	2.81E-03	Nonresidential
1660	361200	3800100	4.21E-08	4.88E-08	2.71E-09	9.46E-04	2.67E-03	Nonresidential
1661	361250	3800100	4.06E-08	4.70E-08	2.61E-09	9.12E-04	2.53E-03	
1662	361300	3800100	3.93E-08	4.55E-08	2.53E-09	8.82E-04	2.40E-03	
1663	361350	3800100	3.83E-08	4.43E-08	2.47E-09	8.60E-04	2.27E-03	
1664	361400	3800100	3.75E-08	4.34E-08	2.41E-09	8.42E-04	2.15E-03	
1665	361450	3800100	3.68E-08	4.26E-08	2.37E-09	8.27E-04	2.02E-03	
1666	361500	3800100	3.62E-08	4.20E-08	2.33E-09	8.14E-04	1.91E-03	
1667	361550	3800100	3.57E-08	4.14E-08	2.30E-09	8.03E-04	1.80E-03	
1668	361600	3800100	3.53E-08	4.09E-08	2.27E-09	7.93E-04	1.70E-03	
1669	358550	3800150	3.70E-08	4.28E-08	2.38E-09	8.31E-04	1.27E-03	
1670	358600	3800150	3.78E-08	4.38E-08	2.44E-09	8.50E-04	1.31E-03	
1671	358650	3800150	3.87E-08	4.48E-08	2.49E-09	8.69E-04	1.35E-03	
1672	358700	3800150	3.95E-08	4.58E-08	2.55E-09	8.88E-04	1.41E-03	
1673	358750	3800150	4.04E-08	4.68E-08	2.60E-09	9.07E-04	1.48E-03	
1674	358800	3800150	4.12E-08	4.77E-08	2.65E-09	9.25E-04	1.55E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1675	358850	3800150	4.30E-08	4.98E-08	2.77E-09	9.66E-04	1.62E-03	
1676	358900	3800150	4.59E-08	5.32E-08	2.96E-09	1.03E-03	1.70E-03	
1677	358950	3800150	5.10E-08	5.91E-08	3.28E-09	1.15E-03	1.78E-03	
1678	359000	3800150	5.86E-08	6.79E-08	3.77E-09	1.32E-03	2.69E-03	Nonresidential
1679	359050	3800150	6.44E-08	7.47E-08	4.15E-09	1.45E-03	3.23E-03	Nonresidential
1680	360950	3800150	5.42E-08	6.28E-08	3.49E-09	1.22E-03	3.82E-03	Nonresidential
1681	361000	3800150	5.08E-08	5.89E-08	3.27E-09	1.14E-03	3.59E-03	Nonresidential
1682	361050	3800150	4.83E-08	5.60E-08	3.11E-09	1.09E-03	3.38E-03	Nonresidential
1683	361100	3800150	4.60E-08	5.33E-08	2.96E-09	1.03E-03	3.17E-03	Nonresidential
1684	361150	3800150	4.40E-08	5.10E-08	2.83E-09	9.89E-04	2.98E-03	Nonresidential
1685	361200	3800150	4.22E-08	4.89E-08	2.72E-09	9.48E-04	2.79E-03	Nonresidential
1686	361250	3800150	4.06E-08	4.71E-08	2.62E-09	9.12E-04	2.62E-03	Nonresidential
1687	361300	3800150	3.92E-08	4.55E-08	2.53E-09	8.81E-04	2.45E-03	
1688	361350	3800150	3.82E-08	4.42E-08	2.46E-09	8.57E-04	2.29E-03	
1689	361400	3800150	3.73E-08	4.33E-08	2.41E-09	8.39E-04	2.14E-03	
1690	361450	3800150	3.66E-08	4.25E-08	2.36E-09	8.23E-04	2.00E-03	
1691	361500	3800150	3.61E-08	4.18E-08	2.32E-09	8.10E-04	1.87E-03	
1692	361550	3800150	3.55E-08	4.12E-08	2.29E-09	7.99E-04	1.75E-03	
1693	361600	3800150	3.51E-08	4.07E-08	2.26E-09	7.89E-04	1.66E-03	
1694	358500	3800200	3.70E-08	4.29E-08	2.38E-09	8.32E-04	1.27E-03	
1695	358550	3800200	3.78E-08	4.38E-08	2.43E-09	8.49E-04	1.31E-03	
1696	358600	3800200	3.86E-08	4.47E-08	2.48E-09	8.67E-04	1.36E-03	
1697	358650	3800200	3.94E-08	4.56E-08	2.54E-09	8.85E-04	1.41E-03	
1698	358700	3800200	4.01E-08	4.65E-08	2.59E-09	9.02E-04	1.47E-03	
1699	358750	3800200	4.09E-08	4.74E-08	2.64E-09	9.19E-04	1.54E-03	
1700	358800	3800200	4.16E-08	4.82E-08	2.68E-09	9.35E-04	1.62E-03	
1701	358850	3800200	4.36E-08	5.06E-08	2.81E-09	9.81E-04	1.71E-03	
1702	358900	3800200	4.82E-08	5.59E-08	3.11E-09	1.08E-03	1.81E-03	
1703	358950	3800200	5.42E-08	6.29E-08	3.49E-09	1.22E-03	1.94E-03	
1704	359000	3800200	6.48E-08	7.51E-08	4.17E-09	1.46E-03	2.75E-03	Nonresidential
1705	360950	3800200	5.40E-08	6.26E-08	3.48E-09	1.21E-03	4.02E-03	Nonresidential
1706	361000	3800200	5.10E-08	5.91E-08	3.29E-09	1.15E-03	3.72E-03	Nonresidential
1707	361050	3800200	4.84E-08	5.61E-08	3.12E-09	1.09E-03	3.45E-03	Nonresidential
1708	361100	3800200	4.61E-08	5.34E-08	2.97E-09	1.04E-03	3.20E-03	Nonresidential
1709	361150	3800200	4.40E-08	5.10E-08	2.83E-09	9.89E-04	2.96E-03	Nonresidential
1710	361200	3800200	4.22E-08	4.89E-08	2.72E-09	9.47E-04	2.74E-03	Nonresidential
1711	361250	3800200	4.05E-08	4.70E-08	2.61E-09	9.11E-04	2.54E-03	
1712	361300	3800200	3.91E-08	4.53E-08	2.52E-09	8.79E-04	2.38E-03	
1713	361350	3800200	3.80E-08	4.41E-08	2.45E-09	8.54E-04	2.23E-03	
1714	361400	3800200	3.72E-08	4.31E-08	2.39E-09	8.35E-04	2.12E-03	
1715	361450	3800200	3.65E-08	4.22E-08	2.35E-09	8.19E-04	2.02E-03	
1716	361500	3800200	3.58E-08	4.15E-08	2.31E-09	8.06E-04	1.92E-03	
1717	361550	3800200	3.53E-08	4.09E-08	2.28E-09	7.94E-04	1.83E-03	
1718	361600	3800200	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.74E-03	
1719	358500	3800250	3.79E-08	4.40E-08	2.44E-09	8.52E-04	1.27E-03	
1720	358550	3800250	3.87E-08	4.48E-08	2.49E-09	8.69E-04	1.32E-03	
1721	358600	3800250	3.94E-08	4.56E-08	2.54E-09	8.85E-04	1.37E-03	
1722	358650	3800250	4.01E-08	4.65E-08	2.58E-09	9.01E-04	1.43E-03	
1723	358700	3800250	4.08E-08	4.73E-08	2.63E-09	9.18E-04	1.49E-03	
1724	358750	3800250	4.15E-08	4.81E-08	2.68E-09	9.34E-04	1.56E-03	
1725	358800	3800250	4.25E-08	4.93E-08	2.74E-09	9.56E-04	1.65E-03	
1726	358850	3800250	4.53E-08	5.25E-08	2.92E-09	1.02E-03	1.74E-03	
1727	358900	3800250	5.03E-08	5.83E-08	3.24E-09	1.13E-03	1.85E-03	
1728	358950	3800250	5.88E-08	6.82E-08	3.79E-09	1.32E-03	2.05E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1729	361000	3800250	5.10E-08	5.91E-08	3.29E-09	1.15E-03	3.65E-03	Nonresidential
1730	361050	3800250	4.84E-08	5.60E-08	3.11E-09	1.09E-03	3.42E-03	Nonresidential
1731	361100	3800250	4.60E-08	5.33E-08	2.96E-09	1.03E-03	3.20E-03	Nonresidential
1732	361150	3800250	4.39E-08	5.08E-08	2.83E-09	9.86E-04	3.00E-03	Nonresidential
1733	361200	3800250	4.20E-08	4.87E-08	2.71E-09	9.44E-04	2.82E-03	Nonresidential
1734	361250	3800250	4.04E-08	4.68E-08	2.60E-09	9.07E-04	2.65E-03	Nonresidential
1735	361300	3800250	3.89E-08	4.51E-08	2.51E-09	8.75E-04	2.49E-03	
1736	361350	3800250	3.78E-08	4.38E-08	2.44E-09	8.49E-04	2.34E-03	
1737	361400	3800250	3.69E-08	4.28E-08	2.38E-09	8.30E-04	2.21E-03	
1738	361450	3800250	3.62E-08	4.20E-08	2.33E-09	8.14E-04	2.09E-03	
1739	361500	3800250	3.56E-08	4.13E-08	2.29E-09	8.00E-04	1.97E-03	
1740	361550	3800250	3.51E-08	4.07E-08	2.26E-09	7.88E-04	1.87E-03	
1741	358500	3800300	3.89E-08	4.51E-08	2.50E-09	8.74E-04	1.32E-03	
1742	358550	3800300	3.96E-08	4.59E-08	2.55E-09	8.89E-04	1.37E-03	
1743	358600	3800300	4.03E-08	4.67E-08	2.59E-09	9.05E-04	1.43E-03	
1744	358650	3800300	4.09E-08	4.75E-08	2.64E-09	9.20E-04	1.49E-03	
1745	358700	3800300	4.16E-08	4.82E-08	2.68E-09	9.35E-04	1.56E-03	
1746	358750	3800300	4.23E-08	4.90E-08	2.72E-09	9.50E-04	1.63E-03	
1747	358800	3800300	4.29E-08	4.98E-08	2.77E-09	9.65E-04	1.71E-03	
1748	358850	3800300	4.66E-08	5.40E-08	3.00E-09	1.05E-03	1.79E-03	
1749	358900	3800300	5.29E-08	6.13E-08	3.41E-09	1.19E-03	1.91E-03	
1750	358950	3800300	6.40E-08	7.41E-08	4.12E-09	1.44E-03	2.21E-03	
1751	360950	3800300	5.38E-08	6.24E-08	3.47E-09	1.21E-03	4.12E-03	Nonresidential
1752	361000	3800300	5.08E-08	5.89E-08	3.27E-09	1.14E-03	3.81E-03	Nonresidential
1753	361050	3800300	4.81E-08	5.58E-08	3.10E-09	1.08E-03	3.53E-03	Nonresidential
1754	361100	3800300	4.57E-08	5.30E-08	2.95E-09	1.03E-03	3.27E-03	Nonresidential
1755	361150	3800300	4.36E-08	5.06E-08	2.81E-09	9.80E-04	3.04E-03	Nonresidential
1756	361200	3800300	4.18E-08	4.84E-08	2.69E-09	9.39E-04	2.83E-03	Nonresidential
1757	361250	3800300	4.01E-08	4.65E-08	2.58E-09	9.02E-04	2.64E-03	Nonresidential
1758	361300	3800300	3.87E-08	4.48E-08	2.49E-09	8.69E-04	2.47E-03	
1759	361350	3800300	3.75E-08	4.35E-08	2.42E-09	8.44E-04	2.32E-03	
1760	361400	3800300	3.67E-08	4.25E-08	2.36E-09	8.24E-04	2.18E-03	
1761	361450	3800300	3.59E-08	4.16E-08	2.32E-09	8.08E-04	2.05E-03	
1762	361500	3800300	3.53E-08	4.09E-08	2.28E-09	7.94E-04	1.93E-03	
1763	361550	3800300	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.82E-03	
1764	358500	3800350	3.99E-08	4.62E-08	2.57E-09	8.96E-04	1.33E-03	
1765	358550	3800350	4.05E-08	4.70E-08	2.61E-09	9.11E-04	1.38E-03	
1766	358600	3800350	4.12E-08	4.78E-08	2.65E-09	9.26E-04	1.44E-03	
1767	358650	3800350	4.19E-08	4.85E-08	2.70E-09	9.41E-04	1.50E-03	
1768	358700	3800350	4.25E-08	4.93E-08	2.74E-09	9.56E-04	1.57E-03	
1769	358750	3800350	4.32E-08	5.00E-08	2.78E-09	9.70E-04	1.65E-03	
1770	358800	3800350	4.42E-08	5.12E-08	2.85E-09	9.93E-04	1.72E-03	
1771	358850	3800350	4.70E-08	5.45E-08	3.03E-09	1.06E-03	1.81E-03	
1772	358900	3800350	5.52E-08	6.40E-08	3.56E-09	1.24E-03	1.94E-03	
1773	358950	3800350	6.98E-08	8.08E-08	4.49E-09	1.57E-03	2.39E-03	
1774	360900	3800350	5.68E-08	6.58E-08	3.66E-09	1.28E-03	4.27E-03	Nonresidential
1775	360950	3800350	5.34E-08	6.19E-08	3.44E-09	1.20E-03	4.00E-03	Nonresidential
1776	361000	3800350	5.04E-08	5.84E-08	3.24E-09	1.13E-03	3.74E-03	Nonresidential
1777	361050	3800350	4.77E-08	5.53E-08	3.07E-09	1.07E-03	3.51E-03	Nonresidential
1778	361100	3800350	4.53E-08	5.25E-08	2.92E-09	1.02E-03	3.29E-03	Nonresidential
1779	361150	3800350	4.32E-08	5.01E-08	2.79E-09	9.72E-04	3.07E-03	Nonresidential
1780	361200	3800350	4.14E-08	4.80E-08	2.67E-09	9.30E-04	2.87E-03	Nonresidential
1781	361250	3800350	3.98E-08	4.61E-08	2.56E-09	8.94E-04	2.69E-03	Nonresidential
1782	361300	3800350	3.84E-08	4.44E-08	2.47E-09	8.62E-04	2.53E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1783	361350	3800350	3.72E-08	4.31E-08	2.40E-09	8.36E-04	2.38E-03	
1784	361400	3800350	3.63E-08	4.21E-08	2.34E-09	8.16E-04	2.24E-03	
1785	361450	3800350	3.56E-08	4.13E-08	2.29E-09	8.00E-04	2.12E-03	
1786	361500	3800350	3.50E-08	4.06E-08	2.25E-09	7.86E-04	2.01E-03	
1787	358500	3800400	4.10E-08	4.75E-08	2.64E-09	9.20E-04	1.32E-03	
1788	358550	3800400	4.16E-08	4.82E-08	2.68E-09	9.35E-04	1.38E-03	
1789	358600	3800400	4.22E-08	4.90E-08	2.72E-09	9.49E-04	1.44E-03	
1790	358650	3800400	4.29E-08	4.97E-08	2.76E-09	9.64E-04	1.51E-03	
1791	358700	3800400	4.36E-08	5.05E-08	2.81E-09	9.79E-04	1.60E-03	
1792	358750	3800400	4.58E-08	5.31E-08	2.95E-09	1.03E-03	1.68E-03	
1793	358800	3800400	5.17E-08	5.99E-08	3.33E-09	1.16E-03	1.78E-03	
1794	358850	3800400	5.63E-08	6.53E-08	3.63E-09	1.27E-03	1.88E-03	
1795	358900	3800400	6.51E-08	7.55E-08	4.19E-09	1.46E-03	2.16E-03	
1796	358950	3800400	7.80E-08	9.05E-08	5.03E-09	1.75E-03	2.73E-03	Nonresidential
1797	360800	3800400	6.39E-08	7.41E-08	4.12E-09	1.44E-03	4.93E-03	Nonresidential
1798	360850	3800400	5.97E-08	6.92E-08	3.85E-09	1.34E-03	4.58E-03	Nonresidential
1799	360900	3800400	5.60E-08	6.48E-08	3.60E-09	1.26E-03	4.26E-03	Nonresidential
1800	360950	3800400	5.26E-08	6.10E-08	3.39E-09	1.18E-03	3.98E-03	Nonresidential
1801	361000	3800400	4.97E-08	5.76E-08	3.20E-09	1.12E-03	3.74E-03	Nonresidential
1802	361050	3800400	4.71E-08	5.46E-08	3.03E-09	1.06E-03	3.51E-03	Nonresidential
1803	361100	3800400	4.48E-08	5.19E-08	2.88E-09	1.01E-03	3.29E-03	Nonresidential
1804	361150	3800400	4.27E-08	4.95E-08	2.75E-09	9.60E-04	3.08E-03	Nonresidential
1805	361200	3800400	4.09E-08	4.74E-08	2.64E-09	9.19E-04	2.88E-03	Nonresidential
1806	361250	3800400	3.93E-08	4.56E-08	2.53E-09	8.84E-04	2.70E-03	Nonresidential
1807	361300	3800400	3.79E-08	4.39E-08	2.44E-09	8.52E-04	2.54E-03	
1808	361350	3800400	3.68E-08	4.27E-08	2.37E-09	8.27E-04	2.40E-03	
1809	361400	3800400	3.59E-08	4.16E-08	2.31E-09	8.07E-04	2.26E-03	
1810	361450	3800400	3.52E-08	4.08E-08	2.27E-09	7.91E-04	2.14E-03	
1811	358500	3800450	4.21E-08	4.88E-08	2.71E-09	9.46E-04	1.53E-03	
1812	358550	3800450	4.27E-08	4.95E-08	2.75E-09	9.60E-04	1.61E-03	
1813	358600	3800450	4.34E-08	5.03E-08	2.79E-09	9.75E-04	1.70E-03	
1814	358650	3800450	4.40E-08	5.10E-08	2.84E-09	9.90E-04	1.80E-03	
1815	358700	3800450	4.47E-08	5.18E-08	2.88E-09	1.00E-03	1.90E-03	
1816	358750	3800450	4.74E-08	5.49E-08	3.05E-09	1.06E-03	2.02E-03	
1817	358800	3800450	5.68E-08	6.59E-08	3.66E-09	1.28E-03	2.14E-03	
1818	358850	3800450	6.94E-08	8.04E-08	4.47E-09	1.56E-03	2.28E-03	
1819	358900	3800450	8.03E-08	9.31E-08	5.17E-09	1.80E-03	2.61E-03	Nonresidential
1820	358950	3800450	8.62E-08	9.99E-08	5.55E-09	1.94E-03	2.77E-03	Nonresidential
1821	360800	3800450	6.23E-08	7.22E-08	4.01E-09	1.40E-03	4.80E-03	Nonresidential
1822	360850	3800450	5.83E-08	6.75E-08	3.75E-09	1.31E-03	4.51E-03	Nonresidential
1823	360900	3800450	5.47E-08	6.34E-08	3.52E-09	1.23E-03	4.21E-03	Nonresidential
1824	360950	3800450	5.15E-08	5.97E-08	3.32E-09	1.16E-03	3.91E-03	Nonresidential
1825	361000	3800450	4.87E-08	5.65E-08	3.14E-09	1.10E-03	3.63E-03	Nonresidential
1826	361050	3800450	4.62E-08	5.36E-08	2.98E-09	1.04E-03	3.37E-03	Nonresidential
1827	361100	3800450	4.40E-08	5.10E-08	2.83E-09	9.89E-04	3.14E-03	Nonresidential
1828	361150	3800450	4.20E-08	4.87E-08	2.71E-09	9.44E-04	2.92E-03	Nonresidential
1829	361200	3800450	4.03E-08	4.67E-08	2.60E-09	9.05E-04	2.72E-03	Nonresidential
1830	361250	3800450	3.87E-08	4.49E-08	2.50E-09	8.70E-04	2.54E-03	
1831	361300	3800450	3.74E-08	4.33E-08	2.41E-09	8.40E-04	2.39E-03	
1832	361350	3800450	3.63E-08	4.21E-08	2.34E-09	8.16E-04	2.26E-03	
1833	361400	3800450	3.55E-08	4.11E-08	2.28E-09	7.97E-04	2.13E-03	
1834	358450	3800500	4.27E-08	4.95E-08	2.75E-09	9.59E-04	1.66E-03	
1835	358500	3800500	4.33E-08	5.02E-08	2.79E-09	9.73E-04	1.76E-03	
1836	358550	3800500	4.39E-08	5.09E-08	2.83E-09	9.88E-04	1.85E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1837	358600	3800500	4.46E-08	5.17E-08	2.87E-09	1.00E-03	1.96E-03	
1838	358650	3800500	4.53E-08	5.25E-08	2.92E-09	1.02E-03	2.08E-03	
1839	358700	3800500	4.64E-08	5.38E-08	2.99E-09	1.04E-03	2.20E-03	
1840	358750	3800500	5.28E-08	6.12E-08	3.40E-09	1.19E-03	2.34E-03	
1841	358800	3800500	6.40E-08	7.42E-08	4.13E-09	1.44E-03	2.49E-03	
1842	358850	3800500	6.98E-08	8.09E-08	4.50E-09	1.57E-03	2.65E-03	Nonresidential
1843	358900	3800500	7.95E-08	9.21E-08	5.12E-09	1.79E-03	2.83E-03	Nonresidential
1844	358950	3800500	9.14E-08	1.06E-07	5.89E-09	2.05E-03	3.02E-03	Nonresidential
1845	360700	3800500	6.85E-08	7.94E-08	4.41E-09	1.54E-03	5.60E-03	Nonresidential
1846	360750	3800500	6.41E-08	7.43E-08	4.13E-09	1.44E-03	5.22E-03	Nonresidential
1847	360800	3800500	6.00E-08	6.96E-08	3.87E-09	1.35E-03	4.82E-03	Nonresidential
1848	360850	3800500	5.64E-08	6.53E-08	3.63E-09	1.27E-03	4.47E-03	Nonresidential
1849	360900	3800500	5.31E-08	6.15E-08	3.42E-09	1.19E-03	4.12E-03	Nonresidential
1850	360950	3800500	5.01E-08	5.81E-08	3.23E-09	1.13E-03	3.81E-03	Nonresidential
1851	361000	3800500	4.75E-08	5.50E-08	3.06E-09	1.07E-03	3.57E-03	Nonresidential
1852	361050	3800500	4.51E-08	5.23E-08	2.91E-09	1.01E-03	3.37E-03	Nonresidential
1853	361100	3800500	4.30E-08	4.99E-08	2.77E-09	9.67E-04	3.17E-03	Nonresidential
1854	361150	3800500	4.12E-08	4.77E-08	2.65E-09	9.25E-04	2.98E-03	Nonresidential
1855	361200	3800500	3.95E-08	4.58E-08	2.55E-09	8.88E-04	2.80E-03	Nonresidential
1856	361250	3800500	3.80E-08	4.41E-08	2.45E-09	8.55E-04	2.64E-03	Nonresidential
1857	361300	3800500	3.68E-08	4.26E-08	2.37E-09	8.26E-04	2.48E-03	
1858	361350	3800500	3.57E-08	4.14E-08	2.30E-09	8.03E-04	2.33E-03	
1859	361400	3800500	3.49E-08	4.05E-08	2.25E-09	7.85E-04	2.20E-03	
1860	358450	3800550	4.39E-08	5.09E-08	2.83E-09	9.88E-04	1.86E-03	
1861	358500	3800550	4.46E-08	5.17E-08	2.87E-09	1.00E-03	1.96E-03	
1862	358550	3800550	4.53E-08	5.24E-08	2.92E-09	1.02E-03	2.08E-03	
1863	358600	3800550	4.63E-08	5.36E-08	2.98E-09	1.04E-03	2.20E-03	
1864	358650	3800550	5.05E-08	5.85E-08	3.25E-09	1.13E-03	2.33E-03	
1865	358700	3800550	5.43E-08	6.29E-08	3.50E-09	1.22E-03	2.47E-03	
1866	358750	3800550	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.63E-03	Nonresidential
1867	358800	3800550	6.37E-08	7.38E-08	4.10E-09	1.43E-03	2.80E-03	Nonresidential
1868	358850	3800550	6.49E-08	7.53E-08	4.18E-09	1.46E-03	2.98E-03	Nonresidential
1869	358900	3800550	7.61E-08	8.82E-08	4.91E-09	1.71E-03	3.18E-03	Nonresidential
1870	358950	3800550	8.89E-08	1.03E-07	5.72E-09	2.00E-03	3.39E-03	Nonresidential
1871	360700	3800550	6.49E-08	7.52E-08	4.18E-09	1.46E-03	5.33E-03	Nonresidential
1872	360750	3800550	6.10E-08	7.07E-08	3.93E-09	1.37E-03	4.97E-03	Nonresidential
1873	360800	3800550	5.74E-08	6.65E-08	3.70E-09	1.29E-03	4.77E-03	Nonresidential
1874	360850	3800550	5.41E-08	6.27E-08	3.49E-09	1.22E-03	4.51E-03	Nonresidential
1875	360900	3800550	5.12E-08	5.93E-08	3.30E-09	1.15E-03	4.21E-03	Nonresidential
1876	360950	3800550	4.85E-08	5.62E-08	3.12E-09	1.09E-03	3.91E-03	Nonresidential
1877	361000	3800550	4.61E-08	5.34E-08	2.97E-09	1.03E-03	3.66E-03	Nonresidential
1878	361050	3800550	4.39E-08	5.08E-08	2.83E-09	9.86E-04	3.41E-03	Nonresidential
1879	361100	3800550	4.19E-08	4.86E-08	2.70E-09	9.42E-04	3.16E-03	Nonresidential
1880	361150	3800550	4.02E-08	4.66E-08	2.59E-09	9.03E-04	2.93E-03	Nonresidential
1881	361200	3800550	3.86E-08	4.48E-08	2.49E-09	8.68E-04	2.71E-03	Nonresidential
1882	361250	3800550	3.72E-08	4.32E-08	2.40E-09	8.37E-04	2.53E-03	
1883	361300	3800550	3.60E-08	4.18E-08	2.32E-09	8.10E-04	2.42E-03	
1884	361350	3800550	3.51E-08	4.07E-08	2.26E-09	7.88E-04	2.30E-03	
1885	358450	3800600	4.53E-08	5.25E-08	2.92E-09	1.02E-03	2.03E-03	
1886	358500	3800600	4.60E-08	5.33E-08	2.96E-09	1.03E-03	2.15E-03	
1887	358550	3800600	4.67E-08	5.41E-08	3.01E-09	1.05E-03	2.27E-03	
1888	358600	3800600	4.74E-08	5.49E-08	3.05E-09	1.07E-03	2.46E-03	
1889	358650	3800600	4.82E-08	5.59E-08	3.10E-09	1.08E-03	2.59E-03	Nonresidential
1890	358700	3800600	5.14E-08	5.96E-08	3.31E-09	1.16E-03	2.70E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1891	358750	3800600	5.32E-08	6.17E-08	3.43E-09	1.20E-03	2.86E-03	Nonresidential
1892	358800	3800600	5.67E-08	6.57E-08	3.65E-09	1.27E-03	3.04E-03	Nonresidential
1893	358850	3800600	6.55E-08	7.59E-08	4.22E-09	1.47E-03	3.23E-03	Nonresidential
1894	358900	3800600	7.94E-08	9.20E-08	5.12E-09	1.78E-03	3.44E-03	Nonresidential
1895	358950	3800600	8.61E-08	9.98E-08	5.55E-09	1.93E-03	3.66E-03	Nonresidential
1896	360600	3800600	6.86E-08	7.95E-08	4.42E-09	1.54E-03	6.19E-03	Nonresidential
1897	360650	3800600	6.47E-08	7.50E-08	4.17E-09	1.45E-03	5.58E-03	Nonresidential
1898	360700	3800600	6.11E-08	7.08E-08	3.94E-09	1.37E-03	5.26E-03	Nonresidential
1899	360750	3800600	5.77E-08	6.69E-08	3.72E-09	1.30E-03	4.84E-03	Nonresidential
1900	360800	3800600	5.46E-08	6.33E-08	3.52E-09	1.23E-03	4.36E-03	Nonresidential
1901	360850	3800600	5.17E-08	5.99E-08	3.33E-09	1.16E-03	4.20E-03	Nonresidential
1902	360900	3800600	4.91E-08	5.69E-08	3.16E-09	1.10E-03	4.00E-03	Nonresidential
1903	360950	3800600	4.66E-08	5.41E-08	3.00E-09	1.05E-03	3.79E-03	Nonresidential
1904	361000	3800600	4.45E-08	5.15E-08	2.86E-09	9.99E-04	3.58E-03	Nonresidential
1905	361050	3800600	4.25E-08	4.92E-08	2.74E-09	9.54E-04	3.35E-03	Nonresidential
1906	361100	3800600	4.07E-08	4.72E-08	2.62E-09	9.14E-04	3.17E-03	Nonresidential
1907	361150	3800600	3.91E-08	4.53E-08	2.52E-09	8.78E-04	2.99E-03	Nonresidential
1908	361200	3800600	3.76E-08	4.36E-08	2.43E-09	8.46E-04	2.81E-03	Nonresidential
1909	361250	3800600	3.64E-08	4.21E-08	2.34E-09	8.17E-04	2.63E-03	Nonresidential
1910	361300	3800600	3.53E-08	4.09E-08	2.27E-09	7.92E-04	2.46E-03	
1911	358450	3800650	4.67E-08	5.41E-08	3.01E-09	1.05E-03	2.18E-03	
1912	358500	3800650	4.74E-08	5.50E-08	3.06E-09	1.07E-03	2.30E-03	
1913	358550	3800650	4.82E-08	5.58E-08	3.10E-09	1.08E-03	2.42E-03	
1914	358600	3800650	4.90E-08	5.68E-08	3.15E-09	1.10E-03	2.60E-03	Nonresidential
1915	358650	3800650	4.98E-08	5.77E-08	3.21E-09	1.12E-03	2.84E-03	Nonresidential
1916	358700	3800650	5.08E-08	5.88E-08	3.27E-09	1.14E-03	3.01E-03	Nonresidential
1917	358750	3800650	5.21E-08	6.04E-08	3.36E-09	1.17E-03	3.17E-03	Nonresidential
1918	358800	3800650	5.90E-08	6.83E-08	3.80E-09	1.32E-03	3.23E-03	Nonresidential
1919	358850	3800650	7.06E-08	8.18E-08	4.55E-09	1.59E-03	3.39E-03	Nonresidential
1920	358900	3800650	8.09E-08	9.38E-08	5.21E-09	1.82E-03	3.59E-03	Nonresidential
1921	360500	3800650	7.37E-08	8.54E-08	4.75E-09	1.66E-03	6.66E-03	Nonresidential
1922	360550	3800650	6.85E-08	7.94E-08	4.41E-09	1.54E-03	6.84E-03	Nonresidential
1923	360600	3800650	6.44E-08	7.46E-08	4.15E-09	1.45E-03	6.29E-03	Nonresidential
1924	360650	3800650	6.07E-08	7.04E-08	3.91E-09	1.36E-03	5.50E-03	Nonresidential
1925	360700	3800650	5.75E-08	6.66E-08	3.70E-09	1.29E-03	5.10E-03	Nonresidential
1926	360750	3800650	5.45E-08	6.32E-08	3.51E-09	1.22E-03	4.68E-03	Nonresidential
1927	360800	3800650	5.18E-08	6.00E-08	3.33E-09	1.16E-03	4.38E-03	Nonresidential
1928	360850	3800650	4.92E-08	5.70E-08	3.17E-09	1.11E-03	3.98E-03	Nonresidential
1929	360900	3800650	4.69E-08	5.43E-08	3.02E-09	1.05E-03	3.72E-03	Nonresidential
1930	360950	3800650	4.47E-08	5.18E-08	2.88E-09	1.01E-03	3.61E-03	Nonresidential
1931	361000	3800650	4.28E-08	4.96E-08	2.76E-09	9.61E-04	3.43E-03	Nonresidential
1932	361050	3800650	4.10E-08	4.75E-08	2.64E-09	9.21E-04	3.21E-03	Nonresidential
1933	361100	3800650	3.94E-08	4.56E-08	2.54E-09	8.85E-04	3.02E-03	Nonresidential
1934	361150	3800650	3.79E-08	4.40E-08	2.44E-09	8.52E-04	2.86E-03	Nonresidential
1935	361200	3800650	3.66E-08	4.24E-08	2.36E-09	8.23E-04	2.75E-03	Nonresidential
1936	361250	3800650	3.54E-08	4.11E-08	2.28E-09	7.96E-04	2.63E-03	Nonresidential
1937	361300	3800650	3.44E-08	3.99E-08	2.22E-09	7.74E-04	2.49E-03	
1938	358450	3800700	4.82E-08	5.59E-08	3.10E-09	1.08E-03	2.28E-03	
1939	358500	3800700	4.90E-08	5.67E-08	3.15E-09	1.10E-03	2.40E-03	
1940	358550	3800700	4.98E-08	5.77E-08	3.21E-09	1.12E-03	2.53E-03	
1941	358600	3800700	5.06E-08	5.87E-08	3.26E-09	1.14E-03	2.66E-03	Nonresidential
1942	358650	3800700	5.16E-08	5.98E-08	3.32E-09	1.16E-03	2.93E-03	Nonresidential
1943	358700	3800700	5.26E-08	6.10E-08	3.39E-09	1.18E-03	3.15E-03	Nonresidential
1944	358750	3800700	5.57E-08	6.46E-08	3.59E-09	1.25E-03	3.30E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1945	358800	3800700	6.35E-08	7.36E-08	4.09E-09	1.43E-03	3.32E-03	Nonresidential
1946	358850	3800700	7.42E-08	8.60E-08	4.78E-09	1.67E-03	3.45E-03	Nonresidential
1947	358900	3800700	8.22E-08	9.52E-08	5.29E-09	1.85E-03	3.63E-03	Nonresidential
1948	358950	3800700	8.60E-08	9.97E-08	5.54E-09	1.93E-03	3.81E-03	Nonresidential
1949	359000	3800700	8.05E-08	9.33E-08	5.19E-09	1.81E-03	4.00E-03	Nonresidential
1950	359050	3800700	7.37E-08	8.54E-08	4.75E-09	1.66E-03	4.19E-03	Nonresidential
1951	359100	3800700	7.57E-08	8.77E-08	4.88E-09	1.70E-03	4.38E-03	Nonresidential
1952	359150	3800700	8.61E-08	9.98E-08	5.55E-09	1.93E-03	4.53E-03	Nonresidential
1953	359200	3800700	1.02E-07	1.18E-07	6.57E-09	2.29E-03	4.68E-03	Nonresidential
1954	359250	3800700	1.24E-07	1.43E-07	7.96E-09	2.78E-03	4.80E-03	Nonresidential
1955	359300	3800700	1.40E-07	1.62E-07	9.01E-09	3.14E-03	4.87E-03	Nonresidential
1956	359350	3800700	1.41E-07	1.63E-07	9.06E-09	3.16E-03	4.88E-03	Nonresidential
1957	359400	3800700	1.30E-07	1.50E-07	8.35E-09	2.91E-03	4.98E-03	Nonresidential
1958	359450	3800700	1.31E-07	1.52E-07	8.46E-09	2.95E-03	5.72E-03	Nonresidential
1959	359500	3800700	1.43E-07	1.65E-07	9.18E-09	3.20E-03	6.31E-03	Nonresidential
1960	359550	3800700	1.72E-07	2.00E-07	1.11E-08	3.87E-03	6.98E-03	Nonresidential
1961	359600	3800700	2.34E-07	2.71E-07	1.51E-08	5.26E-03	8.71E-03	Unoccupied
1962	359650	3800700	3.23E-07	3.74E-07	2.08E-08	7.25E-03	1.03E-02	Unoccupied
1963	359700	3800700	3.59E-07	4.16E-07	2.31E-08	8.06E-03	1.15E-02	Unoccupied
1964	359750	3800700	4.22E-07	4.89E-07	2.72E-08	9.48E-03	1.27E-02	Unoccupied
1965	359800	3800700	4.57E-07	5.30E-07	2.95E-08	1.03E-02	1.26E-02	Unoccupied
1966	359850	3800700	4.57E-07	5.30E-07	2.94E-08	1.03E-02	1.05E-02	Unoccupied
1967	359900	3800700	4.69E-07	5.44E-07	3.02E-08	1.05E-02	1.20E-02	Unoccupied
1968	359950	3800700	5.33E-07	6.17E-07	3.43E-08	1.20E-02	1.36E-02	Unoccupied
1969	360000	3800700	4.10E-07	4.75E-07	2.64E-08	9.21E-03	9.83E-03	Unoccupied
1970	360050	3800700	3.89E-07	4.51E-07	2.51E-08	8.74E-03	8.82E-03	Unoccupied
1971	360100	3800700	3.69E-07	4.28E-07	2.38E-08	8.30E-03	1.01E-02	Unoccupied
1972	360150	3800700	4.10E-07	4.75E-07	2.64E-08	9.21E-03	1.51E-02	Unoccupied
1973	360200	3800700	2.95E-07	3.42E-07	1.90E-08	6.64E-03	1.27E-02	Unoccupied
1974	360250	3800700	1.81E-07	2.10E-07	1.17E-08	4.07E-03	1.00E-02	Nonresidential
1975	360300	3800700	1.30E-07	1.50E-07	8.34E-09	2.91E-03	7.81E-03	Nonresidential
1976	360350	3800700	1.04E-07	1.20E-07	6.70E-09	2.34E-03	7.69E-03	Nonresidential
1977	360400	3800700	8.79E-08	1.02E-07	5.66E-09	1.97E-03	6.92E-03	Nonresidential
1978	360450	3800700	7.75E-08	8.98E-08	4.99E-09	1.74E-03	6.04E-03	Nonresidential
1979	360500	3800700	7.02E-08	8.14E-08	4.53E-09	1.58E-03	5.32E-03	Nonresidential
1980	360550	3800700	6.49E-08	7.52E-08	4.18E-09	1.46E-03	5.60E-03	Nonresidential
1981	360600	3800700	6.07E-08	7.04E-08	3.91E-09	1.36E-03	5.69E-03	Nonresidential
1982	360650	3800700	5.72E-08	6.63E-08	3.69E-09	1.29E-03	5.34E-03	Nonresidential
1983	360700	3800700	5.42E-08	6.28E-08	3.49E-09	1.22E-03	4.81E-03	Nonresidential
1984	360750	3800700	5.15E-08	5.97E-08	3.32E-09	1.16E-03	4.62E-03	Nonresidential
1985	360800	3800700	4.90E-08	5.68E-08	3.16E-09	1.10E-03	4.25E-03	Nonresidential
1986	360850	3800700	4.68E-08	5.42E-08	3.02E-09	1.05E-03	3.94E-03	Nonresidential
1987	360900	3800700	4.47E-08	5.18E-08	2.88E-09	1.01E-03	3.69E-03	Nonresidential
1988	360950	3800700	4.28E-08	4.96E-08	2.76E-09	9.63E-04	3.39E-03	Nonresidential
1989	361000	3800700	4.11E-08	4.76E-08	2.65E-09	9.23E-04	3.14E-03	Nonresidential
1990	361050	3800700	3.95E-08	4.58E-08	2.54E-09	8.88E-04	3.08E-03	Nonresidential
1991	361100	3800700	3.80E-08	4.41E-08	2.45E-09	8.55E-04	2.96E-03	Nonresidential
1992	361150	3800700	3.67E-08	4.26E-08	2.37E-09	8.25E-04	2.81E-03	Nonresidential
1993	361200	3800700	3.55E-08	4.12E-08	2.29E-09	7.98E-04	2.64E-03	Nonresidential
1994	361250	3800700	3.45E-08	3.99E-08	2.22E-09	7.74E-04	2.47E-03	
1995	358450	3800750	4.97E-08	5.76E-08	3.20E-09	1.12E-03	2.35E-03	
1996	358500	3800750	5.05E-08	5.86E-08	3.26E-09	1.14E-03	2.46E-03	
1997	358550	3800750	5.14E-08	5.96E-08	3.31E-09	1.16E-03	2.58E-03	Nonresidential
1998	358600	3800750	5.24E-08	6.07E-08	3.37E-09	1.18E-03	2.71E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
1999	358650	3800750	5.34E-08	6.19E-08	3.44E-09	1.20E-03	2.96E-03	Nonresidential
2000	358700	3800750	5.46E-08	6.33E-08	3.52E-09	1.23E-03	3.20E-03	Nonresidential
2001	358750	3800750	5.59E-08	6.47E-08	3.60E-09	1.26E-03	3.34E-03	Nonresidential
2002	358800	3800750	5.98E-08	6.93E-08	3.85E-09	1.34E-03	3.47E-03	Nonresidential
2003	358850	3800750	6.95E-08	8.06E-08	4.48E-09	1.56E-03	3.41E-03	Nonresidential
2004	358900	3800750	7.36E-08	8.53E-08	4.74E-09	1.65E-03	3.55E-03	Nonresidential
2005	358950	3800750	7.86E-08	9.11E-08	5.07E-09	1.77E-03	3.70E-03	Nonresidential
2006	359000	3800750	7.69E-08	8.92E-08	4.96E-09	1.73E-03	3.84E-03	Nonresidential
2007	359050	3800750	7.10E-08	8.22E-08	4.57E-09	1.59E-03	4.04E-03	Nonresidential
2008	359100	3800750	7.37E-08	8.54E-08	4.75E-09	1.66E-03	4.11E-03	Nonresidential
2009	359150	3800750	7.93E-08	9.19E-08	5.11E-09	1.78E-03	4.16E-03	Nonresidential
2010	359200	3800750	9.09E-08	1.05E-07	5.86E-09	2.04E-03	4.22E-03	Nonresidential
2011	359250	3800750	1.07E-07	1.24E-07	6.92E-09	2.41E-03	4.32E-03	Nonresidential
2012	359300	3800750	1.23E-07	1.42E-07	7.90E-09	2.76E-03	4.51E-03	Nonresidential
2013	359350	3800750	1.40E-07	1.62E-07	9.01E-09	3.14E-03	4.84E-03	Nonresidential
2014	359400	3800750	1.29E-07	1.49E-07	8.28E-09	2.89E-03	5.59E-03	Nonresidential
2015	359450	3800750	1.28E-07	1.49E-07	8.26E-09	2.88E-03	5.63E-03	Nonresidential
2016	359500	3800750	1.42E-07	1.65E-07	9.15E-09	3.19E-03	5.67E-03	Nonresidential
2017	359550	3800750	1.62E-07	1.88E-07	1.04E-08	3.64E-03	5.78E-03	Nonresidential
2018	359600	3800750	1.89E-07	2.19E-07	1.22E-08	4.25E-03	5.94E-03	Nonresidential
2019	359650	3800750	2.71E-07	3.15E-07	1.75E-08	6.10E-03	7.09E-03	Unoccupied
2020	359700	3800750	2.76E-07	3.19E-07	1.78E-08	6.19E-03	7.20E-03	Unoccupied
2021	359750	3800750	3.20E-07	3.71E-07	2.06E-08	7.19E-03	8.00E-03	Unoccupied
2022	359800	3800750	3.30E-07	3.83E-07	2.13E-08	7.42E-03	8.24E-03	Unoccupied
2023	359850	3800750	3.69E-07	4.27E-07	2.37E-08	8.28E-03	9.49E-03	Unoccupied
2024	359900	3800750	3.77E-07	4.36E-07	2.43E-08	8.46E-03	9.65E-03	Unoccupied
2025	359950	3800750	4.04E-07	4.68E-07	2.60E-08	9.08E-03	9.91E-03	Unoccupied
2026	360000	3800750	3.71E-07	4.29E-07	2.39E-08	8.33E-03	8.24E-03	Unoccupied
2027	360050	3800750	3.50E-07	4.06E-07	2.26E-08	7.87E-03	8.07E-03	Unoccupied
2028	360100	3800750	3.11E-07	3.61E-07	2.00E-08	6.99E-03	9.20E-03	Unoccupied
2029	360150	3800750	2.69E-07	3.12E-07	1.73E-08	6.04E-03	9.67E-03	Unoccupied
2030	360200	3800750	2.18E-07	2.53E-07	1.40E-08	4.90E-03	9.88E-03	Unoccupied
2031	360250	3800750	1.60E-07	1.86E-07	1.03E-08	3.60E-03	9.00E-03	Nonresidential
2032	360300	3800750	1.25E-07	1.45E-07	8.07E-09	2.82E-03	7.04E-03	Nonresidential
2033	360350	3800750	1.01E-07	1.17E-07	6.53E-09	2.28E-03	6.98E-03	Nonresidential
2034	360400	3800750	8.55E-08	9.90E-08	5.51E-09	1.92E-03	6.38E-03	Nonresidential
2035	360450	3800750	7.48E-08	8.67E-08	4.82E-09	1.68E-03	5.90E-03	Nonresidential
2036	360500	3800750	6.74E-08	7.81E-08	4.34E-09	1.51E-03	5.37E-03	Nonresidential
2037	360550	3800750	6.19E-08	7.18E-08	3.99E-09	1.39E-03	4.97E-03	Nonresidential
2038	360600	3800750	5.77E-08	6.68E-08	3.72E-09	1.30E-03	5.11E-03	Nonresidential
2039	360650	3800750	5.42E-08	6.28E-08	3.49E-09	1.22E-03	4.99E-03	Nonresidential
2040	360700	3800750	5.13E-08	5.95E-08	3.31E-09	1.15E-03	4.56E-03	Nonresidential
2041	360750	3800750	4.88E-08	5.65E-08	3.14E-09	1.10E-03	4.19E-03	Nonresidential
2042	360800	3800750	4.66E-08	5.40E-08	3.00E-09	1.05E-03	4.12E-03	Nonresidential
2043	360850	3800750	4.45E-08	5.16E-08	2.87E-09	1.00E-03	3.91E-03	Nonresidential
2044	360900	3800750	4.27E-08	4.95E-08	2.75E-09	9.59E-04	3.57E-03	Nonresidential
2045	360950	3800750	4.10E-08	4.75E-08	2.64E-09	9.21E-04	3.35E-03	Nonresidential
2046	361000	3800750	3.94E-08	4.57E-08	2.54E-09	8.86E-04	3.15E-03	Nonresidential
2047	361050	3800750	3.80E-08	4.41E-08	2.45E-09	8.54E-04	2.91E-03	Nonresidential
2048	361100	3800750	3.67E-08	4.26E-08	2.37E-09	8.25E-04	2.68E-03	Nonresidential
2049	361150	3800750	3.55E-08	4.12E-08	2.29E-09	7.99E-04	2.64E-03	Nonresidential
2050	361200	3800750	3.45E-08	3.99E-08	2.22E-09	7.74E-04	2.57E-03	Nonresidential
2051	358450	3800800	5.13E-08	5.95E-08	3.31E-09	1.15E-03	2.37E-03	
2052	358500	3800800	5.22E-08	6.05E-08	3.36E-09	1.17E-03	2.48E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2053	358550	3800800	5.32E-08	6.16E-08	3.42E-09	1.19E-03	2.59E-03	Nonresidential
2054	358600	3800800	5.42E-08	6.28E-08	3.49E-09	1.22E-03	2.71E-03	Nonresidential
2055	358650	3800800	5.54E-08	6.42E-08	3.57E-09	1.24E-03	2.81E-03	Nonresidential
2056	358700	3800800	5.66E-08	6.56E-08	3.65E-09	1.27E-03	2.99E-03	Nonresidential
2057	358750	3800800	5.81E-08	6.73E-08	3.74E-09	1.30E-03	3.16E-03	Nonresidential
2058	358800	3800800	5.97E-08	6.92E-08	3.84E-09	1.34E-03	3.35E-03	Nonresidential
2059	358850	3800800	6.74E-08	7.81E-08	4.34E-09	1.51E-03	3.35E-03	Nonresidential
2060	358900	3800800	6.86E-08	7.95E-08	4.42E-09	1.54E-03	3.44E-03	Nonresidential
2061	358950	3800800	7.04E-08	8.16E-08	4.53E-09	1.58E-03	3.51E-03	Nonresidential
2062	359000	3800800	7.66E-08	8.88E-08	4.94E-09	1.72E-03	3.56E-03	Nonresidential
2063	359050	3800800	7.20E-08	8.34E-08	4.64E-09	1.62E-03	3.64E-03	Nonresidential
2064	359100	3800800	7.57E-08	8.78E-08	4.88E-09	1.70E-03	3.71E-03	Nonresidential
2065	359150	3800800	8.02E-08	9.30E-08	5.17E-09	1.80E-03	3.87E-03	Nonresidential
2066	359200	3800800	8.91E-08	1.03E-07	5.74E-09	2.00E-03	4.17E-03	Nonresidential
2067	359250	3800800	9.50E-08	1.10E-07	6.12E-09	2.13E-03	4.52E-03	Nonresidential
2068	359300	3800800	1.14E-07	1.33E-07	7.37E-09	2.57E-03	4.93E-03	Nonresidential
2069	359350	3800800	1.34E-07	1.56E-07	8.66E-09	3.02E-03	5.06E-03	Nonresidential
2070	359400	3800800	1.32E-07	1.53E-07	8.53E-09	2.98E-03	5.61E-03	Nonresidential
2071	359450	3800800	1.34E-07	1.56E-07	8.66E-09	3.02E-03	5.24E-03	Nonresidential
2072	359500	3800800	1.49E-07	1.73E-07	9.59E-09	3.35E-03	5.18E-03	Nonresidential
2073	359550	3800800	1.67E-07	1.94E-07	1.08E-08	3.75E-03	5.05E-03	Nonresidential
2074	359600	3800800	1.97E-07	2.29E-07	1.27E-08	4.43E-03	5.46E-03	Nonresidential
2075	359650	3800800	2.36E-07	2.73E-07	1.52E-08	5.29E-03	6.25E-03	Unoccupied
2076	359700	3800800	2.45E-07	2.84E-07	1.58E-08	5.51E-03	6.48E-03	Unoccupied
2077	359750	3800800	2.79E-07	3.23E-07	1.80E-08	6.27E-03	6.88E-03	Unoccupied
2078	359800	3800800	2.97E-07	3.45E-07	1.92E-08	6.68E-03	7.67E-03	Unoccupied
2079	359850	3800800	3.44E-07	3.99E-07	2.22E-08	7.74E-03	8.58E-03	Unoccupied
2080	359900	3800800	3.56E-07	4.13E-07	2.29E-08	8.00E-03	8.75E-03	Unoccupied
2081	359950	3800800	3.44E-07	3.99E-07	2.22E-08	7.73E-03	8.15E-03	Unoccupied
2082	360000	3800800	3.38E-07	3.92E-07	2.18E-08	7.60E-03	7.30E-03	Unoccupied
2083	360050	3800800	3.14E-07	3.64E-07	2.02E-08	7.05E-03	7.51E-03	Unoccupied
2084	360100	3800800	2.78E-07	3.22E-07	1.79E-08	6.25E-03	8.85E-03	Unoccupied
2085	360150	3800800	2.35E-07	2.72E-07	1.51E-08	5.27E-03	8.65E-03	Unoccupied
2086	360200	3800800	1.90E-07	2.21E-07	1.23E-08	4.28E-03	8.66E-03	Nonresidential
2087	360250	3800800	1.51E-07	1.75E-07	9.73E-09	3.39E-03	8.02E-03	Nonresidential
2088	360300	3800800	1.20E-07	1.39E-07	7.75E-09	2.70E-03	6.62E-03	Nonresidential
2089	360350	3800800	9.82E-08	1.14E-07	6.32E-09	2.21E-03	6.21E-03	Nonresidential
2090	360400	3800800	8.29E-08	9.61E-08	5.34E-09	1.86E-03	5.90E-03	Nonresidential
2091	360450	3800800	7.24E-08	8.39E-08	4.66E-09	1.63E-03	5.46E-03	Nonresidential
2092	360500	3800800	6.49E-08	7.52E-08	4.18E-09	1.46E-03	5.29E-03	Nonresidential
2093	360550	3800800	5.94E-08	6.88E-08	3.82E-09	1.33E-03	4.89E-03	Nonresidential
2094	360600	3800800	5.51E-08	6.38E-08	3.55E-09	1.24E-03	4.50E-03	Nonresidential
2095	360650	3800800	5.17E-08	5.99E-08	3.33E-09	1.16E-03	4.71E-03	Nonresidential
2096	360700	3800800	4.88E-08	5.66E-08	3.15E-09	1.10E-03	4.56E-03	Nonresidential
2097	360750	3800800	4.64E-08	5.38E-08	2.99E-09	1.04E-03	4.07E-03	Nonresidential
2098	360800	3800800	4.43E-08	5.14E-08	2.86E-09	9.96E-04	3.65E-03	Nonresidential
2099	360850	3800800	4.25E-08	4.92E-08	2.74E-09	9.54E-04	3.65E-03	Nonresidential
2100	360900	3800800	4.08E-08	4.73E-08	2.63E-09	9.16E-04	3.55E-03	Nonresidential
2101	360950	3800800	3.93E-08	4.55E-08	2.53E-09	8.82E-04	3.33E-03	Nonresidential
2102	361000	3800800	3.79E-08	4.39E-08	2.44E-09	8.51E-04	3.06E-03	Nonresidential
2103	361050	3800800	3.66E-08	4.24E-08	2.36E-09	8.22E-04	2.91E-03	Nonresidential
2104	361100	3800800	3.54E-08	4.11E-08	2.28E-09	7.96E-04	2.72E-03	Nonresidential
2105	361150	3800800	3.44E-08	3.98E-08	2.21E-09	7.72E-04	2.53E-03	
2106	358500	3800850	5.39E-08	6.25E-08	3.47E-09	1.21E-03	2.45E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2107	358550	3800850	5.49E-08	6.37E-08	3.54E-09	1.23E-03	2.54E-03	
2108	358600	3800850	5.61E-08	6.50E-08	3.61E-09	1.26E-03	2.63E-03	Nonresidential
2109	358650	3800850	5.74E-08	6.65E-08	3.70E-09	1.29E-03	2.72E-03	Nonresidential
2110	358700	3800850	5.88E-08	6.81E-08	3.79E-09	1.32E-03	2.81E-03	Nonresidential
2111	358750	3800850	6.04E-08	7.00E-08	3.89E-09	1.36E-03	2.90E-03	Nonresidential
2112	358800	3800850	6.22E-08	7.21E-08	4.01E-09	1.40E-03	3.12E-03	Nonresidential
2113	358850	3800850	6.81E-08	7.89E-08	4.39E-09	1.53E-03	3.10E-03	Nonresidential
2114	358900	3800850	6.82E-08	7.90E-08	4.39E-09	1.53E-03	3.16E-03	Nonresidential
2115	358950	3800850	6.93E-08	8.03E-08	4.46E-09	1.56E-03	3.21E-03	Nonresidential
2116	359000	3800850	7.52E-08	8.71E-08	4.84E-09	1.69E-03	3.33E-03	Nonresidential
2117	359050	3800850	7.60E-08	8.81E-08	4.90E-09	1.71E-03	3.56E-03	Nonresidential
2118	359100	3800850	8.03E-08	9.30E-08	5.17E-09	1.80E-03	3.82E-03	Nonresidential
2119	359150	3800850	8.53E-08	9.88E-08	5.49E-09	1.92E-03	4.09E-03	Nonresidential
2120	359200	3800850	9.14E-08	1.06E-07	5.89E-09	2.05E-03	4.37E-03	Nonresidential
2121	359250	3800850	9.84E-08	1.14E-07	6.34E-09	2.21E-03	4.57E-03	Nonresidential
2122	359300	3800850	1.11E-07	1.29E-07	7.16E-09	2.50E-03	4.93E-03	Nonresidential
2123	359350	3800850	1.21E-07	1.40E-07	7.77E-09	2.71E-03	5.01E-03	Nonresidential
2124	359400	3800850	1.34E-07	1.55E-07	8.64E-09	3.01E-03	5.05E-03	Nonresidential
2125	359450	3800850	1.42E-07	1.65E-07	9.18E-09	3.20E-03	4.81E-03	Nonresidential
2126	359500	3800850	1.58E-07	1.83E-07	1.02E-08	3.56E-03	4.59E-03	Nonresidential
2127	359550	3800850	1.76E-07	2.04E-07	1.14E-08	3.96E-03	4.83E-03	Nonresidential
2128	359600	3800850	1.97E-07	2.28E-07	1.27E-08	4.42E-03	5.39E-03	Nonresidential
2129	359650	3800850	2.24E-07	2.59E-07	1.44E-08	5.02E-03	5.70E-03	Unoccupied
2130	359700	3800850	2.42E-07	2.81E-07	1.56E-08	5.45E-03	5.98E-03	Unoccupied
2131	359750	3800850	2.66E-07	3.08E-07	1.71E-08	5.98E-03	6.72E-03	Unoccupied
2132	359800	3800850	2.88E-07	3.34E-07	1.85E-08	6.47E-03	7.16E-03	Unoccupied
2133	359850	3800850	3.22E-07	3.73E-07	2.07E-08	7.23E-03	7.72E-03	Unoccupied
2134	359900	3800850	3.32E-07	3.85E-07	2.14E-08	7.46E-03	7.74E-03	Unoccupied
2135	359950	3800850	3.16E-07	3.66E-07	2.03E-08	7.09E-03	6.89E-03	Unoccupied
2136	360000	3800850	3.04E-07	3.53E-07	1.96E-08	6.83E-03	6.61E-03	Unoccupied
2137	360050	3800850	2.81E-07	3.26E-07	1.81E-08	6.32E-03	7.42E-03	Unoccupied
2138	360100	3800850	2.49E-07	2.89E-07	1.61E-08	5.60E-03	8.40E-03	Unoccupied
2139	360150	3800850	2.12E-07	2.46E-07	1.37E-08	4.77E-03	7.96E-03	Nonresidential
2140	360200	3800850	1.75E-07	2.03E-07	1.13E-08	3.93E-03	7.60E-03	Nonresidential
2141	360250	3800850	1.42E-07	1.64E-07	9.13E-09	3.18E-03	7.13E-03	Nonresidential
2142	360300	3800850	1.15E-07	1.33E-07	7.39E-09	2.58E-03	6.07E-03	Nonresidential
2143	360350	3800850	9.47E-08	1.10E-07	6.10E-09	2.13E-03	5.69E-03	Nonresidential
2144	360400	3800850	8.03E-08	9.30E-08	5.17E-09	1.80E-03	5.41E-03	Nonresidential
2145	360450	3800850	7.00E-08	8.12E-08	4.51E-09	1.57E-03	5.12E-03	Nonresidential
2146	360500	3800850	6.26E-08	7.26E-08	4.03E-09	1.41E-03	4.90E-03	Nonresidential
2147	360550	3800850	5.71E-08	6.62E-08	3.68E-09	1.28E-03	4.87E-03	Nonresidential
2148	360600	3800850	5.29E-08	6.13E-08	3.41E-09	1.19E-03	4.33E-03	Nonresidential
2149	360650	3800850	4.95E-08	5.74E-08	3.19E-09	1.11E-03	4.10E-03	Nonresidential
2150	360700	3800850	4.67E-08	5.41E-08	3.01E-09	1.05E-03	4.28E-03	Nonresidential
2151	360750	3800850	4.44E-08	5.14E-08	2.86E-09	9.97E-04	4.16E-03	Nonresidential
2152	360800	3800850	4.24E-08	4.91E-08	2.73E-09	9.52E-04	3.76E-03	Nonresidential
2153	360850	3800850	4.06E-08	4.71E-08	2.62E-09	9.13E-04	3.23E-03	Nonresidential
2154	360900	3800850	3.91E-08	4.53E-08	2.52E-09	8.78E-04	3.22E-03	Nonresidential
2155	360950	3800850	3.77E-08	4.36E-08	2.43E-09	8.46E-04	3.20E-03	Nonresidential
2156	361000	3800850	3.64E-08	4.22E-08	2.34E-09	8.18E-04	3.06E-03	Nonresidential
2157	361050	3800850	3.52E-08	4.08E-08	2.27E-09	7.92E-04	2.86E-03	Nonresidential
2158	358500	3800900	5.56E-08	6.45E-08	3.58E-09	1.25E-03	2.37E-03	
2159	358550	3800900	5.68E-08	6.58E-08	3.66E-09	1.28E-03	2.44E-03	
2160	358600	3800900	5.80E-08	6.72E-08	3.74E-09	1.30E-03	2.52E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2161	358650	3800900	5.94E-08	6.89E-08	3.83E-09	1.34E-03	2.58E-03	Nonresidential
2162	358700	3800900	6.10E-08	7.07E-08	3.93E-09	1.37E-03	2.65E-03	Nonresidential
2163	358750	3800900	6.28E-08	7.27E-08	4.04E-09	1.41E-03	2.70E-03	Nonresidential
2164	358800	3800900	6.48E-08	7.51E-08	4.17E-09	1.46E-03	2.82E-03	Nonresidential
2165	358850	3800900	6.88E-08	7.97E-08	4.43E-09	1.55E-03	2.87E-03	Nonresidential
2166	358900	3800900	6.97E-08	8.07E-08	4.49E-09	1.57E-03	3.04E-03	Nonresidential
2167	358950	3800900	7.27E-08	8.42E-08	4.68E-09	1.63E-03	3.26E-03	Nonresidential
2168	359000	3800900	7.61E-08	8.82E-08	4.90E-09	1.71E-03	3.53E-03	Nonresidential
2169	359050	3800900	8.02E-08	9.29E-08	5.16E-09	1.80E-03	3.77E-03	Nonresidential
2170	359100	3800900	8.49E-08	9.84E-08	5.47E-09	1.91E-03	3.94E-03	Nonresidential
2171	359150	3800900	9.04E-08	1.05E-07	5.82E-09	2.03E-03	4.15E-03	Nonresidential
2172	359200	3800900	9.68E-08	1.12E-07	6.24E-09	2.18E-03	4.33E-03	Nonresidential
2173	359250	3800900	1.04E-07	1.21E-07	6.73E-09	2.35E-03	4.46E-03	Nonresidential
2174	359300	3800900	1.13E-07	1.32E-07	7.31E-09	2.55E-03	4.54E-03	Nonresidential
2175	359350	3800900	1.24E-07	1.44E-07	7.99E-09	2.79E-03	4.53E-03	Nonresidential
2176	359400	3800900	1.36E-07	1.58E-07	8.77E-09	3.06E-03	4.42E-03	Nonresidential
2177	359450	3800900	1.50E-07	1.74E-07	9.66E-09	3.37E-03	4.23E-03	Nonresidential
2178	359500	3800900	1.66E-07	1.92E-07	1.07E-08	3.72E-03	4.41E-03	Nonresidential
2179	359550	3800900	1.83E-07	2.12E-07	1.18E-08	4.11E-03	4.81E-03	Nonresidential
2180	359600	3800900	2.02E-07	2.34E-07	1.30E-08	4.53E-03	5.01E-03	Nonresidential
2181	359650	3800900	2.22E-07	2.57E-07	1.43E-08	4.98E-03	5.29E-03	Unoccupied
2182	359700	3800900	2.42E-07	2.80E-07	1.56E-08	5.43E-03	5.90E-03	Unoccupied
2183	359750	3800900	2.61E-07	3.02E-07	1.68E-08	5.85E-03	6.26E-03	Unoccupied
2184	359800	3800900	2.77E-07	3.21E-07	1.78E-08	6.21E-03	6.56E-03	Unoccupied
2185	359850	3800900	2.96E-07	3.43E-07	1.91E-08	6.65E-03	6.86E-03	Unoccupied
2186	359900	3800900	2.93E-07	3.39E-07	1.88E-08	6.57E-03	6.48E-03	Unoccupied
2187	359950	3800900	2.88E-07	3.34E-07	1.85E-08	6.47E-03	6.09E-03	Unoccupied
2188	360000	3800900	2.75E-07	3.18E-07	1.77E-08	6.17E-03	6.15E-03	Unoccupied
2189	360050	3800900	2.53E-07	2.93E-07	1.63E-08	5.68E-03	7.14E-03	Unoccupied
2190	360100	3800900	2.24E-07	2.60E-07	1.45E-08	5.04E-03	7.75E-03	Unoccupied
2191	360150	3800900	1.93E-07	2.24E-07	1.24E-08	4.33E-03	7.24E-03	Nonresidential
2192	360200	3800900	1.61E-07	1.87E-07	1.04E-08	3.62E-03	6.71E-03	Nonresidential
2193	360250	3800900	1.33E-07	1.54E-07	8.55E-09	2.98E-03	6.35E-03	Nonresidential
2194	360300	3800900	1.09E-07	1.27E-07	7.03E-09	2.45E-03	5.52E-03	Nonresidential
2195	360350	3800900	9.10E-08	1.05E-07	5.86E-09	2.05E-03	5.33E-03	Nonresidential
2196	360400	3800900	7.76E-08	8.99E-08	5.00E-09	1.74E-03	5.05E-03	Nonresidential
2197	360450	3800900	6.78E-08	7.85E-08	4.37E-09	1.52E-03	4.84E-03	Nonresidential
2198	360500	3800900	6.05E-08	7.02E-08	3.90E-09	1.36E-03	4.51E-03	Nonresidential
2199	360550	3800900	5.51E-08	6.39E-08	3.55E-09	1.24E-03	4.51E-03	Nonresidential
2200	360600	3800900	5.09E-08	5.90E-08	3.28E-09	1.14E-03	4.34E-03	Nonresidential
2201	360650	3800900	4.76E-08	5.52E-08	3.07E-09	1.07E-03	3.77E-03	Nonresidential
2202	360700	3800900	4.49E-08	5.20E-08	2.89E-09	1.01E-03	3.73E-03	Nonresidential
2203	360750	3800900	4.26E-08	4.94E-08	2.74E-09	9.57E-04	3.90E-03	Nonresidential
2204	360800	3800900	4.07E-08	4.71E-08	2.62E-09	9.14E-04	3.79E-03	Nonresidential
2205	360850	3800900	3.90E-08	4.52E-08	2.51E-09	8.76E-04	3.47E-03	Nonresidential
2206	360900	3800900	3.75E-08	4.35E-08	2.42E-09	8.43E-04	3.03E-03	Nonresidential
2207	360950	3800900	3.62E-08	4.20E-08	2.33E-09	8.14E-04	2.85E-03	Nonresidential
2208	361000	3800900	3.50E-08	4.06E-08	2.26E-09	7.88E-04	2.87E-03	Nonresidential
2209	358550	3800950	5.86E-08	6.79E-08	3.78E-09	1.32E-03	2.31E-03	
2210	358600	3800950	6.00E-08	6.95E-08	3.86E-09	1.35E-03	2.36E-03	
2211	358650	3800950	6.15E-08	7.13E-08	3.96E-09	1.38E-03	2.40E-03	
2212	358700	3800950	6.32E-08	7.33E-08	4.07E-09	1.42E-03	2.49E-03	
2213	358750	3800950	6.52E-08	7.56E-08	4.20E-09	1.46E-03	2.64E-03	Nonresidential
2214	358800	3800950	6.82E-08	7.91E-08	4.40E-09	1.53E-03	2.82E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2215	358850	3800950	6.99E-08	8.10E-08	4.50E-09	1.57E-03	2.99E-03	Nonresidential
2216	358900	3800950	7.28E-08	8.44E-08	4.69E-09	1.64E-03	3.24E-03	Nonresidential
2217	358950	3800950	7.61E-08	8.82E-08	4.90E-09	1.71E-03	3.39E-03	Nonresidential
2218	359000	3800950	7.99E-08	9.26E-08	5.15E-09	1.80E-03	3.58E-03	Nonresidential
2219	359050	3800950	8.43E-08	9.77E-08	5.43E-09	1.89E-03	3.82E-03	Nonresidential
2220	359100	3800950	8.94E-08	1.04E-07	5.76E-09	2.01E-03	3.93E-03	Nonresidential
2221	359150	3800950	9.53E-08	1.10E-07	6.14E-09	2.14E-03	4.07E-03	Nonresidential
2222	359200	3800950	1.02E-07	1.18E-07	6.58E-09	2.30E-03	4.16E-03	Nonresidential
2223	359250	3800950	1.10E-07	1.28E-07	7.09E-09	2.47E-03	4.20E-03	Nonresidential
2224	359300	3800950	1.19E-07	1.38E-07	7.69E-09	2.68E-03	4.16E-03	Nonresidential
2225	359350	3800950	1.30E-07	1.51E-07	8.38E-09	2.92E-03	4.04E-03	Nonresidential
2226	359400	3800950	1.42E-07	1.65E-07	9.16E-09	3.19E-03	3.88E-03	Nonresidential
2227	359450	3800950	1.56E-07	1.80E-07	1.00E-08	3.50E-03	4.01E-03	Nonresidential
2228	359500	3800950	1.71E-07	1.98E-07	1.10E-08	3.83E-03	4.29E-03	Worker
2229	359550	3800950	1.87E-07	2.16E-07	1.20E-08	4.19E-03	4.45E-03	Nonresidential
2230	359600	3800950	2.04E-07	2.36E-07	1.31E-08	4.57E-03	4.69E-03	Nonresidential
2231	359650	3800950	2.21E-07	2.56E-07	1.42E-08	4.96E-03	5.21E-03	Unoccupied
2232	359700	3800950	2.37E-07	2.75E-07	1.53E-08	5.32E-03	5.57E-03	Unoccupied
2233	359750	3800950	2.51E-07	2.91E-07	1.62E-08	5.65E-03	5.78E-03	Unoccupied
2234	359800	3800950	2.62E-07	3.04E-07	1.69E-08	5.90E-03	6.13E-03	Unoccupied
2235	359850	3800950	2.74E-07	3.18E-07	1.77E-08	6.16E-03	6.08E-03	Unoccupied
2236	359900	3800950	2.76E-07	3.20E-07	1.78E-08	6.21E-03	5.83E-03	Unoccupied
2237	359950	3800950	2.75E-07	3.19E-07	1.77E-08	6.18E-03	6.09E-03	Unoccupied
2238	360000	3800950	2.53E-07	2.93E-07	1.63E-08	5.68E-03	6.07E-03	Unoccupied
2239	360050	3800950	2.28E-07	2.64E-07	1.47E-08	5.12E-03	6.81E-03	Unoccupied
2240	360100	3800950	2.03E-07	2.35E-07	1.31E-08	4.56E-03	7.14E-03	Nonresidential
2241	360150	3800950	1.76E-07	2.04E-07	1.13E-08	3.95E-03	6.54E-03	Nonresidential
2242	360200	3800950	1.49E-07	1.73E-07	9.59E-09	3.34E-03	5.97E-03	Nonresidential
2243	360250	3800950	1.24E-07	1.44E-07	8.01E-09	2.79E-03	5.67E-03	Nonresidential
2244	360300	3800950	1.04E-07	1.20E-07	6.68E-09	2.33E-03	5.02E-03	Nonresidential
2245	360350	3800950	8.73E-08	1.01E-07	5.63E-09	1.96E-03	4.96E-03	Nonresidential
2246	360400	3800950	7.49E-08	8.68E-08	4.82E-09	1.68E-03	4.70E-03	Nonresidential
2247	360450	3800950	6.56E-08	7.60E-08	4.22E-09	1.47E-03	4.54E-03	Nonresidential
2248	360500	3800950	5.86E-08	6.79E-08	3.78E-09	1.32E-03	4.32E-03	Nonresidential
2249	360550	3800950	5.33E-08	6.18E-08	3.43E-09	1.20E-03	4.04E-03	Nonresidential
2250	360600	3800950	4.92E-08	5.70E-08	3.17E-09	1.11E-03	4.11E-03	Nonresidential
2251	360650	3800950	4.59E-08	5.32E-08	2.96E-09	1.03E-03	3.84E-03	Nonresidential
2252	360700	3800950	4.33E-08	5.02E-08	2.79E-09	9.72E-04	3.39E-03	Nonresidential
2253	360750	3800950	4.11E-08	4.76E-08	2.65E-09	9.23E-04	3.41E-03	Nonresidential
2254	360800	3800950	3.92E-08	4.54E-08	2.52E-09	8.80E-04	3.55E-03	Nonresidential
2255	360850	3800950	3.76E-08	4.35E-08	2.42E-09	8.44E-04	3.46E-03	Nonresidential
2256	360900	3800950	3.62E-08	4.19E-08	2.33E-09	8.12E-04	3.20E-03	Nonresidential
2257	360950	3800950	3.49E-08	4.05E-08	2.25E-09	7.85E-04	2.83E-03	Nonresidential
2258	358600	3801000	6.19E-08	7.18E-08	3.99E-09	1.39E-03	2.27E-03	
2259	358650	3801000	6.36E-08	7.37E-08	4.10E-09	1.43E-03	2.42E-03	
2260	358700	3801000	6.55E-08	7.59E-08	4.22E-09	1.47E-03	2.62E-03	Nonresidential
2261	358750	3801000	6.76E-08	7.84E-08	4.36E-09	1.52E-03	2.81E-03	Nonresidential
2262	358800	3801000	7.00E-08	8.12E-08	4.51E-09	1.57E-03	2.98E-03	Nonresidential
2263	358850	3801000	7.28E-08	8.44E-08	4.69E-09	1.64E-03	3.09E-03	Nonresidential
2264	358900	3801000	7.59E-08	8.80E-08	4.89E-09	1.71E-03	3.26E-03	Nonresidential
2265	358950	3801000	7.95E-08	9.21E-08	5.12E-09	1.79E-03	3.42E-03	Nonresidential
2266	359000	3801000	8.36E-08	9.69E-08	5.39E-09	1.88E-03	3.57E-03	Nonresidential
2267	359050	3801000	8.83E-08	1.02E-07	5.69E-09	1.98E-03	3.70E-03	Nonresidential
2268	359100	3801000	9.37E-08	1.09E-07	6.04E-09	2.11E-03	3.84E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2269	359150	3801000	9.99E-08	1.16E-07	6.44E-09	2.25E-03	3.86E-03	Nonresidential
2270	359200	3801000	1.07E-07	1.24E-07	6.90E-09	2.41E-03	3.87E-03	Nonresidential
2271	359250	3801000	1.15E-07	1.33E-07	7.42E-09	2.59E-03	3.81E-03	Nonresidential
2272	359300	3801000	1.24E-07	1.44E-07	8.02E-09	2.80E-03	3.69E-03	Nonresidential
2273	359350	3801000	1.35E-07	1.56E-07	8.70E-09	3.03E-03	3.54E-03	Nonresidential
2274	359400	3801000	1.47E-07	1.70E-07	9.45E-09	3.30E-03	3.64E-03	Nonresidential
2275	359450	3801000	1.60E-07	1.85E-07	1.03E-08	3.59E-03	3.84E-03	Nonresidential
2276	359500	3801000	1.73E-07	2.01E-07	1.12E-08	3.90E-03	3.97E-03	Nonresidential
2277	359550	3801000	1.88E-07	2.18E-07	1.21E-08	4.22E-03	4.18E-03	Nonresidential
2278	359600	3801000	2.02E-07	2.35E-07	1.30E-08	4.55E-03	4.62E-03	Nonresidential
2279	359650	3801000	2.17E-07	2.51E-07	1.40E-08	4.87E-03	4.97E-03	Nonresidential
2280	359700	3801000	2.29E-07	2.66E-07	1.48E-08	5.15E-03	5.17E-03	Unoccupied
2281	359750	3801000	2.40E-07	2.78E-07	1.55E-08	5.39E-03	5.49E-03	Unoccupied
2282	359800	3801000	2.47E-07	2.86E-07	1.59E-08	5.55E-03	5.51E-03	Unoccupied
2283	359850	3801000	2.50E-07	2.89E-07	1.61E-08	5.61E-03	5.25E-03	Unoccupied
2284	359900	3801000	2.47E-07	2.86E-07	1.59E-08	5.55E-03	5.20E-03	Unoccupied
2285	359950	3801000	2.41E-07	2.80E-07	1.55E-08	5.42E-03	5.37E-03	Unoccupied
2286	360000	3801000	2.25E-07	2.60E-07	1.45E-08	5.05E-03	5.66E-03	Unoccupied
2287	360050	3801000	2.06E-07	2.39E-07	1.33E-08	4.63E-03	6.42E-03	Nonresidential
2288	360100	3801000	1.84E-07	2.14E-07	1.19E-08	4.14E-03	6.48E-03	Nonresidential
2289	360150	3801000	1.61E-07	1.86E-07	1.04E-08	3.62E-03	5.90E-03	Nonresidential
2290	360200	3801000	1.38E-07	1.60E-07	8.87E-09	3.10E-03	5.46E-03	Nonresidential
2291	360250	3801000	1.17E-07	1.35E-07	7.51E-09	2.62E-03	5.09E-03	Nonresidential
2292	360300	3801000	9.84E-08	1.14E-07	6.34E-09	2.21E-03	4.60E-03	Nonresidential
2293	360350	3801000	8.37E-08	9.70E-08	5.39E-09	1.88E-03	4.58E-03	Nonresidential
2294	360400	3801000	7.22E-08	8.37E-08	4.65E-09	1.62E-03	4.38E-03	Nonresidential
2295	360450	3801000	6.35E-08	7.35E-08	4.09E-09	1.43E-03	4.27E-03	Nonresidential
2296	360500	3801000	5.68E-08	6.58E-08	3.66E-09	1.28E-03	4.08E-03	Nonresidential
2297	360550	3801000	5.17E-08	5.99E-08	3.33E-09	1.16E-03	3.76E-03	Nonresidential
2298	360600	3801000	4.77E-08	5.52E-08	3.07E-09	1.07E-03	3.75E-03	Nonresidential
2299	360650	3801000	4.45E-08	5.15E-08	2.86E-09	9.99E-04	3.71E-03	Nonresidential
2300	360700	3801000	4.19E-08	4.85E-08	2.70E-09	9.41E-04	3.52E-03	Nonresidential
2301	360750	3801000	3.97E-08	4.60E-08	2.56E-09	8.92E-04	3.40E-03	Nonresidential
2302	360800	3801000	3.79E-08	4.39E-08	2.44E-09	8.51E-04	3.17E-03	Nonresidential
2303	360850	3801000	3.63E-08	4.21E-08	2.34E-09	8.16E-04	3.23E-03	Nonresidential
2304	360900	3801000	3.50E-08	4.05E-08	2.25E-09	7.86E-04	3.16E-03	Nonresidential
2305	358650	3801050	6.57E-08	7.62E-08	4.23E-09	1.48E-03	2.53E-03	
2306	358700	3801050	6.78E-08	7.85E-08	4.37E-09	1.52E-03	2.74E-03	Nonresidential
2307	358750	3801050	7.01E-08	8.12E-08	4.51E-09	1.57E-03	2.82E-03	Nonresidential
2308	358800	3801050	7.27E-08	8.42E-08	4.68E-09	1.63E-03	2.97E-03	Nonresidential
2309	358850	3801050	7.56E-08	8.77E-08	4.87E-09	1.70E-03	3.11E-03	Nonresidential
2310	358900	3801050	7.90E-08	9.16E-08	5.09E-09	1.78E-03	3.24E-03	Nonresidential
2311	358950	3801050	8.28E-08	9.60E-08	5.34E-09	1.86E-03	3.36E-03	Nonresidential
2312	359000	3801050	8.72E-08	1.01E-07	5.62E-09	1.96E-03	3.46E-03	Nonresidential
2313	359050	3801050	9.21E-08	1.07E-07	5.94E-09	2.07E-03	3.53E-03	Nonresidential
2314	359100	3801050	9.78E-08	1.13E-07	6.30E-09	2.20E-03	3.56E-03	Nonresidential
2315	359150	3801050	1.04E-07	1.21E-07	6.71E-09	2.34E-03	3.55E-03	Nonresidential
2316	359200	3801050	1.11E-07	1.29E-07	7.17E-09	2.50E-03	3.49E-03	Nonresidential
2317	359250	3801050	1.20E-07	1.39E-07	7.70E-09	2.69E-03	3.36E-03	Nonresidential
2318	359300	3801050	1.29E-07	1.49E-07	8.29E-09	2.89E-03	3.23E-03	Nonresidential
2319	359350	3801050	1.39E-07	1.61E-07	8.94E-09	3.12E-03	3.31E-03	Nonresidential
2320	359400	3801050	1.50E-07	1.74E-07	9.65E-09	3.37E-03	3.44E-03	Nonresidential
2321	359450	3801050	1.62E-07	1.87E-07	1.04E-08	3.63E-03	3.56E-03	Nonresidential
2322	359500	3801050	1.74E-07	2.02E-07	1.12E-08	3.91E-03	3.75E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2323	359550	3801050	1.87E-07	2.16E-07	1.20E-08	4.19E-03	4.12E-03	Nonresidential
2324	359600	3801050	1.99E-07	2.31E-07	1.28E-08	4.47E-03	4.45E-03	Nonresidential
2325	359650	3801050	2.10E-07	2.44E-07	1.35E-08	4.73E-03	4.61E-03	Nonresidential
2326	359700	3801050	2.20E-07	2.55E-07	1.42E-08	4.94E-03	4.88E-03	Unoccupied
2327	359750	3801050	2.27E-07	2.63E-07	1.46E-08	5.11E-03	5.03E-03	Unoccupied
2328	359800	3801050	2.31E-07	2.68E-07	1.49E-08	5.20E-03	4.88E-03	Unoccupied
2329	359850	3801050	2.31E-07	2.68E-07	1.49E-08	5.20E-03	4.82E-03	Unoccupied
2330	359900	3801050	2.27E-07	2.63E-07	1.46E-08	5.09E-03	4.98E-03	Unoccupied
2331	359950	3801050	2.18E-07	2.52E-07	1.40E-08	4.89E-03	5.04E-03	Worker
2332	360000	3801050	2.04E-07	2.37E-07	1.32E-08	4.59E-03	5.46E-03	Nonresidential
2333	360050	3801050	1.87E-07	2.17E-07	1.21E-08	4.21E-03	5.96E-03	Nonresidential
2334	360100	3801050	1.68E-07	1.95E-07	1.08E-08	3.78E-03	5.85E-03	Worker
2335	360150	3801050	1.48E-07	1.71E-07	9.53E-09	3.32E-03	5.37E-03	Nonresidential
2336	360200	3801050	1.28E-07	1.48E-07	8.24E-09	2.87E-03	5.06E-03	Nonresidential
2337	360250	3801050	1.09E-07	1.27E-07	7.05E-09	2.46E-03	4.61E-03	Nonresidential
2338	360300	3801050	9.34E-08	1.08E-07	6.02E-09	2.10E-03	4.24E-03	Nonresidential
2339	360350	3801050	8.23E-08	9.54E-08	5.30E-09	1.85E-03	4.21E-03	Nonresidential
2340	360400	3801050	6.99E-08	8.10E-08	4.50E-09	1.57E-03	4.06E-03	Nonresidential
2341	360450	3801050	6.14E-08	7.12E-08	3.96E-09	1.38E-03	4.01E-03	Nonresidential
2342	360500	3801050	5.51E-08	6.38E-08	3.55E-09	1.24E-03	3.84E-03	Nonresidential
2343	360550	3801050	5.01E-08	5.81E-08	3.23E-09	1.13E-03	3.67E-03	Nonresidential
2344	360600	3801050	4.62E-08	5.36E-08	2.98E-09	1.04E-03	3.38E-03	Nonresidential
2345	360650	3801050	4.32E-08	5.00E-08	2.78E-09	9.70E-04	3.46E-03	Nonresidential
2346	360700	3801050	4.06E-08	4.71E-08	2.62E-09	9.13E-04	3.50E-03	Nonresidential
2347	360750	3801050	3.85E-08	4.46E-08	2.48E-09	8.65E-04	3.56E-03	Nonresidential
2348	360800	3801050	3.67E-08	4.26E-08	2.37E-09	8.26E-04	3.42E-03	Nonresidential
2349	358700	3801100	7.00E-08	8.11E-08	4.51E-09	1.57E-03	2.77E-03	Nonresidential
2350	358750	3801100	7.25E-08	8.40E-08	4.67E-09	1.63E-03	2.84E-03	Nonresidential
2351	358800	3801100	7.53E-08	8.72E-08	4.85E-09	1.69E-03	2.96E-03	Nonresidential
2352	358850	3801100	7.84E-08	9.09E-08	5.05E-09	1.76E-03	3.06E-03	Nonresidential
2353	358900	3801100	8.20E-08	9.50E-08	5.28E-09	1.84E-03	3.16E-03	Nonresidential
2354	358950	3801100	8.60E-08	9.96E-08	5.54E-09	1.93E-03	3.23E-03	Nonresidential
2355	359000	3801100	9.05E-08	1.05E-07	5.83E-09	2.03E-03	3.27E-03	Nonresidential
2356	359050	3801100	9.56E-08	1.11E-07	6.16E-09	2.15E-03	3.29E-03	Nonresidential
2357	359100	3801100	1.01E-07	1.17E-07	6.53E-09	2.28E-03	3.26E-03	Nonresidential
2358	359150	3801100	1.08E-07	1.25E-07	6.95E-09	2.42E-03	3.19E-03	Nonresidential
2359	359200	3801100	1.15E-07	1.33E-07	7.41E-09	2.58E-03	3.07E-03	Nonresidential
2360	359250	3801100	1.23E-07	1.43E-07	7.92E-09	2.76E-03	2.95E-03	Nonresidential
2361	359300	3801100	1.32E-07	1.53E-07	8.49E-09	2.96E-03	3.01E-03	Nonresidential
2362	359350	3801100	1.41E-07	1.64E-07	9.10E-09	3.17E-03	3.12E-03	Nonresidential
2363	359400	3801100	1.51E-07	1.75E-07	9.75E-09	3.40E-03	3.23E-03	Nonresidential
2364	359450	3801100	1.62E-07	1.88E-07	1.04E-08	3.64E-03	3.37E-03	Nonresidential
2365	359500	3801100	1.73E-07	2.00E-07	1.11E-08	3.89E-03	3.69E-03	Nonresidential
2366	359550	3801100	1.84E-07	2.13E-07	1.18E-08	4.13E-03	3.99E-03	Nonresidential
2367	359600	3801100	1.94E-07	2.24E-07	1.25E-08	4.35E-03	4.12E-03	Nonresidential
2368	359650	3801100	2.03E-07	2.35E-07	1.30E-08	4.55E-03	4.34E-03	Nonresidential
2369	359700	3801100	2.10E-07	2.43E-07	1.35E-08	4.71E-03	4.55E-03	Nonresidential
2370	359750	3801100	2.14E-07	2.48E-07	1.38E-08	4.81E-03	4.51E-03	Nonresidential
2371	359800	3801100	2.16E-07	2.50E-07	1.39E-08	4.85E-03	4.44E-03	Nonresidential
2372	359850	3801100	2.14E-07	2.48E-07	1.38E-08	4.81E-03	4.54E-03	Nonresidential
2373	359900	3801100	2.08E-07	2.41E-07	1.34E-08	4.68E-03	4.70E-03	Nonresidential
2374	359950	3801100	1.99E-07	2.31E-07	1.28E-08	4.47E-03	4.75E-03	Nonresidential
2375	360000	3801100	1.86E-07	2.16E-07	1.20E-08	4.19E-03	5.19E-03	Nonresidential
2376	360050	3801100	1.71E-07	1.98E-07	1.10E-08	3.85E-03	5.48E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2377	360100	3801100	1.54E-07	1.79E-07	9.94E-09	3.47E-03	5.31E-03	Nonresidential
2378	360150	3801100	1.36E-07	1.58E-07	8.79E-09	3.07E-03	4.93E-03	Nonresidential
2379	360200	3801100	1.19E-07	1.38E-07	7.67E-09	2.68E-03	4.70E-03	Nonresidential
2380	360250	3801100	1.03E-07	1.19E-07	6.63E-09	2.31E-03	4.27E-03	Nonresidential
2381	360300	3801100	8.87E-08	1.03E-07	5.71E-09	1.99E-03	3.94E-03	Nonresidential
2382	360350	3801100	7.80E-08	9.04E-08	5.02E-09	1.75E-03	3.85E-03	Nonresidential
2383	360400	3801100	6.74E-08	7.82E-08	4.35E-09	1.52E-03	3.76E-03	Nonresidential
2384	360450	3801100	5.95E-08	6.89E-08	3.83E-09	1.34E-03	3.72E-03	Nonresidential
2385	360500	3801100	5.35E-08	6.20E-08	3.44E-09	1.20E-03	3.62E-03	Nonresidential
2386	360550	3801100	4.87E-08	5.65E-08	3.14E-09	1.09E-03	3.54E-03	Nonresidential
2387	360600	3801100	4.50E-08	5.21E-08	2.90E-09	1.01E-03	3.23E-03	Nonresidential
2388	360650	3801100	4.19E-08	4.86E-08	2.70E-09	9.43E-04	3.15E-03	Nonresidential
2389	360700	3801100	3.95E-08	4.58E-08	2.54E-09	8.87E-04	3.40E-03	Nonresidential
2390	358750	3801150	7.48E-08	8.67E-08	4.82E-09	1.68E-03	2.80E-03	Nonresidential
2391	358800	3801150	7.77E-08	9.01E-08	5.01E-09	1.75E-03	2.88E-03	Nonresidential
2392	358850	3801150	8.10E-08	9.39E-08	5.22E-09	1.82E-03	2.95E-03	Nonresidential
2393	358900	3801150	8.47E-08	9.82E-08	5.46E-09	1.90E-03	3.01E-03	Nonresidential
2394	358950	3801150	8.89E-08	1.03E-07	5.73E-09	2.00E-03	3.03E-03	Nonresidential
2395	359000	3801150	9.35E-08	1.08E-07	6.03E-09	2.10E-03	3.03E-03	Nonresidential
2396	359050	3801150	9.87E-08	1.14E-07	6.36E-09	2.22E-03	3.00E-03	Nonresidential
2397	359100	3801150	1.05E-07	1.21E-07	6.73E-09	2.35E-03	2.92E-03	Nonresidential
2398	359150	3801150	1.11E-07	1.29E-07	7.14E-09	2.49E-03	2.80E-03	Nonresidential
2399	359200	3801150	1.18E-07	1.37E-07	7.60E-09	2.65E-03	2.70E-03	Nonresidential
2400	359250	3801150	1.26E-07	1.46E-07	8.09E-09	2.82E-03	2.74E-03	Nonresidential
2401	359300	3801150	1.34E-07	1.55E-07	8.62E-09	3.01E-03	2.85E-03	Nonresidential
2402	359350	3801150	1.43E-07	1.65E-07	9.18E-09	3.20E-03	2.95E-03	Nonresidential
2403	359400	3801150	1.52E-07	1.76E-07	9.77E-09	3.41E-03	3.06E-03	Nonresidential
2404	359450	3801150	1.61E-07	1.87E-07	1.04E-08	3.62E-03	3.32E-03	Nonresidential
2405	359500	3801150	1.70E-07	1.97E-07	1.10E-08	3.83E-03	3.60E-03	Nonresidential
2406	359550	3801150	1.79E-07	2.08E-07	1.15E-08	4.03E-03	3.69E-03	Nonresidential
2407	359600	3801150	1.87E-07	2.17E-07	1.21E-08	4.21E-03	3.88E-03	Nonresidential
2408	359650	3801150	1.94E-07	2.25E-07	1.25E-08	4.36E-03	4.11E-03	Nonresidential
2409	359700	3801150	1.99E-07	2.30E-07	1.28E-08	4.46E-03	4.13E-03	Nonresidential
2410	359750	3801150	2.01E-07	2.33E-07	1.30E-08	4.52E-03	4.03E-03	Nonresidential
2411	359800	3801150	2.01E-07	2.33E-07	1.30E-08	4.52E-03	4.19E-03	Nonresidential
2412	359850	3801150	1.98E-07	2.29E-07	1.27E-08	4.45E-03	4.37E-03	Nonresidential
2413	359900	3801150	1.92E-07	2.22E-07	1.24E-08	4.31E-03	4.43E-03	Nonresidential
2414	359950	3801150	1.83E-07	2.12E-07	1.18E-08	4.10E-03	4.56E-03	Nonresidential
2415	360000	3801150	1.74E-07	2.02E-07	1.12E-08	3.91E-03	4.93E-03	Nonresidential
2416	360050	3801150	1.57E-07	1.82E-07	1.01E-08	3.53E-03	5.00E-03	Nonresidential
2417	360100	3801150	1.44E-07	1.66E-07	9.25E-09	3.23E-03	4.94E-03	Nonresidential
2418	360150	3801150	1.26E-07	1.47E-07	8.15E-09	2.84E-03	4.57E-03	Nonresidential
2419	360200	3801150	1.11E-07	1.29E-07	7.16E-09	2.50E-03	4.38E-03	Nonresidential
2420	360250	3801150	9.70E-08	1.12E-07	6.25E-09	2.18E-03	4.02E-03	Nonresidential
2421	360300	3801150	8.44E-08	9.78E-08	5.43E-09	1.90E-03	3.67E-03	Nonresidential
2422	360350	3801150	7.47E-08	8.66E-08	4.81E-09	1.68E-03	3.56E-03	Nonresidential
2423	360400	3801150	6.61E-08	7.67E-08	4.26E-09	1.49E-03	3.50E-03	Nonresidential
2424	360450	3801150	5.76E-08	6.68E-08	3.71E-09	1.30E-03	3.43E-03	Nonresidential
2425	360500	3801150	5.19E-08	6.02E-08	3.35E-09	1.17E-03	3.40E-03	Nonresidential
2426	360550	3801150	4.74E-08	5.49E-08	3.05E-09	1.07E-03	3.33E-03	Nonresidential
2427	360600	3801150	4.38E-08	5.08E-08	2.82E-09	9.84E-04	3.18E-03	Nonresidential
2428	360650	3801150	4.09E-08	4.74E-08	2.63E-09	9.19E-04	2.93E-03	Nonresidential
2429	360700	3797300	5.30E-08	6.14E-08	3.42E-09	1.19E-03	1.77E-03	
2430	360800	3797300	5.27E-08	6.11E-08	3.40E-09	1.18E-03	1.77E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2431	360900	3797300	5.21E-08	6.04E-08	3.36E-09	1.17E-03	1.77E-03	
2432	361000	3797300	5.10E-08	5.91E-08	3.28E-09	1.15E-03	1.71E-03	
2433	361100	3797300	4.91E-08	5.69E-08	3.16E-09	1.10E-03	1.67E-03	
2434	361200	3797300	4.66E-08	5.41E-08	3.00E-09	1.05E-03	1.66E-03	
2435	361300	3797300	4.39E-08	5.09E-08	2.83E-09	9.86E-04	1.64E-03	
2436	361400	3797300	4.12E-08	4.78E-08	2.66E-09	9.26E-04	1.61E-03	
2437	361500	3797300	3.89E-08	4.51E-08	2.51E-09	8.74E-04	1.59E-03	
2438	361600	3797300	3.69E-08	4.28E-08	2.38E-09	8.30E-04	1.55E-03	
2439	361700	3797300	3.53E-08	4.09E-08	2.27E-09	7.93E-04	1.49E-03	
2440	361800	3797300	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.44E-03	
2441	361900	3797300	3.30E-08	3.82E-08	2.12E-09	7.41E-04	1.40E-03	
2442	362000	3797300	3.21E-08	3.72E-08	2.07E-09	7.22E-04	1.33E-03	
2443	362100	3797300	3.14E-08	3.64E-08	2.03E-09	7.07E-04	1.22E-03	
2444	360500	3797400	5.35E-08	6.21E-08	3.45E-09	1.20E-03	1.88E-03	
2445	360600	3797400	5.38E-08	6.24E-08	3.47E-09	1.21E-03	1.87E-03	
2446	360700	3797400	5.37E-08	6.22E-08	3.46E-09	1.21E-03	1.83E-03	
2447	360800	3797400	5.33E-08	6.18E-08	3.43E-09	1.20E-03	1.85E-03	
2448	360900	3797400	5.27E-08	6.11E-08	3.40E-09	1.18E-03	1.82E-03	
2449	361000	3797400	5.16E-08	5.98E-08	3.32E-09	1.16E-03	1.77E-03	
2450	361100	3797400	4.96E-08	5.74E-08	3.19E-09	1.11E-03	1.73E-03	
2451	361200	3797400	4.69E-08	5.43E-08	3.02E-09	1.05E-03	1.72E-03	
2452	361300	3797400	4.39E-08	5.08E-08	2.83E-09	9.86E-04	1.70E-03	
2453	361400	3797400	4.11E-08	4.76E-08	2.64E-09	9.23E-04	1.66E-03	
2454	361500	3797400	3.86E-08	4.48E-08	2.49E-09	8.68E-04	1.64E-03	
2455	361600	3797400	3.67E-08	4.25E-08	2.36E-09	8.24E-04	1.58E-03	
2456	361700	3797400	3.51E-08	4.07E-08	2.26E-09	7.89E-04	1.55E-03	
2457	361800	3797400	3.39E-08	3.92E-08	2.18E-09	7.61E-04	1.47E-03	
2458	361900	3797400	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.41E-03	
2459	362000	3797400	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.31E-03	
2460	362100	3797400	3.15E-08	3.65E-08	2.03E-09	7.08E-04	1.17E-03	
2461	362200	3797400	3.10E-08	3.59E-08	2.00E-09	6.97E-04	1.03E-03	
2462	362300	3797400	3.06E-08	3.55E-08	1.97E-09	6.88E-04	9.93E-04	
2463	360400	3797500	5.34E-08	6.19E-08	3.44E-09	1.20E-03	1.99E-03	
2464	360500	3797500	5.43E-08	6.29E-08	3.50E-09	1.22E-03	1.97E-03	
2465	360600	3797500	5.45E-08	6.32E-08	3.51E-09	1.23E-03	1.95E-03	
2466	360700	3797500	5.43E-08	6.30E-08	3.50E-09	1.22E-03	1.91E-03	
2467	360800	3797500	5.39E-08	6.25E-08	3.48E-09	1.21E-03	1.94E-03	
2468	360900	3797500	5.34E-08	6.19E-08	3.44E-09	1.20E-03	1.89E-03	
2469	361000	3797500	5.22E-08	6.05E-08	3.36E-09	1.17E-03	1.83E-03	
2470	361100	3797500	5.00E-08	5.80E-08	3.22E-09	1.12E-03	1.79E-03	
2471	361200	3797500	4.70E-08	5.45E-08	3.03E-09	1.06E-03	1.80E-03	
2472	361300	3797500	4.38E-08	5.07E-08	2.82E-09	9.83E-04	1.75E-03	
2473	361400	3797500	4.08E-08	4.73E-08	2.63E-09	9.17E-04	1.73E-03	
2474	361500	3797500	3.83E-08	4.44E-08	2.47E-09	8.62E-04	1.68E-03	
2475	361600	3797500	3.64E-08	4.22E-08	2.34E-09	8.18E-04	1.65E-03	
2476	361700	3797500	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.59E-03	
2477	361800	3797500	3.37E-08	3.91E-08	2.17E-09	7.58E-04	1.49E-03	
2478	361900	3797500	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.40E-03	
2479	362000	3797500	3.21E-08	3.72E-08	2.07E-09	7.22E-04	1.27E-03	
2480	362100	3797500	3.16E-08	3.66E-08	2.03E-09	7.09E-04	1.11E-03	
2481	362200	3797500	3.11E-08	3.61E-08	2.01E-09	7.00E-04	1.04E-03	
2482	362300	3797500	3.08E-08	3.57E-08	1.99E-09	6.92E-04	1.02E-03	
2483	362400	3797500	3.06E-08	3.54E-08	1.97E-09	6.87E-04	9.79E-04	
2484	360300	3797600	5.26E-08	6.09E-08	3.39E-09	1.18E-03	2.09E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2485	360400	3797600	5.42E-08	6.28E-08	3.49E-09	1.22E-03	2.08E-03	
2486	360500	3797600	5.51E-08	6.38E-08	3.55E-09	1.24E-03	2.06E-03	
2487	360600	3797600	5.53E-08	6.41E-08	3.56E-09	1.24E-03	2.04E-03	
2488	360700	3797600	5.50E-08	6.37E-08	3.54E-09	1.24E-03	2.00E-03	
2489	360800	3797600	5.46E-08	6.33E-08	3.52E-09	1.23E-03	2.03E-03	
2490	360900	3797600	5.41E-08	6.27E-08	3.48E-09	1.22E-03	1.96E-03	
2491	361000	3797600	5.29E-08	6.13E-08	3.41E-09	1.19E-03	1.89E-03	
2492	361100	3797600	5.05E-08	5.86E-08	3.25E-09	1.14E-03	1.89E-03	
2493	361200	3797600	4.71E-08	5.46E-08	3.04E-09	1.06E-03	1.87E-03	
2494	361300	3797600	4.36E-08	5.05E-08	2.81E-09	9.79E-04	1.82E-03	
2495	361400	3797600	4.05E-08	4.69E-08	2.61E-09	9.10E-04	1.79E-03	
2496	361500	3797600	3.80E-08	4.40E-08	2.45E-09	8.54E-04	1.74E-03	
2497	361600	3797600	3.61E-08	4.19E-08	2.33E-09	8.12E-04	1.71E-03	
2498	361700	3797600	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.61E-03	
2499	361800	3797600	3.36E-08	3.90E-08	2.17E-09	7.55E-04	1.49E-03	
2500	361900	3797600	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.37E-03	
2501	362000	3797600	3.22E-08	3.73E-08	2.07E-09	7.23E-04	1.21E-03	
2502	362100	3797600	3.17E-08	3.67E-08	2.04E-09	7.12E-04	1.09E-03	
2503	362200	3797600	3.13E-08	3.63E-08	2.02E-09	7.03E-04	1.07E-03	
2504	362300	3797600	3.10E-08	3.60E-08	2.00E-09	6.97E-04	1.03E-03	
2505	362400	3797600	3.08E-08	3.57E-08	1.99E-09	6.93E-04	1.01E-03	
2506	362500	3797600	3.07E-08	3.56E-08	1.98E-09	6.89E-04	9.96E-04	
2507	360200	3797700	5.09E-08	5.90E-08	3.28E-09	1.14E-03	2.19E-03	
2508	360300	3797700	5.33E-08	6.18E-08	3.43E-09	1.20E-03	2.19E-03	
2509	360400	3797700	5.50E-08	6.37E-08	3.54E-09	1.24E-03	2.18E-03	
2510	360500	3797700	5.59E-08	6.47E-08	3.60E-09	1.26E-03	2.17E-03	
2511	360600	3797700	5.60E-08	6.49E-08	3.61E-09	1.26E-03	2.13E-03	
2512	360700	3797700	5.57E-08	6.45E-08	3.59E-09	1.25E-03	2.10E-03	
2513	360800	3797700	5.52E-08	6.40E-08	3.56E-09	1.24E-03	2.12E-03	
2514	360900	3797700	5.49E-08	6.36E-08	3.54E-09	1.23E-03	2.05E-03	
2515	361000	3797700	5.38E-08	6.23E-08	3.46E-09	1.21E-03	1.95E-03	
2516	361100	3797700	5.11E-08	5.92E-08	3.29E-09	1.15E-03	1.99E-03	
2517	361200	3797700	4.72E-08	5.47E-08	3.04E-09	1.06E-03	1.94E-03	
2518	361300	3797700	4.33E-08	5.02E-08	2.79E-09	9.73E-04	1.89E-03	
2519	361400	3797700	4.01E-08	4.64E-08	2.58E-09	9.00E-04	1.86E-03	
2520	361500	3797700	3.76E-08	4.36E-08	2.42E-09	8.45E-04	1.83E-03	
2521	361600	3797700	3.58E-08	4.15E-08	2.31E-09	8.05E-04	1.76E-03	
2522	361700	3797700	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.61E-03	
2523	361800	3797700	3.35E-08	3.89E-08	2.16E-09	7.53E-04	1.47E-03	
2524	361900	3797700	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.32E-03	
2525	362000	3797700	3.22E-08	3.73E-08	2.08E-09	7.24E-04	1.16E-03	
2526	362100	3797700	3.18E-08	3.69E-08	2.05E-09	7.15E-04	1.13E-03	
2527	362200	3797700	3.15E-08	3.65E-08	2.03E-09	7.08E-04	1.09E-03	
2528	362300	3797700	3.13E-08	3.62E-08	2.01E-09	7.03E-04	1.06E-03	
2529	362400	3797700	3.11E-08	3.60E-08	2.00E-09	6.99E-04	1.04E-03	
2530	362500	3797700	3.10E-08	3.59E-08	2.00E-09	6.96E-04	1.02E-03	
2531	362600	3797700	3.09E-08	3.58E-08	1.99E-09	6.94E-04	9.84E-04	
2532	360000	3797800	4.54E-08	5.26E-08	2.92E-09	1.02E-03	2.40E-03	
2533	360100	3797800	4.85E-08	5.62E-08	3.13E-09	1.09E-03	2.36E-03	
2534	360200	3797800	5.15E-08	5.97E-08	3.32E-09	1.16E-03	2.30E-03	
2535	360300	3797800	5.41E-08	6.27E-08	3.48E-09	1.21E-03	2.30E-03	
2536	360400	3797800	5.58E-08	6.47E-08	3.60E-09	1.25E-03	2.29E-03	
2537	360500	3797800	5.67E-08	6.57E-08	3.65E-09	1.27E-03	2.28E-03	
2538	360600	3797800	5.68E-08	6.58E-08	3.66E-09	1.28E-03	2.24E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2539	360700	3797800	5.64E-08	6.54E-08	3.63E-09	1.27E-03	2.22E-03	
2540	362100	3797800	3.20E-08	3.71E-08	2.06E-09	7.18E-04	1.15E-03	
2541	362200	3797800	3.17E-08	3.68E-08	2.04E-09	7.13E-04	1.11E-03	
2542	362300	3797800	3.15E-08	3.65E-08	2.03E-09	7.08E-04	1.09E-03	
2543	362400	3797800	3.14E-08	3.64E-08	2.02E-09	7.06E-04	1.07E-03	
2544	362500	3797800	3.13E-08	3.63E-08	2.02E-09	7.03E-04	1.03E-03	
2545	362600	3797800	3.12E-08	3.62E-08	2.01E-09	7.02E-04	9.86E-04	
2546	362700	3797800	3.12E-08	3.61E-08	2.01E-09	7.00E-04	9.41E-04	
2547	359800	3797900	4.24E-08	4.92E-08	2.73E-09	9.53E-04	2.42E-03	
2548	359900	3797900	4.48E-08	5.19E-08	2.89E-09	1.01E-03	2.48E-03	
2549	360000	3797900	4.57E-08	5.29E-08	2.94E-09	1.03E-03	2.53E-03	
2550	360100	3797900	4.90E-08	5.68E-08	3.15E-09	1.10E-03	2.49E-03	
2551	360200	3797900	5.22E-08	6.05E-08	3.36E-09	1.17E-03	2.41E-03	
2552	360300	3797900	5.49E-08	6.36E-08	3.54E-09	1.23E-03	2.41E-03	
2553	360400	3797900	5.67E-08	6.57E-08	3.65E-09	1.27E-03	2.40E-03	
2554	360500	3797900	5.76E-08	6.67E-08	3.71E-09	1.29E-03	2.40E-03	
2555	360600	3797900	5.76E-08	6.68E-08	3.71E-09	1.29E-03	2.34E-03	
2556	362200	3797900	3.20E-08	3.71E-08	2.06E-09	7.18E-04	1.15E-03	
2557	362300	3797900	3.18E-08	3.69E-08	2.05E-09	7.15E-04	1.13E-03	
2558	362400	3797900	3.17E-08	3.67E-08	2.04E-09	7.12E-04	1.09E-03	
2559	362500	3797900	3.16E-08	3.66E-08	2.04E-09	7.10E-04	1.04E-03	
2560	362600	3797900	3.16E-08	3.66E-08	2.03E-09	7.09E-04	9.82E-04	
2561	362700	3797900	3.15E-08	3.65E-08	2.03E-09	7.08E-04	9.62E-04	
2562	359600	3798000	3.61E-08	4.19E-08	2.33E-09	8.12E-04	2.51E-03	
2563	359700	3798000	3.84E-08	4.46E-08	2.48E-09	8.64E-04	2.49E-03	
2564	359800	3798000	4.05E-08	4.69E-08	2.61E-09	9.10E-04	2.53E-03	
2565	359900	3798000	4.41E-08	5.12E-08	2.84E-09	9.92E-04	2.61E-03	Nonresidential
2566	360000	3798000	4.60E-08	5.33E-08	2.96E-09	1.03E-03	2.67E-03	Nonresidential
2567	360100	3798000	4.95E-08	5.73E-08	3.19E-09	1.11E-03	2.59E-03	Nonresidential
2568	360200	3798000	5.29E-08	6.13E-08	3.41E-09	1.19E-03	2.54E-03	
2569	360300	3798000	5.58E-08	6.47E-08	3.60E-09	1.25E-03	2.54E-03	
2570	360400	3798000	5.77E-08	6.68E-08	3.72E-09	1.30E-03	2.54E-03	
2571	360500	3798000	5.85E-08	6.78E-08	3.77E-09	1.31E-03	2.53E-03	
2572	362300	3798000	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.15E-03	
2573	362400	3798000	3.20E-08	3.71E-08	2.06E-09	7.19E-04	1.09E-03	
2574	362500	3798000	3.19E-08	3.70E-08	2.06E-09	7.17E-04	1.03E-03	
2575	362600	3798000	3.19E-08	3.70E-08	2.05E-09	7.16E-04	9.99E-04	
2576	362700	3798000	3.19E-08	3.69E-08	2.05E-09	7.16E-04	9.70E-04	
2577	359400	3798100	3.19E-08	3.70E-08	2.06E-09	7.17E-04	2.40E-03	
2578	359500	3798100	3.49E-08	4.04E-08	2.25E-09	7.83E-04	2.61E-03	Nonresidential
2579	359600	3798100	3.69E-08	4.27E-08	2.38E-09	8.29E-04	2.64E-03	Nonresidential
2580	359700	3798100	3.90E-08	4.52E-08	2.51E-09	8.77E-04	2.62E-03	Nonresidential
2581	359800	3798100	4.08E-08	4.73E-08	2.63E-09	9.17E-04	2.65E-03	Nonresidential
2582	359900	3798100	4.31E-08	5.00E-08	2.78E-09	9.69E-04	2.78E-03	Nonresidential
2583	360000	3798100	4.63E-08	5.36E-08	2.98E-09	1.04E-03	2.82E-03	Nonresidential
2584	360100	3798100	5.00E-08	5.80E-08	3.22E-09	1.12E-03	2.78E-03	Nonresidential
2585	360200	3798100	5.38E-08	6.23E-08	3.46E-09	1.21E-03	2.67E-03	Nonresidential
2586	360300	3798100	5.69E-08	6.59E-08	3.66E-09	1.28E-03	2.67E-03	Nonresidential
2587	360400	3798100	5.88E-08	6.81E-08	3.79E-09	1.32E-03	2.68E-03	Nonresidential
2588	362300	3798100	3.24E-08	3.75E-08	2.09E-09	7.27E-04	1.16E-03	
2589	362400	3798100	3.23E-08	3.74E-08	2.08E-09	7.26E-04	1.09E-03	
2590	362500	3798100	3.22E-08	3.74E-08	2.08E-09	7.24E-04	1.04E-03	
2591	362600	3798100	3.22E-08	3.73E-08	2.08E-09	7.24E-04	1.01E-03	
2592	362700	3798100	3.22E-08	3.73E-08	2.07E-09	7.23E-04	9.63E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2593	362800	3798100	3.22E-08	3.73E-08	2.07E-09	7.23E-04	9.32E-04	
2594	359000	3798200	2.35E-08	2.72E-08	1.51E-09	5.28E-04	2.26E-03	
2595	359100	3798200	2.56E-08	2.97E-08	1.65E-09	5.75E-04	2.23E-03	
2596	359200	3798200	2.78E-08	3.22E-08	1.79E-09	6.25E-04	2.37E-03	
2597	359300	3798200	2.97E-08	3.44E-08	1.91E-09	6.67E-04	2.31E-03	
2598	359400	3798200	3.26E-08	3.78E-08	2.10E-09	7.34E-04	2.45E-03	
2599	359500	3798200	3.47E-08	4.02E-08	2.24E-09	7.80E-04	2.72E-03	Nonresidential
2600	359600	3798200	3.78E-08	4.38E-08	2.44E-09	8.50E-04	2.78E-03	Nonresidential
2601	359700	3798200	3.97E-08	4.60E-08	2.56E-09	8.92E-04	2.77E-03	Nonresidential
2602	359800	3798200	4.12E-08	4.77E-08	2.65E-09	9.25E-04	2.77E-03	Nonresidential
2603	359900	3798200	4.33E-08	5.02E-08	2.79E-09	9.73E-04	2.90E-03	Nonresidential
2604	360000	3798200	4.66E-08	5.40E-08	3.00E-09	1.05E-03	2.96E-03	Nonresidential
2605	360100	3798200	5.07E-08	5.87E-08	3.27E-09	1.14E-03	2.87E-03	Nonresidential
2606	360200	3798200	5.48E-08	6.35E-08	3.53E-09	1.23E-03	2.83E-03	Nonresidential
2607	362400	3798200	3.26E-08	3.78E-08	2.10E-09	7.32E-04	1.08E-03	
2608	362500	3798200	3.25E-08	3.77E-08	2.10E-09	7.31E-04	1.04E-03	
2609	362600	3798200	3.25E-08	3.77E-08	2.10E-09	7.31E-04	9.97E-04	
2610	362700	3798200	3.25E-08	3.77E-08	2.09E-09	7.31E-04	9.79E-04	
2611	362800	3798200	3.25E-08	3.77E-08	2.09E-09	7.30E-04	9.93E-04	
2612	358900	3798300	2.20E-08	2.56E-08	1.42E-09	4.95E-04	2.31E-03	
2613	359000	3798300	2.38E-08	2.76E-08	1.53E-09	5.35E-04	2.40E-03	
2614	359100	3798300	2.58E-08	2.99E-08	1.66E-09	5.79E-04	2.32E-03	
2615	359200	3798300	2.83E-08	3.27E-08	1.82E-09	6.35E-04	2.42E-03	
2616	359300	3798300	3.06E-08	3.55E-08	1.97E-09	6.88E-04	2.46E-03	
2617	359400	3798300	3.16E-08	3.67E-08	2.04E-09	7.11E-04	2.55E-03	
2618	359500	3798300	3.59E-08	4.16E-08	2.31E-09	8.06E-04	2.81E-03	Nonresidential
2619	359600	3798300	3.91E-08	4.54E-08	2.52E-09	8.79E-04	3.01E-03	Nonresidential
2620	359700	3798300	4.06E-08	4.71E-08	2.62E-09	9.13E-04	2.98E-03	Nonresidential
2621	359800	3798300	4.16E-08	4.82E-08	2.68E-09	9.34E-04	2.90E-03	Nonresidential
2622	359900	3798300	4.35E-08	5.05E-08	2.80E-09	9.78E-04	3.05E-03	Nonresidential
2623	360000	3798300	4.70E-08	5.45E-08	3.03E-09	1.06E-03	3.08E-03	Nonresidential
2624	360100	3798300	5.15E-08	5.97E-08	3.32E-09	1.16E-03	3.05E-03	Nonresidential
2625	362400	3798300	3.28E-08	3.81E-08	2.12E-09	7.38E-04	1.08E-03	
2626	362500	3798300	3.28E-08	3.81E-08	2.12E-09	7.38E-04	1.03E-03	
2627	362600	3798300	3.28E-08	3.81E-08	2.12E-09	7.38E-04	1.04E-03	
2628	362700	3798300	3.28E-08	3.81E-08	2.12E-09	7.38E-04	1.05E-03	
2629	362800	3798300	3.28E-08	3.81E-08	2.12E-09	7.38E-04	1.05E-03	
2630	358700	3798400	2.00E-08	2.31E-08	1.29E-09	4.48E-04	2.31E-03	
2631	358800	3798400	2.10E-08	2.44E-08	1.35E-09	4.72E-04	2.37E-03	
2632	358900	3798400	2.25E-08	2.60E-08	1.45E-09	5.05E-04	2.35E-03	
2633	359000	3798400	2.38E-08	2.76E-08	1.53E-09	5.34E-04	2.49E-03	
2634	359100	3798400	2.64E-08	3.06E-08	1.70E-09	5.92E-04	2.51E-03	
2635	359200	3798400	2.77E-08	3.21E-08	1.78E-09	6.22E-04	2.41E-03	
2636	359300	3798400	3.03E-08	3.51E-08	1.95E-09	6.80E-04	2.57E-03	Nonresidential
2637	359400	3798400	3.34E-08	3.87E-08	2.15E-09	7.51E-04	2.50E-03	
2638	359500	3798400	3.73E-08	4.33E-08	2.40E-09	8.39E-04	2.88E-03	Nonresidential
2639	359600	3798400	4.08E-08	4.73E-08	2.63E-09	9.17E-04	3.18E-03	Nonresidential
2640	359700	3798400	4.17E-08	4.83E-08	2.68E-09	9.36E-04	3.13E-03	Nonresidential
2641	359800	3798400	4.20E-08	4.87E-08	2.71E-09	9.44E-04	3.02E-03	Nonresidential
2642	362400	3798400	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.08E-03	
2643	362500	3798400	3.31E-08	3.84E-08	2.13E-09	7.45E-04	1.10E-03	
2644	362600	3798400	3.32E-08	3.84E-08	2.14E-09	7.45E-04	1.11E-03	
2645	362700	3798400	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.11E-03	
2646	362800	3798400	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.10E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2647	358700	3798500	2.04E-08	2.36E-08	1.31E-09	4.59E-04	2.35E-03	
2648	358800	3798500	2.16E-08	2.50E-08	1.39E-09	4.85E-04	2.52E-03	
2649	358900	3798500	2.28E-08	2.64E-08	1.47E-09	5.12E-04	2.54E-03	
2650	359000	3798500	2.42E-08	2.80E-08	1.56E-09	5.44E-04	2.61E-03	Nonresidential
2651	359100	3798500	2.53E-08	2.94E-08	1.63E-09	5.69E-04	2.70E-03	Nonresidential
2652	359200	3798500	2.82E-08	3.27E-08	1.82E-09	6.34E-04	2.59E-03	Nonresidential
2653	359300	3798500	2.93E-08	3.39E-08	1.89E-09	6.58E-04	2.73E-03	Nonresidential
2654	359400	3798500	3.34E-08	3.87E-08	2.15E-09	7.51E-04	2.76E-03	Nonresidential
2655	359500	3798500	3.92E-08	4.54E-08	2.52E-09	8.80E-04	2.85E-03	Nonresidential
2656	359600	3798500	4.29E-08	4.97E-08	2.76E-09	9.63E-04	3.28E-03	Nonresidential
2657	362400	3798500	3.34E-08	3.87E-08	2.15E-09	7.50E-04	1.17E-03	
2658	362500	3798500	3.34E-08	3.87E-08	2.15E-09	7.51E-04	1.18E-03	
2659	362600	3798500	3.35E-08	3.88E-08	2.16E-09	7.52E-04	1.17E-03	
2660	362700	3798500	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.16E-03	
2661	362800	3798500	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.13E-03	
2662	358600	3798600	1.98E-08	2.30E-08	1.28E-09	4.45E-04	2.01E-03	
2663	358700	3798600	2.06E-08	2.39E-08	1.33E-09	4.63E-04	2.29E-03	
2664	358800	3798600	2.20E-08	2.54E-08	1.41E-09	4.93E-04	2.58E-03	Nonresidential
2665	358900	3798600	2.32E-08	2.68E-08	1.49E-09	5.20E-04	2.74E-03	Nonresidential
2666	359000	3798600	2.44E-08	2.83E-08	1.57E-09	5.48E-04	2.71E-03	Nonresidential
2667	359100	3798600	2.48E-08	2.87E-08	1.60E-09	5.57E-04	2.89E-03	Nonresidential
2668	359200	3798600	2.64E-08	3.06E-08	1.70E-09	5.94E-04	2.90E-03	Nonresidential
2669	359300	3798600	2.94E-08	3.41E-08	1.89E-09	6.61E-04	2.74E-03	Nonresidential
2670	359400	3798600	3.45E-08	4.00E-08	2.22E-09	7.76E-04	2.77E-03	Nonresidential
2671	362400	3798600	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.25E-03	
2672	362500	3798600	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.24E-03	
2673	362600	3798600	3.38E-08	3.91E-08	2.17E-09	7.59E-04	1.22E-03	
2674	362700	3798600	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.18E-03	
2675	362800	3798600	3.38E-08	3.92E-08	2.18E-09	7.60E-04	1.13E-03	
2676	358500	3798700	1.98E-08	2.30E-08	1.28E-09	4.45E-04	2.03E-03	
2677	358600	3798700	2.02E-08	2.34E-08	1.30E-09	4.53E-04	2.02E-03	
2678	358700	3798700	2.04E-08	2.37E-08	1.32E-09	4.59E-04	2.14E-03	
2679	358800	3798700	2.19E-08	2.54E-08	1.41E-09	4.93E-04	2.54E-03	
2680	358900	3798700	2.31E-08	2.68E-08	1.49E-09	5.20E-04	2.84E-03	Nonresidential
2681	359000	3798700	2.42E-08	2.81E-08	1.56E-09	5.45E-04	2.98E-03	Nonresidential
2682	359100	3798700	2.45E-08	2.84E-08	1.58E-09	5.51E-04	2.99E-03	Nonresidential
2683	362400	3798700	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.31E-03	
2684	362500	3798700	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.28E-03	
2685	362600	3798700	3.41E-08	3.95E-08	2.19E-09	7.65E-04	1.24E-03	
2686	362700	3798700	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.18E-03	
2687	362800	3798700	3.41E-08	3.96E-08	2.20E-09	7.67E-04	1.12E-03	
2688	358500	3798800	2.00E-08	2.32E-08	1.29E-09	4.50E-04	1.97E-03	
2689	358600	3798800	2.01E-08	2.33E-08	1.29E-09	4.51E-04	1.87E-03	
2690	358700	3798800	2.00E-08	2.32E-08	1.29E-09	4.50E-04	2.01E-03	
2691	358800	3798800	2.14E-08	2.48E-08	1.38E-09	4.81E-04	2.37E-03	
2692	358900	3798800	2.29E-08	2.65E-08	1.47E-09	5.14E-04	2.82E-03	Nonresidential
2693	359000	3798800	2.41E-08	2.80E-08	1.55E-09	5.42E-04	3.14E-03	Nonresidential
2694	362400	3798800	3.42E-08	3.96E-08	2.20E-09	7.67E-04	1.35E-03	
2695	362500	3798800	3.42E-08	3.97E-08	2.21E-09	7.69E-04	1.29E-03	
2696	362600	3798800	3.43E-08	3.98E-08	2.21E-09	7.71E-04	1.23E-03	
2697	362700	3798800	3.44E-08	3.98E-08	2.21E-09	7.72E-04	1.16E-03	
2698	362800	3798800	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.08E-03	
2699	358400	3798900	2.02E-08	2.34E-08	1.30E-09	4.53E-04	2.06E-03	
2700	358500	3798900	1.99E-08	2.31E-08	1.28E-09	4.48E-04	1.93E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2701	358600	3798900	1.97E-08	2.28E-08	1.27E-09	4.43E-04	1.91E-03	
2702	358700	3798900	1.98E-08	2.29E-08	1.27E-09	4.44E-04	1.71E-03	
2703	358800	3798900	2.02E-08	2.34E-08	1.30E-09	4.54E-04	2.07E-03	
2704	358900	3798900	2.22E-08	2.57E-08	1.43E-09	4.99E-04	2.64E-03	Nonresidential
2705	362400	3798900	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.35E-03	
2706	362500	3798900	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.27E-03	
2707	362600	3798900	3.46E-08	4.00E-08	2.23E-09	7.76E-04	1.19E-03	
2708	362700	3798900	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.10E-03	
2709	362800	3798900	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.02E-03	
2710	358400	3799000	2.16E-08	2.51E-08	1.39E-09	4.86E-04	2.05E-03	
2711	358500	3799000	2.10E-08	2.43E-08	1.35E-09	4.71E-04	2.01E-03	
2712	358600	3799000	2.17E-08	2.51E-08	1.40E-09	4.87E-04	2.08E-03	
2713	358700	3799000	2.10E-08	2.44E-08	1.35E-09	4.73E-04	1.90E-03	
2714	358800	3799000	2.10E-08	2.43E-08	1.35E-09	4.72E-04	1.69E-03	
2715	358900	3799000	2.22E-08	2.57E-08	1.43E-09	4.98E-04	2.30E-03	
2716	362400	3799000	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.31E-03	
2717	362500	3799000	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.22E-03	
2718	362600	3799000	3.47E-08	4.03E-08	2.24E-09	7.81E-04	1.12E-03	
2719	362700	3799000	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.02E-03	
2720	362800	3799000	3.48E-08	4.03E-08	2.24E-09	7.81E-04	9.47E-04	
2721	358300	3799100	2.24E-08	2.60E-08	1.44E-09	5.03E-04	2.11E-03	
2722	358400	3799100	2.31E-08	2.67E-08	1.49E-09	5.19E-04	2.23E-03	
2723	358500	3799100	2.26E-08	2.61E-08	1.45E-09	5.07E-04	2.09E-03	
2724	358600	3799100	2.26E-08	2.61E-08	1.45E-09	5.07E-04	2.17E-03	
2725	358700	3799100	2.16E-08	2.51E-08	1.39E-09	4.86E-04	1.70E-03	
2726	358800	3799100	2.21E-08	2.56E-08	1.42E-09	4.96E-04	1.81E-03	
2727	362400	3799100	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.23E-03	
2728	362500	3799100	3.48E-08	4.04E-08	2.24E-09	7.83E-04	1.15E-03	
2729	362600	3799100	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.07E-03	
2730	362700	3799100	3.49E-08	4.04E-08	2.25E-09	7.84E-04	9.96E-04	
2731	362800	3799100	3.49E-08	4.04E-08	2.25E-09	7.84E-04	9.22E-04	
2732	358200	3799200	2.24E-08	2.59E-08	1.44E-09	5.03E-04	2.04E-03	
2733	358300	3799200	2.28E-08	2.64E-08	1.47E-09	5.13E-04	2.13E-03	
2734	358400	3799200	2.28E-08	2.64E-08	1.47E-09	5.12E-04	2.14E-03	
2735	358500	3799200	2.26E-08	2.62E-08	1.45E-09	5.07E-04	1.85E-03	
2736	358600	3799200	2.24E-08	2.60E-08	1.44E-09	5.04E-04	1.71E-03	
2737	358700	3799200	2.23E-08	2.58E-08	1.43E-09	5.00E-04	1.35E-03	
2738	362300	3799200	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.31E-03	
2739	362400	3799200	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.22E-03	
2740	362500	3799200	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.13E-03	
2741	362600	3799200	3.50E-08	4.05E-08	2.25E-09	7.85E-04	1.04E-03	
2742	362700	3799200	3.49E-08	4.05E-08	2.25E-09	7.85E-04	9.55E-04	
2743	358200	3799300	2.21E-08	2.57E-08	1.43E-09	4.98E-04	1.59E-03	
2744	358300	3799300	2.24E-08	2.59E-08	1.44E-09	5.03E-04	1.71E-03	
2745	358400	3799300	2.23E-08	2.59E-08	1.44E-09	5.01E-04	1.76E-03	
2746	358500	3799300	2.17E-08	2.52E-08	1.40E-09	4.89E-04	1.59E-03	
2747	358600	3799300	2.26E-08	2.62E-08	1.45E-09	5.07E-04	1.34E-03	
2748	358700	3799300	2.39E-08	2.77E-08	1.54E-09	5.37E-04	1.28E-03	
2749	362300	3799300	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.28E-03	
2750	362400	3799300	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.18E-03	
2751	362500	3799300	3.50E-08	4.05E-08	2.25E-09	7.86E-04	1.08E-03	
2752	362600	3799300	3.50E-08	4.05E-08	2.25E-09	7.85E-04	9.80E-04	
2753	362700	3799300	3.49E-08	4.05E-08	2.25E-09	7.85E-04	9.39E-04	
2754	358200	3799400	2.14E-08	2.48E-08	1.38E-09	4.80E-04	1.63E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2755	358300	3799400	2.14E-08	2.48E-08	1.38E-09	4.81E-04	1.64E-03	
2756	358400	3799400	2.21E-08	2.56E-08	1.42E-09	4.96E-04	1.63E-03	
2757	358500	3799400	2.30E-08	2.66E-08	1.48E-09	5.16E-04	1.74E-03	
2758	358600	3799400	2.47E-08	2.86E-08	1.59E-09	5.55E-04	1.82E-03	
2759	362200	3799400	3.49E-08	4.04E-08	2.25E-09	7.83E-04	1.34E-03	
2760	362300	3799400	3.49E-08	4.04E-08	2.25E-09	7.84E-04	1.22E-03	
2761	362400	3799400	3.49E-08	4.05E-08	2.25E-09	7.84E-04	1.10E-03	
2762	362500	3799400	3.49E-08	4.05E-08	2.25E-09	7.84E-04	9.98E-04	
2763	362600	3799400	3.49E-08	4.04E-08	2.25E-09	7.84E-04	9.75E-04	
2764	362700	3799400	3.48E-08	4.04E-08	2.24E-09	7.83E-04	9.64E-04	
2765	358200	3799500	2.29E-08	2.65E-08	1.47E-09	5.14E-04	1.46E-03	
2766	358300	3799500	2.38E-08	2.76E-08	1.53E-09	5.35E-04	1.64E-03	
2767	358400	3799500	2.54E-08	2.94E-08	1.64E-09	5.71E-04	1.82E-03	
2768	358500	3799500	2.73E-08	3.16E-08	1.76E-09	6.12E-04	1.96E-03	
2769	358600	3799500	2.84E-08	3.29E-08	1.83E-09	6.38E-04	2.12E-03	
2770	362100	3799500	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.38E-03	
2771	362200	3799500	3.48E-08	4.04E-08	2.24E-09	7.83E-04	1.24E-03	
2772	362300	3799500	3.48E-08	4.04E-08	2.24E-09	7.83E-04	1.11E-03	
2773	362400	3799500	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.01E-03	
2774	362500	3799500	3.48E-08	4.03E-08	2.24E-09	7.82E-04	9.96E-04	
2775	362600	3799500	3.47E-08	4.03E-08	2.24E-09	7.81E-04	9.77E-04	
2776	358100	3799600	2.43E-08	2.82E-08	1.57E-09	5.47E-04	1.21E-03	
2777	358200	3799600	2.64E-08	3.06E-08	1.70E-09	5.94E-04	1.41E-03	
2778	358300	3799600	2.93E-08	3.40E-08	1.89E-09	6.59E-04	1.65E-03	
2779	358400	3799600	3.17E-08	3.68E-08	2.04E-09	7.13E-04	1.89E-03	
2780	358500	3799600	3.27E-08	3.79E-08	2.10E-09	7.34E-04	1.91E-03	
2781	362000	3799600	3.48E-08	4.03E-08	2.24E-09	7.82E-04	1.39E-03	
2782	362100	3799600	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.23E-03	
2783	362200	3799600	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.09E-03	
2784	362300	3799600	3.47E-08	4.02E-08	2.23E-09	7.79E-04	1.01E-03	
2785	362400	3799600	3.46E-08	4.02E-08	2.23E-09	7.79E-04	9.95E-04	
2786	362500	3799600	3.46E-08	4.01E-08	2.23E-09	7.77E-04	9.80E-04	
2787	362600	3799600	3.45E-08	4.00E-08	2.22E-09	7.76E-04	9.91E-04	
2788	358100	3799700	2.99E-08	3.46E-08	1.92E-09	6.71E-04	1.67E-03	
2789	358200	3799700	3.01E-08	3.49E-08	1.94E-09	6.77E-04	1.72E-03	
2790	358300	3799700	3.27E-08	3.79E-08	2.11E-09	7.34E-04	1.89E-03	
2791	358400	3799700	3.08E-08	3.57E-08	1.98E-09	6.92E-04	1.59E-03	
2792	358500	3799700	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.68E-03	
2793	358600	3799700	3.68E-08	4.27E-08	2.37E-09	8.28E-04	1.90E-03	
2794	361800	3799700	3.50E-08	4.05E-08	2.25E-09	7.86E-04	1.56E-03	
2795	361900	3799700	3.48E-08	4.04E-08	2.24E-09	7.82E-04	1.36E-03	
2796	362000	3799700	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.19E-03	
2797	362100	3799700	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.04E-03	
2798	362200	3799700	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.00E-03	
2799	362300	3799700	3.45E-08	3.99E-08	2.22E-09	7.75E-04	1.02E-03	
2800	362400	3799700	3.44E-08	3.99E-08	2.22E-09	7.73E-04	1.04E-03	
2801	362500	3799700	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.05E-03	
2802	358100	3799800	2.82E-08	3.26E-08	1.81E-09	6.33E-04	1.23E-03	
2803	358200	3799800	2.91E-08	3.37E-08	1.87E-09	6.53E-04	1.26E-03	
2804	358300	3799800	3.01E-08	3.49E-08	1.94E-09	6.77E-04	1.32E-03	
2805	358400	3799800	3.06E-08	3.55E-08	1.97E-09	6.88E-04	1.19E-03	
2806	358500	3799800	3.25E-08	3.77E-08	2.09E-09	7.30E-04	1.24E-03	
2807	358600	3799800	3.50E-08	4.05E-08	2.25E-09	7.86E-04	1.30E-03	
2808	361800	3799800	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.35E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2809	361900	3799800	3.47E-08	4.02E-08	2.24E-09	7.80E-04	1.21E-03	
2810	362000	3799800	3.45E-08	4.00E-08	2.22E-09	7.76E-04	1.12E-03	
2811	362100	3799800	3.44E-08	3.98E-08	2.22E-09	7.73E-04	1.06E-03	
2812	362200	3799800	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.07E-03	
2813	362300	3799800	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.08E-03	
2814	362400	3799800	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.08E-03	
2815	358100	3799900	3.03E-08	3.51E-08	1.95E-09	6.80E-04	1.36E-03	
2816	358200	3799900	2.78E-08	3.22E-08	1.79E-09	6.24E-04	8.90E-04	
2817	358300	3799900	3.03E-08	3.51E-08	1.95E-09	6.81E-04	9.78E-04	
2818	358400	3799900	3.01E-08	3.49E-08	1.94E-09	6.76E-04	1.07E-03	
2819	358500	3799900	3.19E-08	3.70E-08	2.06E-09	7.17E-04	1.18E-03	
2820	361700	3799900	3.52E-08	4.08E-08	2.27E-09	7.91E-04	1.45E-03	
2821	361800	3799900	3.48E-08	4.03E-08	2.24E-09	7.81E-04	1.36E-03	
2822	361900	3799900	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.28E-03	
2823	362000	3799900	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.19E-03	
2824	362100	3799900	3.41E-08	3.95E-08	2.20E-09	7.66E-04	1.11E-03	
2825	362200	3799900	3.40E-08	3.94E-08	2.19E-09	7.63E-04	1.08E-03	
2826	362300	3799900	3.39E-08	3.93E-08	2.18E-09	7.61E-04	1.08E-03	
2827	358100	3800000	3.07E-08	3.56E-08	1.98E-09	6.90E-04	1.02E-03	
2828	358200	3800000	2.93E-08	3.40E-08	1.89E-09	6.59E-04	8.98E-04	
2829	358300	3800000	3.05E-08	3.53E-08	1.96E-09	6.85E-04	9.45E-04	
2830	358400	3800000	3.19E-08	3.70E-08	2.05E-09	7.17E-04	1.01E-03	
2831	358500	3800000	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.09E-03	
2832	361700	3800000	3.50E-08	4.05E-08	2.25E-09	7.85E-04	1.56E-03	
2833	361800	3800000	3.45E-08	4.00E-08	2.22E-09	7.75E-04	1.42E-03	
2834	361900	3800000	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.29E-03	
2835	362000	3800000	3.39E-08	3.93E-08	2.18E-09	7.62E-04	1.18E-03	
2836	362100	3800000	3.37E-08	3.91E-08	2.17E-09	7.58E-04	1.10E-03	
2837	362200	3800000	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.09E-03	
2838	358100	3800100	3.02E-08	3.51E-08	1.95E-09	6.80E-04	9.36E-04	
2839	358200	3800100	3.12E-08	3.61E-08	2.01E-09	7.01E-04	9.87E-04	
2840	358300	3800100	3.23E-08	3.75E-08	2.08E-09	7.26E-04	1.04E-03	
2841	358400	3800100	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.09E-03	
2842	358500	3800100	3.53E-08	4.09E-08	2.27E-09	7.93E-04	1.17E-03	
2843	361700	3800100	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.51E-03	
2844	361800	3800100	3.41E-08	3.95E-08	2.20E-09	7.67E-04	1.36E-03	
2845	361900	3800100	3.38E-08	3.91E-08	2.17E-09	7.59E-04	1.25E-03	
2846	362000	3800100	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.20E-03	
2847	362100	3800100	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.20E-03	
2848	358000	3800200	3.55E-08	4.11E-08	2.29E-09	7.97E-04	1.06E-03	
2849	358100	3800200	3.28E-08	3.80E-08	2.11E-09	7.36E-04	9.76E-04	
2850	358200	3800200	3.32E-08	3.85E-08	2.14E-09	7.47E-04	1.03E-03	
2851	358300	3800200	3.43E-08	3.97E-08	2.21E-09	7.70E-04	1.10E-03	
2852	358400	3800200	3.56E-08	4.12E-08	2.29E-09	7.99E-04	1.18E-03	
2853	361700	3800200	3.42E-08	3.96E-08	2.20E-09	7.68E-04	1.58E-03	
2854	361800	3800200	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.44E-03	
2855	361900	3800200	3.33E-08	3.86E-08	2.14E-09	7.48E-04	1.32E-03	
2856	362000	3800200	3.30E-08	3.82E-08	2.12E-09	7.41E-04	1.25E-03	
2857	362100	3800200	3.28E-08	3.80E-08	2.11E-09	7.37E-04	1.25E-03	
2858	358000	3800300	3.81E-08	4.42E-08	2.45E-09	8.56E-04	1.11E-03	
2859	358100	3800300	3.73E-08	4.32E-08	2.40E-09	8.39E-04	1.10E-03	
2860	358200	3800300	3.55E-08	4.11E-08	2.29E-09	7.97E-04	1.06E-03	
2861	358300	3800300	3.64E-08	4.21E-08	2.34E-09	8.17E-04	1.13E-03	
2862	358400	3800300	3.76E-08	4.35E-08	2.42E-09	8.44E-04	1.22E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2863	361600	3800300	3.43E-08	3.98E-08	2.21E-09	7.72E-04	1.73E-03	
2864	361700	3800300	3.36E-08	3.89E-08	2.16E-09	7.55E-04	1.56E-03	
2865	361800	3800300	3.31E-08	3.83E-08	2.13E-09	7.43E-04	1.42E-03	
2866	361900	3800300	3.27E-08	3.79E-08	2.11E-09	7.35E-04	1.31E-03	
2867	362000	3800300	3.24E-08	3.76E-08	2.09E-09	7.28E-04	1.21E-03	
2868	362100	3800300	3.22E-08	3.73E-08	2.07E-09	7.23E-04	1.20E-03	
2869	358000	3800400	3.73E-08	4.32E-08	2.40E-09	8.38E-04	1.05E-03	
2870	358100	3800400	3.65E-08	4.24E-08	2.35E-09	8.21E-04	1.05E-03	
2871	358200	3800400	3.75E-08	4.35E-08	2.42E-09	8.43E-04	1.06E-03	
2872	358300	3800400	3.86E-08	4.47E-08	2.48E-09	8.67E-04	1.11E-03	
2873	358400	3800400	3.97E-08	4.60E-08	2.56E-09	8.93E-04	1.21E-03	
2874	361500	3800400	3.46E-08	4.01E-08	2.23E-09	7.78E-04	2.03E-03	
2875	361600	3800400	3.36E-08	3.90E-08	2.17E-09	7.56E-04	1.83E-03	
2876	361700	3800400	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.65E-03	
2877	361800	3800400	3.24E-08	3.75E-08	2.09E-09	7.28E-04	1.50E-03	
2878	361900	3800400	3.20E-08	3.71E-08	2.06E-09	7.19E-04	1.37E-03	
2879	362000	3800400	3.17E-08	3.67E-08	2.04E-09	7.12E-04	1.26E-03	
2880	358000	3800500	3.95E-08	4.57E-08	2.54E-09	8.86E-04	1.08E-03	
2881	358100	3800500	3.89E-08	4.51E-08	2.51E-09	8.74E-04	1.18E-03	
2882	358200	3800500	3.99E-08	4.62E-08	2.57E-09	8.96E-04	1.30E-03	
2883	358300	3800500	4.09E-08	4.74E-08	2.64E-09	9.20E-04	1.43E-03	
2884	358400	3800500	4.21E-08	4.88E-08	2.71E-09	9.45E-04	1.58E-03	
2885	361500	3800500	3.37E-08	3.91E-08	2.17E-09	7.57E-04	1.96E-03	
2886	361600	3800500	3.28E-08	3.80E-08	2.11E-09	7.36E-04	1.75E-03	
2887	361700	3800500	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.57E-03	
2888	361800	3800500	3.16E-08	3.66E-08	2.03E-09	7.09E-04	1.42E-03	
2889	361900	3800500	3.12E-08	3.61E-08	2.01E-09	7.00E-04	1.29E-03	
2890	362000	3800500	3.09E-08	3.58E-08	1.99E-09	6.94E-04	1.18E-03	
2891	358000	3800600	4.10E-08	4.75E-08	2.64E-09	9.22E-04	1.31E-03	
2892	358100	3800600	4.14E-08	4.79E-08	2.66E-09	9.29E-04	1.44E-03	
2893	358200	3800600	4.24E-08	4.91E-08	2.73E-09	9.52E-04	1.58E-03	
2894	358300	3800600	4.35E-08	5.04E-08	2.80E-09	9.77E-04	1.74E-03	
2895	358400	3800600	4.47E-08	5.18E-08	2.88E-09	1.00E-03	1.93E-03	
2896	361400	3800600	3.37E-08	3.90E-08	2.17E-09	7.57E-04	2.14E-03	
2897	361500	3800600	3.26E-08	3.77E-08	2.10E-09	7.32E-04	1.90E-03	
2898	361600	3800600	3.17E-08	3.68E-08	2.04E-09	7.13E-04	1.75E-03	
2899	361700	3800600	3.11E-08	3.60E-08	2.00E-09	6.98E-04	1.61E-03	
2900	361800	3800600	3.06E-08	3.55E-08	1.97E-09	6.88E-04	1.48E-03	
2901	361900	3800600	3.03E-08	3.51E-08	1.95E-09	6.80E-04	1.36E-03	
2902	358000	3800700	4.29E-08	4.98E-08	2.77E-09	9.65E-04	1.57E-03	
2903	358100	3800700	4.39E-08	5.09E-08	2.83E-09	9.87E-04	1.63E-03	
2904	358200	3800700	4.50E-08	5.21E-08	2.90E-09	1.01E-03	1.79E-03	
2905	358300	3800700	4.62E-08	5.35E-08	2.97E-09	1.04E-03	1.97E-03	
2906	358400	3800700	4.75E-08	5.50E-08	3.06E-09	1.07E-03	2.17E-03	
2907	361300	3800700	3.36E-08	3.89E-08	2.16E-09	7.54E-04	2.36E-03	
2908	361400	3800700	3.23E-08	3.74E-08	2.08E-09	7.26E-04	2.20E-03	
2909	361500	3800700	3.13E-08	3.63E-08	2.02E-09	7.04E-04	2.01E-03	
2910	361600	3800700	3.06E-08	3.55E-08	1.97E-09	6.87E-04	1.81E-03	
2911	361700	3800700	3.00E-08	3.48E-08	1.93E-09	6.75E-04	1.62E-03	
2912	361800	3800700	2.96E-08	3.43E-08	1.91E-09	6.65E-04	1.46E-03	
2913	358000	3800800	4.57E-08	5.30E-08	2.94E-09	1.03E-03	1.78E-03	
2914	358100	3800800	4.65E-08	5.39E-08	3.00E-09	1.05E-03	1.76E-03	
2915	358200	3800800	4.77E-08	5.53E-08	3.07E-09	1.07E-03	1.91E-03	
2916	358300	3800800	4.90E-08	5.68E-08	3.16E-09	1.10E-03	2.09E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2917	358400	3800800	5.05E-08	5.85E-08	3.25E-09	1.13E-03	2.27E-03	
2918	361200	3800800	3.34E-08	3.87E-08	2.15E-09	7.50E-04	2.33E-03	
2919	361300	3800800	3.19E-08	3.70E-08	2.05E-09	7.17E-04	2.24E-03	
2920	361400	3800800	3.09E-08	3.58E-08	1.99E-09	6.93E-04	2.09E-03	
2921	361500	3800800	3.00E-08	3.48E-08	1.94E-09	6.75E-04	1.89E-03	
2922	361600	3800800	2.94E-08	3.41E-08	1.90E-09	6.61E-04	1.81E-03	
2923	361700	3800800	2.89E-08	3.35E-08	1.86E-09	6.50E-04	1.73E-03	
2924	361800	3800800	2.86E-08	3.31E-08	1.84E-09	6.42E-04	1.63E-03	
2925	358000	3800900	4.80E-08	5.56E-08	3.09E-09	1.08E-03	1.85E-03	
2926	358100	3800900	4.92E-08	5.70E-08	3.17E-09	1.10E-03	1.79E-03	
2927	358200	3800900	5.05E-08	5.85E-08	3.25E-09	1.13E-03	1.93E-03	
2928	358300	3800900	5.19E-08	6.02E-08	3.35E-09	1.17E-03	2.07E-03	
2929	358400	3800900	5.36E-08	6.21E-08	3.45E-09	1.20E-03	2.22E-03	
2930	361100	3800900	3.30E-08	3.83E-08	2.13E-09	7.42E-04	2.66E-03	Nonresidential
2931	361200	3800900	3.14E-08	3.64E-08	2.02E-09	7.06E-04	2.34E-03	
2932	361300	3800900	3.03E-08	3.51E-08	1.95E-09	6.81E-04	2.08E-03	
2933	361400	3800900	2.95E-08	3.41E-08	1.90E-09	6.62E-04	1.83E-03	
2934	361500	3800900	2.88E-08	3.34E-08	1.86E-09	6.47E-04	1.81E-03	
2935	361600	3800900	2.83E-08	3.28E-08	1.82E-09	6.35E-04	1.83E-03	
2936	361700	3800900	2.79E-08	3.23E-08	1.79E-09	6.26E-04	1.80E-03	
2937	358000	3801000	5.05E-08	5.85E-08	3.25E-09	1.13E-03	1.67E-03	
2938	358100	3801000	5.18E-08	6.00E-08	3.33E-09	1.16E-03	1.76E-03	
2939	358200	3801000	5.32E-08	6.16E-08	3.43E-09	1.20E-03	1.85E-03	
2940	358300	3801000	5.48E-08	6.36E-08	3.53E-09	1.23E-03	1.94E-03	
2941	358400	3801000	5.68E-08	6.58E-08	3.66E-09	1.28E-03	2.03E-03	
2942	358500	3801000	5.91E-08	6.85E-08	3.81E-09	1.33E-03	2.12E-03	
2943	361000	3801000	3.27E-08	3.79E-08	2.11E-09	7.36E-04	2.64E-03	Nonresidential
2944	361100	3801000	3.10E-08	3.59E-08	2.00E-09	6.97E-04	2.31E-03	
2945	361200	3801000	2.98E-08	3.45E-08	1.92E-09	6.69E-04	2.27E-03	
2946	361300	3801000	2.89E-08	3.35E-08	1.86E-09	6.49E-04	2.05E-03	
2947	361400	3801000	2.82E-08	3.26E-08	1.81E-09	6.33E-04	1.81E-03	
2948	361500	3801000	2.76E-08	3.20E-08	1.78E-09	6.20E-04	1.65E-03	
2949	361600	3801000	2.72E-08	3.15E-08	1.75E-09	6.11E-04	1.68E-03	
2950	358100	3801100	5.42E-08	6.29E-08	3.49E-09	1.22E-03	1.78E-03	
2951	358200	3801100	5.58E-08	6.47E-08	3.60E-09	1.25E-03	1.83E-03	
2952	358300	3801100	5.77E-08	6.69E-08	3.72E-09	1.30E-03	1.87E-03	
2953	358400	3801100	5.99E-08	6.94E-08	3.86E-09	1.35E-03	1.97E-03	
2954	358500	3801100	6.26E-08	7.25E-08	4.03E-09	1.41E-03	2.20E-03	
2955	358600	3801100	6.59E-08	7.63E-08	4.24E-09	1.48E-03	2.46E-03	
2956	360800	3801100	3.57E-08	4.14E-08	2.30E-09	8.03E-04	3.56E-03	Nonresidential
2957	360900	3801100	3.30E-08	3.82E-08	2.13E-09	7.42E-04	3.11E-03	Nonresidential
2958	361000	3801100	3.09E-08	3.59E-08	1.99E-09	6.95E-04	2.65E-03	Nonresidential
2959	361100	3801100	2.94E-08	3.41E-08	1.90E-09	6.61E-04	2.29E-03	
2960	361200	3801100	2.84E-08	3.29E-08	1.83E-09	6.38E-04	1.90E-03	
2961	361300	3801100	2.76E-08	3.20E-08	1.78E-09	6.21E-04	1.92E-03	
2962	361400	3801100	2.70E-08	3.13E-08	1.74E-09	6.07E-04	1.82E-03	
2963	361500	3801100	2.65E-08	3.07E-08	1.71E-09	5.96E-04	1.63E-03	
2964	358100	3801200	5.66E-08	6.56E-08	3.65E-09	1.27E-03	1.69E-03	
2965	358200	3801200	5.84E-08	6.76E-08	3.76E-09	1.31E-03	1.73E-03	
2966	358300	3801200	6.04E-08	7.01E-08	3.89E-09	1.36E-03	1.90E-03	
2967	358400	3801200	6.29E-08	7.30E-08	4.06E-09	1.41E-03	2.09E-03	
2968	358500	3801200	6.60E-08	7.65E-08	4.25E-09	1.48E-03	2.29E-03	
2969	358600	3801200	6.97E-08	8.08E-08	4.49E-09	1.57E-03	2.48E-03	
2970	358700	3801200	7.43E-08	8.62E-08	4.79E-09	1.67E-03	2.64E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
2971	358800	3801200	8.01E-08	9.28E-08	5.16E-09	1.80E-03	2.76E-03	Nonresidential
2972	358900	3801200	8.73E-08	1.01E-07	5.62E-09	1.96E-03	2.81E-03	Nonresidential
2973	359000	3801200	9.62E-08	1.12E-07	6.20E-09	2.16E-03	2.75E-03	Nonresidential
2974	359100	3801200	1.07E-07	1.24E-07	6.90E-09	2.41E-03	2.56E-03	Residential
2975	359200	3801200	1.20E-07	1.39E-07	7.73E-09	2.70E-03	2.50E-03	Nonresidential
2976	359300	3801200	1.35E-07	1.56E-07	8.69E-09	3.03E-03	2.70E-03	Nonresidential
2977	359400	3801200	1.51E-07	1.75E-07	9.72E-09	3.39E-03	3.00E-03	Nonresidential
2978	359500	3801200	1.67E-07	1.93E-07	1.07E-08	3.75E-03	3.33E-03	Nonresidential
2979	359600	3801200	1.80E-07	2.09E-07	1.16E-08	4.04E-03	3.71E-03	Nonresidential
2980	359700	3801200	1.88E-07	2.18E-07	1.21E-08	4.22E-03	3.73E-03	Nonresidential
2981	359800	3801200	1.87E-07	2.17E-07	1.21E-08	4.21E-03	4.03E-03	Nonresidential
2982	359900	3801200	1.77E-07	2.05E-07	1.14E-08	3.97E-03	4.24E-03	Nonresidential
2983	360000	3801200	1.63E-07	1.88E-07	1.05E-08	3.65E-03	4.63E-03	Nonresidential
2984	360100	3801200	1.37E-07	1.59E-07	8.82E-09	3.08E-03	4.69E-03	Nonresidential
2985	360200	3801200	1.04E-07	1.21E-07	6.71E-09	2.34E-03	4.13E-03	Nonresidential
2986	360300	3801200	8.06E-08	9.34E-08	5.19E-09	1.81E-03	3.41E-03	Nonresidential
2987	360400	3801200	6.29E-08	7.29E-08	4.05E-09	1.41E-03	3.26E-03	Nonresidential
2988	360500	3801200	5.05E-08	5.85E-08	3.25E-09	1.14E-03	3.19E-03	Nonresidential
2989	360600	3801200	4.27E-08	4.95E-08	2.75E-09	9.60E-04	3.07E-03	Nonresidential
2990	360700	3801200	3.76E-08	4.35E-08	2.42E-09	8.44E-04	2.99E-03	Nonresidential
2991	360800	3801200	3.40E-08	3.94E-08	2.19E-09	7.64E-04	3.50E-03	Nonresidential
2992	360900	3801200	3.14E-08	3.64E-08	2.03E-09	7.07E-04	3.43E-03	Nonresidential
2993	361000	3801200	2.96E-08	3.43E-08	1.91E-09	6.65E-04	2.95E-03	Nonresidential
2994	361100	3801200	2.83E-08	3.28E-08	1.82E-09	6.36E-04	2.31E-03	
2995	361200	3801200	2.73E-08	3.17E-08	1.76E-09	6.14E-04	1.99E-03	
2996	361300	3801200	2.66E-08	3.08E-08	1.71E-09	5.97E-04	1.63E-03	
2997	361400	3801200	2.60E-08	3.02E-08	1.68E-09	5.85E-04	1.62E-03	
2998	358200	3801300	6.08E-08	7.04E-08	3.92E-09	1.37E-03	1.80E-03	
2999	358300	3801300	6.31E-08	7.31E-08	4.06E-09	1.42E-03	1.95E-03	
3000	358400	3801300	6.59E-08	7.63E-08	4.24E-09	1.48E-03	2.10E-03	
3001	358500	3801300	6.92E-08	8.02E-08	4.46E-09	1.55E-03	2.23E-03	
3002	358600	3801300	7.33E-08	8.49E-08	4.72E-09	1.65E-03	2.34E-03	
3003	358700	3801300	7.82E-08	9.07E-08	5.04E-09	1.76E-03	2.41E-03	
3004	358800	3801300	8.43E-08	9.77E-08	5.43E-09	1.89E-03	2.41E-03	
3005	358900	3801300	9.16E-08	1.06E-07	5.90E-09	2.06E-03	2.34E-03	
3006	359000	3801300	1.00E-07	1.16E-07	6.47E-09	2.26E-03	2.16E-03	
3007	359100	3801300	1.11E-07	1.28E-07	7.13E-09	2.49E-03	2.12E-03	Residential
3008	359200	3801300	1.22E-07	1.42E-07	7.87E-09	2.74E-03	2.28E-03	Nonresidential
3009	359300	3801300	1.34E-07	1.56E-07	8.66E-09	3.02E-03	2.49E-03	Nonresidential
3010	359400	3801300	1.47E-07	1.70E-07	9.44E-09	3.29E-03	2.78E-03	Nonresidential
3011	359500	3801300	1.57E-07	1.82E-07	1.01E-08	3.53E-03	3.04E-03	Nonresidential
3012	359600	3801300	1.65E-07	1.91E-07	1.06E-08	3.70E-03	3.19E-03	Nonresidential
3013	359700	3801300	1.67E-07	1.94E-07	1.08E-08	3.75E-03	3.45E-03	Nonresidential
3014	359800	3801300	1.63E-07	1.89E-07	1.05E-08	3.66E-03	3.73E-03	Nonresidential
3015	359900	3801300	1.52E-07	1.76E-07	9.78E-09	3.41E-03	3.87E-03	Nonresidential
3016	360000	3801300	1.41E-07	1.63E-07	9.08E-09	3.17E-03	4.03E-03	Nonresidential
3017	360100	3801300	1.23E-07	1.43E-07	7.94E-09	2.77E-03	4.18E-03	Nonresidential
3018	360200	3801300	9.61E-08	1.11E-07	6.19E-09	2.16E-03	4.04E-03	Nonresidential
3019	360300	3801300	7.53E-08	8.73E-08	4.85E-09	1.69E-03	3.99E-03	Nonresidential
3020	360400	3801300	5.84E-08	6.76E-08	3.76E-09	1.31E-03	2.92E-03	Nonresidential
3021	360500	3801300	4.79E-08	5.55E-08	3.09E-09	1.08E-03	2.75E-03	Nonresidential
3022	360600	3801300	4.11E-08	4.76E-08	2.64E-09	9.22E-04	2.72E-03	Nonresidential
3023	360700	3801300	3.61E-08	4.18E-08	2.32E-09	8.10E-04	2.57E-03	Nonresidential
3024	360800	3801300	3.26E-08	3.78E-08	2.10E-09	7.33E-04	3.16E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3025	360900	3801300	3.03E-08	3.51E-08	1.95E-09	6.81E-04	3.39E-03	Nonresidential
3026	361000	3801300	2.87E-08	3.32E-08	1.85E-09	6.44E-04	3.20E-03	Nonresidential
3027	361100	3801300	2.74E-08	3.18E-08	1.77E-09	6.16E-04	2.74E-03	Nonresidential
3028	361200	3801300	2.65E-08	3.07E-08	1.71E-09	5.95E-04	2.18E-03	
3029	361300	3801300	2.57E-08	2.98E-08	1.66E-09	5.78E-04	1.74E-03	
3030	358300	3801400	6.56E-08	7.60E-08	4.22E-09	1.47E-03	1.91E-03	
3031	358400	3801400	6.86E-08	7.95E-08	4.42E-09	1.54E-03	2.01E-03	
3032	358500	3801400	7.21E-08	8.36E-08	4.65E-09	1.62E-03	2.07E-03	
3033	358600	3801400	7.64E-08	8.85E-08	4.92E-09	1.72E-03	2.10E-03	
3034	358700	3801400	8.15E-08	9.44E-08	5.25E-09	1.83E-03	2.08E-03	
3035	358800	3801400	8.76E-08	1.01E-07	5.64E-09	1.97E-03	1.99E-03	
3036	358900	3801400	9.47E-08	1.10E-07	6.10E-09	2.13E-03	1.83E-03	
3037	359000	3801400	1.03E-07	1.19E-07	6.63E-09	2.31E-03	1.84E-03	
3038	359100	3801400	1.12E-07	1.30E-07	7.21E-09	2.52E-03	1.98E-03	Nonresidential
3039	359200	3801400	1.22E-07	1.41E-07	7.83E-09	2.73E-03	2.13E-03	Nonresidential
3040	359300	3801400	1.31E-07	1.52E-07	8.45E-09	2.95E-03	2.36E-03	Nonresidential
3041	359400	3801400	1.40E-07	1.62E-07	9.01E-09	3.14E-03	2.51E-03	Nonresidential
3042	359500	3801400	1.46E-07	1.70E-07	9.43E-09	3.29E-03	2.73E-03	Nonresidential
3043	359600	3801400	1.50E-07	1.73E-07	9.64E-09	3.36E-03	2.86E-03	Nonresidential
3044	359700	3801400	1.49E-07	1.72E-07	9.57E-09	3.34E-03	3.23E-03	Nonresidential
3045	359800	3801400	1.43E-07	1.66E-07	9.22E-09	3.22E-03	3.41E-03	Nonresidential
3046	359900	3801400	1.35E-07	1.56E-07	8.69E-09	3.03E-03	3.58E-03	Nonresidential
3047	360000	3801400	1.23E-07	1.43E-07	7.94E-09	2.77E-03	3.44E-03	Nonresidential
3048	360100	3801400	1.06E-07	1.23E-07	6.85E-09	2.39E-03	3.64E-03	Nonresidential
3049	360200	3801400	8.31E-08	9.63E-08	5.35E-09	1.87E-03	3.41E-03	Nonresidential
3050	360300	3801400	6.72E-08	7.79E-08	4.33E-09	1.51E-03	3.44E-03	Nonresidential
3051	360400	3801400	5.49E-08	6.36E-08	3.54E-09	1.23E-03	2.82E-03	Nonresidential
3052	360500	3801400	4.56E-08	5.28E-08	2.94E-09	1.02E-03	2.37E-03	
3053	360600	3801400	3.91E-08	4.54E-08	2.52E-09	8.80E-04	2.39E-03	
3054	360700	3801400	3.47E-08	4.02E-08	2.24E-09	7.80E-04	2.33E-03	
3055	360800	3801400	3.17E-08	3.67E-08	2.04E-09	7.11E-04	2.70E-03	Nonresidential
3056	360900	3801400	2.95E-08	3.42E-08	1.90E-09	6.63E-04	3.13E-03	Nonresidential
3057	361000	3801400	2.79E-08	3.23E-08	1.80E-09	6.27E-04	3.19E-03	Nonresidential
3058	361100	3801400	2.67E-08	3.10E-08	1.72E-09	6.00E-04	2.94E-03	Nonresidential
3059	361200	3801400	2.58E-08	2.99E-08	1.66E-09	5.79E-04	2.52E-03	
3060	358400	3801500	7.09E-08	8.22E-08	4.57E-09	1.59E-03	1.84E-03	
3061	358500	3801500	7.46E-08	8.65E-08	4.81E-09	1.68E-03	1.84E-03	
3062	358600	3801500	7.89E-08	9.15E-08	5.08E-09	1.77E-03	1.80E-03	
3063	358700	3801500	8.40E-08	9.73E-08	5.41E-09	1.89E-03	1.72E-03	
3064	358800	3801500	8.98E-08	1.04E-07	5.79E-09	2.02E-03	1.60E-03	
3065	358900	3801500	9.65E-08	1.12E-07	6.21E-09	2.17E-03	1.63E-03	
3066	359000	3801500	1.04E-07	1.20E-07	6.68E-09	2.33E-03	1.76E-03	
3067	359100	3801500	1.11E-07	1.29E-07	7.18E-09	2.50E-03	1.88E-03	Nonresidential
3068	359200	3801500	1.19E-07	1.38E-07	7.68E-09	2.68E-03	2.02E-03	Nonresidential
3069	359300	3801500	1.26E-07	1.46E-07	8.13E-09	2.84E-03	2.15E-03	Nonresidential
3070	359400	3801500	1.32E-07	1.53E-07	8.49E-09	2.96E-03	2.35E-03	Nonresidential
3071	359500	3801500	1.35E-07	1.57E-07	8.72E-09	3.04E-03	2.45E-03	Nonresidential
3072	359600	3801500	1.36E-07	1.57E-07	8.75E-09	3.05E-03	2.83E-03	Nonresidential
3073	359700	3801500	1.33E-07	1.54E-07	8.56E-09	2.99E-03	2.96E-03	Nonresidential
3074	359800	3801500	1.27E-07	1.47E-07	8.17E-09	2.85E-03	3.07E-03	Nonresidential
3075	359900	3801500	1.16E-07	1.35E-07	7.48E-09	2.61E-03	3.04E-03	Nonresidential
3076	360000	3801500	1.03E-07	1.20E-07	6.66E-09	2.32E-03	3.04E-03	Nonresidential
3077	360100	3801500	8.92E-08	1.03E-07	5.75E-09	2.00E-03	3.04E-03	Nonresidential
3078	360200	3801500	7.50E-08	8.69E-08	4.83E-09	1.69E-03	3.13E-03	Nonresidential

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3079	360300	3801500	6.22E-08	7.20E-08	4.00E-09	1.40E-03	3.25E-03	Nonresidential
3080	360400	3801500	5.16E-08	5.99E-08	3.33E-09	1.16E-03	2.82E-03	Nonresidential
3081	360500	3801500	4.37E-08	5.06E-08	2.81E-09	9.81E-04	2.19E-03	
3082	360600	3801500	3.79E-08	4.39E-08	2.44E-09	8.52E-04	2.13E-03	
3083	360700	3801500	3.38E-08	3.92E-08	2.18E-09	7.60E-04	2.10E-03	
3084	360800	3801500	3.09E-08	3.58E-08	1.99E-09	6.95E-04	2.23E-03	
3085	360900	3801500	2.88E-08	3.34E-08	1.86E-09	6.48E-04	2.75E-03	Nonresidential
3086	361000	3801500	2.73E-08	3.16E-08	1.76E-09	6.13E-04	2.99E-03	Nonresidential
3087	358600	3801600	8.09E-08	9.37E-08	5.21E-09	1.82E-03	1.49E-03	
3088	358700	3801600	8.57E-08	9.93E-08	5.52E-09	1.93E-03	1.42E-03	
3089	358800	3801600	9.11E-08	1.06E-07	5.87E-09	2.05E-03	1.47E-03	
3090	358900	3801600	9.70E-08	1.12E-07	6.25E-09	2.18E-03	1.57E-03	
3091	359000	3801600	1.03E-07	1.20E-07	6.65E-09	2.32E-03	1.67E-03	
3092	359100	3801600	1.09E-07	1.27E-07	7.05E-09	2.46E-03	1.79E-03	
3093	359200	3801600	1.15E-07	1.34E-07	7.43E-09	2.59E-03	1.88E-03	Nonresidential
3094	359300	3801600	1.20E-07	1.39E-07	7.74E-09	2.70E-03	2.02E-03	Nonresidential
3095	359400	3801600	1.23E-07	1.43E-07	7.96E-09	2.77E-03	2.20E-03	Nonresidential
3096	359500	3801600	1.25E-07	1.45E-07	8.04E-09	2.80E-03	2.34E-03	Nonresidential
3097	359600	3801600	1.24E-07	1.43E-07	7.96E-09	2.78E-03	2.64E-03	Nonresidential
3098	359700	3801600	1.20E-07	1.39E-07	7.70E-09	2.69E-03	2.74E-03	Nonresidential
3099	359800	3801600	1.13E-07	1.31E-07	7.29E-09	2.54E-03	2.83E-03	Nonresidential
3100	359900	3801600	1.04E-07	1.21E-07	6.70E-09	2.34E-03	2.67E-03	Nonresidential
3101	360000	3801600	9.27E-08	1.07E-07	5.97E-09	2.08E-03	2.71E-03	Nonresidential
3102	360100	3801600	8.08E-08	9.36E-08	5.20E-09	1.82E-03	2.72E-03	Nonresidential
3103	360200	3801600	6.89E-08	7.99E-08	4.44E-09	1.55E-03	3.00E-03	Nonresidential
3104	360300	3801600	5.82E-08	6.74E-08	3.75E-09	1.31E-03	3.12E-03	Nonresidential
3105	360400	3801600	4.92E-08	5.70E-08	3.17E-09	1.10E-03	2.79E-03	Nonresidential
3106	360500	3801600	4.21E-08	4.88E-08	2.72E-09	9.47E-04	2.24E-03	
3107	360600	3801600	3.69E-08	4.28E-08	2.38E-09	8.30E-04	1.91E-03	
3108	360700	3801600	3.31E-08	3.84E-08	2.13E-09	7.44E-04	1.86E-03	
3109	360800	3801600	3.03E-08	3.51E-08	1.95E-09	6.81E-04	1.86E-03	
3110	360750	3793250	3.01E-08	3.49E-08	1.94E-09	6.77E-04	6.19E-04	
3111	361000	3793250	3.04E-08	3.52E-08	1.96E-09	6.82E-04	6.18E-04	
3112	361250	3793250	3.01E-08	3.48E-08	1.94E-09	6.75E-04	6.10E-04	
3113	361500	3793250	2.93E-08	3.40E-08	1.89E-09	6.58E-04	6.08E-04	
3114	361750	3793250	2.82E-08	3.27E-08	1.82E-09	6.35E-04	6.01E-04	
3115	362000	3793250	2.70E-08	3.13E-08	1.74E-09	6.07E-04	5.93E-04	
3116	359500	3793500	2.26E-08	2.61E-08	1.45E-09	5.07E-04	6.62E-04	
3117	359750	3793500	2.49E-08	2.88E-08	1.60E-09	5.59E-04	6.70E-04	
3118	360000	3793500	2.71E-08	3.14E-08	1.74E-09	6.08E-04	6.72E-04	
3119	360250	3793500	2.89E-08	3.35E-08	1.86E-09	6.50E-04	6.61E-04	
3120	360500	3793500	3.03E-08	3.52E-08	1.95E-09	6.82E-04	6.49E-04	
3121	360750	3793500	3.12E-08	3.61E-08	2.01E-09	7.00E-04	6.48E-04	
3122	361000	3793500	3.14E-08	3.64E-08	2.02E-09	7.05E-04	6.45E-04	
3123	361250	3793500	3.10E-08	3.59E-08	2.00E-09	6.96E-04	6.39E-04	
3124	361500	3793500	3.01E-08	3.49E-08	1.94E-09	6.77E-04	6.38E-04	
3125	361750	3793500	2.89E-08	3.35E-08	1.86E-09	6.50E-04	6.25E-04	
3126	362000	3793500	2.76E-08	3.20E-08	1.78E-09	6.20E-04	6.16E-04	
3127	362250	3793500	2.62E-08	3.03E-08	1.69E-09	5.88E-04	6.09E-04	
3128	362500	3793500	2.48E-08	2.87E-08	1.60E-09	5.57E-04	5.91E-04	
3129	362750	3793500	2.35E-08	2.73E-08	1.52E-09	5.29E-04	5.79E-04	
3130	363000	3793500	2.24E-08	2.59E-08	1.44E-09	5.03E-04	5.77E-04	
3131	363250	3793500	2.14E-08	2.48E-08	1.38E-09	4.80E-04	5.67E-04	
3132	359000	3793750	1.85E-08	2.15E-08	1.19E-09	4.16E-04	6.85E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3133	359250	3793750	2.07E-08	2.40E-08	1.33E-09	4.65E-04	6.75E-04	
3134	359500	3793750	2.31E-08	2.68E-08	1.49E-09	5.19E-04	6.91E-04	
3135	359750	3793750	2.56E-08	2.96E-08	1.65E-09	5.75E-04	7.02E-04	
3136	360000	3793750	2.79E-08	3.24E-08	1.80E-09	6.27E-04	7.04E-04	
3137	360250	3793750	2.99E-08	3.47E-08	1.93E-09	6.73E-04	6.91E-04	
3138	360500	3793750	3.14E-08	3.64E-08	2.02E-09	7.06E-04	6.81E-04	
3139	360750	3793750	3.23E-08	3.74E-08	2.08E-09	7.25E-04	6.80E-04	
3140	361000	3793750	3.24E-08	3.76E-08	2.09E-09	7.29E-04	6.75E-04	
3141	361250	3793750	3.20E-08	3.70E-08	2.06E-09	7.18E-04	6.70E-04	
3142	361500	3793750	3.10E-08	3.59E-08	2.00E-09	6.96E-04	6.69E-04	
3143	361750	3793750	2.97E-08	3.44E-08	1.91E-09	6.66E-04	6.53E-04	
3144	362000	3793750	2.81E-08	3.26E-08	1.81E-09	6.32E-04	6.38E-04	
3145	362250	3793750	2.66E-08	3.09E-08	1.72E-09	5.99E-04	6.36E-04	
3146	362500	3793750	2.52E-08	2.92E-08	1.62E-09	5.66E-04	6.12E-04	
3147	362750	3793750	2.39E-08	2.77E-08	1.54E-09	5.36E-04	5.98E-04	
3148	363000	3793750	2.27E-08	2.63E-08	1.46E-09	5.10E-04	5.92E-04	
3149	363250	3793750	2.16E-08	2.51E-08	1.39E-09	4.86E-04	5.86E-04	
3150	363500	3793750	2.07E-08	2.40E-08	1.33E-09	4.65E-04	5.72E-04	
3151	363750	3793750	1.99E-08	2.31E-08	1.28E-09	4.47E-04	5.67E-04	
3152	364000	3793750	1.92E-08	2.22E-08	1.24E-09	4.31E-04	5.59E-04	
3153	358500	3794000	1.53E-08	1.78E-08	9.88E-10	3.45E-04	7.09E-04	
3154	358750	3794000	1.69E-08	1.96E-08	1.09E-09	3.80E-04	6.88E-04	
3155	359000	3794000	1.88E-08	2.18E-08	1.21E-09	4.23E-04	7.15E-04	
3156	359250	3794000	2.11E-08	2.45E-08	1.36E-09	4.74E-04	7.11E-04	
3157	359500	3794000	2.37E-08	2.74E-08	1.52E-09	5.32E-04	7.22E-04	
3158	359750	3794000	2.63E-08	3.05E-08	1.70E-09	5.91E-04	7.37E-04	
3159	360000	3794000	2.88E-08	3.34E-08	1.86E-09	6.48E-04	7.39E-04	
3160	360250	3794000	3.10E-08	3.59E-08	2.00E-09	6.96E-04	7.24E-04	
3161	360500	3794000	3.26E-08	3.77E-08	2.10E-09	7.32E-04	7.16E-04	
3162	360750	3794000	3.34E-08	3.87E-08	2.15E-09	7.51E-04	7.14E-04	
3163	361000	3794000	3.35E-08	3.89E-08	2.16E-09	7.53E-04	7.07E-04	
3164	361250	3794000	3.30E-08	3.82E-08	2.12E-09	7.41E-04	7.02E-04	
3165	361500	3794000	3.18E-08	3.69E-08	2.05E-09	7.15E-04	6.99E-04	
3166	361750	3794000	3.03E-08	3.52E-08	1.96E-09	6.82E-04	6.84E-04	
3167	362000	3794000	2.87E-08	3.33E-08	1.85E-09	6.45E-04	6.63E-04	
3168	362250	3794000	2.71E-08	3.14E-08	1.75E-09	6.09E-04	6.60E-04	
3169	362500	3794000	2.56E-08	2.96E-08	1.65E-09	5.75E-04	6.37E-04	
3170	362750	3794000	2.42E-08	2.80E-08	1.56E-09	5.44E-04	6.17E-04	
3171	363000	3794000	2.30E-08	2.66E-08	1.48E-09	5.16E-04	6.16E-04	
3172	363250	3794000	2.19E-08	2.54E-08	1.41E-09	4.93E-04	6.08E-04	
3173	363500	3794000	2.10E-08	2.43E-08	1.35E-09	4.72E-04	5.90E-04	
3174	363750	3794000	2.02E-08	2.34E-08	1.30E-09	4.54E-04	5.75E-04	
3175	364000	3794000	1.95E-08	2.26E-08	1.25E-09	4.38E-04	5.67E-04	
3176	364250	3794000	1.89E-08	2.19E-08	1.22E-09	4.24E-04	5.26E-04	
3177	358250	3794250	1.42E-08	1.65E-08	9.17E-10	3.20E-04	7.22E-04	
3178	358500	3794250	1.55E-08	1.80E-08	9.99E-10	3.49E-04	7.38E-04	
3179	358750	3794250	1.71E-08	1.98E-08	1.10E-09	3.85E-04	7.32E-04	
3180	359000	3794250	1.91E-08	2.22E-08	1.23E-09	4.30E-04	7.44E-04	
3181	359250	3794250	2.15E-08	2.49E-08	1.39E-09	4.84E-04	7.54E-04	
3182	359500	3794250	2.42E-08	2.81E-08	1.56E-09	5.44E-04	7.57E-04	
3183	359750	3794250	2.71E-08	3.14E-08	1.74E-09	6.08E-04	7.74E-04	
3184	360000	3794250	2.98E-08	3.45E-08	1.92E-09	6.69E-04	7.76E-04	
3185	360250	3794250	3.21E-08	3.72E-08	2.07E-09	7.21E-04	7.62E-04	
3186	360500	3794250	3.37E-08	3.91E-08	2.17E-09	7.58E-04	7.54E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3187	360750	3794250	3.46E-08	4.01E-08	2.23E-09	7.78E-04	7.51E-04	
3188	361000	3794250	3.47E-08	4.02E-08	2.24E-09	7.80E-04	7.46E-04	
3189	361250	3794250	3.40E-08	3.94E-08	2.19E-09	7.64E-04	7.39E-04	
3190	361500	3794250	3.27E-08	3.79E-08	2.11E-09	7.35E-04	7.28E-04	
3191	361750	3794250	3.10E-08	3.60E-08	2.00E-09	6.97E-04	7.15E-04	
3192	362000	3794250	2.93E-08	3.39E-08	1.89E-09	6.58E-04	6.99E-04	
3193	362250	3794250	2.75E-08	3.19E-08	1.77E-09	6.19E-04	6.88E-04	
3194	362500	3794250	2.59E-08	3.00E-08	1.67E-09	5.83E-04	6.57E-04	
3195	362750	3794250	2.45E-08	2.84E-08	1.58E-09	5.51E-04	6.42E-04	
3196	363000	3794250	2.33E-08	2.70E-08	1.50E-09	5.23E-04	6.45E-04	
3197	363250	3794250	2.22E-08	2.57E-08	1.43E-09	4.99E-04	6.22E-04	
3198	363500	3794250	2.13E-08	2.47E-08	1.37E-09	4.78E-04	6.17E-04	
3199	363750	3794250	2.05E-08	2.37E-08	1.32E-09	4.60E-04	5.91E-04	
3200	364000	3794250	1.98E-08	2.30E-08	1.28E-09	4.45E-04	5.61E-04	
3201	364250	3794250	1.92E-08	2.23E-08	1.24E-09	4.32E-04	5.02E-04	
3202	364500	3794250	1.88E-08	2.18E-08	1.21E-09	4.22E-04	4.79E-04	
3203	364750	3794250	1.84E-08	2.13E-08	1.19E-09	4.14E-04	4.74E-04	
3204	357500	3794500	1.16E-08	1.34E-08	7.47E-10	2.60E-04	7.12E-04	
3205	357750	3794500	1.24E-08	1.44E-08	7.98E-10	2.78E-04	7.20E-04	
3206	358000	3794500	1.33E-08	1.54E-08	8.56E-10	2.99E-04	7.49E-04	
3207	358250	3794500	1.44E-08	1.67E-08	9.26E-10	3.23E-04	7.62E-04	
3208	358500	3794500	1.57E-08	1.82E-08	1.01E-09	3.52E-04	7.67E-04	
3209	358750	3794500	1.73E-08	2.01E-08	1.12E-09	3.89E-04	7.81E-04	
3210	359000	3794500	1.94E-08	2.25E-08	1.25E-09	4.36E-04	7.72E-04	
3211	359250	3794500	2.19E-08	2.54E-08	1.41E-09	4.93E-04	7.98E-04	
3212	359500	3794500	2.48E-08	2.87E-08	1.60E-09	5.57E-04	7.95E-04	
3213	359750	3794500	2.79E-08	3.23E-08	1.79E-09	6.26E-04	8.16E-04	
3214	360000	3794500	3.08E-08	3.56E-08	1.98E-09	6.91E-04	8.17E-04	
3215	360250	3794500	3.32E-08	3.85E-08	2.14E-09	7.47E-04	8.02E-04	
3216	360500	3794500	3.50E-08	4.06E-08	2.25E-09	7.86E-04	7.95E-04	
3217	360750	3794500	3.59E-08	4.16E-08	2.31E-09	8.07E-04	7.92E-04	
3218	361000	3794500	3.59E-08	4.16E-08	2.31E-09	8.06E-04	7.88E-04	
3219	361250	3794500	3.50E-08	4.06E-08	2.26E-09	7.87E-04	7.79E-04	
3220	361500	3794500	3.36E-08	3.89E-08	2.16E-09	7.54E-04	7.68E-04	
3221	361750	3794500	3.17E-08	3.68E-08	2.04E-09	7.13E-04	7.45E-04	
3222	362000	3794500	2.98E-08	3.45E-08	1.92E-09	6.69E-04	7.35E-04	
3223	362250	3794500	2.79E-08	3.24E-08	1.80E-09	6.28E-04	7.18E-04	
3224	362500	3794500	2.63E-08	3.05E-08	1.69E-09	5.91E-04	6.81E-04	
3225	362750	3794500	2.48E-08	2.88E-08	1.60E-09	5.58E-04	6.78E-04	
3226	363000	3794500	2.36E-08	2.73E-08	1.52E-09	5.30E-04	6.72E-04	
3227	363250	3794500	2.25E-08	2.61E-08	1.45E-09	5.06E-04	6.58E-04	
3228	363500	3794500	2.16E-08	2.50E-08	1.39E-09	4.85E-04	6.35E-04	
3229	363750	3794500	2.08E-08	2.41E-08	1.34E-09	4.68E-04	6.02E-04	
3230	364000	3794500	2.02E-08	2.34E-08	1.30E-09	4.53E-04	5.50E-04	
3231	364250	3794500	1.96E-08	2.28E-08	1.27E-09	4.41E-04	4.92E-04	
3232	364500	3794500	1.92E-08	2.23E-08	1.24E-09	4.32E-04	4.89E-04	
3233	364750	3794500	1.89E-08	2.19E-08	1.22E-09	4.24E-04	4.83E-04	
3234	365000	3794500	1.86E-08	2.15E-08	1.20E-09	4.18E-04	4.77E-04	
3235	357000	3794750	1.04E-08	1.20E-08	6.67E-10	2.33E-04	7.10E-04	
3236	357250	3794750	1.10E-08	1.27E-08	7.06E-10	2.46E-04	7.38E-04	
3237	357500	3794750	1.17E-08	1.35E-08	7.51E-10	2.62E-04	7.50E-04	
3238	357750	3794750	1.25E-08	1.45E-08	8.04E-10	2.80E-04	7.62E-04	
3239	358000	3794750	1.34E-08	1.55E-08	8.63E-10	3.01E-04	7.87E-04	
3240	358250	3794750	1.45E-08	1.68E-08	9.34E-10	3.26E-04	8.00E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3241	358500	3794750	1.58E-08	1.84E-08	1.02E-09	3.56E-04	8.06E-04	
3242	358750	3794750	1.75E-08	2.03E-08	1.13E-09	3.94E-04	8.30E-04	
3243	359000	3794750	1.97E-08	2.28E-08	1.27E-09	4.42E-04	8.19E-04	
3244	359250	3794750	2.23E-08	2.59E-08	1.44E-09	5.01E-04	8.45E-04	
3245	359500	3794750	2.54E-08	2.94E-08	1.64E-09	5.70E-04	8.46E-04	
3246	359750	3794750	2.87E-08	3.32E-08	1.85E-09	6.44E-04	8.61E-04	
3247	360000	3794750	3.18E-08	3.68E-08	2.05E-09	7.14E-04	8.64E-04	
3248	360250	3794750	3.44E-08	3.99E-08	2.22E-09	7.74E-04	8.48E-04	
3249	360500	3794750	3.63E-08	4.21E-08	2.34E-09	8.16E-04	8.41E-04	
3250	360750	3794750	3.72E-08	4.31E-08	2.40E-09	8.36E-04	8.37E-04	
3251	361000	3794750	3.71E-08	4.30E-08	2.39E-09	8.34E-04	8.34E-04	
3252	361250	3794750	3.61E-08	4.19E-08	2.33E-09	8.12E-04	8.21E-04	
3253	361500	3794750	3.44E-08	3.99E-08	2.22E-09	7.74E-04	8.14E-04	
3254	361750	3794750	3.24E-08	3.75E-08	2.09E-09	7.28E-04	7.80E-04	
3255	362000	3794750	3.03E-08	3.51E-08	1.95E-09	6.81E-04	7.80E-04	
3256	362250	3794750	2.83E-08	3.28E-08	1.83E-09	6.37E-04	7.48E-04	
3257	362500	3794750	2.66E-08	3.08E-08	1.71E-09	5.98E-04	7.20E-04	
3258	362750	3794750	2.51E-08	2.91E-08	1.62E-09	5.65E-04	7.14E-04	
3259	363000	3794750	2.39E-08	2.77E-08	1.54E-09	5.37E-04	6.94E-04	
3260	363250	3794750	2.28E-08	2.64E-08	1.47E-09	5.13E-04	6.90E-04	
3261	363500	3794750	2.19E-08	2.54E-08	1.41E-09	4.92E-04	6.43E-04	
3262	363750	3794750	2.12E-08	2.45E-08	1.36E-09	4.76E-04	6.00E-04	
3263	364000	3794750	2.06E-08	2.38E-08	1.33E-09	4.62E-04	5.26E-04	
3264	364250	3794750	2.01E-08	2.33E-08	1.29E-09	4.52E-04	5.03E-04	
3265	364500	3794750	1.97E-08	2.28E-08	1.27E-09	4.43E-04	4.95E-04	
3266	364750	3794750	1.94E-08	2.25E-08	1.25E-09	4.36E-04	4.92E-04	
3267	365000	3794750	1.91E-08	2.22E-08	1.23E-09	4.30E-04	4.81E-04	
3268	365250	3794750	1.89E-08	2.19E-08	1.22E-09	4.25E-04	4.74E-04	
3269	356750	3795000	9.90E-09	1.15E-08	6.38E-10	2.22E-04	6.96E-04	
3270	357000	3795000	1.04E-08	1.21E-08	6.71E-10	2.34E-04	7.16E-04	
3271	357250	3795000	1.10E-08	1.28E-08	7.10E-10	2.48E-04	7.64E-04	
3272	357500	3795000	1.17E-08	1.36E-08	7.55E-10	2.63E-04	7.79E-04	
3273	357750	3795000	1.25E-08	1.45E-08	8.08E-10	2.82E-04	7.94E-04	
3274	358000	3795000	1.35E-08	1.56E-08	8.70E-10	3.03E-04	8.14E-04	
3275	358250	3795000	1.46E-08	1.69E-08	9.42E-10	3.29E-04	8.42E-04	
3276	358500	3795000	1.60E-08	1.85E-08	1.03E-09	3.59E-04	8.60E-04	
3277	358750	3795000	1.77E-08	2.05E-08	1.14E-09	3.98E-04	8.77E-04	
3278	359000	3795000	1.99E-08	2.31E-08	1.28E-09	4.48E-04	8.76E-04	
3279	359250	3795000	2.27E-08	2.63E-08	1.46E-09	5.10E-04	8.92E-04	
3280	359500	3795000	2.60E-08	3.01E-08	1.67E-09	5.84E-04	9.04E-04	
3281	359750	3795000	2.95E-08	3.42E-08	1.90E-09	6.62E-04	9.09E-04	
3282	360000	3795000	3.29E-08	3.81E-08	2.12E-09	7.38E-04	9.16E-04	
3283	360250	3795000	3.57E-08	4.14E-08	2.30E-09	8.02E-04	9.00E-04	
3284	360500	3795000	3.77E-08	4.37E-08	2.43E-09	8.46E-04	8.92E-04	
3285	360750	3795000	3.86E-08	4.47E-08	2.49E-09	8.67E-04	8.85E-04	
3286	361000	3795000	3.84E-08	4.45E-08	2.47E-09	8.63E-04	8.82E-04	
3287	361250	3795000	3.72E-08	4.31E-08	2.40E-09	8.36E-04	8.69E-04	
3288	361500	3795000	3.53E-08	4.09E-08	2.27E-09	7.93E-04	8.59E-04	
3289	361750	3795000	3.30E-08	3.82E-08	2.13E-09	7.42E-04	8.20E-04	
3290	362000	3795000	3.07E-08	3.56E-08	1.98E-09	6.91E-04	8.25E-04	
3291	362250	3795000	2.87E-08	3.33E-08	1.85E-09	6.45E-04	7.74E-04	
3292	362500	3795000	2.69E-08	3.12E-08	1.73E-09	6.05E-04	7.55E-04	
3293	362750	3795000	2.54E-08	2.95E-08	1.64E-09	5.72E-04	7.48E-04	
3294	363000	3795000	2.42E-08	2.80E-08	1.56E-09	5.43E-04	7.41E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3295	363250	3795000	2.31E-08	2.68E-08	1.49E-09	5.20E-04	7.08E-04	
3296	363500	3795000	2.23E-08	2.58E-08	1.43E-09	5.01E-04	6.52E-04	
3297	363750	3795000	2.16E-08	2.50E-08	1.39E-09	4.85E-04	5.82E-04	
3298	364000	3795000	2.10E-08	2.44E-08	1.36E-09	4.73E-04	5.16E-04	
3299	364250	3795000	2.06E-08	2.39E-08	1.33E-09	4.63E-04	5.08E-04	
3300	364500	3795000	2.03E-08	2.35E-08	1.31E-09	4.55E-04	5.05E-04	
3301	364750	3795000	2.00E-08	2.31E-08	1.29E-09	4.49E-04	4.94E-04	
3302	365000	3795000	1.97E-08	2.29E-08	1.27E-09	4.43E-04	4.88E-04	
3303	365250	3795000	1.95E-08	2.26E-08	1.26E-09	4.38E-04	4.85E-04	
3304	365500	3795000	1.93E-08	2.23E-08	1.24E-09	4.33E-04	4.75E-04	
3305	356250	3795250	9.19E-09	1.07E-08	5.92E-10	2.07E-04	6.69E-04	
3306	356500	3795250	9.55E-09	1.11E-08	6.15E-10	2.15E-04	6.59E-04	
3307	356750	3795250	9.98E-09	1.16E-08	6.43E-10	2.24E-04	7.00E-04	
3308	357000	3795250	1.05E-08	1.21E-08	6.75E-10	2.35E-04	7.51E-04	
3309	357250	3795250	1.11E-08	1.28E-08	7.13E-10	2.49E-04	7.85E-04	
3310	357500	3795250	1.18E-08	1.37E-08	7.59E-10	2.65E-04	8.24E-04	
3311	357750	3795250	1.26E-08	1.46E-08	8.13E-10	2.84E-04	8.37E-04	
3312	358000	3795250	1.36E-08	1.57E-08	8.75E-10	3.05E-04	8.48E-04	
3313	358250	3795250	1.47E-08	1.71E-08	9.49E-10	3.31E-04	8.96E-04	
3314	358500	3795250	1.61E-08	1.87E-08	1.04E-09	3.62E-04	9.09E-04	
3315	358750	3795250	1.79E-08	2.07E-08	1.15E-09	4.02E-04	9.24E-04	
3316	359000	3795250	2.02E-08	2.34E-08	1.30E-09	4.53E-04	9.32E-04	
3317	359250	3795250	2.31E-08	2.67E-08	1.49E-09	5.18E-04	9.38E-04	
3318	359500	3795250	2.66E-08	3.08E-08	1.71E-09	5.97E-04	9.65E-04	
3319	359750	3795250	3.03E-08	3.52E-08	1.95E-09	6.82E-04	9.63E-04	
3320	360000	3795250	3.40E-08	3.94E-08	2.19E-09	7.63E-04	9.72E-04	
3321	360250	3795250	3.70E-08	4.29E-08	2.38E-09	8.32E-04	9.57E-04	
3322	360500	3795250	3.91E-08	4.53E-08	2.52E-09	8.79E-04	9.47E-04	
3323	360750	3795250	4.00E-08	4.64E-08	2.58E-09	9.00E-04	9.40E-04	
3324	361000	3795250	3.97E-08	4.60E-08	2.56E-09	8.93E-04	9.33E-04	
3325	361250	3795250	3.83E-08	4.44E-08	2.47E-09	8.61E-04	9.21E-04	
3326	361500	3795250	3.61E-08	4.18E-08	2.33E-09	8.11E-04	9.01E-04	
3327	361750	3795250	3.36E-08	3.89E-08	2.16E-09	7.55E-04	8.80E-04	
3328	362000	3795250	3.12E-08	3.61E-08	2.01E-09	7.00E-04	8.62E-04	
3329	362250	3795250	2.90E-08	3.36E-08	1.87E-09	6.52E-04	8.25E-04	
3330	362500	3795250	2.72E-08	3.16E-08	1.75E-09	6.12E-04	7.94E-04	
3331	362750	3795250	2.57E-08	2.98E-08	1.66E-09	5.78E-04	7.82E-04	
3332	363000	3795250	2.45E-08	2.84E-08	1.58E-09	5.50E-04	7.77E-04	
3333	363250	3795250	2.35E-08	2.72E-08	1.51E-09	5.28E-04	7.09E-04	
3334	363500	3795250	2.27E-08	2.63E-08	1.46E-09	5.10E-04	6.42E-04	
3335	363750	3795250	2.20E-08	2.56E-08	1.42E-09	4.95E-04	5.44E-04	
3336	364000	3795250	2.16E-08	2.50E-08	1.39E-09	4.84E-04	5.24E-04	
3337	364250	3795250	2.12E-08	2.45E-08	1.36E-09	4.76E-04	5.19E-04	
3338	364500	3795250	2.09E-08	2.42E-08	1.34E-09	4.69E-04	5.08E-04	
3339	364750	3795250	2.06E-08	2.38E-08	1.33E-09	4.62E-04	5.02E-04	
3340	365000	3795250	2.03E-08	2.36E-08	1.31E-09	4.57E-04	4.99E-04	
3341	365250	3795250	2.01E-08	2.33E-08	1.29E-09	4.52E-04	4.89E-04	
3342	365500	3795250	1.99E-08	2.30E-08	1.28E-09	4.47E-04	4.85E-04	
3343	365750	3795250	1.96E-08	2.28E-08	1.27E-09	4.41E-04	4.77E-04	
3344	356000	3795500	8.99E-09	1.04E-08	5.79E-10	2.02E-04	6.51E-04	
3345	356250	3795500	9.30E-09	1.08E-08	5.99E-10	2.09E-04	6.98E-04	
3346	356500	3795500	9.65E-09	1.12E-08	6.22E-10	2.17E-04	7.08E-04	
3347	356750	3795500	1.01E-08	1.17E-08	6.48E-10	2.26E-04	7.01E-04	
3348	357000	3795500	1.05E-08	1.22E-08	6.79E-10	2.37E-04	7.70E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3349	357250	3795500	1.11E-08	1.29E-08	7.17E-10	2.50E-04	8.09E-04	
3350	357500	3795500	1.18E-08	1.37E-08	7.62E-10	2.66E-04	8.51E-04	
3351	357750	3795500	1.27E-08	1.47E-08	8.16E-10	2.85E-04	8.73E-04	
3352	358000	3795500	1.37E-08	1.58E-08	8.80E-10	3.07E-04	9.10E-04	
3353	358250	3795500	1.48E-08	1.72E-08	9.55E-10	3.33E-04	9.39E-04	
3354	358500	3795500	1.62E-08	1.88E-08	1.05E-09	3.65E-04	9.51E-04	
3355	358750	3795500	1.80E-08	2.09E-08	1.16E-09	4.05E-04	9.78E-04	
3356	359000	3795500	2.04E-08	2.36E-08	1.31E-09	4.58E-04	9.92E-04	
3357	359250	3795500	2.34E-08	2.72E-08	1.51E-09	5.27E-04	9.87E-04	
3358	359500	3795500	2.71E-08	3.14E-08	1.75E-09	6.10E-04	1.03E-03	
3359	359750	3795500	3.12E-08	3.62E-08	2.01E-09	7.01E-04	1.03E-03	
3360	360000	3795500	3.51E-08	4.07E-08	2.26E-09	7.89E-04	1.03E-03	
3361	360250	3795500	3.84E-08	4.45E-08	2.47E-09	8.63E-04	1.02E-03	
3362	360500	3795500	4.06E-08	4.71E-08	2.62E-09	9.12E-04	1.01E-03	
3363	360750	3795500	4.15E-08	4.81E-08	2.68E-09	9.33E-04	1.00E-03	
3364	361000	3795500	4.11E-08	4.76E-08	2.65E-09	9.23E-04	9.89E-04	
3365	361250	3795500	3.94E-08	4.57E-08	2.54E-09	8.85E-04	9.77E-04	
3366	361500	3795500	3.69E-08	4.28E-08	2.38E-09	8.29E-04	9.44E-04	
3367	361750	3795500	3.41E-08	3.95E-08	2.20E-09	7.66E-04	9.47E-04	
3368	362000	3795500	3.15E-08	3.65E-08	2.03E-09	7.09E-04	8.92E-04	
3369	362250	3795500	2.93E-08	3.40E-08	1.89E-09	6.59E-04	8.71E-04	
3370	362500	3795500	2.75E-08	3.19E-08	1.77E-09	6.18E-04	8.35E-04	
3371	362750	3795500	2.60E-08	3.02E-08	1.68E-09	5.85E-04	8.40E-04	
3372	363000	3795500	2.48E-08	2.88E-08	1.60E-09	5.58E-04	7.94E-04	
3373	363250	3795500	2.39E-08	2.77E-08	1.54E-09	5.36E-04	7.04E-04	
3374	363500	3795500	2.31E-08	2.68E-08	1.49E-09	5.20E-04	6.09E-04	
3375	363750	3795500	2.26E-08	2.62E-08	1.45E-09	5.07E-04	5.39E-04	
3376	364000	3795500	2.21E-08	2.57E-08	1.43E-09	4.98E-04	5.33E-04	
3377	364250	3795500	2.18E-08	2.53E-08	1.40E-09	4.90E-04	5.24E-04	
3378	364500	3795500	2.15E-08	2.49E-08	1.39E-09	4.83E-04	5.17E-04	
3379	364750	3795500	2.12E-08	2.46E-08	1.37E-09	4.77E-04	5.13E-04	
3380	365000	3795500	2.10E-08	2.43E-08	1.35E-09	4.72E-04	5.03E-04	
3381	365250	3795500	2.08E-08	2.41E-08	1.34E-09	4.66E-04	4.99E-04	
3382	365500	3795500	2.05E-08	2.38E-08	1.32E-09	4.61E-04	4.91E-04	
3383	365750	3795500	2.03E-08	2.35E-08	1.30E-09	4.55E-04	4.86E-04	
3384	366000	3795500	2.00E-08	2.32E-08	1.29E-09	4.49E-04	4.76E-04	
3385	355750	3795750	8.85E-09	1.03E-08	5.70E-10	1.99E-04	6.63E-04	
3386	356000	3795750	9.11E-09	1.06E-08	5.87E-10	2.05E-04	6.88E-04	
3387	356250	3795750	9.41E-09	1.09E-08	6.06E-10	2.11E-04	7.11E-04	
3388	356500	3795750	9.76E-09	1.13E-08	6.29E-10	2.19E-04	7.57E-04	
3389	356750	3795750	1.02E-08	1.18E-08	6.54E-10	2.28E-04	7.55E-04	
3390	357000	3795750	1.06E-08	1.23E-08	6.85E-10	2.39E-04	7.64E-04	
3391	357250	3795750	1.12E-08	1.30E-08	7.21E-10	2.52E-04	8.47E-04	
3392	357500	3795750	1.19E-08	1.38E-08	7.65E-10	2.67E-04	8.77E-04	
3393	357750	3795750	1.27E-08	1.47E-08	8.19E-10	2.86E-04	9.26E-04	
3394	358000	3795750	1.37E-08	1.59E-08	8.83E-10	3.08E-04	9.65E-04	
3395	358250	3795750	1.49E-08	1.73E-08	9.60E-10	3.35E-04	9.66E-04	
3396	358500	3795750	1.64E-08	1.90E-08	1.05E-09	3.67E-04	1.02E-03	
3397	358750	3795750	1.82E-08	2.11E-08	1.17E-09	4.09E-04	1.04E-03	
3398	359000	3795750	2.06E-08	2.39E-08	1.33E-09	4.63E-04	1.07E-03	
3399	359250	3795750	2.38E-08	2.75E-08	1.53E-09	5.34E-04	1.07E-03	
3400	359500	3795750	2.77E-08	3.21E-08	1.78E-09	6.22E-04	1.10E-03	
3401	359750	3795750	3.21E-08	3.72E-08	2.07E-09	7.20E-04	1.10E-03	
3402	360000	3795750	3.63E-08	4.21E-08	2.34E-09	8.16E-04	1.10E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3403	360250	3795750	3.98E-08	4.61E-08	2.57E-09	8.95E-04	1.09E-03	
3404	360500	3795750	4.22E-08	4.89E-08	2.72E-09	9.47E-04	1.08E-03	
3405	360750	3795750	4.31E-08	4.99E-08	2.77E-09	9.68E-04	1.08E-03	
3406	361000	3795750	4.25E-08	4.92E-08	2.74E-09	9.54E-04	1.05E-03	
3407	361250	3795750	4.05E-08	4.69E-08	2.61E-09	9.10E-04	1.04E-03	
3408	361500	3795750	3.76E-08	4.36E-08	2.42E-09	8.45E-04	1.00E-03	
3409	361750	3795750	3.46E-08	4.01E-08	2.23E-09	7.77E-04	1.01E-03	
3410	362000	3795750	3.18E-08	3.69E-08	2.05E-09	7.15E-04	9.50E-04	
3411	362250	3795750	2.96E-08	3.43E-08	1.91E-09	6.65E-04	9.19E-04	
3412	362500	3795750	2.78E-08	3.22E-08	1.79E-09	6.24E-04	8.91E-04	
3413	362750	3795750	2.63E-08	3.05E-08	1.70E-09	5.91E-04	8.81E-04	
3414	363000	3795750	2.52E-08	2.92E-08	1.62E-09	5.66E-04	7.86E-04	
3415	363250	3795750	2.43E-08	2.82E-08	1.57E-09	5.47E-04	6.80E-04	
3416	363500	3795750	2.37E-08	2.74E-08	1.52E-09	5.32E-04	5.61E-04	
3417	363750	3795750	2.32E-08	2.69E-08	1.49E-09	5.21E-04	5.45E-04	
3418	364000	3795750	2.28E-08	2.64E-08	1.47E-09	5.12E-04	5.39E-04	
3419	364250	3795750	2.25E-08	2.61E-08	1.45E-09	5.05E-04	5.32E-04	
3420	364500	3795750	2.22E-08	2.57E-08	1.43E-09	4.99E-04	5.27E-04	
3421	364750	3795750	2.20E-08	2.54E-08	1.41E-09	4.93E-04	5.18E-04	
3422	365000	3795750	2.17E-08	2.51E-08	1.40E-09	4.88E-04	5.13E-04	
3423	365250	3795750	2.14E-08	2.49E-08	1.38E-09	4.82E-04	5.06E-04	
3424	365500	3795750	2.12E-08	2.45E-08	1.36E-09	4.76E-04	5.00E-04	
3425	365750	3795750	2.09E-08	2.42E-08	1.35E-09	4.70E-04	4.90E-04	
3426	366000	3795750	2.06E-08	2.39E-08	1.33E-09	4.64E-04	4.84E-04	
3427	355500	3796000	8.77E-09	1.02E-08	5.65E-10	1.97E-04	6.38E-04	
3428	355750	3796000	9.00E-09	1.04E-08	5.80E-10	2.02E-04	6.44E-04	
3429	356000	3796000	9.24E-09	1.07E-08	5.96E-10	2.08E-04	7.05E-04	
3430	356250	3796000	9.54E-09	1.11E-08	6.15E-10	2.14E-04	7.29E-04	
3431	356500	3796000	9.87E-09	1.14E-08	6.36E-10	2.22E-04	7.79E-04	
3432	356750	3796000	1.03E-08	1.19E-08	6.61E-10	2.31E-04	8.22E-04	
3433	357000	3796000	1.07E-08	1.24E-08	6.90E-10	2.41E-04	8.05E-04	
3434	357250	3796000	1.13E-08	1.31E-08	7.26E-10	2.53E-04	8.57E-04	
3435	357500	3796000	1.19E-08	1.38E-08	7.69E-10	2.68E-04	9.25E-04	
3436	357750	3796000	1.27E-08	1.48E-08	8.21E-10	2.86E-04	9.51E-04	
3437	358000	3796000	1.37E-08	1.59E-08	8.85E-10	3.09E-04	9.94E-04	
3438	358250	3796000	1.50E-08	1.73E-08	9.64E-10	3.36E-04	1.05E-03	
3439	358500	3796000	1.65E-08	1.91E-08	1.06E-09	3.70E-04	1.09E-03	
3440	358750	3796000	1.83E-08	2.12E-08	1.18E-09	4.11E-04	1.11E-03	
3441	359000	3796000	2.08E-08	2.41E-08	1.34E-09	4.67E-04	1.14E-03	
3442	359250	3796000	2.41E-08	2.79E-08	1.55E-09	5.41E-04	1.16E-03	
3443	359500	3796000	2.83E-08	3.27E-08	1.82E-09	6.35E-04	1.17E-03	
3444	359750	3796000	3.29E-08	3.82E-08	2.12E-09	7.40E-04	1.18E-03	
3445	360000	3796000	3.75E-08	4.35E-08	2.42E-09	8.43E-04	1.18E-03	
3446	360250	3796000	4.13E-08	4.79E-08	2.66E-09	9.28E-04	1.17E-03	
3447	360500	3796000	4.37E-08	5.07E-08	2.82E-09	9.83E-04	1.16E-03	
3448	360750	3796000	4.46E-08	5.17E-08	2.88E-09	1.00E-03	1.15E-03	
3449	361000	3796000	4.38E-08	5.08E-08	2.82E-09	9.85E-04	1.13E-03	
3450	361250	3796000	4.15E-08	4.81E-08	2.67E-09	9.33E-04	1.11E-03	
3451	361500	3796000	3.83E-08	4.44E-08	2.47E-09	8.60E-04	1.08E-03	
3452	361750	3796000	3.49E-08	4.05E-08	2.25E-09	7.85E-04	1.06E-03	
3453	362000	3796000	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.02E-03	
3454	362250	3796000	2.98E-08	3.45E-08	1.92E-09	6.70E-04	9.50E-04	
3455	362500	3796000	2.80E-08	3.25E-08	1.80E-09	6.30E-04	9.62E-04	
3456	362750	3796000	2.66E-08	3.09E-08	1.72E-09	5.98E-04	8.94E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3457	363000	3796000	2.56E-08	2.97E-08	1.65E-09	5.75E-04	7.55E-04	
3458	363250	3796000	2.48E-08	2.88E-08	1.60E-09	5.58E-04	6.26E-04	
3459	363500	3796000	2.43E-08	2.81E-08	1.56E-09	5.45E-04	5.80E-04	
3460	363750	3796000	2.38E-08	2.76E-08	1.54E-09	5.36E-04	5.59E-04	
3461	364000	3796000	2.35E-08	2.73E-08	1.52E-09	5.28E-04	5.46E-04	
3462	364250	3796000	2.32E-08	2.69E-08	1.50E-09	5.22E-04	5.40E-04	
3463	364500	3796000	2.30E-08	2.66E-08	1.48E-09	5.16E-04	5.32E-04	
3464	364750	3796000	2.27E-08	2.63E-08	1.46E-09	5.10E-04	5.27E-04	
3465	365000	3796000	2.24E-08	2.60E-08	1.44E-09	5.04E-04	5.21E-04	
3466	365250	3796000	2.21E-08	2.57E-08	1.43E-09	4.98E-04	5.14E-04	
3467	365500	3796000	2.19E-08	2.53E-08	1.41E-09	4.91E-04	5.06E-04	
3468	365750	3796000	2.16E-08	2.50E-08	1.39E-09	4.85E-04	4.97E-04	
3469	366000	3796000	2.12E-08	2.46E-08	1.37E-09	4.77E-04	4.87E-04	
3470	366250	3796000	2.09E-08	2.43E-08	1.35E-09	4.70E-04	4.80E-04	
3471	355500	3796250	8.94E-09	1.04E-08	5.76E-10	2.01E-04	6.53E-04	
3472	355750	3796250	9.16E-09	1.06E-08	5.90E-10	2.06E-04	6.74E-04	
3473	356000	3796250	9.40E-09	1.09E-08	6.06E-10	2.11E-04	6.83E-04	
3474	356250	3796250	9.68E-09	1.12E-08	6.23E-10	2.17E-04	7.50E-04	
3475	356500	3796250	1.00E-08	1.16E-08	6.44E-10	2.25E-04	7.73E-04	
3476	356750	3796250	1.04E-08	1.20E-08	6.68E-10	2.33E-04	8.56E-04	
3477	357000	3796250	1.08E-08	1.25E-08	6.96E-10	2.43E-04	8.94E-04	
3478	357250	3796250	1.13E-08	1.31E-08	7.30E-10	2.55E-04	8.54E-04	
3479	357500	3796250	1.20E-08	1.39E-08	7.72E-10	2.69E-04	9.59E-04	
3480	357750	3796250	1.28E-08	1.48E-08	8.23E-10	2.87E-04	1.01E-03	
3481	358000	3796250	1.38E-08	1.60E-08	8.87E-10	3.09E-04	1.05E-03	
3482	358250	3796250	1.50E-08	1.74E-08	9.66E-10	3.37E-04	1.13E-03	
3483	358500	3796250	1.65E-08	1.91E-08	1.06E-09	3.71E-04	1.13E-03	
3484	358750	3796250	1.84E-08	2.13E-08	1.19E-09	4.14E-04	1.19E-03	
3485	359000	3796250	2.09E-08	2.43E-08	1.35E-09	4.70E-04	1.22E-03	
3486	359250	3796250	2.44E-08	2.82E-08	1.57E-09	5.48E-04	1.25E-03	
3487	359500	3796250	2.88E-08	3.33E-08	1.85E-09	6.46E-04	1.24E-03	
3488	359750	3796250	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.27E-03	
3489	360000	3796250	3.88E-08	4.49E-08	2.50E-09	8.71E-04	1.28E-03	
3490	360250	3796250	4.28E-08	4.96E-08	2.76E-09	9.63E-04	1.25E-03	
3491	360500	3796250	4.54E-08	5.26E-08	2.92E-09	1.02E-03	1.25E-03	
3492	360750	3796250	4.62E-08	5.36E-08	2.98E-09	1.04E-03	1.24E-03	
3493	361000	3796250	4.52E-08	5.24E-08	2.91E-09	1.02E-03	1.22E-03	
3494	361250	3796250	4.25E-08	4.92E-08	2.74E-09	9.55E-04	1.17E-03	
3495	361500	3796250	3.88E-08	4.50E-08	2.50E-09	8.72E-04	1.18E-03	
3496	361750	3796250	3.52E-08	4.08E-08	2.27E-09	7.91E-04	1.11E-03	
3497	362000	3796250	3.22E-08	3.74E-08	2.08E-09	7.25E-04	1.08E-03	
3498	362250	3796250	3.00E-08	3.47E-08	1.93E-09	6.73E-04	1.02E-03	
3499	362500	3796250	2.83E-08	3.27E-08	1.82E-09	6.35E-04	1.01E-03	
3500	362750	3796250	2.70E-08	3.13E-08	1.74E-09	6.06E-04	8.72E-04	
3501	363000	3796250	2.61E-08	3.02E-08	1.68E-09	5.86E-04	7.08E-04	
3502	363250	3796250	2.54E-08	2.95E-08	1.64E-09	5.71E-04	6.28E-04	
3503	363500	3796250	2.50E-08	2.89E-08	1.61E-09	5.61E-04	6.07E-04	
3504	363750	3796250	2.46E-08	2.85E-08	1.59E-09	5.53E-04	5.82E-04	
3505	364000	3796250	2.43E-08	2.82E-08	1.57E-09	5.46E-04	5.59E-04	
3506	364250	3796250	2.40E-08	2.78E-08	1.55E-09	5.40E-04	5.52E-04	
3507	364500	3796250	2.38E-08	2.75E-08	1.53E-09	5.34E-04	5.40E-04	
3508	364750	3796250	2.35E-08	2.72E-08	1.51E-09	5.27E-04	5.35E-04	
3509	365000	3796250	2.32E-08	2.69E-08	1.49E-09	5.21E-04	5.27E-04	
3510	365250	3796250	2.29E-08	2.65E-08	1.47E-09	5.14E-04	5.21E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3511	365500	3796250	2.26E-08	2.61E-08	1.45E-09	5.07E-04	5.10E-04	
3512	365750	3796250	2.22E-08	2.58E-08	1.43E-09	4.99E-04	5.01E-04	
3513	366000	3796250	2.19E-08	2.54E-08	1.41E-09	4.92E-04	4.94E-04	
3514	366250	3796250	2.15E-08	2.50E-08	1.39E-09	4.84E-04	4.85E-04	
3515	355250	3796500	8.94E-09	1.04E-08	5.76E-10	2.01E-04	6.39E-04	
3516	355500	3796500	9.14E-09	1.06E-08	5.89E-10	2.05E-04	6.42E-04	
3517	355750	3796500	9.35E-09	1.08E-08	6.03E-10	2.10E-04	6.85E-04	
3518	356000	3796500	9.58E-09	1.11E-08	6.17E-10	2.15E-04	7.11E-04	
3519	356250	3796500	9.85E-09	1.14E-08	6.35E-10	2.21E-04	7.25E-04	
3520	356500	3796500	1.01E-08	1.18E-08	6.54E-10	2.28E-04	8.00E-04	
3521	356750	3796500	1.05E-08	1.22E-08	6.77E-10	2.36E-04	8.44E-04	
3522	357000	3796500	1.09E-08	1.27E-08	7.04E-10	2.45E-04	9.44E-04	
3523	357250	3796500	1.14E-08	1.32E-08	7.36E-10	2.57E-04	9.71E-04	
3524	357500	3796500	1.20E-08	1.40E-08	7.76E-10	2.71E-04	9.45E-04	
3525	357750	3796500	1.28E-08	1.48E-08	8.25E-10	2.88E-04	1.07E-03	
3526	358000	3796500	1.38E-08	1.60E-08	8.88E-10	3.10E-04	1.10E-03	
3527	358250	3796500	1.50E-08	1.74E-08	9.67E-10	3.37E-04	1.17E-03	
3528	358500	3796500	1.65E-08	1.92E-08	1.07E-09	3.72E-04	1.24E-03	
3529	358750	3796500	1.85E-08	2.14E-08	1.19E-09	4.15E-04	1.28E-03	
3530	359000	3796500	2.11E-08	2.44E-08	1.36E-09	4.73E-04	1.32E-03	
3531	359250	3796500	2.46E-08	2.85E-08	1.59E-09	5.53E-04	1.35E-03	
3532	359500	3796500	2.93E-08	3.39E-08	1.89E-09	6.58E-04	1.34E-03	
3533	359750	3796500	3.46E-08	4.01E-08	2.23E-09	7.78E-04	1.38E-03	
3534	360000	3796500	4.00E-08	4.63E-08	2.58E-09	8.98E-04	1.39E-03	
3535	360250	3796500	4.44E-08	5.15E-08	2.86E-09	9.98E-04	1.36E-03	
3536	360500	3796500	4.71E-08	5.45E-08	3.03E-09	1.06E-03	1.35E-03	
3537	360750	3796500	4.78E-08	5.54E-08	3.08E-09	1.07E-03	1.34E-03	
3538	361000	3796500	4.66E-08	5.40E-08	3.00E-09	1.05E-03	1.31E-03	
3539	361250	3796500	4.34E-08	5.03E-08	2.79E-09	9.75E-04	1.25E-03	
3540	361500	3796500	3.92E-08	4.54E-08	2.52E-09	8.80E-04	1.26E-03	
3541	361750	3796500	3.53E-08	4.09E-08	2.28E-09	7.94E-04	1.20E-03	
3542	362000	3796500	3.23E-08	3.75E-08	2.08E-09	7.26E-04	1.13E-03	
3543	362250	3796500	3.01E-08	3.49E-08	1.94E-09	6.77E-04	1.11E-03	
3544	362500	3796500	2.85E-08	3.30E-08	1.84E-09	6.41E-04	1.01E-03	
3545	362750	3796500	2.74E-08	3.18E-08	1.77E-09	6.16E-04	8.06E-04	
3546	363000	3796500	2.66E-08	3.09E-08	1.72E-09	5.98E-04	6.95E-04	
3547	363250	3796500	2.61E-08	3.03E-08	1.68E-09	5.87E-04	6.61E-04	
3548	363500	3796500	2.57E-08	2.98E-08	1.66E-09	5.78E-04	6.39E-04	
3549	363750	3796500	2.54E-08	2.95E-08	1.64E-09	5.71E-04	6.03E-04	
3550	364000	3796500	2.52E-08	2.91E-08	1.62E-09	5.65E-04	5.97E-04	
3551	364250	3796500	2.49E-08	2.88E-08	1.60E-09	5.59E-04	5.70E-04	
3552	364500	3796500	2.46E-08	2.85E-08	1.58E-09	5.52E-04	5.49E-04	
3553	364750	3796500	2.43E-08	2.81E-08	1.56E-09	5.46E-04	5.39E-04	
3554	365000	3796500	2.40E-08	2.78E-08	1.54E-09	5.38E-04	5.34E-04	
3555	365250	3796500	2.36E-08	2.74E-08	1.52E-09	5.31E-04	5.23E-04	
3556	365500	3796500	2.33E-08	2.70E-08	1.50E-09	5.23E-04	5.17E-04	
3557	365750	3796500	2.29E-08	2.66E-08	1.48E-09	5.15E-04	5.09E-04	
3558	366000	3796500	2.25E-08	2.61E-08	1.45E-09	5.06E-04	4.99E-04	
3559	366250	3796500	2.21E-08	2.57E-08	1.43E-09	4.98E-04	4.92E-04	
3560	366500	3796500	2.18E-08	2.52E-08	1.40E-09	4.89E-04	4.84E-04	
3561	355000	3796750	8.94E-09	1.04E-08	5.76E-10	2.01E-04	5.91E-04	
3562	355250	3796750	9.14E-09	1.06E-08	5.89E-10	2.05E-04	6.25E-04	
3563	355500	3796750	9.35E-09	1.08E-08	6.02E-10	2.10E-04	6.64E-04	
3564	355750	3796750	9.56E-09	1.11E-08	6.16E-10	2.15E-04	6.74E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3565	356000	3796750	9.79E-09	1.13E-08	6.30E-10	2.20E-04	7.16E-04	
3566	356250	3796750	1.00E-08	1.16E-08	6.47E-10	2.26E-04	7.60E-04	
3567	356500	3796750	1.03E-08	1.20E-08	6.65E-10	2.32E-04	7.70E-04	
3568	356750	3796750	1.07E-08	1.24E-08	6.87E-10	2.40E-04	8.53E-04	
3569	357000	3796750	1.11E-08	1.28E-08	7.12E-10	2.48E-04	9.39E-04	
3570	357250	3796750	1.15E-08	1.34E-08	7.43E-10	2.59E-04	1.09E-03	
3571	357500	3796750	1.21E-08	1.41E-08	7.81E-10	2.72E-04	1.08E-03	
3572	357750	3796750	1.28E-08	1.49E-08	8.28E-10	2.89E-04	1.08E-03	
3573	358000	3796750	1.38E-08	1.60E-08	8.88E-10	3.10E-04	1.19E-03	
3574	358250	3796750	1.50E-08	1.74E-08	9.65E-10	3.37E-04	1.18E-03	
3575	358500	3796750	1.65E-08	1.92E-08	1.07E-09	3.72E-04	1.34E-03	
3576	358750	3796750	1.85E-08	2.15E-08	1.19E-09	4.16E-04	1.34E-03	
3577	359000	3796750	2.11E-08	2.45E-08	1.36E-09	4.75E-04	1.42E-03	
3578	359250	3796750	2.48E-08	2.88E-08	1.60E-09	5.58E-04	1.45E-03	
3579	359500	3796750	2.98E-08	3.45E-08	1.92E-09	6.69E-04	1.48E-03	
3580	359750	3796750	3.54E-08	4.11E-08	2.28E-09	7.97E-04	1.51E-03	
3581	360000	3796750	4.12E-08	4.77E-08	2.65E-09	9.26E-04	1.52E-03	
3582	360250	3796750	4.60E-08	5.33E-08	2.96E-09	1.03E-03	1.48E-03	
3583	360500	3796750	4.88E-08	5.65E-08	3.14E-09	1.10E-03	1.47E-03	
3584	360750	3796750	4.94E-08	5.73E-08	3.18E-09	1.11E-03	1.46E-03	
3585	361000	3796750	4.79E-08	5.56E-08	3.09E-09	1.08E-03	1.43E-03	
3586	361250	3796750	4.41E-08	5.12E-08	2.84E-09	9.92E-04	1.37E-03	
3587	361500	3796750	3.94E-08	4.56E-08	2.54E-09	8.85E-04	1.34E-03	
3588	361750	3796750	3.53E-08	4.09E-08	2.27E-09	7.93E-04	1.29E-03	
3589	362000	3796750	3.23E-08	3.74E-08	2.08E-09	7.26E-04	1.19E-03	
3590	362250	3796750	3.02E-08	3.50E-08	1.95E-09	6.80E-04	1.16E-03	
3591	362500	3796750	2.88E-08	3.34E-08	1.86E-09	6.48E-04	9.61E-04	
3592	362750	3796750	2.79E-08	3.23E-08	1.80E-09	6.27E-04	7.72E-04	
3593	363000	3796750	2.73E-08	3.16E-08	1.76E-09	6.13E-04	7.22E-04	
3594	363250	3796750	2.69E-08	3.12E-08	1.73E-09	6.04E-04	7.04E-04	
3595	363500	3796750	2.66E-08	3.08E-08	1.71E-09	5.97E-04	6.58E-04	
3596	363750	3796750	2.63E-08	3.05E-08	1.69E-09	5.91E-04	6.48E-04	
3597	364000	3796750	2.60E-08	3.02E-08	1.68E-09	5.85E-04	6.17E-04	
3598	364250	3796750	2.57E-08	2.98E-08	1.66E-09	5.78E-04	5.91E-04	
3599	364500	3796750	2.54E-08	2.95E-08	1.64E-09	5.71E-04	5.58E-04	
3600	364750	3796750	2.51E-08	2.91E-08	1.62E-09	5.64E-04	5.46E-04	
3601	365000	3796750	2.48E-08	2.87E-08	1.59E-09	5.56E-04	5.36E-04	
3602	365250	3796750	2.44E-08	2.82E-08	1.57E-09	5.48E-04	5.30E-04	
3603	365500	3796750	2.40E-08	2.78E-08	1.54E-09	5.39E-04	5.21E-04	
3604	365750	3796750	2.36E-08	2.73E-08	1.52E-09	5.30E-04	5.13E-04	
3605	366000	3796750	2.32E-08	2.68E-08	1.49E-09	5.20E-04	5.07E-04	
3606	366250	3796750	2.27E-08	2.63E-08	1.46E-09	5.11E-04	4.95E-04	
3607	366500	3796750	2.23E-08	2.58E-08	1.44E-09	5.01E-04	4.93E-04	
3608	355000	3797000	9.16E-09	1.06E-08	5.90E-10	2.06E-04	6.01E-04	
3609	355250	3797000	9.37E-09	1.09E-08	6.03E-10	2.10E-04	6.04E-04	
3610	355500	3797000	9.58E-09	1.11E-08	6.17E-10	2.15E-04	6.81E-04	
3611	355750	3797000	9.80E-09	1.14E-08	6.31E-10	2.20E-04	7.49E-04	
3612	356000	3797000	1.00E-08	1.16E-08	6.46E-10	2.25E-04	7.77E-04	
3613	356250	3797000	1.03E-08	1.19E-08	6.62E-10	2.31E-04	8.17E-04	
3614	356500	3797000	1.05E-08	1.22E-08	6.79E-10	2.37E-04	7.91E-04	
3615	356750	3797000	1.09E-08	1.26E-08	6.99E-10	2.44E-04	8.18E-04	
3616	357000	3797000	1.12E-08	1.30E-08	7.23E-10	2.52E-04	9.10E-04	
3617	357250	3797000	1.17E-08	1.35E-08	7.51E-10	2.62E-04	1.07E-03	
3618	357500	3797000	1.22E-08	1.41E-08	7.86E-10	2.74E-04	1.18E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3619	357750	3797000	1.29E-08	1.50E-08	8.31E-10	2.90E-04	1.15E-03	
3620	358000	3797000	1.38E-08	1.60E-08	8.88E-10	3.10E-04	1.23E-03	
3621	358250	3797000	1.49E-08	1.73E-08	9.62E-10	3.36E-04	1.36E-03	
3622	358500	3797000	1.65E-08	1.91E-08	1.06E-09	3.70E-04	1.40E-03	
3623	358750	3797000	1.85E-08	2.14E-08	1.19E-09	4.16E-04	1.46E-03	
3624	359000	3797000	2.12E-08	2.46E-08	1.36E-09	4.76E-04	1.54E-03	
3625	359250	3797000	2.50E-08	2.90E-08	1.61E-09	5.63E-04	1.57E-03	
3626	359500	3797000	3.02E-08	3.50E-08	1.95E-09	6.79E-04	1.62E-03	
3627	359750	3797000	3.62E-08	4.20E-08	2.33E-09	8.14E-04	1.66E-03	
3628	360000	3797000	4.24E-08	4.91E-08	2.73E-09	9.52E-04	1.67E-03	
3629	360250	3797000	4.76E-08	5.52E-08	3.07E-09	1.07E-03	1.62E-03	
3630	360500	3797000	5.06E-08	5.86E-08	3.26E-09	1.14E-03	1.61E-03	
3631	360750	3797000	5.10E-08	5.91E-08	3.28E-09	1.15E-03	1.58E-03	
3632	361000	3797000	4.93E-08	5.71E-08	3.17E-09	1.11E-03	1.55E-03	
3633	361250	3797000	4.48E-08	5.19E-08	2.89E-09	1.01E-03	1.49E-03	
3634	361500	3797000	3.93E-08	4.56E-08	2.53E-09	8.84E-04	1.44E-03	
3635	361750	3797000	3.51E-08	4.06E-08	2.26E-09	7.88E-04	1.37E-03	
3636	362000	3797000	3.22E-08	3.73E-08	2.08E-09	7.24E-04	1.29E-03	
3637	362250	3797000	3.04E-08	3.52E-08	1.96E-09	6.83E-04	1.14E-03	
3638	362500	3797000	2.92E-08	3.39E-08	1.88E-09	6.57E-04	8.66E-04	
3639	362750	3797000	2.85E-08	3.30E-08	1.84E-09	6.41E-04	8.06E-04	
3640	363000	3797000	2.81E-08	3.25E-08	1.81E-09	6.31E-04	7.79E-04	
3641	363250	3797000	2.77E-08	3.22E-08	1.79E-09	6.23E-04	7.28E-04	
3642	363500	3797000	2.75E-08	3.19E-08	1.77E-09	6.18E-04	7.05E-04	
3643	363750	3797000	2.72E-08	3.16E-08	1.75E-09	6.12E-04	6.69E-04	
3644	364000	3797000	2.69E-08	3.12E-08	1.74E-09	6.06E-04	6.38E-04	
3645	364250	3797000	2.66E-08	3.09E-08	1.72E-09	5.99E-04	5.97E-04	
3646	364500	3797000	2.63E-08	3.05E-08	1.69E-09	5.91E-04	5.60E-04	
3647	364750	3797000	2.59E-08	3.00E-08	1.67E-09	5.83E-04	5.51E-04	
3648	365000	3797000	2.55E-08	2.96E-08	1.65E-09	5.74E-04	5.44E-04	
3649	365250	3797000	2.51E-08	2.91E-08	1.62E-09	5.64E-04	5.34E-04	
3650	365500	3797000	2.47E-08	2.86E-08	1.59E-09	5.55E-04	5.28E-04	
3651	365750	3797000	2.42E-08	2.81E-08	1.56E-09	5.44E-04	5.18E-04	
3652	366000	3797000	2.38E-08	2.75E-08	1.53E-09	5.34E-04	5.13E-04	
3653	366250	3797000	2.33E-08	2.70E-08	1.50E-09	5.23E-04	5.11E-04	
3654	366500	3797000	2.28E-08	2.64E-08	1.47E-09	5.12E-04	5.07E-04	
3655	354750	3797250	9.19E-09	1.07E-08	5.92E-10	2.07E-04	5.82E-04	
3656	355000	3797250	9.40E-09	1.09E-08	6.05E-10	2.11E-04	6.01E-04	
3657	355250	3797250	9.62E-09	1.11E-08	6.19E-10	2.16E-04	6.34E-04	
3658	355500	3797250	9.83E-09	1.14E-08	6.33E-10	2.21E-04	6.50E-04	
3659	355750	3797250	1.01E-08	1.17E-08	6.48E-10	2.26E-04	7.24E-04	
3660	356000	3797250	1.03E-08	1.19E-08	6.63E-10	2.31E-04	8.32E-04	
3661	356250	3797250	1.05E-08	1.22E-08	6.79E-10	2.37E-04	7.79E-04	
3662	356500	3797250	1.08E-08	1.25E-08	6.96E-10	2.43E-04	8.08E-04	
3663	356750	3797250	1.11E-08	1.29E-08	7.15E-10	2.49E-04	9.06E-04	
3664	357000	3797250	1.14E-08	1.32E-08	7.36E-10	2.57E-04	8.69E-04	
3665	357250	3797250	1.18E-08	1.37E-08	7.63E-10	2.66E-04	9.74E-04	
3666	357500	3797250	1.23E-08	1.43E-08	7.95E-10	2.77E-04	1.19E-03	
3667	357750	3797250	1.30E-08	1.50E-08	8.36E-10	2.91E-04	1.29E-03	
3668	358000	3797250	1.38E-08	1.60E-08	8.89E-10	3.10E-04	1.21E-03	
3669	358250	3797250	1.49E-08	1.73E-08	9.59E-10	3.35E-04	1.43E-03	
3670	358500	3797250	1.64E-08	1.90E-08	1.06E-09	3.68E-04	1.43E-03	
3671	358750	3797250	1.84E-08	2.14E-08	1.19E-09	4.15E-04	1.62E-03	
3672	359000	3797250	2.12E-08	2.46E-08	1.37E-09	4.77E-04	1.64E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3673	359250	3797250	2.52E-08	2.92E-08	1.62E-09	5.67E-04	1.73E-03	
3674	359500	3797250	3.07E-08	3.56E-08	1.98E-09	6.91E-04	1.80E-03	
3675	359750	3797250	3.70E-08	4.29E-08	2.38E-09	8.31E-04	1.87E-03	
3676	360000	3797250	4.34E-08	5.03E-08	2.80E-09	9.76E-04	1.84E-03	
3677	360250	3797250	4.93E-08	5.71E-08	3.17E-09	1.11E-03	1.79E-03	
3678	360500	3797250	5.24E-08	6.07E-08	3.38E-09	1.18E-03	1.77E-03	
3679	360750	3797250	5.26E-08	6.09E-08	3.39E-09	1.18E-03	1.71E-03	
3680	362250	3797250	3.06E-08	3.55E-08	1.97E-09	6.88E-04	1.04E-03	
3681	362500	3797250	2.97E-08	3.45E-08	1.92E-09	6.68E-04	9.10E-04	
3682	362750	3797250	2.92E-08	3.39E-08	1.88E-09	6.57E-04	8.65E-04	
3683	363000	3797250	2.89E-08	3.35E-08	1.86E-09	6.50E-04	8.12E-04	
3684	363250	3797250	2.87E-08	3.32E-08	1.85E-09	6.44E-04	7.69E-04	
3685	363500	3797250	2.84E-08	3.30E-08	1.83E-09	6.39E-04	7.28E-04	
3686	363750	3797250	2.82E-08	3.27E-08	1.82E-09	6.33E-04	6.89E-04	
3687	364000	3797250	2.79E-08	3.23E-08	1.80E-09	6.26E-04	6.40E-04	
3688	364250	3797250	2.75E-08	3.19E-08	1.77E-09	6.19E-04	6.18E-04	
3689	364500	3797250	2.72E-08	3.15E-08	1.75E-09	6.10E-04	5.92E-04	
3690	364750	3797250	2.68E-08	3.10E-08	1.72E-09	6.01E-04	5.56E-04	
3691	365000	3797250	2.63E-08	3.05E-08	1.69E-09	5.91E-04	5.49E-04	
3692	365250	3797250	2.58E-08	2.99E-08	1.66E-09	5.81E-04	5.41E-04	
3693	365500	3797250	2.54E-08	2.94E-08	1.63E-09	5.70E-04	5.31E-04	
3694	365750	3797250	2.48E-08	2.88E-08	1.60E-09	5.58E-04	5.32E-04	
3695	366000	3797250	2.43E-08	2.82E-08	1.57E-09	5.47E-04	5.29E-04	
3696	366250	3797250	2.38E-08	2.76E-08	1.53E-09	5.35E-04	5.18E-04	
3697	366500	3797250	2.33E-08	2.70E-08	1.50E-09	5.23E-04	5.09E-04	
3698	354750	3797500	9.48E-09	1.10E-08	6.11E-10	2.13E-04	5.80E-04	
3699	355000	3797500	9.68E-09	1.12E-08	6.24E-10	2.18E-04	6.04E-04	
3700	355250	3797500	9.90E-09	1.15E-08	6.38E-10	2.22E-04	6.17E-04	
3701	355500	3797500	1.01E-08	1.17E-08	6.52E-10	2.27E-04	7.44E-04	
3702	355750	3797500	1.04E-08	1.20E-08	6.67E-10	2.33E-04	8.47E-04	
3703	356000	3797500	1.06E-08	1.23E-08	6.83E-10	2.38E-04	7.50E-04	
3704	356250	3797500	1.08E-08	1.26E-08	6.99E-10	2.44E-04	8.92E-04	
3705	356500	3797500	1.11E-08	1.29E-08	7.16E-10	2.50E-04	9.77E-04	
3706	356750	3797500	1.14E-08	1.32E-08	7.33E-10	2.56E-04	9.50E-04	
3707	357000	3797500	1.17E-08	1.35E-08	7.53E-10	2.63E-04	8.70E-04	
3708	357250	3797500	1.21E-08	1.40E-08	7.77E-10	2.71E-04	9.20E-04	
3709	357500	3797500	1.25E-08	1.45E-08	8.06E-10	2.81E-04	1.09E-03	
3710	357750	3797500	1.31E-08	1.52E-08	8.43E-10	2.94E-04	1.34E-03	
3711	358000	3797500	1.38E-08	1.60E-08	8.92E-10	3.11E-04	1.42E-03	
3712	358250	3797500	1.49E-08	1.72E-08	9.58E-10	3.34E-04	1.40E-03	
3713	358500	3797500	1.63E-08	1.89E-08	1.05E-09	3.66E-04	1.62E-03	
3714	358750	3797500	1.87E-08	2.17E-08	1.21E-09	4.21E-04	1.68E-03	
3715	359000	3797500	2.19E-08	2.54E-08	1.41E-09	4.92E-04	1.75E-03	
3716	359250	3797500	2.66E-08	3.08E-08	1.71E-09	5.97E-04	1.87E-03	
3717	359500	3797500	3.20E-08	3.71E-08	2.06E-09	7.20E-04	1.97E-03	
3718	359750	3797500	3.77E-08	4.37E-08	2.43E-09	8.48E-04	2.06E-03	
3719	360000	3797500	4.44E-08	5.15E-08	2.86E-09	9.98E-04	2.05E-03	
3720	360250	3797500	5.09E-08	5.90E-08	3.28E-09	1.14E-03	1.99E-03	
3721	362500	3797500	3.04E-08	3.52E-08	1.96E-09	6.83E-04	9.63E-04	
3722	362750	3797500	3.01E-08	3.49E-08	1.94E-09	6.76E-04	9.11E-04	
3723	363000	3797500	2.99E-08	3.46E-08	1.92E-09	6.71E-04	8.42E-04	
3724	363250	3797500	2.96E-08	3.44E-08	1.91E-09	6.66E-04	7.95E-04	
3725	363500	3797500	2.94E-08	3.41E-08	1.89E-09	6.61E-04	7.45E-04	
3726	363750	3797500	2.91E-08	3.38E-08	1.88E-09	6.55E-04	7.01E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3727	364000	3797500	2.88E-08	3.34E-08	1.86E-09	6.47E-04	6.84E-04	
3728	364250	3797500	2.84E-08	3.30E-08	1.83E-09	6.39E-04	6.49E-04	
3729	364500	3797500	2.80E-08	3.25E-08	1.81E-09	6.30E-04	6.01E-04	
3730	364750	3797500	2.75E-08	3.19E-08	1.77E-09	6.19E-04	5.63E-04	
3731	365000	3797500	2.70E-08	3.13E-08	1.74E-09	6.08E-04	5.52E-04	
3732	365250	3797500	2.65E-08	3.07E-08	1.71E-09	5.96E-04	5.51E-04	
3733	365500	3797500	2.60E-08	3.01E-08	1.67E-09	5.84E-04	5.50E-04	
3734	365750	3797500	2.54E-08	2.95E-08	1.64E-09	5.71E-04	5.40E-04	
3735	366000	3797500	2.48E-08	2.88E-08	1.60E-09	5.58E-04	5.31E-04	
3736	366250	3797500	2.43E-08	2.81E-08	1.56E-09	5.45E-04	5.21E-04	
3737	366500	3797500	2.37E-08	2.75E-08	1.53E-09	5.32E-04	5.15E-04	
3738	366750	3797500	2.31E-08	2.68E-08	1.49E-09	5.19E-04	5.06E-04	
3739	354500	3797750	9.67E-09	1.12E-08	6.23E-10	2.17E-04	5.45E-04	
3740	354750	3797750	9.85E-09	1.14E-08	6.34E-10	2.21E-04	5.67E-04	
3741	355000	3797750	1.00E-08	1.16E-08	6.47E-10	2.26E-04	6.12E-04	
3742	355250	3797750	1.02E-08	1.19E-08	6.60E-10	2.30E-04	6.43E-04	
3743	355500	3797750	1.05E-08	1.21E-08	6.74E-10	2.35E-04	7.66E-04	
3744	355750	3797750	1.07E-08	1.24E-08	6.89E-10	2.40E-04	8.71E-04	
3745	356000	3797750	1.09E-08	1.27E-08	7.05E-10	2.46E-04	9.22E-04	
3746	356250	3797750	1.12E-08	1.30E-08	7.22E-10	2.52E-04	1.00E-03	
3747	356500	3797750	1.15E-08	1.33E-08	7.39E-10	2.58E-04	1.01E-03	
3748	356750	3797750	1.17E-08	1.36E-08	7.56E-10	2.64E-04	8.39E-04	
3749	357000	3797750	1.20E-08	1.40E-08	7.76E-10	2.71E-04	8.17E-04	
3750	357250	3797750	1.24E-08	1.43E-08	7.97E-10	2.78E-04	9.05E-04	
3751	357500	3797750	1.28E-08	1.48E-08	8.23E-10	2.87E-04	9.72E-04	
3752	357750	3797750	1.33E-08	1.54E-08	8.56E-10	2.98E-04	1.24E-03	
3753	358000	3797750	1.40E-08	1.62E-08	8.99E-10	3.14E-04	1.52E-03	
3754	358250	3797750	1.49E-08	1.73E-08	9.60E-10	3.35E-04	1.57E-03	
3755	358500	3797750	1.62E-08	1.88E-08	1.05E-09	3.65E-04	1.68E-03	
3756	358750	3797750	1.90E-08	2.20E-08	1.22E-09	4.26E-04	1.81E-03	
3757	359000	3797750	2.22E-08	2.57E-08	1.43E-09	4.98E-04	1.97E-03	
3758	359250	3797750	2.75E-08	3.19E-08	1.77E-09	6.19E-04	2.04E-03	
3759	359500	3797750	3.44E-08	3.98E-08	2.21E-09	7.72E-04	2.20E-03	
3760	359750	3797750	3.87E-08	4.48E-08	2.49E-09	8.69E-04	2.24E-03	
3761	360000	3797750	4.52E-08	5.24E-08	2.91E-09	1.02E-03	2.35E-03	
3762	362750	3797750	3.10E-08	3.59E-08	1.99E-09	6.96E-04	9.24E-04	
3763	363000	3797750	3.08E-08	3.57E-08	1.98E-09	6.92E-04	8.69E-04	
3764	363250	3797750	3.06E-08	3.55E-08	1.97E-09	6.88E-04	8.06E-04	
3765	363500	3797750	3.04E-08	3.52E-08	1.96E-09	6.83E-04	7.87E-04	
3766	363750	3797750	3.01E-08	3.49E-08	1.94E-09	6.76E-04	7.60E-04	
3767	364000	3797750	2.97E-08	3.45E-08	1.92E-09	6.68E-04	7.10E-04	
3768	364250	3797750	2.93E-08	3.40E-08	1.89E-09	6.59E-04	6.48E-04	
3769	364500	3797750	2.88E-08	3.34E-08	1.86E-09	6.48E-04	6.13E-04	
3770	364750	3797750	2.83E-08	3.28E-08	1.82E-09	6.36E-04	5.92E-04	
3771	365000	3797750	2.77E-08	3.21E-08	1.79E-09	6.23E-04	5.67E-04	
3772	365250	3797750	2.71E-08	3.15E-08	1.75E-09	6.10E-04	5.60E-04	
3773	365500	3797750	2.65E-08	3.08E-08	1.71E-09	5.96E-04	5.52E-04	
3774	365750	3797750	2.59E-08	3.00E-08	1.67E-09	5.82E-04	5.42E-04	
3775	366000	3797750	2.53E-08	2.93E-08	1.63E-09	5.68E-04	5.37E-04	
3776	366250	3797750	2.47E-08	2.86E-08	1.59E-09	5.54E-04	5.28E-04	
3777	366500	3797750	2.40E-08	2.78E-08	1.55E-09	5.40E-04	5.19E-04	
3778	366750	3797750	2.34E-08	2.71E-08	1.51E-09	5.26E-04	5.11E-04	
3779	354500	3798000	1.02E-08	1.18E-08	6.54E-10	2.28E-04	5.45E-04	
3780	354750	3798000	1.03E-08	1.20E-08	6.65E-10	2.32E-04	5.55E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3781	355000	3798000	1.05E-08	1.22E-08	6.76E-10	2.36E-04	6.05E-04	
3782	355250	3798000	1.07E-08	1.24E-08	6.89E-10	2.40E-04	6.79E-04	
3783	355500	3798000	1.09E-08	1.26E-08	7.02E-10	2.45E-04	7.34E-04	
3784	355750	3798000	1.11E-08	1.29E-08	7.17E-10	2.50E-04	7.77E-04	
3785	356000	3798000	1.14E-08	1.32E-08	7.32E-10	2.55E-04	9.18E-04	
3786	356250	3798000	1.16E-08	1.35E-08	7.49E-10	2.61E-04	1.01E-03	
3787	356500	3798000	1.19E-08	1.38E-08	7.66E-10	2.67E-04	1.03E-03	
3788	356750	3798000	1.22E-08	1.41E-08	7.84E-10	2.73E-04	8.50E-04	
3789	357000	3798000	1.25E-08	1.44E-08	8.03E-10	2.80E-04	8.69E-04	
3790	357250	3798000	1.28E-08	1.48E-08	8.23E-10	2.87E-04	8.51E-04	
3791	357500	3798000	1.31E-08	1.52E-08	8.46E-10	2.95E-04	9.33E-04	
3792	357750	3798000	1.36E-08	1.57E-08	8.75E-10	3.05E-04	1.02E-03	
3793	358000	3798000	1.42E-08	1.64E-08	9.13E-10	3.18E-04	1.42E-03	
3794	358250	3798000	1.50E-08	1.74E-08	9.67E-10	3.37E-04	1.74E-03	
3795	358500	3798000	1.62E-08	1.88E-08	1.05E-09	3.65E-04	1.91E-03	
3796	358750	3798000	1.87E-08	2.17E-08	1.21E-09	4.21E-04	2.02E-03	
3797	359000	3798000	2.29E-08	2.66E-08	1.48E-09	5.16E-04	2.05E-03	
3798	359250	3798000	2.79E-08	3.23E-08	1.80E-09	6.27E-04	2.14E-03	
3799	359500	3798000	3.39E-08	3.93E-08	2.18E-09	7.62E-04	2.48E-03	
3800	363000	3798000	3.17E-08	3.68E-08	2.04E-09	7.13E-04	8.91E-04	
3801	363250	3798000	3.16E-08	3.66E-08	2.04E-09	7.10E-04	8.88E-04	
3802	363500	3798000	3.13E-08	3.63E-08	2.02E-09	7.04E-04	8.45E-04	
3803	363750	3798000	3.10E-08	3.60E-08	2.00E-09	6.97E-04	7.76E-04	
3804	364000	3798000	3.06E-08	3.55E-08	1.97E-09	6.88E-04	6.95E-04	
3805	364250	3798000	3.01E-08	3.49E-08	1.94E-09	6.77E-04	6.63E-04	
3806	364500	3798000	2.96E-08	3.43E-08	1.91E-09	6.65E-04	6.30E-04	
3807	364750	3798000	2.90E-08	3.36E-08	1.87E-09	6.51E-04	5.88E-04	
3808	365000	3798000	2.83E-08	3.28E-08	1.83E-09	6.37E-04	5.71E-04	
3809	365250	3798000	2.77E-08	3.21E-08	1.78E-09	6.22E-04	5.62E-04	
3810	365500	3798000	2.70E-08	3.13E-08	1.74E-09	6.07E-04	5.58E-04	
3811	365750	3798000	2.63E-08	3.05E-08	1.70E-09	5.91E-04	5.49E-04	
3812	366000	3798000	2.56E-08	2.97E-08	1.65E-09	5.76E-04	5.40E-04	
3813	366250	3798000	2.50E-08	2.89E-08	1.61E-09	5.61E-04	5.35E-04	
3814	366500	3798000	2.43E-08	2.82E-08	1.57E-09	5.47E-04	5.25E-04	
3815	366750	3798000	2.37E-08	2.74E-08	1.53E-09	5.32E-04	5.15E-04	
3816	354500	3798250	1.08E-08	1.25E-08	6.93E-10	2.42E-04	5.52E-04	
3817	354750	3798250	1.09E-08	1.27E-08	7.04E-10	2.45E-04	5.57E-04	
3818	355000	3798250	1.11E-08	1.28E-08	7.14E-10	2.49E-04	6.51E-04	
3819	355250	3798250	1.13E-08	1.31E-08	7.26E-10	2.53E-04	7.31E-04	
3820	355500	3798250	1.15E-08	1.33E-08	7.39E-10	2.58E-04	7.69E-04	
3821	355750	3798250	1.17E-08	1.35E-08	7.52E-10	2.62E-04	7.83E-04	
3822	356000	3798250	1.19E-08	1.38E-08	7.67E-10	2.68E-04	8.19E-04	
3823	356250	3798250	1.21E-08	1.41E-08	7.82E-10	2.73E-04	8.86E-04	
3824	356500	3798250	1.24E-08	1.44E-08	7.99E-10	2.79E-04	9.84E-04	
3825	356750	3798250	1.27E-08	1.47E-08	8.18E-10	2.85E-04	1.09E-03	
3826	357000	3798250	1.30E-08	1.50E-08	8.36E-10	2.92E-04	1.13E-03	
3827	357250	3798250	1.33E-08	1.54E-08	8.56E-10	2.99E-04	9.09E-04	
3828	357500	3798250	1.36E-08	1.58E-08	8.78E-10	3.06E-04	8.14E-04	
3829	357750	3798250	1.40E-08	1.62E-08	9.03E-10	3.15E-04	9.46E-04	
3830	358000	3798250	1.45E-08	1.68E-08	9.36E-10	3.27E-04	1.17E-03	
3831	358250	3798250	1.53E-08	1.77E-08	9.84E-10	3.43E-04	1.64E-03	
3832	358500	3798250	1.73E-08	2.00E-08	1.11E-09	3.88E-04	1.98E-03	
3833	358750	3798250	1.97E-08	2.28E-08	1.27E-09	4.42E-04	2.11E-03	
3834	363000	3798250	3.26E-08	3.78E-08	2.10E-09	7.33E-04	1.01E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3835	363250	3798250	3.25E-08	3.77E-08	2.10E-09	7.31E-04	9.40E-04	
3836	363500	3798250	3.23E-08	3.74E-08	2.08E-09	7.25E-04	8.45E-04	
3837	363750	3798250	3.19E-08	3.70E-08	2.06E-09	7.17E-04	7.44E-04	
3838	364000	3798250	3.14E-08	3.64E-08	2.02E-09	7.06E-04	7.09E-04	
3839	364250	3798250	3.08E-08	3.57E-08	1.99E-09	6.93E-04	6.61E-04	
3840	364500	3798250	3.02E-08	3.50E-08	1.95E-09	6.79E-04	6.04E-04	
3841	364750	3798250	2.95E-08	3.42E-08	1.90E-09	6.63E-04	5.79E-04	
3842	365000	3798250	2.88E-08	3.34E-08	1.86E-09	6.47E-04	5.75E-04	
3843	365250	3798250	2.81E-08	3.25E-08	1.81E-09	6.31E-04	5.67E-04	
3844	365500	3798250	2.73E-08	3.17E-08	1.76E-09	6.14E-04	5.62E-04	
3845	365750	3798250	2.66E-08	3.09E-08	1.72E-09	5.98E-04	5.56E-04	
3846	366000	3798250	2.59E-08	3.00E-08	1.67E-09	5.82E-04	5.46E-04	
3847	366250	3798250	2.52E-08	2.92E-08	1.62E-09	5.66E-04	5.34E-04	
3848	366500	3798250	2.45E-08	2.84E-08	1.58E-09	5.51E-04	5.23E-04	
3849	366750	3798250	2.39E-08	2.77E-08	1.54E-09	5.36E-04	5.15E-04	
3850	354250	3798500	1.13E-08	1.32E-08	7.31E-10	2.55E-04	6.04E-04	
3851	354500	3798500	1.15E-08	1.33E-08	7.41E-10	2.59E-04	6.24E-04	
3852	354750	3798500	1.17E-08	1.35E-08	7.52E-10	2.62E-04	6.57E-04	
3853	355000	3798500	1.18E-08	1.37E-08	7.63E-10	2.66E-04	7.05E-04	
3854	355250	3798500	1.20E-08	1.39E-08	7.75E-10	2.70E-04	6.85E-04	
3855	355500	3798500	1.22E-08	1.42E-08	7.87E-10	2.74E-04	7.22E-04	
3856	355750	3798500	1.24E-08	1.44E-08	8.00E-10	2.79E-04	7.82E-04	
3857	356000	3798500	1.26E-08	1.46E-08	8.13E-10	2.84E-04	8.15E-04	
3858	356250	3798500	1.28E-08	1.49E-08	8.27E-10	2.89E-04	8.67E-04	
3859	356500	3798500	1.31E-08	1.52E-08	8.43E-10	2.94E-04	8.77E-04	
3860	356750	3798500	1.34E-08	1.55E-08	8.60E-10	3.00E-04	9.83E-04	
3861	357000	3798500	1.36E-08	1.58E-08	8.78E-10	3.06E-04	1.18E-03	
3862	357250	3798500	1.39E-08	1.61E-08	8.97E-10	3.13E-04	1.09E-03	
3863	357500	3798500	1.43E-08	1.65E-08	9.20E-10	3.21E-04	9.00E-04	
3864	357750	3798500	1.46E-08	1.70E-08	9.43E-10	3.29E-04	1.11E-03	
3865	358000	3798500	1.51E-08	1.75E-08	9.73E-10	3.39E-04	1.32E-03	
3866	358250	3798500	1.73E-08	2.01E-08	1.12E-09	3.89E-04	1.80E-03	
3867	358500	3798500	1.88E-08	2.18E-08	1.21E-09	4.23E-04	1.96E-03	
3868	363000	3798500	3.35E-08	3.88E-08	2.16E-09	7.53E-04	1.04E-03	
3869	363250	3798500	3.34E-08	3.87E-08	2.15E-09	7.50E-04	9.09E-04	
3870	363500	3798500	3.31E-08	3.83E-08	2.13E-09	7.43E-04	7.98E-04	
3871	363750	3798500	3.26E-08	3.78E-08	2.10E-09	7.33E-04	7.45E-04	
3872	364000	3798500	3.20E-08	3.71E-08	2.06E-09	7.20E-04	6.78E-04	
3873	364250	3798500	3.14E-08	3.64E-08	2.02E-09	7.05E-04	6.28E-04	
3874	364500	3798500	3.07E-08	3.55E-08	1.98E-09	6.89E-04	6.09E-04	
3875	364750	3798500	2.99E-08	3.47E-08	1.93E-09	6.72E-04	5.90E-04	
3876	365000	3798500	2.91E-08	3.38E-08	1.88E-09	6.54E-04	5.81E-04	
3877	365250	3798500	2.84E-08	3.29E-08	1.83E-09	6.37E-04	5.73E-04	
3878	365500	3798500	2.76E-08	3.20E-08	1.78E-09	6.20E-04	5.64E-04	
3879	365750	3798500	2.68E-08	3.11E-08	1.73E-09	6.03E-04	5.52E-04	
3880	366000	3798500	2.61E-08	3.02E-08	1.68E-09	5.86E-04	5.44E-04	
3881	366250	3798500	2.54E-08	2.94E-08	1.63E-09	5.70E-04	5.37E-04	
3882	366500	3798500	2.47E-08	2.86E-08	1.59E-09	5.54E-04	5.27E-04	
3883	366750	3798500	2.40E-08	2.78E-08	1.54E-09	5.39E-04	5.18E-04	
3884	354250	3798750	1.22E-08	1.42E-08	7.88E-10	2.75E-04	6.44E-04	
3885	354500	3798750	1.24E-08	1.44E-08	8.01E-10	2.79E-04	6.43E-04	
3886	354750	3798750	1.26E-08	1.46E-08	8.13E-10	2.83E-04	6.77E-04	
3887	355000	3798750	1.28E-08	1.48E-08	8.24E-10	2.88E-04	6.57E-04	
3888	355250	3798750	1.30E-08	1.50E-08	8.36E-10	2.92E-04	7.01E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3889	355500	3798750	1.32E-08	1.53E-08	8.49E-10	2.96E-04	7.01E-04	
3890	355750	3798750	1.34E-08	1.55E-08	8.62E-10	3.01E-04	7.07E-04	
3891	356000	3798750	1.36E-08	1.57E-08	8.74E-10	3.05E-04	7.33E-04	
3892	356250	3798750	1.38E-08	1.60E-08	8.88E-10	3.10E-04	8.44E-04	
3893	356500	3798750	1.40E-08	1.62E-08	9.02E-10	3.15E-04	9.57E-04	
3894	356750	3798750	1.42E-08	1.65E-08	9.18E-10	3.20E-04	1.01E-03	
3895	357000	3798750	1.45E-08	1.68E-08	9.33E-10	3.25E-04	1.04E-03	
3896	357250	3798750	1.51E-08	1.75E-08	9.71E-10	3.39E-04	1.23E-03	
3897	357500	3798750	1.60E-08	1.85E-08	1.03E-09	3.59E-04	1.47E-03	
3898	357750	3798750	1.55E-08	1.79E-08	9.97E-10	3.48E-04	1.27E-03	
3899	358000	3798750	1.78E-08	2.06E-08	1.14E-09	3.99E-04	1.78E-03	
3900	358250	3798750	1.89E-08	2.19E-08	1.22E-09	4.24E-04	1.87E-03	
3901	363000	3798750	3.42E-08	3.97E-08	2.21E-09	7.69E-04	9.60E-04	
3902	363250	3798750	3.40E-08	3.94E-08	2.19E-09	7.65E-04	8.37E-04	
3903	363500	3798750	3.36E-08	3.90E-08	2.17E-09	7.56E-04	7.59E-04	
3904	363750	3798750	3.31E-08	3.84E-08	2.13E-09	7.44E-04	7.02E-04	
3905	364000	3798750	3.24E-08	3.76E-08	2.09E-09	7.29E-04	6.91E-04	
3906	364250	3798750	3.17E-08	3.67E-08	2.04E-09	7.12E-04	6.67E-04	
3907	364500	3798750	3.09E-08	3.58E-08	1.99E-09	6.95E-04	6.34E-04	
3908	364750	3798750	3.01E-08	3.49E-08	1.94E-09	6.77E-04	5.95E-04	
3909	365000	3798750	2.93E-08	3.40E-08	1.89E-09	6.59E-04	5.77E-04	
3910	365250	3798750	2.85E-08	3.30E-08	1.84E-09	6.40E-04	5.71E-04	
3911	365500	3798750	2.77E-08	3.21E-08	1.78E-09	6.22E-04	5.64E-04	
3912	365750	3798750	2.69E-08	3.12E-08	1.73E-09	6.05E-04	5.56E-04	
3913	366000	3798750	2.62E-08	3.03E-08	1.69E-09	5.88E-04	5.47E-04	
3914	366250	3798750	2.54E-08	2.95E-08	1.64E-09	5.71E-04	5.39E-04	
3915	366500	3798750	2.47E-08	2.86E-08	1.59E-09	5.55E-04	5.28E-04	
3916	366750	3798750	2.40E-08	2.78E-08	1.55E-09	5.39E-04	5.20E-04	
3917	354250	3799000	1.33E-08	1.54E-08	8.58E-10	2.99E-04	5.73E-04	
3918	354500	3799000	1.35E-08	1.57E-08	8.72E-10	3.04E-04	5.88E-04	
3919	354750	3799000	1.38E-08	1.59E-08	8.86E-10	3.09E-04	6.75E-04	
3920	355000	3799000	1.40E-08	1.62E-08	8.99E-10	3.14E-04	6.37E-04	
3921	355250	3799000	1.42E-08	1.64E-08	9.13E-10	3.18E-04	7.15E-04	
3922	355500	3799000	1.44E-08	1.67E-08	9.27E-10	3.23E-04	7.77E-04	
3923	355750	3799000	1.46E-08	1.69E-08	9.40E-10	3.28E-04	8.00E-04	
3924	356000	3799000	1.48E-08	1.72E-08	9.55E-10	3.33E-04	8.04E-04	
3925	356250	3799000	1.50E-08	1.74E-08	9.68E-10	3.38E-04	8.82E-04	
3926	356500	3799000	1.52E-08	1.77E-08	9.82E-10	3.42E-04	9.29E-04	
3927	356750	3799000	1.54E-08	1.79E-08	9.94E-10	3.47E-04	1.01E-03	
3928	357000	3799000	1.57E-08	1.82E-08	1.01E-09	3.53E-04	1.10E-03	
3929	357250	3799000	1.65E-08	1.92E-08	1.07E-09	3.72E-04	1.18E-03	
3930	357500	3799000	1.76E-08	2.04E-08	1.13E-09	3.95E-04	1.23E-03	
3931	357750	3799000	1.76E-08	2.04E-08	1.14E-09	3.96E-04	1.48E-03	
3932	358000	3799000	2.02E-08	2.34E-08	1.30E-09	4.53E-04	1.85E-03	
3933	358250	3799000	2.14E-08	2.48E-08	1.38E-09	4.82E-04	2.09E-03	
3934	363000	3799000	3.47E-08	4.02E-08	2.23E-09	7.79E-04	8.42E-04	
3935	363250	3799000	3.44E-08	3.98E-08	2.21E-09	7.72E-04	8.06E-04	
3936	363500	3799000	3.39E-08	3.93E-08	2.18E-09	7.61E-04	7.94E-04	
3937	363750	3799000	3.33E-08	3.86E-08	2.15E-09	7.48E-04	7.60E-04	
3938	364000	3799000	3.26E-08	3.78E-08	2.10E-09	7.32E-04	7.15E-04	
3939	364250	3799000	3.18E-08	3.69E-08	2.05E-09	7.15E-04	6.79E-04	
3940	364500	3799000	3.10E-08	3.59E-08	2.00E-09	6.96E-04	6.74E-04	
3941	364750	3799000	3.02E-08	3.50E-08	1.94E-09	6.78E-04	6.60E-04	
3942	365000	3799000	2.93E-08	3.40E-08	1.89E-09	6.59E-04	6.41E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3943	365250	3799000	2.85E-08	3.30E-08	1.84E-09	6.41E-04	6.17E-04	
3944	365500	3799000	2.77E-08	3.21E-08	1.78E-09	6.22E-04	5.91E-04	
3945	365750	3799000	2.69E-08	3.12E-08	1.73E-09	6.05E-04	5.63E-04	
3946	366000	3799000	2.61E-08	3.03E-08	1.68E-09	5.87E-04	5.50E-04	
3947	366250	3799000	2.54E-08	2.94E-08	1.64E-09	5.71E-04	5.41E-04	
3948	366500	3799000	2.47E-08	2.86E-08	1.59E-09	5.55E-04	5.31E-04	
3949	366750	3799000	2.40E-08	2.78E-08	1.54E-09	5.39E-04	5.22E-04	
3950	354250	3799250	1.46E-08	1.69E-08	9.39E-10	3.28E-04	5.50E-04	
3951	354500	3799250	1.49E-08	1.72E-08	9.57E-10	3.34E-04	5.58E-04	
3952	354750	3799250	1.51E-08	1.75E-08	9.73E-10	3.40E-04	5.99E-04	
3953	355000	3799250	1.54E-08	1.78E-08	9.90E-10	3.45E-04	6.06E-04	
3954	355250	3799250	1.56E-08	1.81E-08	1.01E-09	3.51E-04	7.46E-04	
3955	355500	3799250	1.59E-08	1.84E-08	1.02E-09	3.57E-04	7.95E-04	
3956	355750	3799250	1.61E-08	1.87E-08	1.04E-09	3.63E-04	8.39E-04	
3957	356000	3799250	1.64E-08	1.90E-08	1.06E-09	3.68E-04	8.51E-04	
3958	356250	3799250	1.66E-08	1.93E-08	1.07E-09	3.74E-04	9.02E-04	
3959	356500	3799250	1.68E-08	1.95E-08	1.09E-09	3.79E-04	9.66E-04	
3960	356750	3799250	1.70E-08	1.97E-08	1.10E-09	3.83E-04	1.02E-03	
3961	357000	3799250	1.75E-08	2.03E-08	1.13E-09	3.94E-04	1.08E-03	
3962	357250	3799250	1.86E-08	2.16E-08	1.20E-09	4.19E-04	1.20E-03	
3963	357500	3799250	2.01E-08	2.33E-08	1.30E-09	4.53E-04	1.33E-03	
3964	357750	3799250	2.14E-08	2.48E-08	1.38E-09	4.81E-04	1.45E-03	
3965	358000	3799250	2.17E-08	2.51E-08	1.40E-09	4.88E-04	1.42E-03	
3966	363000	3799250	3.47E-08	4.02E-08	2.24E-09	7.80E-04	9.04E-04	
3967	363250	3799250	3.43E-08	3.98E-08	2.21E-09	7.71E-04	8.59E-04	
3968	363500	3799250	3.38E-08	3.92E-08	2.18E-09	7.60E-04	8.05E-04	
3969	363750	3799250	3.32E-08	3.85E-08	2.14E-09	7.46E-04	8.04E-04	
3970	364000	3799250	3.25E-08	3.77E-08	2.09E-09	7.31E-04	7.90E-04	
3971	364250	3799250	3.17E-08	3.67E-08	2.04E-09	7.13E-04	7.64E-04	
3972	364500	3799250	3.09E-08	3.58E-08	1.99E-09	6.94E-04	7.31E-04	
3973	364750	3799250	3.01E-08	3.48E-08	1.94E-09	6.75E-04	6.95E-04	
3974	365000	3799250	2.92E-08	3.39E-08	1.88E-09	6.57E-04	6.58E-04	
3975	365250	3799250	2.84E-08	3.29E-08	1.83E-09	6.38E-04	6.20E-04	
3976	365500	3799250	2.76E-08	3.20E-08	1.78E-09	6.20E-04	5.84E-04	
3977	365750	3799250	2.68E-08	3.10E-08	1.73E-09	6.02E-04	5.60E-04	
3978	366000	3799250	2.60E-08	3.02E-08	1.68E-09	5.85E-04	5.52E-04	
3979	366250	3799250	2.53E-08	2.93E-08	1.63E-09	5.68E-04	5.45E-04	
3980	366500	3799250	2.46E-08	2.85E-08	1.58E-09	5.52E-04	5.37E-04	
3981	366750	3799250	2.39E-08	2.76E-08	1.54E-09	5.36E-04	5.28E-04	
3982	354250	3799500	1.60E-08	1.86E-08	1.03E-09	3.60E-04	5.62E-04	
3983	354500	3799500	1.64E-08	1.90E-08	1.05E-09	3.68E-04	5.94E-04	
3984	354750	3799500	1.67E-08	1.93E-08	1.08E-09	3.75E-04	6.27E-04	
3985	355000	3799500	1.70E-08	1.97E-08	1.10E-09	3.83E-04	6.44E-04	
3986	355250	3799500	1.74E-08	2.01E-08	1.12E-09	3.90E-04	7.06E-04	
3987	355500	3799500	1.77E-08	2.05E-08	1.14E-09	3.97E-04	8.04E-04	
3988	355750	3799500	1.80E-08	2.09E-08	1.16E-09	4.05E-04	8.40E-04	
3989	356000	3799500	1.83E-08	2.12E-08	1.18E-09	4.12E-04	9.08E-04	
3990	356250	3799500	1.86E-08	2.16E-08	1.20E-09	4.19E-04	9.61E-04	
3991	356500	3799500	1.89E-08	2.19E-08	1.22E-09	4.24E-04	1.00E-03	
3992	356750	3799500	1.94E-08	2.25E-08	1.25E-09	4.37E-04	1.05E-03	
3993	357000	3799500	1.93E-08	2.24E-08	1.24E-09	4.34E-04	8.78E-04	
3994	357250	3799500	2.06E-08	2.39E-08	1.33E-09	4.64E-04	1.15E-03	
3995	357500	3799500	2.21E-08	2.56E-08	1.43E-09	4.97E-04	1.27E-03	
3996	357750	3799500	2.50E-08	2.90E-08	1.61E-09	5.61E-04	1.51E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
3997	358000	3799500	2.53E-08	2.94E-08	1.63E-09	5.69E-04	1.53E-03	
3998	362750	3799500	3.46E-08	4.01E-08	2.23E-09	7.78E-04	9.40E-04	
3999	363000	3799500	3.44E-08	3.98E-08	2.21E-09	7.72E-04	9.50E-04	
4000	363250	3799500	3.40E-08	3.94E-08	2.19E-09	7.64E-04	9.40E-04	
4001	363500	3799500	3.35E-08	3.88E-08	2.16E-09	7.53E-04	9.10E-04	
4002	363750	3799500	3.29E-08	3.81E-08	2.12E-09	7.39E-04	8.67E-04	
4003	364000	3799500	3.22E-08	3.74E-08	2.08E-09	7.24E-04	8.17E-04	
4004	364250	3799500	3.14E-08	3.64E-08	2.03E-09	7.06E-04	7.66E-04	
4005	364500	3799500	3.06E-08	3.55E-08	1.97E-09	6.88E-04	7.14E-04	
4006	364750	3799500	2.98E-08	3.45E-08	1.92E-09	6.69E-04	6.65E-04	
4007	365000	3799500	2.90E-08	3.36E-08	1.87E-09	6.51E-04	6.19E-04	
4008	365250	3799500	2.81E-08	3.26E-08	1.81E-09	6.32E-04	5.85E-04	
4009	365500	3799500	2.73E-08	3.17E-08	1.76E-09	6.14E-04	5.72E-04	
4010	365750	3799500	2.66E-08	3.08E-08	1.71E-09	5.97E-04	5.64E-04	
4011	366000	3799500	2.58E-08	2.99E-08	1.66E-09	5.80E-04	5.54E-04	
4012	366250	3799500	2.51E-08	2.90E-08	1.61E-09	5.63E-04	5.46E-04	
4013	366500	3799500	2.43E-08	2.82E-08	1.57E-09	5.47E-04	5.36E-04	
4014	366750	3799500	2.37E-08	2.74E-08	1.52E-09	5.31E-04	5.26E-04	
4015	354250	3799750	1.76E-08	2.04E-08	1.14E-09	3.96E-04	5.87E-04	
4016	354500	3799750	1.81E-08	2.09E-08	1.16E-09	4.06E-04	6.40E-04	
4017	354750	3799750	1.85E-08	2.14E-08	1.19E-09	4.15E-04	6.86E-04	
4018	355000	3799750	1.89E-08	2.19E-08	1.22E-09	4.25E-04	6.83E-04	
4019	355250	3799750	1.94E-08	2.24E-08	1.25E-09	4.35E-04	7.82E-04	
4020	355500	3799750	1.98E-08	2.29E-08	1.28E-09	4.45E-04	8.18E-04	
4021	355750	3799750	2.02E-08	2.34E-08	1.30E-09	4.55E-04	8.14E-04	
4022	356000	3799750	2.06E-08	2.39E-08	1.33E-09	4.64E-04	8.99E-04	
4023	356250	3799750	2.11E-08	2.44E-08	1.36E-09	4.73E-04	9.27E-04	
4024	356500	3799750	2.15E-08	2.49E-08	1.38E-09	4.82E-04	1.02E-03	
4025	356750	3799750	2.17E-08	2.51E-08	1.40E-09	4.87E-04	8.81E-04	
4026	357000	3799750	2.19E-08	2.54E-08	1.41E-09	4.92E-04	8.29E-04	
4027	357250	3799750	2.30E-08	2.67E-08	1.48E-09	5.17E-04	1.07E-03	
4028	357500	3799750	2.43E-08	2.81E-08	1.56E-09	5.46E-04	1.18E-03	
4029	357750	3799750	2.72E-08	3.15E-08	1.75E-09	6.11E-04	1.38E-03	
4030	358000	3799750	2.96E-08	3.43E-08	1.91E-09	6.66E-04	1.60E-03	
4031	362500	3799750	3.42E-08	3.96E-08	2.20E-09	7.69E-04	1.07E-03	
4032	362750	3799750	3.40E-08	3.94E-08	2.19E-09	7.64E-04	1.05E-03	
4033	363000	3799750	3.38E-08	3.91E-08	2.18E-09	7.59E-04	9.96E-04	
4034	363250	3799750	3.34E-08	3.87E-08	2.15E-09	7.51E-04	9.33E-04	
4035	363500	3799750	3.29E-08	3.82E-08	2.12E-09	7.40E-04	8.66E-04	
4036	363750	3799750	3.24E-08	3.75E-08	2.09E-09	7.28E-04	7.99E-04	
4037	364000	3799750	3.17E-08	3.68E-08	2.04E-09	7.13E-04	7.36E-04	
4038	364250	3799750	3.10E-08	3.59E-08	2.00E-09	6.96E-04	6.82E-04	
4039	364500	3799750	3.02E-08	3.50E-08	1.94E-09	6.78E-04	6.44E-04	
4040	364750	3799750	2.93E-08	3.40E-08	1.89E-09	6.59E-04	6.10E-04	
4041	365000	3799750	2.85E-08	3.31E-08	1.84E-09	6.41E-04	5.90E-04	
4042	365250	3799750	2.77E-08	3.21E-08	1.79E-09	6.23E-04	5.77E-04	
4043	365500	3799750	2.70E-08	3.12E-08	1.74E-09	6.06E-04	5.69E-04	
4044	365750	3799750	2.62E-08	3.04E-08	1.69E-09	5.88E-04	5.62E-04	
4045	366000	3799750	2.54E-08	2.95E-08	1.64E-09	5.72E-04	5.54E-04	
4046	366250	3799750	2.47E-08	2.86E-08	1.59E-09	5.55E-04	5.46E-04	
4047	366500	3799750	2.40E-08	2.78E-08	1.55E-09	5.40E-04	5.38E-04	
4048	366750	3799750	2.33E-08	2.70E-08	1.50E-09	5.24E-04	5.29E-04	
4049	354000	3800000	1.89E-08	2.19E-08	1.22E-09	4.24E-04	5.91E-04	
4050	354250	3800000	1.94E-08	2.25E-08	1.25E-09	4.36E-04	6.52E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4051	354500	3800000	1.99E-08	2.31E-08	1.28E-09	4.48E-04	6.83E-04	
4052	354750	3800000	2.05E-08	2.37E-08	1.32E-09	4.60E-04	7.13E-04	
4053	355000	3800000	2.10E-08	2.44E-08	1.35E-09	4.72E-04	7.49E-04	
4054	355250	3800000	2.16E-08	2.50E-08	1.39E-09	4.85E-04	7.39E-04	
4055	355500	3800000	2.22E-08	2.57E-08	1.43E-09	4.98E-04	8.01E-04	
4056	355750	3800000	2.27E-08	2.64E-08	1.47E-09	5.11E-04	7.92E-04	
4057	356000	3800000	2.33E-08	2.70E-08	1.50E-09	5.24E-04	8.68E-04	
4058	356250	3800000	2.39E-08	2.77E-08	1.54E-09	5.36E-04	7.77E-04	
4059	356500	3800000	2.49E-08	2.88E-08	1.60E-09	5.58E-04	9.97E-04	
4060	356750	3800000	2.52E-08	2.92E-08	1.63E-09	5.67E-04	9.59E-04	
4061	357000	3800000	2.51E-08	2.91E-08	1.61E-09	5.63E-04	6.68E-04	
4062	357250	3800000	2.54E-08	2.95E-08	1.64E-09	5.71E-04	7.00E-04	
4063	357500	3800000	2.59E-08	3.00E-08	1.67E-09	5.81E-04	7.25E-04	
4064	357750	3800000	3.04E-08	3.52E-08	1.96E-09	6.83E-04	1.16E-03	
4065	358000	3800000	3.17E-08	3.68E-08	2.04E-09	7.13E-04	1.21E-03	
4066	362500	3800000	3.33E-08	3.86E-08	2.15E-09	7.49E-04	1.09E-03	
4067	362750	3800000	3.31E-08	3.84E-08	2.14E-09	7.45E-04	1.06E-03	
4068	363000	3800000	3.29E-08	3.81E-08	2.12E-09	7.39E-04	1.01E-03	
4069	363250	3800000	3.26E-08	3.78E-08	2.10E-09	7.32E-04	9.51E-04	
4070	363500	3800000	3.22E-08	3.73E-08	2.07E-09	7.22E-04	8.92E-04	
4071	363750	3800000	3.16E-08	3.66E-08	2.04E-09	7.10E-04	8.44E-04	
4072	364000	3800000	3.10E-08	3.59E-08	2.00E-09	6.97E-04	7.86E-04	
4073	364250	3800000	3.03E-08	3.51E-08	1.95E-09	6.80E-04	7.26E-04	
4074	364500	3800000	2.95E-08	3.42E-08	1.90E-09	6.63E-04	6.97E-04	
4075	364750	3800000	2.87E-08	3.33E-08	1.85E-09	6.45E-04	6.34E-04	
4076	365000	3800000	2.79E-08	3.24E-08	1.80E-09	6.28E-04	5.93E-04	
4077	365250	3800000	2.72E-08	3.15E-08	1.75E-09	6.10E-04	5.79E-04	
4078	365500	3800000	2.64E-08	3.06E-08	1.70E-09	5.93E-04	5.72E-04	
4079	365750	3800000	2.57E-08	2.97E-08	1.65E-09	5.77E-04	5.65E-04	
4080	366000	3800000	2.49E-08	2.89E-08	1.61E-09	5.61E-04	5.56E-04	
4081	366250	3800000	2.43E-08	2.81E-08	1.56E-09	5.45E-04	5.47E-04	
4082	366500	3800000	2.36E-08	2.73E-08	1.52E-09	5.30E-04	5.38E-04	
4083	354000	3800250	2.06E-08	2.39E-08	1.33E-09	4.63E-04	6.16E-04	
4084	354250	3800250	2.12E-08	2.46E-08	1.37E-09	4.77E-04	6.65E-04	
4085	354500	3800250	2.19E-08	2.54E-08	1.41E-09	4.92E-04	6.86E-04	
4086	354750	3800250	2.26E-08	2.62E-08	1.45E-09	5.07E-04	7.16E-04	
4087	355000	3800250	2.33E-08	2.70E-08	1.50E-09	5.23E-04	7.54E-04	
4088	355250	3800250	2.40E-08	2.78E-08	1.55E-09	5.39E-04	7.73E-04	
4089	355500	3800250	2.47E-08	2.86E-08	1.59E-09	5.55E-04	8.26E-04	
4090	355750	3800250	2.55E-08	2.95E-08	1.64E-09	5.72E-04	7.89E-04	
4091	356000	3800250	2.62E-08	3.04E-08	1.69E-09	5.89E-04	6.44E-04	
4092	356250	3800250	2.70E-08	3.13E-08	1.74E-09	6.06E-04	6.56E-04	
4093	356500	3800250	2.77E-08	3.21E-08	1.78E-09	6.22E-04	6.89E-04	
4094	356750	3800250	2.82E-08	3.27E-08	1.82E-09	6.35E-04	7.35E-04	
4095	357000	3800250	2.88E-08	3.34E-08	1.86E-09	6.47E-04	7.88E-04	
4096	357250	3800250	2.94E-08	3.40E-08	1.89E-09	6.60E-04	8.42E-04	
4097	357500	3800250	3.00E-08	3.48E-08	1.94E-09	6.75E-04	9.02E-04	
4098	357750	3800250	3.57E-08	4.14E-08	2.30E-09	8.02E-04	1.10E-03	
4099	362250	3800250	3.23E-08	3.74E-08	2.08E-09	7.26E-04	1.21E-03	
4100	362500	3800250	3.21E-08	3.72E-08	2.07E-09	7.21E-04	1.15E-03	
4101	362750	3800250	3.19E-08	3.70E-08	2.06E-09	7.17E-04	1.08E-03	
4102	363000	3800250	3.17E-08	3.67E-08	2.04E-09	7.12E-04	1.01E-03	
4103	363250	3800250	3.14E-08	3.64E-08	2.02E-09	7.06E-04	9.40E-04	
4104	363500	3800250	3.42E-08	3.97E-08	2.21E-09	7.69E-04	1.01E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4105	363750	3800250	3.06E-08	3.54E-08	1.97E-09	6.87E-04	8.07E-04	
4106	364000	3800250	3.01E-08	3.49E-08	1.94E-09	6.77E-04	8.36E-04	
4107	364250	3800250	2.93E-08	3.40E-08	1.89E-09	6.59E-04	7.00E-04	
4108	364500	3800250	2.86E-08	3.31E-08	1.84E-09	6.42E-04	6.54E-04	
4109	364750	3800250	2.79E-08	3.23E-08	1.79E-09	6.26E-04	6.12E-04	
4110	365000	3800250	2.71E-08	3.14E-08	1.75E-09	6.10E-04	5.88E-04	
4111	365250	3800250	2.64E-08	3.06E-08	1.70E-09	5.93E-04	5.78E-04	
4112	365500	3800250	2.57E-08	2.98E-08	1.66E-09	5.77E-04	5.72E-04	
4113	365750	3800250	2.50E-08	2.90E-08	1.61E-09	5.62E-04	5.64E-04	
4114	366000	3800250	2.43E-08	2.82E-08	1.57E-09	5.46E-04	5.55E-04	
4115	366250	3800250	2.37E-08	2.74E-08	1.52E-09	5.31E-04	5.46E-04	
4116	366500	3800250	2.30E-08	2.67E-08	1.48E-09	5.17E-04	5.37E-04	
4117	354000	3800500	2.24E-08	2.60E-08	1.44E-09	5.03E-04	6.08E-04	
4118	354250	3800500	2.31E-08	2.68E-08	1.49E-09	5.20E-04	6.46E-04	
4119	354500	3800500	2.39E-08	2.77E-08	1.54E-09	5.38E-04	6.65E-04	
4120	354750	3800500	2.47E-08	2.87E-08	1.59E-09	5.56E-04	6.82E-04	
4121	355000	3800500	2.56E-08	2.97E-08	1.65E-09	5.75E-04	6.88E-04	
4122	355250	3800500	2.65E-08	3.07E-08	1.71E-09	5.95E-04	6.81E-04	
4123	355500	3800500	2.74E-08	3.17E-08	1.76E-09	6.15E-04	7.76E-04	
4124	355750	3800500	2.83E-08	3.28E-08	1.83E-09	6.37E-04	7.70E-04	
4125	356000	3800500	2.93E-08	3.40E-08	1.89E-09	6.59E-04	6.59E-04	
4126	356250	3800500	3.03E-08	3.51E-08	1.95E-09	6.81E-04	6.76E-04	
4127	356500	3800500	3.13E-08	3.63E-08	2.02E-09	7.03E-04	6.98E-04	
4128	356750	3800500	3.22E-08	3.73E-08	2.07E-09	7.23E-04	7.30E-04	
4129	357000	3800500	3.30E-08	3.83E-08	2.13E-09	7.42E-04	7.79E-04	
4130	357250	3800500	3.40E-08	3.93E-08	2.19E-09	7.63E-04	8.32E-04	
4131	357500	3800500	3.50E-08	4.05E-08	2.25E-09	7.86E-04	8.89E-04	
4132	357750	3800500	4.02E-08	4.65E-08	2.59E-09	9.02E-04	1.05E-03	
4133	362250	3800500	3.05E-08	3.54E-08	1.97E-09	6.86E-04	9.88E-04	
4134	362500	3800500	3.04E-08	3.52E-08	1.96E-09	6.82E-04	9.48E-04	
4135	362750	3800500	3.02E-08	3.50E-08	1.95E-09	6.79E-04	9.10E-04	
4136	363000	3800500	3.01E-08	3.49E-08	1.94E-09	6.76E-04	8.63E-04	
4137	363250	3800500	3.14E-08	3.64E-08	2.02E-09	7.05E-04	9.41E-04	
4138	363500	3800500	3.38E-08	3.92E-08	2.18E-09	7.59E-04	1.09E-03	
4139	363750	3800500	3.07E-08	3.56E-08	1.98E-09	6.89E-04	9.18E-04	
4140	364000	3800500	3.06E-08	3.55E-08	1.97E-09	6.89E-04	9.78E-04	
4141	364250	3800500	2.85E-08	3.30E-08	1.84E-09	6.40E-04	8.50E-04	
4142	364500	3800500	2.74E-08	3.18E-08	1.77E-09	6.17E-04	6.33E-04	
4143	364750	3800500	2.68E-08	3.10E-08	1.73E-09	6.02E-04	6.36E-04	
4144	365000	3800500	2.61E-08	3.03E-08	1.68E-09	5.87E-04	5.90E-04	
4145	365250	3800500	2.55E-08	2.95E-08	1.64E-09	5.72E-04	5.75E-04	
4146	365500	3800500	2.48E-08	2.88E-08	1.60E-09	5.58E-04	5.71E-04	
4147	365750	3800500	2.42E-08	2.80E-08	1.56E-09	5.43E-04	5.78E-04	
4148	366000	3800500	2.35E-08	2.73E-08	1.52E-09	5.29E-04	5.58E-04	
4149	366250	3800500	2.29E-08	2.66E-08	1.48E-09	5.15E-04	5.44E-04	
4150	366500	3800500	2.23E-08	2.59E-08	1.44E-09	5.02E-04	5.35E-04	
4151	354000	3800750	2.42E-08	2.80E-08	1.56E-09	5.44E-04	5.30E-04	
4152	354250	3800750	2.51E-08	2.90E-08	1.61E-09	5.63E-04	5.48E-04	
4153	354500	3800750	2.60E-08	3.01E-08	1.67E-09	5.83E-04	6.23E-04	
4154	354750	3800750	2.69E-08	3.12E-08	1.73E-09	6.05E-04	5.70E-04	
4155	355000	3800750	2.79E-08	3.24E-08	1.80E-09	6.28E-04	6.09E-04	
4156	355250	3800750	2.90E-08	3.36E-08	1.87E-09	6.51E-04	6.06E-04	
4157	355500	3800750	3.01E-08	3.49E-08	1.94E-09	6.76E-04	6.23E-04	
4158	355750	3800750	3.13E-08	3.63E-08	2.02E-09	7.03E-04	7.89E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4159	356000	3800750	3.25E-08	3.77E-08	2.09E-09	7.30E-04	7.07E-04	
4160	356250	3800750	3.38E-08	3.92E-08	2.18E-09	7.60E-04	7.55E-04	
4161	356500	3800750	3.51E-08	4.07E-08	2.26E-09	7.89E-04	8.27E-04	
4162	356750	3800750	3.93E-08	4.56E-08	2.53E-09	8.84E-04	9.88E-04	
4163	357000	3800750	3.76E-08	4.35E-08	2.42E-09	8.44E-04	7.69E-04	
4164	357250	3800750	3.89E-08	4.51E-08	2.50E-09	8.73E-04	8.80E-04	
4165	357500	3800750	4.03E-08	4.67E-08	2.60E-09	9.06E-04	1.05E-03	
4166	357750	3800750	4.20E-08	4.87E-08	2.71E-09	9.44E-04	1.36E-03	
4167	362000	3800750	2.86E-08	3.31E-08	1.84E-09	6.43E-04	1.32E-03	
4168	362250	3800750	2.83E-08	3.28E-08	1.82E-09	6.36E-04	1.08E-03	
4169	362500	3800750	2.84E-08	3.29E-08	1.83E-09	6.38E-04	9.93E-04	
4170	362750	3800750	2.82E-08	3.27E-08	1.82E-09	6.34E-04	9.59E-04	
4171	363000	3800750	2.82E-08	3.26E-08	1.81E-09	6.33E-04	9.37E-04	
4172	363250	3800750	2.96E-08	3.43E-08	1.91E-09	6.66E-04	9.80E-04	
4173	363500	3800750	3.10E-08	3.60E-08	2.00E-09	6.97E-04	1.06E-03	
4174	363750	3800750	2.97E-08	3.44E-08	1.91E-09	6.67E-04	9.99E-04	
4175	364000	3800750	2.83E-08	3.28E-08	1.82E-09	6.36E-04	9.28E-04	
4176	364250	3800750	2.66E-08	3.09E-08	1.72E-09	5.98E-04	8.32E-04	
4177	364500	3800750	2.61E-08	3.02E-08	1.68E-09	5.86E-04	7.50E-04	
4178	364750	3800750	2.55E-08	2.96E-08	1.64E-09	5.73E-04	6.29E-04	
4179	365000	3800750	2.49E-08	2.89E-08	1.61E-09	5.61E-04	6.17E-04	
4180	365250	3800750	2.44E-08	2.82E-08	1.57E-09	5.48E-04	5.88E-04	
4181	365500	3800750	2.38E-08	2.76E-08	1.53E-09	5.35E-04	5.71E-04	
4182	365750	3800750	2.32E-08	2.69E-08	1.50E-09	5.22E-04	5.86E-04	
4183	366000	3800750	2.27E-08	2.63E-08	1.46E-09	5.09E-04	6.05E-04	
4184	366250	3800750	2.21E-08	2.56E-08	1.42E-09	4.96E-04	5.44E-04	
4185	354000	3801000	2.60E-08	3.01E-08	1.67E-09	5.83E-04	5.65E-04	
4186	354250	3801000	2.70E-08	3.12E-08	1.74E-09	6.06E-04	5.49E-04	
4187	354500	3801000	2.80E-08	3.24E-08	1.80E-09	6.29E-04	5.57E-04	
4188	354750	3801000	2.91E-08	3.37E-08	1.87E-09	6.54E-04	5.63E-04	
4189	355000	3801000	3.03E-08	3.51E-08	1.95E-09	6.80E-04	5.70E-04	
4190	355250	3801000	3.15E-08	3.65E-08	2.03E-09	7.08E-04	5.76E-04	
4191	355500	3801000	3.28E-08	3.80E-08	2.11E-09	7.37E-04	6.98E-04	
4192	355750	3801000	3.42E-08	3.97E-08	2.20E-09	7.69E-04	7.13E-04	
4193	356000	3801000	3.57E-08	4.14E-08	2.30E-09	8.02E-04	7.50E-04	
4194	356250	3801000	3.73E-08	4.32E-08	2.40E-09	8.38E-04	7.23E-04	
4195	356500	3801000	3.89E-08	4.51E-08	2.51E-09	8.74E-04	8.23E-04	
4196	356750	3801000	4.05E-08	4.69E-08	2.61E-09	9.09E-04	8.28E-04	
4197	357000	3801000	4.21E-08	4.87E-08	2.71E-09	9.45E-04	9.88E-04	
4198	357250	3801000	4.38E-08	5.07E-08	2.82E-09	9.83E-04	1.09E-03	
4199	357500	3801000	4.56E-08	5.29E-08	2.94E-09	1.02E-03	1.23E-03	
4200	357750	3801000	4.78E-08	5.54E-08	3.08E-09	1.07E-03	1.44E-03	
4201	361750	3801000	2.67E-08	3.09E-08	1.72E-09	6.00E-04	1.71E-03	
4202	362000	3801000	2.62E-08	3.04E-08	1.69E-09	5.90E-04	1.61E-03	
4203	362250	3801000	2.61E-08	3.03E-08	1.68E-09	5.87E-04	1.42E-03	
4204	362500	3801000	2.66E-08	3.08E-08	1.71E-09	5.97E-04	1.21E-03	
4205	362750	3801000	2.70E-08	3.13E-08	1.74E-09	6.06E-04	1.02E-03	
4206	363000	3801000	2.72E-08	3.16E-08	1.76E-09	6.12E-04	1.00E-03	
4207	363250	3801000	2.71E-08	3.14E-08	1.75E-09	6.09E-04	9.55E-04	
4208	363500	3801000	2.83E-08	3.28E-08	1.82E-09	6.36E-04	1.04E-03	
4209	363750	3801000	2.75E-08	3.19E-08	1.77E-09	6.18E-04	1.04E-03	
4210	364000	3801000	2.59E-08	3.01E-08	1.67E-09	5.83E-04	9.62E-04	
4211	364250	3801000	2.53E-08	2.93E-08	1.63E-09	5.68E-04	9.03E-04	
4212	364500	3801000	2.46E-08	2.85E-08	1.59E-09	5.53E-04	8.50E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4213	364750	3801000	2.42E-08	2.80E-08	1.56E-09	5.43E-04	6.81E-04	
4214	365000	3801000	2.37E-08	2.74E-08	1.52E-09	5.32E-04	6.08E-04	
4215	365250	3801000	2.32E-08	2.69E-08	1.49E-09	5.21E-04	6.78E-04	
4216	365500	3801000	2.27E-08	2.63E-08	1.46E-09	5.09E-04	5.97E-04	
4217	365750	3801000	2.22E-08	2.57E-08	1.43E-09	4.98E-04	6.21E-04	
4218	366000	3801000	2.17E-08	2.51E-08	1.40E-09	4.87E-04	6.13E-04	
4219	366250	3801000	2.12E-08	2.46E-08	1.36E-09	4.76E-04	5.98E-04	
4220	354000	3801250	2.77E-08	3.21E-08	1.78E-09	6.22E-04	5.41E-04	
4221	354250	3801250	2.88E-08	3.33E-08	1.85E-09	6.47E-04	5.48E-04	
4222	354500	3801250	2.99E-08	3.47E-08	1.93E-09	6.73E-04	5.54E-04	
4223	354750	3801250	3.12E-08	3.61E-08	2.01E-09	7.01E-04	5.65E-04	
4224	355000	3801250	3.25E-08	3.77E-08	2.09E-09	7.30E-04	5.89E-04	
4225	355250	3801250	3.39E-08	3.93E-08	2.18E-09	7.62E-04	6.88E-04	
4226	355500	3801250	3.54E-08	4.10E-08	2.28E-09	7.96E-04	7.24E-04	
4227	355750	3801250	3.70E-08	4.29E-08	2.38E-09	8.32E-04	6.21E-04	
4228	356000	3801250	3.87E-08	4.49E-08	2.49E-09	8.70E-04	6.92E-04	
4229	356250	3801250	4.05E-08	4.69E-08	2.61E-09	9.10E-04	7.73E-04	
4230	356500	3801250	4.24E-08	4.91E-08	2.73E-09	9.52E-04	8.63E-04	
4231	356750	3801250	4.42E-08	5.12E-08	2.85E-09	9.94E-04	9.78E-04	
4232	357000	3801250	4.61E-08	5.34E-08	2.97E-09	1.04E-03	1.10E-03	
4233	357250	3801250	4.81E-08	5.57E-08	3.10E-09	1.08E-03	1.26E-03	
4234	357500	3801250	5.03E-08	5.83E-08	3.24E-09	1.13E-03	1.39E-03	
4235	357750	3801250	5.29E-08	6.13E-08	3.41E-09	1.19E-03	1.52E-03	
4236	358000	3801250	5.61E-08	6.50E-08	3.61E-09	1.26E-03	1.61E-03	
4237	361500	3801250	2.51E-08	2.91E-08	1.62E-09	5.65E-04	1.49E-03	
4238	361750	3801250	2.45E-08	2.84E-08	1.58E-09	5.50E-04	1.27E-03	
4239	362000	3801250	2.41E-08	2.80E-08	1.56E-09	5.42E-04	1.32E-03	
4240	362250	3801250	2.41E-08	2.79E-08	1.55E-09	5.41E-04	1.34E-03	
4241	362500	3801250	2.42E-08	2.81E-08	1.56E-09	5.45E-04	1.28E-03	
4242	362750	3801250	2.46E-08	2.85E-08	1.58E-09	5.52E-04	1.16E-03	
4243	363000	3801250	2.42E-08	2.81E-08	1.56E-09	5.44E-04	1.02E-03	
4244	363250	3801250	2.45E-08	2.85E-08	1.58E-09	5.52E-04	9.50E-04	
4245	363500	3801250	2.54E-08	2.94E-08	1.63E-09	5.70E-04	9.88E-04	
4246	363750	3801250	2.51E-08	2.91E-08	1.62E-09	5.64E-04	9.86E-04	
4247	364000	3801250	2.39E-08	2.77E-08	1.54E-09	5.37E-04	9.40E-04	
4248	364250	3801250	2.35E-08	2.72E-08	1.51E-09	5.28E-04	8.54E-04	
4249	364500	3801250	2.31E-08	2.68E-08	1.49E-09	5.20E-04	8.36E-04	
4250	364750	3801250	2.27E-08	2.64E-08	1.47E-09	5.11E-04	6.52E-04	
4251	365000	3801250	2.23E-08	2.59E-08	1.44E-09	5.02E-04	6.12E-04	
4252	365250	3801250	2.19E-08	2.54E-08	1.41E-09	4.93E-04	6.80E-04	
4253	365500	3801250	2.15E-08	2.49E-08	1.39E-09	4.84E-04	6.99E-04	
4254	365750	3801250	2.11E-08	2.44E-08	1.36E-09	4.74E-04	6.69E-04	
4255	366000	3801250	2.07E-08	2.39E-08	1.33E-09	4.64E-04	6.43E-04	
4256	366250	3801250	2.02E-08	2.35E-08	1.30E-09	4.55E-04	6.09E-04	
4257	354000	3801500	2.93E-08	3.40E-08	1.89E-09	6.58E-04	5.42E-04	
4258	354250	3801500	3.05E-08	3.54E-08	1.97E-09	6.86E-04	5.47E-04	
4259	354500	3801500	3.18E-08	3.68E-08	2.05E-09	7.14E-04	5.54E-04	
4260	354750	3801500	3.31E-08	3.84E-08	2.13E-09	7.45E-04	5.64E-04	
4261	355000	3801500	3.46E-08	4.01E-08	2.23E-09	7.77E-04	5.71E-04	
4262	355250	3801500	3.61E-08	4.19E-08	2.33E-09	8.12E-04	6.31E-04	
4263	355500	3801500	3.78E-08	4.38E-08	2.43E-09	8.48E-04	6.57E-04	
4264	355750	3801500	3.95E-08	4.57E-08	2.54E-09	8.87E-04	7.32E-04	
4265	356000	3801500	4.13E-08	4.79E-08	2.66E-09	9.28E-04	7.90E-04	
4266	356250	3801500	4.32E-08	5.01E-08	2.78E-09	9.71E-04	8.71E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4267	356500	3801500	4.52E-08	5.24E-08	2.91E-09	1.02E-03	9.71E-04	
4268	356750	3801500	4.72E-08	5.48E-08	3.04E-09	1.06E-03	1.04E-03	
4269	357000	3801500	4.93E-08	5.71E-08	3.18E-09	1.11E-03	1.13E-03	
4270	357250	3801500	5.15E-08	5.97E-08	3.32E-09	1.16E-03	1.23E-03	
4271	357500	3801500	5.41E-08	6.26E-08	3.48E-09	1.21E-03	1.28E-03	
4272	357750	3801500	5.71E-08	6.61E-08	3.68E-09	1.28E-03	1.40E-03	
4273	358000	3801500	6.10E-08	7.06E-08	3.93E-09	1.37E-03	1.56E-03	
4274	358250	3801500	6.65E-08	7.70E-08	4.28E-09	1.49E-03	1.77E-03	
4275	361250	3801500	2.48E-08	2.88E-08	1.60E-09	5.58E-04	2.50E-03	
4276	361500	3801500	2.35E-08	2.72E-08	1.51E-09	5.28E-04	1.49E-03	
4277	361750	3801500	2.28E-08	2.64E-08	1.47E-09	5.12E-04	1.07E-03	
4278	362000	3801500	2.25E-08	2.60E-08	1.45E-09	5.05E-04	1.01E-03	
4279	362250	3801500	2.23E-08	2.59E-08	1.44E-09	5.02E-04	9.82E-04	
4280	362500	3801500	2.23E-08	2.59E-08	1.44E-09	5.02E-04	1.02E-03	
4281	362750	3801500	2.24E-08	2.59E-08	1.44E-09	5.03E-04	1.02E-03	
4282	363000	3801500	2.25E-08	2.60E-08	1.45E-09	5.05E-04	9.90E-04	
4283	363250	3801500	2.25E-08	2.60E-08	1.45E-09	5.05E-04	9.18E-04	
4284	363500	3801500	2.25E-08	2.60E-08	1.45E-09	5.05E-04	8.93E-04	
4285	363750	3801500	2.29E-08	2.66E-08	1.48E-09	5.15E-04	9.61E-04	
4286	364000	3801500	2.23E-08	2.59E-08	1.44E-09	5.02E-04	9.27E-04	
4287	364250	3801500	2.20E-08	2.54E-08	1.41E-09	4.93E-04	8.57E-04	
4288	364500	3801500	2.17E-08	2.51E-08	1.40E-09	4.87E-04	8.09E-04	
4289	364750	3801500	2.14E-08	2.48E-08	1.38E-09	4.80E-04	6.56E-04	
4290	365000	3801500	2.11E-08	2.44E-08	1.36E-09	4.73E-04	6.93E-04	
4291	365250	3801500	2.07E-08	2.40E-08	1.33E-09	4.65E-04	7.20E-04	
4292	365500	3801500	2.04E-08	2.36E-08	1.31E-09	4.58E-04	6.70E-04	
4293	365750	3801500	2.00E-08	2.32E-08	1.29E-09	4.50E-04	6.45E-04	
4294	366000	3801500	1.96E-08	2.28E-08	1.26E-09	4.41E-04	6.30E-04	
4295	354250	3801750	3.21E-08	3.72E-08	2.07E-09	7.21E-04	5.42E-04	
4296	354500	3801750	3.34E-08	3.87E-08	2.15E-09	7.51E-04	5.55E-04	
4297	354750	3801750	3.49E-08	4.04E-08	2.25E-09	7.83E-04	5.63E-04	
4298	355000	3801750	3.64E-08	4.22E-08	2.34E-09	8.18E-04	6.28E-04	
4299	355250	3801750	3.80E-08	4.40E-08	2.45E-09	8.54E-04	6.58E-04	
4300	355500	3801750	3.97E-08	4.60E-08	2.56E-09	8.92E-04	7.05E-04	
4301	355750	3801750	4.15E-08	4.81E-08	2.67E-09	9.32E-04	7.80E-04	
4302	356000	3801750	4.34E-08	5.02E-08	2.79E-09	9.74E-04	8.41E-04	
4303	356250	3801750	4.53E-08	5.25E-08	2.92E-09	1.02E-03	8.63E-04	
4304	356500	3801750	4.74E-08	5.49E-08	3.05E-09	1.07E-03	9.58E-04	
4305	356750	3801750	4.96E-08	5.74E-08	3.19E-09	1.11E-03	9.70E-04	
4306	357000	3801750	5.18E-08	6.00E-08	3.34E-09	1.16E-03	1.05E-03	
4307	357250	3801750	5.43E-08	6.29E-08	3.50E-09	1.22E-03	1.13E-03	
4308	357500	3801750	5.71E-08	6.62E-08	3.68E-09	1.28E-03	1.24E-03	
4309	357750	3801750	6.05E-08	7.01E-08	3.90E-09	1.36E-03	1.36E-03	
4310	358000	3801750	6.48E-08	7.51E-08	4.18E-09	1.46E-03	1.40E-03	
4311	358250	3801750	7.07E-08	8.19E-08	4.55E-09	1.59E-03	1.34E-03	
4312	358500	3801750	7.86E-08	9.11E-08	5.07E-09	1.77E-03	1.21E-03	
4313	358750	3801750	8.90E-08	1.03E-07	5.74E-09	2.00E-03	1.35E-03	
4314	359000	3801750	1.01E-07	1.17E-07	6.48E-09	2.26E-03	1.55E-03	
4315	359250	3801750	1.09E-07	1.27E-07	7.05E-09	2.46E-03	1.86E-03	
4316	359500	3801750	1.11E-07	1.28E-07	7.12E-09	2.48E-03	2.29E-03	
4317	359750	3801750	1.00E-07	1.16E-07	6.47E-09	2.26E-03	2.43E-03	
4318	360000	3801750	8.04E-08	9.32E-08	5.18E-09	1.81E-03	2.36E-03	
4319	360250	3801750	5.74E-08	6.65E-08	3.70E-09	1.29E-03	2.87E-03	Nonresidential
4320	360500	3801750	4.01E-08	4.65E-08	2.59E-09	9.02E-04	2.24E-03	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4321	360750	3801750	3.08E-08	3.56E-08	1.98E-09	6.91E-04	1.58E-03	
4322	361000	3801750	2.61E-08	3.03E-08	1.68E-09	5.87E-04	2.18E-03	
4323	361250	3801750	2.38E-08	2.76E-08	1.53E-09	5.34E-04	2.49E-03	
4324	361500	3801750	2.25E-08	2.60E-08	1.45E-09	5.05E-04	1.99E-03	
4325	361750	3801750	2.17E-08	2.51E-08	1.40E-09	4.87E-04	1.28E-03	
4326	362000	3801750	2.12E-08	2.46E-08	1.37E-09	4.77E-04	8.34E-04	
4327	362250	3801750	2.10E-08	2.43E-08	1.35E-09	4.72E-04	8.53E-04	
4328	362500	3801750	2.09E-08	2.42E-08	1.35E-09	4.70E-04	8.98E-04	
4329	362750	3801750	2.09E-08	2.42E-08	1.35E-09	4.70E-04	9.05E-04	
4330	363000	3801750	2.09E-08	2.43E-08	1.35E-09	4.70E-04	8.58E-04	
4331	363250	3801750	2.09E-08	2.43E-08	1.35E-09	4.70E-04	8.00E-04	
4332	363500	3801750	2.09E-08	2.42E-08	1.35E-09	4.70E-04	7.78E-04	
4333	363750	3801750	2.09E-08	2.42E-08	1.34E-09	4.69E-04	8.99E-04	
4334	364000	3801750	2.07E-08	2.40E-08	1.34E-09	4.66E-04	9.16E-04	
4335	364250	3801750	2.05E-08	2.38E-08	1.32E-09	4.62E-04	8.59E-04	
4336	364500	3801750	2.03E-08	2.36E-08	1.31E-09	4.57E-04	8.26E-04	
4337	364750	3801750	2.01E-08	2.33E-08	1.29E-09	4.51E-04	7.60E-04	
4338	365000	3801750	1.98E-08	2.30E-08	1.28E-09	4.46E-04	6.96E-04	
4339	365250	3801750	1.95E-08	2.27E-08	1.26E-09	4.39E-04	7.15E-04	
4340	365500	3801750	1.93E-08	2.23E-08	1.24E-09	4.33E-04	6.28E-04	
4341	365750	3801750	1.89E-08	2.20E-08	1.22E-09	4.26E-04	5.86E-04	
4342	354250	3802000	3.34E-08	3.87E-08	2.15E-09	7.51E-04	5.41E-04	
4343	354500	3802000	3.48E-08	4.04E-08	2.24E-09	7.83E-04	5.50E-04	
4344	354750	3802000	3.63E-08	4.21E-08	2.34E-09	8.16E-04	5.86E-04	
4345	355000	3802000	3.79E-08	4.39E-08	2.44E-09	8.51E-04	6.61E-04	
4346	355250	3802000	3.95E-08	4.58E-08	2.54E-09	8.88E-04	6.91E-04	
4347	355500	3802000	4.12E-08	4.78E-08	2.66E-09	9.26E-04	7.21E-04	
4348	355750	3802000	4.30E-08	4.99E-08	2.77E-09	9.67E-04	7.79E-04	
4349	356000	3802000	4.49E-08	5.21E-08	2.89E-09	1.01E-03	7.64E-04	
4350	356250	3802000	4.70E-08	5.44E-08	3.03E-09	1.06E-03	8.04E-04	
4351	356500	3802000	4.91E-08	5.69E-08	3.16E-09	1.10E-03	8.72E-04	
4352	356750	3802000	5.14E-08	5.96E-08	3.31E-09	1.16E-03	9.32E-04	
4353	357000	3802000	5.39E-08	6.24E-08	3.47E-09	1.21E-03	1.03E-03	
4354	357250	3802000	5.65E-08	6.55E-08	3.64E-09	1.27E-03	1.12E-03	
4355	357500	3802000	5.95E-08	6.90E-08	3.83E-09	1.34E-03	1.18E-03	
4356	357750	3802000	6.30E-08	7.31E-08	4.06E-09	1.42E-03	1.17E-03	
4357	358000	3802000	6.73E-08	7.80E-08	4.34E-09	1.51E-03	1.06E-03	
4358	358250	3802000	7.27E-08	8.43E-08	4.69E-09	1.63E-03	9.91E-04	
4359	358500	3802000	7.95E-08	9.22E-08	5.12E-09	1.79E-03	1.09E-03	
4360	358750	3802000	8.69E-08	1.01E-07	5.60E-09	1.95E-03	1.21E-03	
4361	359000	3802000	9.30E-08	1.08E-07	5.99E-09	2.09E-03	1.37E-03	
4362	359250	3802000	9.53E-08	1.10E-07	6.14E-09	2.14E-03	1.57E-03	
4363	359500	3802000	9.16E-08	1.06E-07	5.90E-09	2.06E-03	1.88E-03	
4364	359750	3802000	8.14E-08	9.43E-08	5.24E-09	1.83E-03	1.89E-03	
4365	360000	3802000	6.63E-08	7.69E-08	4.27E-09	1.49E-03	1.90E-03	
4366	360250	3802000	5.01E-08	5.81E-08	3.23E-09	1.13E-03	2.48E-03	
4367	360500	3802000	3.74E-08	4.33E-08	2.41E-09	8.39E-04	2.10E-03	
4368	360750	3802000	2.96E-08	3.43E-08	1.91E-09	6.65E-04	1.49E-03	
4369	361000	3802000	2.53E-08	2.93E-08	1.63E-09	5.68E-04	1.43E-03	
4370	361250	3802000	2.30E-08	2.66E-08	1.48E-09	5.17E-04	2.03E-03	
4371	361500	3802000	2.17E-08	2.51E-08	1.40E-09	4.88E-04	2.02E-03	
4372	361750	3802000	2.09E-08	2.42E-08	1.34E-09	4.69E-04	1.60E-03	
4373	362000	3802000	2.03E-08	2.36E-08	1.31E-09	4.57E-04	1.09E-03	
4374	362250	3802000	2.00E-08	2.32E-08	1.29E-09	4.49E-04	7.92E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4375	362500	3802000	1.98E-08	2.29E-08	1.28E-09	4.45E-04	7.97E-04	
4376	362750	3802000	1.97E-08	2.28E-08	1.27E-09	4.43E-04	7.93E-04	
4377	363000	3802000	1.96E-08	2.28E-08	1.27E-09	4.42E-04	8.22E-04	
4378	363250	3802000	1.96E-08	2.27E-08	1.26E-09	4.41E-04	8.05E-04	
4379	363500	3802000	1.96E-08	2.27E-08	1.26E-09	4.40E-04	7.70E-04	
4380	363750	3802000	1.95E-08	2.26E-08	1.26E-09	4.39E-04	7.94E-04	
4381	364000	3802000	1.94E-08	2.25E-08	1.25E-09	4.36E-04	8.20E-04	
4382	364250	3802000	1.93E-08	2.23E-08	1.24E-09	4.33E-04	8.51E-04	
4383	364500	3802000	1.91E-08	2.21E-08	1.23E-09	4.29E-04	8.19E-04	
4384	364750	3802000	1.89E-08	2.19E-08	1.22E-09	4.24E-04	7.71E-04	
4385	365000	3802000	1.87E-08	2.16E-08	1.20E-09	4.20E-04	7.28E-04	
4386	365250	3802000	1.84E-08	2.14E-08	1.19E-09	4.15E-04	7.12E-04	
4387	365500	3802000	1.82E-08	2.11E-08	1.17E-09	4.09E-04	6.51E-04	
4388	365750	3802000	1.80E-08	2.08E-08	1.16E-09	4.03E-04	5.51E-04	
4389	354250	3802250	3.46E-08	4.00E-08	2.23E-09	7.76E-04	5.51E-04	
4390	354500	3802250	3.60E-08	4.17E-08	2.32E-09	8.08E-04	5.81E-04	
4391	354750	3802250	3.75E-08	4.34E-08	2.41E-09	8.42E-04	5.78E-04	
4392	355000	3802250	3.90E-08	4.52E-08	2.51E-09	8.77E-04	6.02E-04	
4393	355250	3802250	4.07E-08	4.71E-08	2.62E-09	9.14E-04	6.67E-04	
4394	355500	3802250	4.24E-08	4.91E-08	2.73E-09	9.53E-04	6.41E-04	
4395	355750	3802250	4.42E-08	5.13E-08	2.85E-09	9.94E-04	6.86E-04	
4396	356000	3802250	4.62E-08	5.35E-08	2.98E-09	1.04E-03	7.80E-04	
4397	356250	3802250	4.83E-08	5.60E-08	3.11E-09	1.09E-03	7.79E-04	
4398	356500	3802250	5.05E-08	5.86E-08	3.26E-09	1.14E-03	8.60E-04	
4399	356750	3802250	5.30E-08	6.14E-08	3.41E-09	1.19E-03	9.38E-04	
4400	357000	3802250	5.55E-08	6.43E-08	3.58E-09	1.25E-03	9.95E-04	
4401	357250	3802250	5.82E-08	6.74E-08	3.75E-09	1.31E-03	1.01E-03	
4402	357500	3802250	6.11E-08	7.08E-08	3.93E-09	1.37E-03	9.79E-04	
4403	357750	3802250	6.43E-08	7.46E-08	4.15E-09	1.45E-03	9.05E-04	
4404	358000	3802250	6.83E-08	7.91E-08	4.40E-09	1.53E-03	9.63E-04	
4405	358250	3802250	7.29E-08	8.45E-08	4.70E-09	1.64E-03	1.07E-03	
4406	358500	3802250	7.79E-08	9.03E-08	5.02E-09	1.75E-03	9.94E-04	
4407	358750	3802250	8.21E-08	9.52E-08	5.29E-09	1.85E-03	1.07E-03	
4408	359000	3802250	8.43E-08	9.77E-08	5.43E-09	1.89E-03	1.25E-03	
4409	359250	3802250	8.30E-08	9.62E-08	5.35E-09	1.86E-03	1.52E-03	Residential
4410	359500	3802250	7.77E-08	9.00E-08	5.00E-09	1.75E-03	1.60E-03	
4411	359750	3802250	6.86E-08	7.95E-08	4.42E-09	1.54E-03	1.47E-03	
4412	360000	3802250	5.70E-08	6.61E-08	3.67E-09	1.28E-03	1.61E-03	
4413	360250	3802250	4.49E-08	5.21E-08	2.90E-09	1.01E-03	2.13E-03	
4414	360500	3802250	3.51E-08	4.07E-08	2.26E-09	7.88E-04	1.90E-03	
4415	360750	3802250	2.86E-08	3.31E-08	1.84E-09	6.42E-04	1.52E-03	
4416	361000	3802250	2.47E-08	2.86E-08	1.59E-09	5.54E-04	1.00E-03	
4417	361250	3802250	2.24E-08	2.59E-08	1.44E-09	5.03E-04	1.50E-03	
4418	361500	3802250	2.11E-08	2.44E-08	1.36E-09	4.74E-04	1.76E-03	
4419	361750	3802250	2.03E-08	2.35E-08	1.31E-09	4.55E-04	1.64E-03	
4420	362000	3802250	1.97E-08	2.28E-08	1.27E-09	4.42E-04	1.31E-03	
4421	362250	3802250	1.92E-08	2.23E-08	1.24E-09	4.32E-04	9.28E-04	
4422	362500	3802250	1.89E-08	2.20E-08	1.22E-09	4.26E-04	7.48E-04	
4423	362750	3802250	1.87E-08	2.17E-08	1.21E-09	4.21E-04	7.28E-04	
4424	363000	3802250	1.86E-08	2.16E-08	1.20E-09	4.18E-04	7.35E-04	
4425	363250	3802250	1.85E-08	2.15E-08	1.19E-09	4.16E-04	7.30E-04	
4426	363500	3802250	1.84E-08	2.14E-08	1.19E-09	4.14E-04	7.33E-04	
4427	363750	3802250	1.83E-08	2.13E-08	1.18E-09	4.12E-04	7.36E-04	
4428	364000	3802250	1.82E-08	2.11E-08	1.17E-09	4.10E-04	7.33E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4429	364250	3802250	1.81E-08	2.10E-08	1.17E-09	4.07E-04	7.86E-04	
4430	364500	3802250	1.79E-08	2.08E-08	1.16E-09	4.03E-04	7.74E-04	
4431	364750	3802250	1.78E-08	2.06E-08	1.15E-09	4.00E-04	7.59E-04	
4432	365000	3802250	1.76E-08	2.04E-08	1.14E-09	3.96E-04	6.78E-04	
4433	365250	3802250	1.74E-08	2.02E-08	1.12E-09	3.92E-04	6.65E-04	
4434	365500	3802250	1.72E-08	2.00E-08	1.11E-09	3.87E-04	5.88E-04	
4435	354500	3802500	3.69E-08	4.27E-08	2.38E-09	8.29E-04	5.45E-04	
4436	354750	3802500	3.84E-08	4.45E-08	2.47E-09	8.62E-04	5.53E-04	
4437	355000	3802500	3.99E-08	4.63E-08	2.57E-09	8.97E-04	5.59E-04	
4438	355250	3802500	4.16E-08	4.82E-08	2.68E-09	9.35E-04	5.92E-04	
4439	355500	3802500	4.34E-08	5.03E-08	2.79E-09	9.75E-04	6.29E-04	
4440	355750	3802500	4.53E-08	5.25E-08	2.92E-09	1.02E-03	6.71E-04	
4441	356000	3802500	4.73E-08	5.48E-08	3.05E-09	1.06E-03	7.69E-04	
4442	356250	3802500	4.94E-08	5.73E-08	3.18E-09	1.11E-03	8.51E-04	
4443	356500	3802500	5.17E-08	5.99E-08	3.33E-09	1.16E-03	9.03E-04	
4444	356750	3802500	5.41E-08	6.27E-08	3.48E-09	1.22E-03	9.02E-04	
4445	357000	3802500	5.65E-08	6.55E-08	3.64E-09	1.27E-03	8.67E-04	
4446	357250	3802500	5.90E-08	6.84E-08	3.80E-09	1.33E-03	8.61E-04	
4447	357500	3802500	6.16E-08	7.14E-08	3.97E-09	1.39E-03	8.56E-04	
4448	357750	3802500	6.46E-08	7.49E-08	4.16E-09	1.45E-03	9.32E-04	
4449	358000	3802500	6.80E-08	7.88E-08	4.38E-09	1.53E-03	1.02E-03	
4450	358250	3802500	7.15E-08	8.29E-08	4.61E-09	1.61E-03	9.75E-04	
4451	358500	3802500	7.46E-08	8.64E-08	4.80E-09	1.68E-03	1.06E-03	
4452	358750	3802500	7.63E-08	8.85E-08	4.92E-09	1.72E-03	1.03E-03	
4453	359000	3802500	7.60E-08	8.80E-08	4.89E-09	1.71E-03	1.14E-03	
4454	359250	3802500	7.30E-08	8.46E-08	4.70E-09	1.64E-03	1.41E-03	
4455	359500	3802500	6.74E-08	7.81E-08	4.34E-09	1.51E-03	1.48E-03	
4456	359750	3802500	5.97E-08	6.91E-08	3.84E-09	1.34E-03	1.27E-03	
4457	360000	3802500	5.05E-08	5.85E-08	3.25E-09	1.13E-03	1.42E-03	
4458	360250	3802500	4.11E-08	4.76E-08	2.65E-09	9.23E-04	1.84E-03	
4459	360500	3802500	3.32E-08	3.85E-08	2.14E-09	7.46E-04	1.70E-03	
4460	360750	3802500	2.77E-08	3.21E-08	1.78E-09	6.22E-04	1.46E-03	
4461	361000	3802500	2.41E-08	2.80E-08	1.55E-09	5.42E-04	9.74E-04	
4462	361250	3802500	2.19E-08	2.54E-08	1.41E-09	4.92E-04	1.06E-03	
4463	361500	3802500	2.05E-08	2.38E-08	1.32E-09	4.61E-04	1.41E-03	
4464	361750	3802500	1.97E-08	2.28E-08	1.27E-09	4.43E-04	1.50E-03	
4465	362000	3802500	1.91E-08	2.22E-08	1.23E-09	4.30E-04	1.35E-03	
4466	362250	3802500	1.87E-08	2.16E-08	1.20E-09	4.19E-04	1.08E-03	
4467	362500	3802500	1.83E-08	2.12E-08	1.18E-09	4.11E-04	8.00E-04	
4468	362750	3802500	1.80E-08	2.08E-08	1.16E-09	4.04E-04	6.96E-04	
4469	363000	3802500	1.78E-08	2.06E-08	1.15E-09	3.99E-04	6.81E-04	
4470	363250	3802500	1.76E-08	2.04E-08	1.14E-09	3.96E-04	6.74E-04	
4471	363500	3802500	1.75E-08	2.03E-08	1.13E-09	3.93E-04	6.59E-04	
4472	363750	3802500	1.73E-08	2.01E-08	1.12E-09	3.90E-04	6.62E-04	
4473	364000	3802500	1.72E-08	2.00E-08	1.11E-09	3.87E-04	7.45E-04	
4474	364250	3802500	1.71E-08	1.98E-08	1.10E-09	3.84E-04	6.43E-04	
4475	364500	3802500	1.69E-08	1.96E-08	1.09E-09	3.81E-04	7.47E-04	
4476	364750	3802500	1.68E-08	1.95E-08	1.08E-09	3.78E-04	7.42E-04	
4477	365000	3802500	1.67E-08	1.93E-08	1.07E-09	3.74E-04	7.05E-04	
4478	365250	3802500	1.65E-08	1.91E-08	1.06E-09	3.70E-04	6.53E-04	
4479	354500	3802750	3.76E-08	4.36E-08	2.42E-09	8.45E-04	5.37E-04	
4480	354750	3802750	3.91E-08	4.53E-08	2.52E-09	8.79E-04	5.43E-04	
4481	355000	3802750	4.07E-08	4.72E-08	2.62E-09	9.15E-04	5.56E-04	
4482	355250	3802750	4.24E-08	4.92E-08	2.73E-09	9.53E-04	6.20E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4483	355500	3802750	4.42E-08	5.13E-08	2.85E-09	9.94E-04	7.03E-04	
4484	355750	3802750	4.61E-08	5.35E-08	2.97E-09	1.04E-03	7.77E-04	
4485	356000	3802750	4.82E-08	5.58E-08	3.10E-09	1.08E-03	8.30E-04	
4486	356250	3802750	5.03E-08	5.83E-08	3.24E-09	1.13E-03	8.48E-04	
4487	356500	3802750	5.24E-08	6.08E-08	3.38E-09	1.18E-03	8.19E-04	
4488	356750	3802750	5.46E-08	6.33E-08	3.52E-09	1.23E-03	7.84E-04	
4489	357000	3802750	5.68E-08	6.59E-08	3.66E-09	1.28E-03	8.09E-04	
4490	357250	3802750	5.91E-08	6.85E-08	3.81E-09	1.33E-03	8.16E-04	
4491	357500	3802750	6.15E-08	7.13E-08	3.96E-09	1.38E-03	8.87E-04	
4492	357750	3802750	6.41E-08	7.42E-08	4.13E-09	1.44E-03	9.62E-04	
4493	358000	3802750	6.67E-08	7.73E-08	4.30E-09	1.50E-03	9.39E-04	
4494	358250	3802750	6.90E-08	7.99E-08	4.44E-09	1.55E-03	1.04E-03	
4495	358500	3802750	7.04E-08	8.16E-08	4.54E-09	1.58E-03	9.46E-04	
4496	358750	3802750	7.04E-08	8.16E-08	4.54E-09	1.58E-03	8.96E-04	
4497	359000	3802750	6.87E-08	7.96E-08	4.42E-09	1.54E-03	1.09E-03	
4498	359250	3802750	6.50E-08	7.54E-08	4.19E-09	1.46E-03	1.47E-03	
4499	359500	3802750	5.97E-08	6.92E-08	3.85E-09	1.34E-03	1.26E-03	
4500	359750	3802750	5.31E-08	6.16E-08	3.42E-09	1.19E-03	1.09E-03	
4501	360000	3802750	4.57E-08	5.29E-08	2.94E-09	1.03E-03	1.28E-03	
4502	360250	3802750	3.81E-08	4.41E-08	2.45E-09	8.56E-04	1.59E-03	
4503	360500	3802750	3.16E-08	3.66E-08	2.04E-09	7.10E-04	1.52E-03	
4504	360750	3802750	2.69E-08	3.12E-08	1.73E-09	6.04E-04	1.36E-03	
4505	361000	3802750	2.36E-08	2.74E-08	1.52E-09	5.31E-04	1.01E-03	
4506	361250	3802750	2.15E-08	2.49E-08	1.38E-09	4.82E-04	8.05E-04	
4507	361500	3802750	2.01E-08	2.32E-08	1.29E-09	4.51E-04	1.08E-03	
4508	361750	3802750	1.92E-08	2.22E-08	1.24E-09	4.31E-04	1.27E-03	
4509	362000	3802750	1.86E-08	2.16E-08	1.20E-09	4.18E-04	1.27E-03	
4510	362250	3802750	1.81E-08	2.10E-08	1.17E-09	4.08E-04	1.13E-03	
4511	362500	3802750	1.77E-08	2.05E-08	1.14E-09	3.98E-04	9.16E-04	
4512	362750	3802750	1.74E-08	2.02E-08	1.12E-09	3.91E-04	6.95E-04	
4513	363000	3802750	1.71E-08	1.98E-08	1.10E-09	3.84E-04	6.43E-04	
4514	363250	3802750	1.69E-08	1.96E-08	1.09E-09	3.79E-04	6.35E-04	
4515	363500	3802750	1.67E-08	1.93E-08	1.07E-09	3.75E-04	6.33E-04	
4516	363750	3802750	1.65E-08	1.91E-08	1.06E-09	3.71E-04	6.12E-04	
4517	364000	3802750	1.64E-08	1.90E-08	1.05E-09	3.68E-04	6.28E-04	
4518	364250	3802750	1.62E-08	1.88E-08	1.04E-09	3.64E-04	6.69E-04	
4519	364500	3802750	1.61E-08	1.86E-08	1.04E-09	3.61E-04	6.49E-04	
4520	364750	3802750	1.59E-08	1.85E-08	1.03E-09	3.58E-04	7.26E-04	
4521	365000	3802750	1.58E-08	1.83E-08	1.02E-09	3.55E-04	6.95E-04	
4522	365250	3802750	1.56E-08	1.81E-08	1.01E-09	3.51E-04	6.66E-04	
4523	354750	3803000	3.98E-08	4.61E-08	2.56E-09	8.94E-04	5.72E-04	
4524	355000	3803000	4.14E-08	4.80E-08	2.67E-09	9.31E-04	6.43E-04	
4525	355250	3803000	4.31E-08	5.00E-08	2.78E-09	9.69E-04	7.08E-04	
4526	355500	3803000	4.49E-08	5.21E-08	2.89E-09	1.01E-03	7.59E-04	
4527	355750	3803000	4.68E-08	5.42E-08	3.02E-09	1.05E-03	7.86E-04	
4528	356000	3803000	4.87E-08	5.65E-08	3.14E-09	1.10E-03	7.80E-04	
4529	356250	3803000	5.07E-08	5.88E-08	3.27E-09	1.14E-03	7.63E-04	
4530	356500	3803000	5.27E-08	6.11E-08	3.39E-09	1.18E-03	7.48E-04	
4531	356750	3803000	5.47E-08	6.33E-08	3.52E-09	1.23E-03	7.62E-04	
4532	357000	3803000	5.66E-08	6.56E-08	3.65E-09	1.27E-03	7.70E-04	
4533	357250	3803000	5.87E-08	6.80E-08	3.78E-09	1.32E-03	8.36E-04	
4534	357500	3803000	6.07E-08	7.04E-08	3.91E-09	1.36E-03	8.99E-04	
4535	357750	3803000	6.28E-08	7.28E-08	4.05E-09	1.41E-03	8.95E-04	
4536	358000	3803000	6.46E-08	7.49E-08	4.16E-09	1.45E-03	9.94E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4537	358250	3803000	6.58E-08	7.62E-08	4.24E-09	1.48E-03	9.68E-04	
4538	358500	3803000	6.59E-08	7.64E-08	4.25E-09	1.48E-03	8.54E-04	
4539	358750	3803000	6.49E-08	7.52E-08	4.18E-09	1.46E-03	9.11E-04	
4540	359000	3803000	6.24E-08	7.23E-08	4.02E-09	1.40E-03	1.20E-03	
4541	359250	3803000	5.87E-08	6.80E-08	3.78E-09	1.32E-03	1.38E-03	
4542	359500	3803000	5.38E-08	6.24E-08	3.47E-09	1.21E-03	1.04E-03	
4543	359750	3803000	4.82E-08	5.59E-08	3.11E-09	1.08E-03	9.73E-04	
4544	360000	3803000	4.20E-08	4.87E-08	2.70E-09	9.43E-04	1.15E-03	
4545	360250	3803000	3.57E-08	4.13E-08	2.30E-09	8.01E-04	1.40E-03	
4546	360500	3803000	3.02E-08	3.50E-08	1.95E-09	6.79E-04	1.36E-03	
4547	360750	3803000	2.61E-08	3.02E-08	1.68E-09	5.86E-04	1.24E-03	
4548	361000	3803000	2.31E-08	2.68E-08	1.49E-09	5.20E-04	9.99E-04	
4549	361250	3803000	2.11E-08	2.44E-08	1.36E-09	4.74E-04	7.67E-04	
4550	361500	3803000	1.97E-08	2.28E-08	1.27E-09	4.42E-04	8.01E-04	
4551	361750	3803000	1.87E-08	2.17E-08	1.21E-09	4.21E-04	1.03E-03	
4552	362000	3803000	1.81E-08	2.10E-08	1.17E-09	4.07E-04	1.12E-03	
4553	362250	3803000	1.76E-08	2.05E-08	1.14E-09	3.97E-04	1.09E-03	
4554	362500	3803000	1.72E-08	2.00E-08	1.11E-09	3.88E-04	9.57E-04	
4555	362750	3803000	1.69E-08	1.96E-08	1.09E-09	3.79E-04	7.85E-04	
4556	363000	3803000	1.65E-08	1.92E-08	1.07E-09	3.72E-04	6.46E-04	
4557	363250	3803000	1.63E-08	1.89E-08	1.05E-09	3.66E-04	6.19E-04	
4558	363500	3803000	1.60E-08	1.86E-08	1.03E-09	3.60E-04	6.03E-04	
4559	363750	3803000	1.58E-08	1.83E-08	1.02E-09	3.56E-04	6.12E-04	
4560	364000	3803000	1.56E-08	1.81E-08	1.01E-09	3.51E-04	5.97E-04	
4561	364250	3803000	1.55E-08	1.79E-08	9.96E-10	3.47E-04	5.98E-04	
4562	364500	3803000	1.53E-08	1.77E-08	9.86E-10	3.44E-04	6.45E-04	
4563	364750	3803000	1.52E-08	1.76E-08	9.77E-10	3.41E-04	6.87E-04	
4564	365000	3803000	1.50E-08	1.74E-08	9.68E-10	3.38E-04	6.85E-04	
4565	354750	3803250	4.04E-08	4.68E-08	2.60E-09	9.07E-04	6.45E-04	
4566	355000	3803250	4.20E-08	4.87E-08	2.71E-09	9.44E-04	6.92E-04	
4567	355250	3803250	4.37E-08	5.06E-08	2.81E-09	9.82E-04	7.23E-04	
4568	355500	3803250	4.54E-08	5.26E-08	2.93E-09	1.02E-03	7.30E-04	
4569	355750	3803250	4.72E-08	5.47E-08	3.04E-09	1.06E-03	7.25E-04	
4570	356000	3803250	4.90E-08	5.67E-08	3.15E-09	1.10E-03	7.24E-04	
4571	356250	3803250	5.07E-08	5.88E-08	3.27E-09	1.14E-03	7.11E-04	
4572	356500	3803250	5.25E-08	6.08E-08	3.38E-09	1.18E-03	7.18E-04	
4573	356750	3803250	5.42E-08	6.29E-08	3.49E-09	1.22E-03	7.35E-04	
4574	357000	3803250	5.60E-08	6.49E-08	3.61E-09	1.26E-03	7.84E-04	
4575	357250	3803250	5.78E-08	6.70E-08	3.72E-09	1.30E-03	8.37E-04	
4576	357500	3803250	5.95E-08	6.90E-08	3.83E-09	1.34E-03	8.46E-04	
4577	357750	3803250	6.10E-08	7.07E-08	3.93E-09	1.37E-03	9.39E-04	
4578	358000	3803250	6.20E-08	7.19E-08	3.99E-09	1.39E-03	9.55E-04	
4579	358250	3803250	6.23E-08	7.22E-08	4.01E-09	1.40E-03	8.34E-04	
4580	358500	3803250	6.16E-08	7.14E-08	3.97E-09	1.38E-03	8.10E-04	
4581	358750	3803250	5.99E-08	6.94E-08	3.86E-09	1.35E-03	9.30E-04	
4582	359000	3803250	5.71E-08	6.62E-08	3.68E-09	1.28E-03	1.24E-03	
4583	359250	3803250	5.35E-08	6.20E-08	3.45E-09	1.20E-03	1.23E-03	
4584	359500	3803250	4.92E-08	5.70E-08	3.17E-09	1.11E-03	9.17E-04	
4585	359750	3803250	4.43E-08	5.14E-08	2.86E-09	9.97E-04	9.38E-04	
4586	360000	3803250	3.90E-08	4.52E-08	2.51E-09	8.77E-04	1.04E-03	
4587	360250	3803250	3.37E-08	3.90E-08	2.17E-09	7.56E-04	1.23E-03	
4588	360500	3803250	2.90E-08	3.36E-08	1.87E-09	6.51E-04	1.22E-03	
4589	360750	3803250	2.53E-08	2.93E-08	1.63E-09	5.69E-04	1.13E-03	
4590	361000	3803250	2.26E-08	2.62E-08	1.46E-09	5.09E-04	9.62E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4591	361250	3803250	2.07E-08	2.40E-08	1.33E-09	4.65E-04	7.28E-04	
4592	361500	3803250	1.93E-08	2.23E-08	1.24E-09	4.33E-04	7.60E-04	
4593	361750	3803250	1.83E-08	2.12E-08	1.18E-09	4.11E-04	8.08E-04	
4594	362000	3803250	1.77E-08	2.05E-08	1.14E-09	3.97E-04	9.48E-04	
4595	362250	3803250	1.72E-08	1.99E-08	1.11E-09	3.86E-04	9.87E-04	
4596	362500	3803250	1.68E-08	1.94E-08	1.08E-09	3.77E-04	9.34E-04	
4597	362750	3803250	1.64E-08	1.90E-08	1.06E-09	3.69E-04	8.21E-04	
4598	363000	3803250	1.61E-08	1.86E-08	1.03E-09	3.61E-04	6.81E-04	
4599	363250	3803250	1.57E-08	1.82E-08	1.01E-09	3.54E-04	6.20E-04	
4600	363500	3803250	1.55E-08	1.79E-08	9.97E-10	3.48E-04	5.98E-04	
4601	363750	3803250	1.52E-08	1.76E-08	9.81E-10	3.42E-04	5.86E-04	
4602	364000	3803250	1.50E-08	1.74E-08	9.67E-10	3.37E-04	5.89E-04	
4603	364250	3803250	1.48E-08	1.72E-08	9.55E-10	3.33E-04	6.10E-04	
4604	364500	3803250	1.47E-08	1.70E-08	9.44E-10	3.29E-04	6.56E-04	
4605	364750	3803250	1.45E-08	1.68E-08	9.34E-10	3.26E-04	6.74E-04	
4606	355000	3803500	4.24E-08	4.92E-08	2.73E-09	9.54E-04	6.78E-04	
4607	355250	3803500	4.40E-08	5.10E-08	2.84E-09	9.89E-04	6.79E-04	
4608	355500	3803500	4.56E-08	5.29E-08	2.94E-09	1.03E-03	6.95E-04	
4609	355750	3803500	4.72E-08	5.47E-08	3.04E-09	1.06E-03	6.81E-04	
4610	356000	3803500	4.88E-08	5.66E-08	3.14E-09	1.10E-03	6.89E-04	
4611	356250	3803500	5.04E-08	5.84E-08	3.24E-09	1.13E-03	6.91E-04	
4612	356500	3803500	5.19E-08	6.02E-08	3.35E-09	1.17E-03	7.19E-04	
4613	356750	3803500	5.35E-08	6.20E-08	3.45E-09	1.20E-03	7.43E-04	
4614	357000	3803500	5.51E-08	6.39E-08	3.55E-09	1.24E-03	7.79E-04	
4615	357250	3803500	5.66E-08	6.56E-08	3.65E-09	1.27E-03	7.97E-04	
4616	357500	3803500	5.79E-08	6.71E-08	3.73E-09	1.30E-03	8.80E-04	
4617	357750	3803500	5.88E-08	6.81E-08	3.79E-09	1.32E-03	9.22E-04	
4618	358000	3803500	5.91E-08	6.85E-08	3.81E-09	1.33E-03	8.55E-04	
4619	358250	3803500	5.87E-08	6.80E-08	3.78E-09	1.32E-03	7.69E-04	
4620	358500	3803500	5.75E-08	6.66E-08	3.70E-09	1.29E-03	8.45E-04	
4621	358750	3803500	5.54E-08	6.42E-08	3.57E-09	1.25E-03	1.00E-03	
4622	359000	3803500	5.27E-08	6.10E-08	3.39E-09	1.18E-03	1.19E-03	
4623	359250	3803500	4.93E-08	5.71E-08	3.18E-09	1.11E-03	1.06E-03	
4624	359500	3803500	4.55E-08	5.27E-08	2.93E-09	1.02E-03	8.47E-04	
4625	359750	3803500	4.12E-08	4.78E-08	2.65E-09	9.26E-04	9.00E-04	
4626	360000	3803500	3.66E-08	4.24E-08	2.36E-09	8.22E-04	9.53E-04	
4627	360250	3803500	3.19E-08	3.70E-08	2.06E-09	7.18E-04	1.10E-03	
4628	360500	3803500	2.78E-08	3.22E-08	1.79E-09	6.25E-04	1.09E-03	
4629	360750	3803500	2.46E-08	2.85E-08	1.58E-09	5.52E-04	1.02E-03	
4630	361000	3803500	2.21E-08	2.56E-08	1.43E-09	4.97E-04	9.10E-04	
4631	361250	3803500	2.03E-08	2.35E-08	1.31E-09	4.56E-04	7.11E-04	
4632	361500	3803500	1.89E-08	2.19E-08	1.22E-09	4.25E-04	7.24E-04	
4633	361750	3803500	1.79E-08	2.08E-08	1.15E-09	4.02E-04	7.07E-04	
4634	362000	3803500	1.72E-08	1.99E-08	1.11E-09	3.87E-04	7.80E-04	
4635	362250	3803500	1.67E-08	1.94E-08	1.08E-09	3.75E-04	8.63E-04	
4636	362500	3803500	1.63E-08	1.89E-08	1.05E-09	3.66E-04	8.68E-04	
4637	362750	3803500	1.59E-08	1.85E-08	1.03E-09	3.58E-04	8.11E-04	
4638	363000	3803500	1.56E-08	1.81E-08	1.00E-09	3.50E-04	7.12E-04	
4639	363250	3803500	1.53E-08	1.77E-08	9.84E-10	3.43E-04	5.98E-04	
4640	363500	3803500	1.50E-08	1.74E-08	9.66E-10	3.37E-04	5.95E-04	
4641	363750	3803500	1.47E-08	1.71E-08	9.49E-10	3.31E-04	5.83E-04	
4642	364000	3803500	1.45E-08	1.68E-08	9.34E-10	3.26E-04	5.78E-04	
4643	364250	3803500	1.43E-08	1.65E-08	9.20E-10	3.21E-04	5.71E-04	
4644	364500	3803500	1.41E-08	1.63E-08	9.08E-10	3.17E-04	5.80E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4645	364750	3803500	1.39E-08	1.61E-08	8.97E-10	3.13E-04	6.22E-04	
4646	355000	3803750	4.26E-08	4.94E-08	2.75E-09	9.58E-04	6.56E-04	
4647	355250	3803750	4.41E-08	5.11E-08	2.84E-09	9.91E-04	6.59E-04	
4648	355500	3803750	4.55E-08	5.28E-08	2.93E-09	1.02E-03	6.60E-04	
4649	355750	3803750	4.70E-08	5.44E-08	3.03E-09	1.06E-03	6.62E-04	
4650	356000	3803750	4.84E-08	5.61E-08	3.12E-09	1.09E-03	6.79E-04	
4651	356250	3803750	4.98E-08	5.77E-08	3.21E-09	1.12E-03	6.98E-04	
4652	356500	3803750	5.12E-08	5.93E-08	3.30E-09	1.15E-03	7.25E-04	
4653	356750	3803750	5.26E-08	6.10E-08	3.39E-09	1.18E-03	7.25E-04	
4654	357000	3803750	5.39E-08	6.25E-08	3.47E-09	1.21E-03	7.49E-04	
4655	357250	3803750	5.51E-08	6.39E-08	3.55E-09	1.24E-03	8.21E-04	
4656	357500	3803750	5.60E-08	6.49E-08	3.61E-09	1.26E-03	8.79E-04	
4657	357750	3803750	5.63E-08	6.53E-08	3.63E-09	1.27E-03	8.49E-04	
4658	358000	3803750	5.61E-08	6.50E-08	3.61E-09	1.26E-03	7.71E-04	
4659	358250	3803750	5.52E-08	6.40E-08	3.56E-09	1.24E-03	7.50E-04	
4660	358500	3803750	5.37E-08	6.22E-08	3.46E-09	1.21E-03	8.43E-04	
4661	358750	3803750	5.15E-08	5.97E-08	3.32E-09	1.16E-03	1.03E-03	
4662	359000	3803750	4.89E-08	5.66E-08	3.15E-09	1.10E-03	1.09E-03	
4663	359250	3803750	4.58E-08	5.31E-08	2.95E-09	1.03E-03	8.88E-04	
4664	359500	3803750	4.24E-08	4.91E-08	2.73E-09	9.52E-04	8.43E-04	
4665	359750	3803750	3.86E-08	4.47E-08	2.49E-09	8.67E-04	8.63E-04	
4666	360000	3803750	3.45E-08	4.00E-08	2.22E-09	7.75E-04	9.05E-04	
4667	360250	3803750	3.04E-08	3.52E-08	1.96E-09	6.83E-04	9.82E-04	
4668	360500	3803750	2.68E-08	3.10E-08	1.72E-09	6.01E-04	9.84E-04	
4669	360750	3803750	2.38E-08	2.76E-08	1.54E-09	5.36E-04	9.24E-04	
4670	361000	3803750	2.16E-08	2.50E-08	1.39E-09	4.85E-04	8.53E-04	
4671	361250	3803750	1.99E-08	2.30E-08	1.28E-09	4.46E-04	6.96E-04	
4672	361500	3803750	1.85E-08	2.15E-08	1.19E-09	4.17E-04	6.72E-04	
4673	361750	3803750	1.75E-08	2.03E-08	1.13E-09	3.94E-04	6.95E-04	
4674	362000	3803750	1.68E-08	1.95E-08	1.08E-09	3.77E-04	6.38E-04	
4675	362250	3803750	1.62E-08	1.88E-08	1.05E-09	3.65E-04	7.34E-04	
4676	362500	3803750	1.58E-08	1.84E-08	1.02E-09	3.56E-04	7.79E-04	
4677	362750	3803750	1.55E-08	1.79E-08	9.97E-10	3.48E-04	7.67E-04	
4678	363000	3803750	1.52E-08	1.76E-08	9.77E-10	3.41E-04	7.09E-04	
4679	363250	3803750	1.49E-08	1.72E-08	9.57E-10	3.34E-04	6.24E-04	
4680	363500	3803750	1.46E-08	1.69E-08	9.38E-10	3.27E-04	5.81E-04	
4681	363750	3803750	1.43E-08	1.66E-08	9.21E-10	3.21E-04	5.82E-04	
4682	364000	3803750	1.40E-08	1.63E-08	9.05E-10	3.16E-04	5.75E-04	
4683	364250	3803750	1.38E-08	1.60E-08	8.90E-10	3.10E-04	5.68E-04	
4684	364500	3803750	1.36E-08	1.58E-08	8.77E-10	3.06E-04	5.63E-04	
4685	355250	3804000	4.39E-08	5.09E-08	2.83E-09	9.87E-04	6.39E-04	
4686	355500	3804000	4.52E-08	5.24E-08	2.91E-09	1.02E-03	6.36E-04	
4687	355750	3804000	4.65E-08	5.39E-08	3.00E-09	1.04E-03	6.63E-04	
4688	356000	3804000	4.78E-08	5.54E-08	3.08E-09	1.07E-03	6.74E-04	
4689	356250	3804000	4.90E-08	5.68E-08	3.16E-09	1.10E-03	7.03E-04	
4690	356500	3804000	5.03E-08	5.83E-08	3.24E-09	1.13E-03	7.01E-04	
4691	356750	3804000	5.15E-08	5.97E-08	3.32E-09	1.16E-03	7.17E-04	
4692	357000	3804000	5.25E-08	6.09E-08	3.38E-09	1.18E-03	7.65E-04	
4693	357250	3804000	5.34E-08	6.18E-08	3.44E-09	1.20E-03	8.30E-04	
4694	357500	3804000	5.38E-08	6.23E-08	3.46E-09	1.21E-03	8.26E-04	
4695	357750	3804000	5.37E-08	6.23E-08	3.46E-09	1.21E-03	7.69E-04	
4696	358000	3804000	5.31E-08	6.16E-08	3.42E-09	1.19E-03	7.41E-04	
4697	358250	3804000	5.20E-08	6.02E-08	3.35E-09	1.17E-03	7.69E-04	
4698	358500	3804000	5.03E-08	5.83E-08	3.24E-09	1.13E-03	8.44E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4699	358750	3804000	4.81E-08	5.58E-08	3.10E-09	1.08E-03	9.98E-04	
4700	359000	3804000	4.56E-08	5.29E-08	2.94E-09	1.02E-03	9.70E-04	
4701	359250	3804000	4.28E-08	4.96E-08	2.76E-09	9.61E-04	7.82E-04	
4702	359500	3804000	3.97E-08	4.60E-08	2.56E-09	8.92E-04	8.26E-04	
4703	359750	3804000	3.63E-08	4.21E-08	2.34E-09	8.17E-04	8.27E-04	
4704	360000	3804000	3.27E-08	3.79E-08	2.11E-09	7.35E-04	8.60E-04	
4705	360250	3804000	2.91E-08	3.37E-08	1.87E-09	6.53E-04	8.85E-04	
4706	360500	3804000	2.58E-08	2.99E-08	1.66E-09	5.79E-04	8.92E-04	
4707	360750	3804000	2.31E-08	2.68E-08	1.49E-09	5.20E-04	8.38E-04	
4708	361000	3804000	2.11E-08	2.44E-08	1.36E-09	4.73E-04	7.94E-04	
4709	361250	3804000	1.94E-08	2.25E-08	1.25E-09	4.37E-04	6.75E-04	
4710	361500	3804000	1.82E-08	2.10E-08	1.17E-09	4.08E-04	6.40E-04	
4711	361750	3804000	1.71E-08	1.99E-08	1.10E-09	3.85E-04	6.64E-04	
4712	362000	3804000	1.64E-08	1.90E-08	1.06E-09	3.68E-04	6.40E-04	
4713	362250	3804000	1.58E-08	1.83E-08	1.02E-09	3.56E-04	6.13E-04	
4714	362500	3804000	1.54E-08	1.78E-08	9.92E-10	3.46E-04	6.81E-04	
4715	362750	3804000	1.50E-08	1.74E-08	9.69E-10	3.38E-04	7.02E-04	
4716	363000	3804000	1.47E-08	1.71E-08	9.50E-10	3.31E-04	6.80E-04	
4717	363250	3804000	1.44E-08	1.67E-08	9.31E-10	3.25E-04	6.26E-04	
4718	363500	3804000	1.42E-08	1.64E-08	9.12E-10	3.18E-04	5.79E-04	
4719	363750	3804000	1.39E-08	1.61E-08	8.94E-10	3.12E-04	5.73E-04	
4720	364000	3804000	1.36E-08	1.58E-08	8.78E-10	3.06E-04	5.73E-04	
4721	364250	3804000	1.34E-08	1.55E-08	8.63E-10	3.01E-04	5.65E-04	
4722	355500	3804250	4.47E-08	5.18E-08	2.88E-09	1.00E-03	6.44E-04	
4723	355750	3804250	4.59E-08	5.32E-08	2.96E-09	1.03E-03	6.49E-04	
4724	356000	3804250	4.70E-08	5.45E-08	3.03E-09	1.06E-03	6.80E-04	
4725	356250	3804250	4.82E-08	5.58E-08	3.10E-09	1.08E-03	6.77E-04	
4726	356500	3804250	4.92E-08	5.71E-08	3.17E-09	1.11E-03	6.87E-04	
4727	356750	3804250	5.02E-08	5.82E-08	3.23E-09	1.13E-03	7.12E-04	
4728	357000	3804250	5.09E-08	5.90E-08	3.28E-09	1.14E-03	7.81E-04	
4729	357250	3804250	5.14E-08	5.96E-08	3.31E-09	1.16E-03	7.93E-04	
4730	357500	3804250	5.15E-08	5.97E-08	3.32E-09	1.16E-03	7.71E-04	
4731	357750	3804250	5.11E-08	5.92E-08	3.29E-09	1.15E-03	7.45E-04	
4732	358000	3804250	5.02E-08	5.82E-08	3.24E-09	1.13E-03	7.29E-04	
4733	358250	3804250	4.89E-08	5.67E-08	3.15E-09	1.10E-03	7.59E-04	
4734	358500	3804250	4.72E-08	5.47E-08	3.04E-09	1.06E-03	8.49E-04	
4735	358750	3804250	4.51E-08	5.23E-08	2.91E-09	1.01E-03	9.36E-04	
4736	359000	3804250	4.28E-08	4.96E-08	2.76E-09	9.61E-04	8.46E-04	
4737	359250	3804250	4.02E-08	4.66E-08	2.59E-09	9.03E-04	7.49E-04	
4738	359500	3804250	3.74E-08	4.34E-08	2.41E-09	8.41E-04	8.00E-04	
4739	359750	3804250	3.44E-08	3.98E-08	2.21E-09	7.72E-04	7.92E-04	
4740	360000	3804250	3.11E-08	3.60E-08	2.00E-09	6.99E-04	8.19E-04	
4741	360250	3804250	2.78E-08	3.22E-08	1.79E-09	6.25E-04	8.03E-04	
4742	360500	3804250	2.49E-08	2.88E-08	1.60E-09	5.59E-04	8.12E-04	
4743	360750	3804250	2.24E-08	2.60E-08	1.44E-09	5.04E-04	7.62E-04	
4744	361000	3804250	2.05E-08	2.38E-08	1.32E-09	4.61E-04	7.37E-04	
4745	361250	3804250	1.90E-08	2.20E-08	1.22E-09	4.26E-04	6.47E-04	
4746	361500	3804250	1.78E-08	2.06E-08	1.14E-09	3.99E-04	6.19E-04	
4747	361750	3804250	1.68E-08	1.94E-08	1.08E-09	3.77E-04	6.22E-04	
4748	362000	3804250	1.60E-08	1.86E-08	1.03E-09	3.60E-04	6.27E-04	
4749	362250	3804250	1.54E-08	1.79E-08	9.94E-10	3.47E-04	5.92E-04	
4750	362500	3804250	1.50E-08	1.74E-08	9.65E-10	3.37E-04	5.89E-04	
4751	362750	3804250	1.46E-08	1.70E-08	9.42E-10	3.29E-04	6.28E-04	
4752	363000	3804250	1.43E-08	1.66E-08	9.23E-10	3.22E-04	6.33E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4753	363250	3804250	1.40E-08	1.63E-08	9.05E-10	3.16E-04	6.07E-04	
4754	363500	3804250	1.38E-08	1.60E-08	8.88E-10	3.10E-04	5.75E-04	
4755	363750	3804250	1.35E-08	1.57E-08	8.71E-10	3.04E-04	5.71E-04	
4756	364000	3804250	1.33E-08	1.54E-08	8.54E-10	2.98E-04	5.63E-04	
4757	355750	3804500	4.52E-08	5.23E-08	2.91E-09	1.01E-03	6.56E-04	
4758	356000	3804500	4.62E-08	5.35E-08	2.98E-09	1.04E-03	6.53E-04	
4759	356250	3804500	4.72E-08	5.47E-08	3.04E-09	1.06E-03	6.57E-04	
4760	356500	3804500	4.81E-08	5.57E-08	3.10E-09	1.08E-03	6.73E-04	
4761	356750	3804500	4.88E-08	5.65E-08	3.14E-09	1.10E-03	7.32E-04	
4762	357000	3804500	4.92E-08	5.71E-08	3.17E-09	1.11E-03	7.54E-04	
4763	357250	3804500	4.94E-08	5.72E-08	3.18E-09	1.11E-03	7.58E-04	
4764	357500	3804500	4.92E-08	5.70E-08	3.17E-09	1.10E-03	7.29E-04	
4765	357750	3804500	4.85E-08	5.62E-08	3.13E-09	1.09E-03	6.99E-04	
4766	358000	3804500	4.75E-08	5.51E-08	3.06E-09	1.07E-03	7.32E-04	
4767	358250	3804500	4.61E-08	5.34E-08	2.97E-09	1.04E-03	7.59E-04	
4768	358500	3804500	4.44E-08	5.15E-08	2.86E-09	9.98E-04	8.35E-04	
4769	358750	3804500	4.24E-08	4.92E-08	2.73E-09	9.54E-04	8.55E-04	
4770	359000	3804500	4.03E-08	4.67E-08	2.60E-09	9.05E-04	7.59E-04	
4771	359250	3804500	3.79E-08	4.40E-08	2.44E-09	8.52E-04	7.24E-04	
4772	359500	3804500	3.54E-08	4.10E-08	2.28E-09	7.96E-04	7.69E-04	
4773	359750	3804500	3.26E-08	3.78E-08	2.10E-09	7.33E-04	7.59E-04	
4774	360000	3804500	2.97E-08	3.44E-08	1.91E-09	6.66E-04	7.80E-04	
4775	360250	3804500	2.67E-08	3.09E-08	1.72E-09	6.00E-04	7.61E-04	
4776	360500	3804500	2.40E-08	2.78E-08	1.55E-09	5.39E-04	7.42E-04	
4777	360750	3804500	2.17E-08	2.52E-08	1.40E-09	4.88E-04	6.94E-04	
4778	361000	3804500	1.99E-08	2.31E-08	1.29E-09	4.48E-04	6.83E-04	
4779	361250	3804500	1.85E-08	2.15E-08	1.19E-09	4.16E-04	6.19E-04	
4780	361500	3804500	1.74E-08	2.01E-08	1.12E-09	3.90E-04	6.01E-04	
4781	361750	3804500	1.64E-08	1.90E-08	1.06E-09	3.69E-04	5.95E-04	
4782	362000	3804500	1.57E-08	1.81E-08	1.01E-09	3.52E-04	6.01E-04	
4783	362250	3804500	1.51E-08	1.74E-08	9.70E-10	3.38E-04	5.85E-04	
4784	362500	3804500	1.46E-08	1.69E-08	9.40E-10	3.28E-04	5.77E-04	
4785	362750	3804500	1.42E-08	1.65E-08	9.16E-10	3.20E-04	5.80E-04	
4786	363000	3804500	1.39E-08	1.61E-08	8.97E-10	3.13E-04	5.83E-04	
4787	363250	3804500	1.37E-08	1.58E-08	8.80E-10	3.07E-04	5.82E-04	
4788	363500	3804500	1.34E-08	1.55E-08	8.64E-10	3.01E-04	5.67E-04	
4789	363750	3804500	1.32E-08	1.53E-08	8.48E-10	2.96E-04	5.64E-04	
4790	356250	3804750	4.61E-08	5.34E-08	2.97E-09	1.04E-03	6.53E-04	
4791	356500	3804750	4.68E-08	5.42E-08	3.01E-09	1.05E-03	6.86E-04	
4792	356750	3804750	4.72E-08	5.47E-08	3.04E-09	1.06E-03	7.15E-04	
4793	357000	3804750	4.74E-08	5.50E-08	3.06E-09	1.07E-03	7.35E-04	
4794	357250	3804750	4.73E-08	5.48E-08	3.05E-09	1.06E-03	7.04E-04	
4795	357500	3804750	4.69E-08	5.43E-08	3.02E-09	1.05E-03	7.04E-04	
4796	357750	3804750	4.61E-08	5.34E-08	2.97E-09	1.04E-03	6.99E-04	
4797	358000	3804750	4.49E-08	5.21E-08	2.90E-09	1.01E-03	7.07E-04	
4798	358250	3804750	4.35E-08	5.05E-08	2.80E-09	9.78E-04	7.44E-04	
4799	358500	3804750	4.19E-08	4.85E-08	2.70E-09	9.41E-04	7.96E-04	
4800	358750	3804750	4.00E-08	4.64E-08	2.58E-09	9.00E-04	7.90E-04	
4801	359000	3804750	3.81E-08	4.41E-08	2.45E-09	8.55E-04	7.45E-04	
4802	359250	3804750	3.59E-08	4.16E-08	2.31E-09	8.07E-04	7.17E-04	
4803	359500	3804750	3.36E-08	3.89E-08	2.17E-09	7.55E-04	7.38E-04	
4804	359750	3804750	3.11E-08	3.60E-08	2.00E-09	6.98E-04	7.29E-04	
4805	360000	3804750	2.83E-08	3.28E-08	1.83E-09	6.37E-04	7.45E-04	
4806	360250	3804750	2.56E-08	2.97E-08	1.65E-09	5.76E-04	7.26E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4807	360500	3804750	2.32E-08	2.68E-08	1.49E-09	5.20E-04	6.81E-04	
4808	360750	3804750	2.11E-08	2.44E-08	1.36E-09	4.74E-04	6.39E-04	
4809	361000	3804750	1.94E-08	2.25E-08	1.25E-09	4.36E-04	6.33E-04	
4810	361250	3804750	1.81E-08	2.09E-08	1.16E-09	4.06E-04	5.89E-04	
4811	361500	3804750	1.70E-08	1.97E-08	1.09E-09	3.81E-04	5.86E-04	
4812	361750	3804750	1.61E-08	1.86E-08	1.03E-09	3.61E-04	5.76E-04	
4813	362000	3804750	1.53E-08	1.77E-08	9.87E-10	3.44E-04	5.77E-04	
4814	362250	3804750	1.47E-08	1.71E-08	9.48E-10	3.31E-04	5.73E-04	
4815	362500	3804750	1.42E-08	1.65E-08	9.18E-10	3.20E-04	5.70E-04	
4816	362750	3804750	1.39E-08	1.61E-08	8.93E-10	3.11E-04	5.74E-04	
4817	363000	3804750	1.35E-08	1.57E-08	8.73E-10	3.04E-04	5.71E-04	
4818	363250	3804750	1.33E-08	1.54E-08	8.56E-10	2.99E-04	5.70E-04	
4819	356500	3805000	4.54E-08	5.26E-08	2.92E-09	1.02E-03	6.75E-04	
4820	356750	3805000	4.56E-08	5.29E-08	2.94E-09	1.03E-03	7.06E-04	
4821	357000	3805000	4.56E-08	5.28E-08	2.94E-09	1.02E-03	6.86E-04	
4822	357250	3805000	4.53E-08	5.25E-08	2.92E-09	1.02E-03	6.93E-04	
4823	357500	3805000	4.47E-08	5.18E-08	2.88E-09	1.00E-03	6.70E-04	
4824	357750	3805000	4.37E-08	5.07E-08	2.82E-09	9.83E-04	6.90E-04	
4825	358000	3805000	4.26E-08	4.93E-08	2.74E-09	9.57E-04	7.13E-04	
4826	358250	3805000	4.12E-08	4.77E-08	2.65E-09	9.25E-04	7.50E-04	
4827	358500	3805000	3.96E-08	4.59E-08	2.55E-09	8.90E-04	7.70E-04	
4828	358750	3805000	3.79E-08	4.39E-08	2.44E-09	8.51E-04	7.36E-04	
4829	359000	3805000	3.61E-08	4.18E-08	2.32E-09	8.10E-04	7.23E-04	
4830	359250	3805000	3.41E-08	3.95E-08	2.20E-09	7.66E-04	7.09E-04	
4831	359500	3805000	3.20E-08	3.70E-08	2.06E-09	7.18E-04	7.25E-04	
4832	359750	3805000	2.96E-08	3.43E-08	1.91E-09	6.65E-04	7.10E-04	
4833	360000	3805000	2.71E-08	3.14E-08	1.75E-09	6.10E-04	7.12E-04	
4834	360250	3805000	2.47E-08	2.86E-08	1.59E-09	5.54E-04	6.94E-04	
4835	360500	3805000	2.24E-08	2.59E-08	1.44E-09	5.03E-04	6.47E-04	
4836	360750	3805000	2.05E-08	2.37E-08	1.32E-09	4.60E-04	5.94E-04	
4837	361000	3805000	1.89E-08	2.19E-08	1.22E-09	4.24E-04	5.87E-04	
4838	361250	3805000	1.76E-08	2.04E-08	1.13E-09	3.96E-04	5.76E-04	
4839	361500	3805000	1.66E-08	1.92E-08	1.07E-09	3.73E-04	5.72E-04	
4840	361750	3805000	1.57E-08	1.82E-08	1.01E-09	3.53E-04	5.71E-04	
4841	362000	3805000	1.50E-08	1.74E-08	9.66E-10	3.37E-04	5.70E-04	
4842	362250	3805000	1.44E-08	1.67E-08	9.27E-10	3.23E-04	5.62E-04	
4843	362500	3805000	1.39E-08	1.61E-08	8.95E-10	3.12E-04	5.62E-04	
4844	362750	3805000	1.35E-08	1.57E-08	8.70E-10	3.04E-04	5.59E-04	
4845	357000	3805250	4.38E-08	5.07E-08	2.82E-09	9.83E-04	6.71E-04	
4846	357250	3805250	4.33E-08	5.02E-08	2.79E-09	9.72E-04	6.56E-04	
4847	357500	3805250	4.25E-08	4.93E-08	2.74E-09	9.56E-04	6.68E-04	
4848	357750	3805250	4.16E-08	4.82E-08	2.68E-09	9.34E-04	6.74E-04	
4849	358000	3805250	4.04E-08	4.68E-08	2.60E-09	9.08E-04	7.01E-04	
4850	358250	3805250	3.90E-08	4.52E-08	2.52E-09	8.77E-04	7.36E-04	
4851	358500	3805250	3.75E-08	4.35E-08	2.42E-09	8.44E-04	7.40E-04	
4852	358750	3805250	3.59E-08	4.17E-08	2.32E-09	8.08E-04	7.23E-04	
4853	359000	3805250	3.43E-08	3.97E-08	2.21E-09	7.70E-04	6.93E-04	
4854	359250	3805250	3.25E-08	3.76E-08	2.09E-09	7.29E-04	6.96E-04	
4855	359500	3805250	3.05E-08	3.53E-08	1.96E-09	6.85E-04	7.09E-04	
4856	359750	3805250	2.83E-08	3.28E-08	1.82E-09	6.36E-04	6.97E-04	
4857	360000	3805250	2.60E-08	3.02E-08	1.68E-09	5.85E-04	6.81E-04	
4858	360250	3805250	2.37E-08	2.75E-08	1.53E-09	5.33E-04	6.64E-04	
4859	360500	3805250	2.16E-08	2.51E-08	1.39E-09	4.86E-04	6.21E-04	
4860	360750	3805250	1.98E-08	2.30E-08	1.28E-09	4.46E-04	5.71E-04	

HARP2 Modeled Proposed Project Health Risk Increments by Receptor

Receptor No.	UTM X (m)	UTM Y (m)	Residential 30-Year Cancer Risk	Residential 70-Year Cancer Risk	Worker Cancer Risk	Chronic Hazard Index	Acute Hazard Index	Receptor Notes
4861	361000	3805250	1.84E-08	2.13E-08	1.18E-09	4.13E-04	5.68E-04	
4862	361250	3805250	1.72E-08	1.99E-08	1.11E-09	3.86E-04	5.65E-04	
4863	361500	3805250	1.62E-08	1.88E-08	1.04E-09	3.64E-04	5.66E-04	
4864	361750	3805250	1.54E-08	1.78E-08	9.90E-10	3.45E-04	5.69E-04	
4865	362000	3805250	1.47E-08	1.70E-08	9.45E-10	3.30E-04	5.59E-04	
4866	362250	3805250	1.41E-08	1.63E-08	9.07E-10	3.16E-04	5.58E-04	
4867	362500	3805250	1.36E-08	1.57E-08	8.75E-10	3.05E-04	5.58E-04	
4868	357750	3805500	3.96E-08	4.58E-08	2.55E-09	8.89E-04	6.85E-04	
4869	358000	3805500	3.84E-08	4.45E-08	2.47E-09	8.63E-04	6.95E-04	
4870	358250	3805500	3.71E-08	4.30E-08	2.39E-09	8.33E-04	7.07E-04	
4871	358500	3805500	3.57E-08	4.14E-08	2.30E-09	8.02E-04	7.00E-04	
4872	358750	3805500	3.42E-08	3.96E-08	2.20E-09	7.69E-04	7.14E-04	
4873	359000	3805500	3.26E-08	3.78E-08	2.10E-09	7.33E-04	6.79E-04	
4874	359250	3805500	3.09E-08	3.59E-08	1.99E-09	6.95E-04	6.79E-04	
4875	359500	3805500	2.91E-08	3.37E-08	1.88E-09	6.54E-04	6.91E-04	
4876	359750	3805500	2.71E-08	3.14E-08	1.75E-09	6.09E-04	6.81E-04	
4877	360000	3805500	2.50E-08	2.90E-08	1.61E-09	5.62E-04	6.52E-04	
4878	360250	3805500	2.29E-08	2.65E-08	1.47E-09	5.14E-04	6.41E-04	
4879	360500	3805500	2.10E-08	2.43E-08	1.35E-09	4.71E-04	5.97E-04	
4880	360750	3805500	1.93E-08	2.23E-08	1.24E-09	4.33E-04	5.64E-04	
4881	361000	3805500	1.79E-08	2.07E-08	1.15E-09	4.02E-04	5.59E-04	
4882	361250	3805500	1.68E-08	1.94E-08	1.08E-09	3.77E-04	5.59E-04	
4883	361500	3805500	1.58E-08	1.83E-08	1.02E-09	3.56E-04	5.56E-04	
4884	361750	3805500	1.50E-08	1.74E-08	9.68E-10	3.38E-04	5.63E-04	
4885	360205	3800410	1.67E-07	1.94E-07	1.08E-08	3.75E-03	4.17E-03	SGP Facility
4886	360214	3800421	1.70E-07	1.97E-07	1.10E-08	3.83E-03	5.26E-03	SGP Facility
4887	360224	3800433	1.70E-07	1.97E-07	1.09E-08	3.81E-03	6.58E-03	SGP Facility
4888	360234	3800444	1.67E-07	1.93E-07	1.07E-08	3.74E-03	7.56E-03	SGP Facility
4889	360245	3800436	1.43E-07	1.66E-07	9.24E-09	3.22E-03	7.06E-03	SGP Facility
4890	360255	3800445	1.41E-07	1.63E-07	9.07E-09	3.16E-03	7.70E-03	SGP Facility
4891	360271	3800435	1.24E-07	1.44E-07	8.00E-09	2.79E-03	7.72E-03	SGP Facility
4892	360286	3800425	1.16E-07	1.34E-07	7.47E-09	2.61E-03	7.97E-03	SGP Facility
4893	360290	3800409	1.11E-07	1.28E-07	7.13E-09	2.49E-03	7.22E-03	SGP Facility
4894	360303	3800398	1.11E-07	1.29E-07	7.16E-09	2.50E-03	7.16E-03	SGP Facility
4895	360292	3800385	1.04E-07	1.21E-07	6.71E-09	2.34E-03	6.46E-03	SGP Facility
4896	360280	3800371	9.23E-08	1.07E-07	5.95E-09	2.07E-03	5.48E-03	SGP Facility
4897	360273	3800354	8.05E-08	9.33E-08	5.19E-09	1.81E-03	4.56E-03	SGP Facility
4898	360261	3800362	6.80E-08	7.88E-08	4.38E-09	1.53E-03	3.84E-03	SGP Facility
4899	360249	3800370	6.20E-08	7.18E-08	3.99E-09	1.39E-03	2.98E-03	SGP Facility
4900	360238	3800384	7.55E-08	8.76E-08	4.87E-09	1.70E-03	2.64E-03	SGP Facility
4901	360221	3800392	1.00E-07	1.16E-07	6.46E-09	2.25E-03	2.42E-03	SGP Facility
4902	360209	3800403	1.43E-07	1.66E-07	9.20E-09	3.21E-03	3.40E-03	SGP Facility
4903	360316	3800369	1.13E-07	1.31E-07	7.30E-09	2.55E-03	7.60E-03	SCE Substation
4904	360325	3800376	1.16E-07	1.34E-07	7.44E-09	2.60E-03	7.84E-03	SCE Substation
4905	360333	3800384	1.17E-07	1.35E-07	7.52E-09	2.62E-03	8.25E-03	SCE Substation
4906	360345	3800370	1.18E-07	1.37E-07	7.63E-09	2.66E-03	8.59E-03	SCE Substation
4907	360357	3800357	1.19E-07	1.38E-07	7.69E-09	2.68E-03	9.01E-03	SCE Substation
4908	360349	3800349	1.19E-07	1.38E-07	7.68E-09	2.68E-03	8.85E-03	SCE Substation
4909	360341	3800341	1.18E-07	1.37E-07	7.63E-09	2.66E-03	8.46E-03	SCE Substation
4910	360328	3800355	1.17E-07	1.35E-07	7.51E-09	2.62E-03	8.46E-03	SCE Substation
4911	360250	3800400	9.80E-08	1.14E-07	6.31E-09	2.20E-03	4.47E-03	SGP Facility
4912	360300	3800400	1.11E-07	1.28E-07	7.13E-09	2.49E-03	7.00E-03	SGP Facility

APPENDIX F

Comment Letters Received on the Draft SEIR and Responses to Comments

APPENDIX F: COMMENT LETTERS RECEIVED ON THE DRAFT SEIR AND RESPONSES TO COMMENTS

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CEQA Process of the Draft SEIR F-1
List of Commenters F-1
CEQA Requirements Regarding Comments and Responses F-2

OVERVIEW

As the lead agency, the South Coast AQMD must consider all information and comments received relative to the Draft SEIR. [CEQA Guidelines Section 15088]. In accordance with CEQA, the South Coast AQMD has prepared this appendix to the Final SEIR which contains the comments received relative to the Draft SEIR. This appendix includes responses to all of the written comments received during the public review and comment period of the Draft SEIR. The South Coast AQMD thanks all who participated in the review process and provided comments on the Draft SEIR relative to the proposed project.

CEQA PROCESS OF THE DRAFT SEIR

The Draft SEIR was released for a 45-day public review and comment period that started on September 30, 2025 and ended on November 14, 2025 at 5:00 p.m. A Notice of Completion (NOC) and the Draft SEIR were filed with the Governor's Office of Land Use and Climate Innovation (LCI) (State Clearinghouse (SCH) # 1992041053) and posted on the State Clearinghouse's CEQAnet Web Portal at: https://ceqanet.lci.ca.gov/1992041053/8. In addition, the NOC was filed and posted with the county clerk of Los Angeles. The NOC was distributed using electronic mail to various government agencies and other interested agencies, organizations, and individuals (collectively referred to as the public). The NOC was also provided to all California Native American Tribes (Tribes) that requested to be on the Native American Heritage Commission's (NAHC) notification list per Public Resources Code Section 21080.3.1(b)(1). The NAHC notification list provides a 30-day period during which a Tribe may respond to the formal notice, in writing, requesting consultation on the Draft SEIR. Additionally, the NOC was published in the Los Angeles Times on September 30, 2025. The NOC and the Draft SEIR were posted on South Coast AQMD's website at: https://www.aqmd.gov/home/research/documents-reports/lead-agency-permit-projects. An email announcing the availability of the NOC and the Draft SEIR was also sent to interested parties on September 30, 2025.

LIST OF COMMENTERS

Four comment letters were received by South Coast AQMD during the Draft SEIR public review and comment period. This appendix contains the comment letters and responses to comments received in relation to the analysis in the Draft SEIR. For the purposes of identifying and responding to comments on the Draft SEIR, the comment letters have been organized according to the date received and assigned a number; individual comments within each letter have been bracketed and assigned a comment number. The following is a list of comment letters received relative to the Draft SEIR along with the date each comment letter was received.

Comment Letter Number	Commenter	Comment Letter Received Date	Page No.
Comment Letters Received During the Public Review Period			
1	Agua Caliente Band of Cahuilla Indians	October 13, 2025	F-4
2	The Yuhaaviatam of San Manuel Nation (YSMN, also known as the San Manuel Band of Mission Indians)	October 14, 2025	F-6
3	Department of Transportation, District 7 – Office of Regional Planning	November 5, 2025	F-8
4	Department of Resources Recycling and Recovery (CalRecycle) –Waste Permitting, Compliance and Mitigation Division	November 7, 2025	F-12

For any response in this appendix that requires an update elsewhere in this SEIR, the response will indicate that a change has been made and where the change is located in the Final SEIR. Additions to text are reflected in underlined text and deletions are reflected in ~~strikethrough~~ text.

Pursuant to CEQA Guidelines Section 15088(a), South Coast AQMD is required to evaluate and provide written responses to only the comments received during the public comment period of the SEIR which raise significant environmental issues. South Coast AQMD staff has reviewed the comments submitted, updated the SEIR to reflect the responses to the comments, and determined that none of the comments raise significant environmental issues and none of the revisions to the SEIR contain the type of significant new information that requires recirculation of the Draft SEIR for further public comment under CEQA Guidelines Section 15088.5. Further, none of the comments indicate that the proposed project will result in a significant new environmental impact not previously disclosed in the Draft SEIR. Additionally, none of comments indicate that there would be a substantial increase in the severity of a previously identified environmental impact that will not be mitigated, or that there would be any of the other circumstances requiring recirculation as described in CEQA Guidelines Section 15088.5.

CEQA REQUIREMENTS REGARDING COMMENTS AND RESPONSES

CEQA Guidelines Section 15204(b) outlines parameters for submitting comments and reminds persons and public agencies that the focus of review and comment of the Draft SEIR should be "on the proposed finding that the project will not have a significant effect on the environment." If persons and public agencies believe that the proposed project may have a significant effect, the commenter should: 1) identify the specific effect; 2) explain why they believe the effect would occur; and 3) explain why they believe the effect would be significant. Comments are most helpful when they are as specific as possible. At the same time, reviewers of the Draft SEIR should be aware that CEQA does not require a lead agency to conduct every test or perform all research, study, and experimentation recommended or demanded by commenters. CEQA Guidelines Section 15204(c) further advises, "Reviewers should explain the basis for their comments, and should submit data or references offering facts, reasonable assumptions based on facts, or expert opinion supported by facts in support of the comments. Pursuant to CEQA Guidelines Section 15064, an effect shall not be considered significant in the absence of substantial evidence." CEQA

Guidelines Section 15204(e) also states, "This section shall not be used to restrict the ability of reviewers to comment on the general adequacy of a document or of the lead agency to reject comments not focused as recommended by this section." Written responses have been prepared pursuant to the CEQA Guidelines and the level of detail contained in each response corresponds to the level of detail provided in the comment (i.e., responses to general comments may be general).

COMMENT LETTER #1 – Tribal Historic Preservation Office, AGUA CALIENTE BAND OF CAHUILLA INDIANS, October 13, 2025

From: THPO Consulting <ACBCI-THPO@aguacaliente.net>
Sent: Monday, October 13, 2025 10:51 AM
To: Sina Taghvaee
Subject: [EXTERNAL] Re: Sunshine Canyon Landfill Flare Capacity Expansion Project

Greetings,

A records check of the Tribal Historic Preservation Office's cultural registry revealed that this project is not located within the Tribe's Traditional Use Area. Therefore, we defer to the other tribes in the area. This letter shall conclude our consultation efforts. 1-1

Thank you,

Anthony Kline
Cultural Resources Analyst
akline@aguacaliente.net
C: (760) 413-5836 | D: (760) 883-1139
5401 Dinah Shore Drive, Palm Springs

RESPONSE TO COMMENT LETTER #1 – Tribal Historic Preservation Office, AGUA CALIENTE BAND OF CAHUILLA INDIANS, October 13, 2025

Response 1-1
Comment 1-1 provides a determination that the Proposed Project is not located within the Agua Caliente Band of Cahuilla Indians' Traditional Use Area as confirmed via a records check of the Tribal Historic Preservation Office's cultural registry. As such, the commenter does not seek consultation.

The South Coast AQMD provided a formal notice of the proposed project to all California Native American Tribes that either requested to be on the Native American Heritage Commission's (NAHC) notification list or South Coast AQMD's mailing list per Public Resources Code Section 21080.3.1(b)(1) and a notice of the proposed project was provided to the commenter. These notices provide an opportunity for California Native American Tribes to request a consultation with the South Coast AQMD if potentially significant adverse impacts to Tribal cultural resources are identified. The Final SEIR for the Proposed Project did not identify any potentially significant adverse impacts to Tribal cultural resources. Since this comment does not raise any issues relative to Tribal cultural resources during the comment period for the Draft SEIR and the commenter does not request a consultation, no further response is necessary under CEQA.

COMMENT LETTER #2 – The Yuhaaviatam of San Manuel Nation (YSMN, also known as the San Manuel Band of Mission Indians), October 14, 2025

From: Eunice Ambriz-Aguilar <Eunice.Ambriz@sanmanuel-nsn.gov>
Sent: Tuesday, October 14, 2025 1:43 PM
To: Angela Shibata <ashibata@aqmd.gov>
Subject: [EXTERNAL] AB52, Sunshine Canyon Landfill Flare Capacity Expansion Project, South Coast Air Quality Management District, SD-AQMD-2025-1

Dear Angela,

Thank you for contacting the Yuhaaviatam of San Manuel Nation (YSMN, also known as the San Manuel Band of Mission Indians) regarding the above-referenced project. YSMN appreciates the opportunity to review the project documentation, which was received by the Cultural Resources Management Department on October 14, 2025. The proposed project is located outside of Serrano ancestral territory and, as such, YSMN will not be requesting to receive consulting party status with the lead agency or to participate in the scoping, development, or review of documents created pursuant to legal and regulatory mandates. 2-1

Regards,
Eunice

Eunice Ambriz-Aguilar
Cultural Resources Technician
Eunice.Ambriz@sanmanuel-nsn.gov
O:(909) 864-8933 x 50-2033
M:(909) 649-4867
26569 Community Center Dr Highland, California 92346
YUHAAVIATAM OF SAN MANUEL NATION

RESPONSE TO COMMENT LETTER #2 – The Yuhaaviatam of San Manuel Nation (YSMN, also known as the San Manuel Band of Mission Indians), October 14, 2025

Response 2-1
Comment 2-1 acknowledges receiving the notice for the Proposed Project, and provides a determination that the Proposed Project is not located within Serrano ancestral territory. As such, the commenter does not seek consultation.

The South Coast AQMD provided a formal notice of the proposed project to all California Native American Tribes that either requested to be on the Native American Heritage Commission's (NAHC) notification list or South Coast AQMD's mailing list per Public Resources Code Section 21080.3.1(b)(1) and a notice of the proposed project was provided to the commenter. These notices provide an opportunity for California Native American Tribes to request a consultation with the South Coast AQMD if potentially significant adverse impacts to Tribal cultural resources are identified. The Final SEIR for the Proposed Project did not identify any potentially significant adverse impacts to Tribal cultural resources. Since this comment does not raise any issues relative to Tribal cultural resources during the comment period for the Draft SEIR and the commenter does not request a consultation, no further response is necessary under CEQA.

COMMENT LETTER #3 – Department of Transportation, District 7 – Office of Regional Planning, November 5, 2025 (p. 1 of 2)

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY GAVIN NEWSOM, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 269-1124
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life

November 5, 2025

Sina Taghvaee, Ph.D.
Planning Rule Development and Implementation CEQA Section
South Coast AQMD
21865 Copley Drive
Diamond Bar, CA 91765

RE: Sunshine Canyon Landfill Flare
Capacity Expansion Project
SCH # 1992041053
Vic. LA-5/PM R44.925
GTS # LA-2025-04918-DSEIR

Dear Sina Taghvaee:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above-referenced environmental document. The proposed project would expand landfill gas (LFG) flaring capacity at the Sunshine Canyon Landfill to further reduce odors and prevent fugitive emissions of methane (a potent greenhouse gas) and other toxic air contaminants. The project includes installing two new LFG flares and two 300-horsepower electric blowers and increasing the permitted site-wide LFG combustion limit from 16,100 to 33,334 standard cubic feet per minute (at 50% CH4, averaged over 24 hours). No expansion of landfill capacity or increase in waste intake is proposed. According to the Draft SEIR, which tiers from the 1999 Final SEIR, the project may result in significant and unavoidable impacts related to air quality and GHG emissions, while all other environmental impacts would remain less than significant.

3-1

The mission of Caltrans is to provide a safe and reliable transportation network that serves all people and respects the environment. Senate Bill 743 (2013) has codified into CEQA law and mandated that CEQA review of transportation impacts of proposed development be modified by using Vehicle Miles Traveled (VMT) as the primary metric in identifying transportation impacts for all future development projects. As a reminder, all environmental document should include Vehicle Miles Traveled. You may reference the Governor's Office of Planning and Research (OPR) for more information:

https://opr.ca.gov/ceqa/#guidelines-updates

3-2

COMMENT LETTER #3 – Department of Transportation, District 7 – Office of Regional Planning, November 5, 2025 (p. 2 of 2)

Temporary construction activities are expected to generate a small number of vehicle trips with approximately 24 heavy-duty truck trips and 24 passenger trips per day over a short four-month period. This is well below the applicable significance thresholds for transportation impacts. Construction access would continue to use established haul routes, including I-5, I-210, SR-14, and San Fernando Road, and no new roadways, driveways, or geometric design changes are proposed. Accordingly, no new conflicts or safety hazards are anticipated.

3-2

Concluded

Caltrans recommends that the lead agency continue to implement and monitor the existing transportation-related mitigation measures adopted under the 1999 Final SEIR, including truck warning signage and coordination with LADOT regarding landfill entrance safety. In addition, any transportation of heavy construction equipment or materials that requires the use of oversized transport vehicles on State highways must obtain the appropriate Caltrans transportation permit prior to travel. Caltrans further recommends that all large-size truck trips be scheduled during off-peak commute hours during both construction and operation, and that all construction truck loads be securely covered with a tarpaulin.

3-3

Lastly, Caltrans notes that stormwater runoff remains a sensitive issue in Los Angeles County. The project design should ensure that only clean runoff water is discharged from the site to prevent downstream water quality impacts. With these practices in place, the proposed project would not result in any new or worsened transportation, circulation, or safety impacts, and the previously determined less-than-significant transportation conclusion remains valid.

3-4

If you have any questions, please feel free to contact Mr. Alan Lin, the project coordinator, at (213) 269-1124 and refer to GTS # LA-2025-04918-DSEIR.

Sincerely,

Miya Edmonson

MIYA EDMONSON
LDR/CEQA Branch Chief

email: State Clearinghouse

"Provide a safe and reliable transportation network that serves all people and respects the environment"

RESPONSE TO COMMENT LETTER #3 – Department of Transportation, District 7 – Office of Regional Planning, November 5, 2025

Response 3-1
Comment 3-1 contains introductory remarks and a brief summary of the Proposed Project and conclusions reached in Draft SEIR without raising any issues relative to the environmental analysis in the Draft SEIR. Therefore, no response is required by CEQA. [CEQA Guidelines Section 15088(a)].

Response 3-2
Comment 3-2 contains introductory remarks which explain the commenter's mission and responsibilities as the regulatory authority over the transportation network. Comment 3-2 also mentions that CEQA requires an analysis of transportation impacts through the use of vehicle miles traveled (VMT) and states that all environmental documents should include VMT and provides a link to where this requirement is published. This comment acknowledges that temporary construction activities from the Proposed Project would generate a small number of trips that are much less than the applicable significance thresholds, and that the Proposed Project will use existing haul routes such that the commenter confirms that no new conflicts or safety hazards would be anticipated.

South Coast AQMD is aware of Senate Bill 743 which requires a VMT analysis for transportation impacts and when South Coast AQMD is lead agency, this type of analysis is conducted for projects, when applicable. However, for the Proposed Project, a Subsequent Environmental Impact Report (SEIR) was prepared pursuant to CEQA Guidelines Section 15162(a)(2) because substantial changes were expected to occur with respect to the circumstances under which the Proposed Project is undertaken and that major revisions of the previous CEQA document were required due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

The 1999 Final SEIR for Sunshine Canyon Landfill (State Clearinghouse No. 92041053), upon which this more recent SEIR relies, originally concluded that less than significant transportation impacts after mitigation. In addition, the transportation analysis conducted in this more recent Draft SEIR (see pp. 4-56 to 4-59) concluded that the Proposed Project would not increase the severity of transportation effects that were previously analyzed in the 1999 Final SEIR. For this reason, the previous conclusion of less than significant transportation impacts reached in the 1999 Final SEIR will continue to apply to the Proposed Project such that an updated transportation impact analysis using VMT is not required. This conclusion is consistent with the commenter's acknowledgement that the transportation impacts from the Proposed Project's construction activities would remain less than the applicable significance thresholds and that no new conflicts or safety hazards would be anticipated.

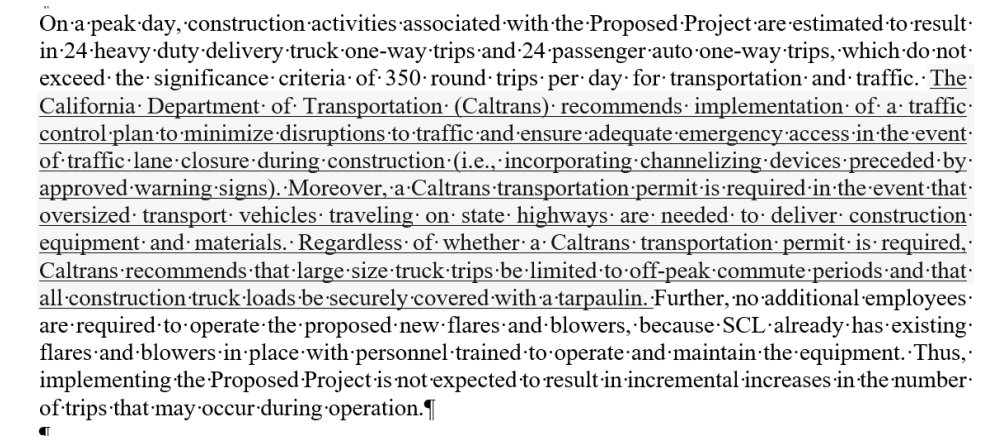
Response 3-3
Comment 3-3 recommends that South Coast AQMD, as the lead agency for the Proposed Project, continue implementing and monitoring the existing transportation-related mitigation measures adopted under the 1999 Final SEIR.

As explained in the Draft SEIR (see p. 4-59), the transportation mitigation measures adopted and currently being implemented under the 1999 Final SEIR for the City/ County Landfill Project will

continue to apply to the Proposed Project. For reference, Appendix B of the Draft SEIR contains the current SCL mitigation, monitoring and reporting summary and several public agencies such as LADOT, Department of Public Works, Caltrans, Department of Regional Planning, LEA, and Facility Managers are identified (see pp. B-37 to B-44) are identified as being responsible to ensure ongoing compliance with applicable transportation mitigation measures. Thus, while South Coast AQMD fully supports the continued implementation and monitoring of these transportation mitigation measures outlined in the Draft SEIR, South Coast AQMD is not identified as an agency responsible for implementing and monitoring these mitigation measures at SCL.

Comment 3-3 also notes that a Caltrans transportation permit is required in the event that oversized transport vehicles traveling on state highways are needed to deliver construction equipment and materials. Lastly, this comment recommends scheduling all large truck trips during off-peak commute hours for both construction and operation, and ensuring that all construction truck loads are securely covered with tarps.

The Proposed Project does not contain any requirements that would interfere with traffic patterns and Caltrans permit requirements. Moreover, as the commenter pointed out in Comment 3-2, the construction activities associated with the Proposed Project would continue to utilize established haul routes, including I-5, I-210, SR-14, and San Fernando Road. For clarity and disclosure purposes, the transportation analysis in the Final SEIR has been updated to include this information. For context, please see the following screenshot of the updated text that will be included in the Final SEIR on page 4-58:



On a peak day, construction activities associated with the Proposed Project are estimated to result in 24 heavy duty delivery truck one-way trips and 24 passenger auto one-way trips, which do not exceed the significance criteria of 350 round trips per day for transportation and traffic. The California Department of Transportation (Caltrans) recommends implementation of a traffic control plan to minimize disruptions to traffic and ensure adequate emergency access in the event of traffic lane closure during construction (i.e., incorporating channelizing devices preceded by approved warning signs). Moreover, a Caltrans transportation permit is required in the event that oversized transport vehicles traveling on state highways are needed to deliver construction equipment and materials. Regardless of whether a Caltrans transportation permit is required, Caltrans recommends that large size truck trips be limited to off-peak commute periods and that all construction truck loads be securely covered with a tarpaulin. Further, no additional employees are required to operate the proposed new flares and blowers, because SCL already has existing flares and blowers in place with personnel trained to operate and maintain the equipment. Thus, implementing the Proposed Project is not expected to result in incremental increases in the number of trips that may occur during operation.¶

¶

Response 3-4

Comment 3-4 highlights the importance of ensuring that only clean stormwater runoff is discharged from the landfill to prevent downstream water quality impacts.

As explained in the Draft SEIR (see pp. 4-47 to 4-48), the original City/County Landfill Project that was evaluated in the 1999 Final SEIR had the potential to affect surface water quality due to grading, construction activities, and the introduction of impervious surfaces like roads and maintenance corridors. These changes could increase runoff, alter water discharge patterns, and introduce pollutants such as oils, fuels, and sediments into the stormwater system. To mitigate these impacts, the project proponent obtained a National Pollutant Discharge Elimination System (NPDES) permit, which regulated construction activities and stormwater management. The City/County Landfill project included measures such as diverting runoff around the landfill, installing interceptor ditches, constructing sedimentation basins, and implementing erosion control

and preventive maintenance programs. These actions were designed to minimize contamination of stormwater and ensure compliance with water quality standards, with monitoring and cleanup of sedimentation basins after each significant storm. Through these measures, water quality impacts were concluded in the 1999 Final SEIR to be less than significant.

The Proposed project is not expected to require water or generate wastewater, so the previous conclusion reached in the 1999 Final SEIR (e.g., less than significant impacts to hydrology and water quality) will continue to apply to the Proposed Project. Moreover, the aforementioned, previously adopted mitigation measures are currently being implemented at SCL in accordance with the 1999 Final SEIR and they will continue to apply to the Proposed Project. As such, there is an established mitigation and monitoring mechanism in place at SCL to ensure that only clean stormwater runoff is discharged from the landfill in order to prevent significant downstream water quality impacts.

COMMENT LETTER #4 – Department of Resources Recycling and Recovery (CalRecycle) –Waste Permitting, Compliance and Mitigation Division, November 7, 2025 (p. 1 of 3)

California Environmental Protection Agency

Department of Resources Recycling and Recovery

Gavin Newsom
California Governor
Yana Garcia
Secretary for Environmental Protection
Zoe Heller
CalRecycle Director

November 7, 2025

Sina Taghvaee, Air Quality Specialist
South Coast Air Quality Management District
21865 Copley Dr.
Diamond Bar, CA 91765

Subject: SCH No. 1992041053 – Draft Subsequent Environmental Impact Report for Sunshine Canyon Landfill Flare Capacity Expansion Project – Los Angeles County

Dear Sina Taghvaee:

Thank you for allowing the Department of Resources Recycling and Recovery (CalRecycle) staff to provide comments on the proposed project and for your agency's consideration of these comments as part of the California Environmental Quality Act (CEQA) process.

PROJECT DESCRIPTION

The South Coast Air Quality Management District, acting as Lead Agency, has prepared and circulated a Draft Subsequent Environmental Impact Report (Draft SEIR) in order to comply with CEQA and to provide information to, and solicit consultation with, Responsible Agencies in the approval of the proposed project.

The proposed Sunshine Canyon Landfill Flare Capacity Expansion Project (proposed project) is located at Sunshine Canyon City/County Landfill (Landfill; Solid Waste Information System No. 19-AA-2000) at 14747 San Fernando Road in Sylmar, California. The Landfill is a Class III non-hazardous waste facility. The southeast portion of the Landfill is located within the City of Los Angeles and the northwest portion is located within the unincorporated portion of Los Angeles County.

4-1

The proposed project aims to: 1) increase the site-wide Landfill Gas (LFG) combustion flare capacity and permit limit to accommodate the LFG currently being produced and collected and to accommodate the maximum future projected LFG production rate; 2) increase the capacity of the gas collection and control system (GCCS) to accommodate the maximum future projected LFG production rate; and 3) further reduce landfill odors and prevent fugitive releases of methane. No component of the proposed project is expected to expand landfill capacity and footprint or increase the amount of waste that can be accepted.

1001 I Street, Sacramento, CA 95814 • P.O. Box 4025, Sacramento, CA 95812
www.CalRecycle.ca.gov • (916) 322-4027

COMMENT LETTER #4 – Department of Resources Recycling and Recovery (CalRecycle) –Waste Permitting, Compliance and Mitigation Division, November 7, 2025 (p. 2 of 3)

Draft SEIR for Sunshine Canyon Landfill Flare Capacity Expansion Project
November 7, 2025
Page 2 of 3

The proposed project aims will be accomplished by: 1) installing and operating two additional LFG flares and two additional 300-horsepower electric blowers, and connecting them to the GCCS; and 2) increasing the permitted site-wide LFG combustion limit.

4-1

Concluded

COMMENTS

CalRecycle staff's comments on the proposed project are listed below. Where a specific location in the document is noted for the comment, please ensure the comment is addressed throughout all sections of the Draft SEIR, in addition to the specific location noted.

Gas Monitoring and Control Program Plan

Throughout the Draft SEIR it is stated that the GCCS will be updated by adding additional flares and electric blowers. These additions may require updates to the landfill gas monitoring and control plan, as described in Title 27 California Code of Regulations (27 CCR) Section 20921(b).

Report of Facility Information Amendment

On page 1-9, section Closure and Decommissioning, it is stated that, "The anticipated SCL closure date, when SCL reaches its landfill waste limit, is 2038." The current Solid Waste Facility Permit (SWFP) and currently approved Joint Technical Document (JTD; May 2024) state that the estimated closure year is 2037. This update, as well as the changes to the gas monitoring and control program plan, may require an update to the JTD via a Report of Facility Information (RFI) Amendment.

Solid Waste Regulatory Oversight

The Los Angeles County Department of Public Health and the City of Los Angeles Department of Building & Safety are both part of the Sunshine Canyon Landfill Local Enforcement Agency (LEA) and are both responsible for providing regulatory oversight of solid waste handling activities, including inspections and permitting. The LEA can assist in determining if the gas monitoring and control program plan and the JTD need to be updated. Please contact Lilit Baghumyan (Los Angeles County LEA) at 626.430.5540 or lbaghumyan@ph.lacounty.gov, and David Thompson (City of Los Angeles LEA) at 213.252.3932 or david.thompson@lacity.org to discuss the regulatory requirements for the proposed project.

4-2

CONCLUSION

CalRecycle staff thanks the Lead Agency for the opportunity to review and comment on the environmental document and hopes that this comment letter will be useful to the Lead Agency preparing the Final SEIR and in carrying out their responsibilities in the CEQA process.

CalRecycle staff requests copies of any subsequent environmental documents, copies of public notices and any Notices of Determination for this proposed project.
If the environmental document is adopted during a public hearing, CalRecycle staff requests 10 days advance notice of this hearing. If the document is adopted without a

4-3

COMMENT LETTER #4 – Department of Resources Recycling and Recovery (CalRecycle) –Waste Permitting, Compliance and Mitigation Division, November 7, 2025 (p. 3 of 3)

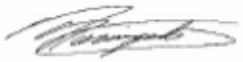
4-3

Concluded

public hearing, CalRecycle staff requests 10 days advance notification of the date of th adoption and proposed project approval by the decision-making body.

If you have any questions regarding these comments, please contact me at 916.341.6084 or by e-mail at theodore.tasiopoulos@calrecycle.ca.gov.

Sincerely,



Theodore Tasiopoulos, Environmental Scientist
Permitting & Assistance Branch – South Unit
Waste Permitting, Compliance & Mitigation Division
CalRecycle

cc: Ben Escotto, CalRecycle Supervisor
Permitting & Assistance Branch – South Unit

Lilit Baghumyan, Sunshine Canyon Landfill LEA, Los Angeles County

David Thompson, Sunshine Canyon Landfill LEA, City of Los Angeles

John Castleberry, Principal
Castle Environmental Consulting, LLC

Kate Downey, Environmental Project Manager
Browning-Ferris Industries of California, Inc.

RESPONSE TO COMMENT LETTER #4 – Department of Resources Recycling and Recovery (CalRecycle) –Waste Permitting, Compliance and Mitigation Division, November 7, 2025

Response 4-1
Comment 4-1 contains introductory remarks, a brief summary of the Proposed Project, and conclusions from the Draft SEIR without raising any issues relative to the environmental analysis in the Draft SEIR. Therefore, no response is required by CEQA. [CEQA Guidelines Section 15088(a)].

Response 4-2
Comment 4-2 explains that the Sunshine Canyon Landfill Local Enforcement Agency (LEA), which is comprised of the Los Angeles County Department of Public Health and the City of Los Angeles Department of Building and Safety, is responsible for providing regulatory oversight of solid waste handling activities, including inspections and permitting at SCL. Comment 4-2 suggests that the addition of flares and electric blowers to the GCCS may require updates to the landfill gas monitoring and control plan.

The comment also notes that the Draft SEIR identifies year 2038 as the anticipated closure date of SCL but that the currently-approved Joint Technical Document has an estimated closure date of 2037. The comment suggests that in order to update the closure date to align with year 2038 as well as to make changes to the landfill gas monitoring control plan, updates to the Joint Technical Document via a Report of Facility Information Amendment may be needed.

In response to this comment, the Final SEIR, Subchapter 2.10 Permits and Compliance Requirements, has been updated to reflect this understanding. For context, please see the following screenshot of the updated text that will be included in the Final SEIR on page 2-17:

> ***Sunshine Canyon Landfill Local Enforcement Agency***¶
> The Sunshine Canyon Landfill Local Enforcement Agency (SCL-LEA) is an entity that was created to be the primary local agency that provides the regulatory permitting, enforcement, and operational compliance oversight for the California Environmental Protection Agency's CalRecycle (formerly California Integrated Waste Management Board). The City of Los Angeles and the County of Los Angeles entered into a Joint Exercise of Powers Agreement for the creation of this new local enforcement agency, the SCL-LEA, in the County and City of Los Angeles. The Proposed Project, which includes a later anticipated closure date of 2038 and updates to the landfill gas monitoring and control plan with additional flare and blower information, would be incorporated into the Joint Technical Document through a Report of Facility Information Amendment, as appropriate.¶

Response 4-3
Comment 4-3 expresses appreciation for the opportunity to review the Draft SEIR and requests copies of any subsequent environmental documents, public notices, and Notices of Determination (NOD) for Proposed Project. Comment 4-3 also requests at least 10 days advance notice of any public hearing at which the document may be adopted, or, if no hearing is held, 10 days advance notice of the date of adoption and project approval.

South Coast AQMD appreciates the commenter's effort to review and provide comments on the Draft SEIR. Regarding the request to receive the Final SEIR and NOD for the Proposed Project, it is standard South Coast AQMD practice to send an email to all interested parties with a weblink

to the Final SEIR and NOD announcing the certification of the Final SEIR and the approval of the Proposed Project. The commenter's contact information has been included on the distribution list to receive this announcement.

In accordance with CEQA Guidelines Sections 15088(b), South Coast AQMD will transmit written responses to this comment letter to the commenter via email at least 10 days prior to any action taken to certify the Final SEIR and approve the Proposed Project.

Regarding the request to have advance notice of a hearing, South Coast AQMD, is considered a local agency under CEQA and its process for review and certification of CEQA documents prepared for air permit projects is conducted by a non-elected decision-making body. As such, there is no requirement in the Public Resources Code or CEQA Statute to hold a hearing or provide advanced notice as part of reviewing and considering the information contained in the Final SEIR prior to approving the project.

It is important to note, however, that the SCL facility is subject to the federal Title V permit program and the notice of the Draft Title V permit was released for public review on September 30, 2025. For reference, a copy of this notice is provided, as follows:

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

NOTICE OF PROPOSED TITLE V SIGNIFICANT PERMIT REVISION PURSUANT TO RULES 212 AND 3006

This notice is to inform you that South Coast Air Quality Management District (South Coast AQMD) has received applications for the installation of a new landfill gas (LFG) flare, an increase in the site-wide LFG combustion limit, and updates to the equipment description of existing LFG flares to reflect common equipment at Sunshine Canyon Landfill Republic Services Inc. South Coast AQMD is the air pollution control agency for all of Orange County and portions of Los Angeles, Riverside, and San Bernardino Counties. Anyone wishing to install, operate, or modify equipment that could control or be as source of air pollution within this region must first obtain a permit from South Coast AQMD. Rule 212 requires the applicant for certain projects to distribute a public notice prepared by South Coast AQMD staff prior to the issuance of a permit. This combined Rule 212 and Title V notice is being distributed and published in accordance with South Coast AQMD Rule 212(g) and Rule 3006.

Applicant:
Sunshine Canyon Landfill Republic Services Inc. (Facility ID 49111)
Application Nos.:
598016, 598017, 657393, 657394, 657396, and 657397
Location:
14747 San Fernando Rd., Sylmar, CA 91342
Contact Person:
Michael Maglione, Team Environmental Manager
Project Description:
Installation of a new LFG flare, an increase in the site-wide LFG combustion limit, and updates to the equipment description of existing LFG flares to reflect common equipment.

Sunshine Canyon Landfill Republic Services Inc. is an active, Class III, non-hazardous Municipal Solid Waste (MSW) landfill located in Sylmar, CA. South Coast AQMD's rules require landfill owners/operators to collect and control LFG generated by the decomposition of waste to reduce methane and smog-forming emissions. The facility currently has the following active permitted equipment with South Coast AQMD: one (1) LFG collection system, five (5) enclosed LFG flares, two (2) portable LPG/propane fueled landfill tipper engines, two (2) portable diesel fueled landfill tipper engines, two (2) diesel fueled engines driving emergency generators, and one (1) leachate/condensate collection and treatment system. The proposed Title V permit revision includes the installation of one (1) 152 MMBtu/hr LFG flare, an increase in the site-wide LFG combustion limit, and updating the equipment description of existing LFG to reflect common equipment.

The project emissions are greater than the applicable thresholds in Rule 3000(b)(7); therefore, the revision is considered a significant permit revision. As required by Title V of the federal Clean Air Act, South Coast AQMD will revise the existing Title V permit of this facility to reflect the proposed installation of the new LFG flare, an increase in the site-wide LFG combustion limit, and updates to the equipment description of existing LFG flares to reflect common equipment. The Title V permit includes all the emission limits and operating conditions imposed on the equipment. The facility is required to certify compliance with the Title V permit in addition to recordkeeping and mandatory reporting of any deviation of the permit conditions. A Title V permit is enforceable by South Coast AQMD, by the federal government, and by citizens. Public notification for these applications is required pursuant to South Coast AQMD Rule 212(c)(2), Rule 212(g), and Rule 3006(a).

Calculations show that based on a 30-day average a maximum of 226.18 pounds per day of carbon monoxide (CO), 94.24 pounds per day of nitrogen oxides (NOx), 37.20 pounds per day of particulate matter (PM10), 22.57 pounds per day of volatile organic compounds (VOC), and 75.39 pounds per day of sulfur oxides (SOx) will be emitted from the new LFG flare. Generally, the actual emissions will be less, as most facilities do not operate at their maximum potential. The proposed operation of the equipment will also emit toxic compounds. South Coast AQMD staff has evaluated the health risks, including cancer risk, non-cancer acute (short-term) and chronic (long-term) health impacts associated with the maximum potential emissions. Using worst case conditions, staff's evaluation shows that all health risks are below the applicable South Coast AQMD thresholds.

South Coast AQMD staff has evaluated the permit application for the project and determined that all applicable air quality requirements in all applicable rules and regulations will be met. A copy of the air quality analysis for this project can be requested by contacting Ms. Angela Shibata, at (909) 396-2737 or by email at AShibata@aqmd.gov. The proposed permits for this project are available for public review on our website at https://onbase-pub.aqmd.gov/publicaccess/DatasourceTemplateParameter.aspx?MyQueryID=222 by entering the

Cleaning the air that we breathe...

company's name or facility ID number. Information regarding the facility owner's compliance history submitted or otherwise known by South Coast AQMD based on credible information, is also available from South Coast AQMD for public review and can be accessed at http://www.aqmd.gov/find by entering the company's name of facility ID number.

Anyone wishing to comment on the proposed project should submit their comments in writing by **November 4, 2025**. For any questions or concerns related to land use and zoning, please contact your local city or county planning department. Please submit comments related to air quality to Ms. Angela Shibata, Senior Air Quality Engineering Manager, Engineering and Permitting, South Coast AQMD, 21865 Copley Drive, Diamond Bar, CA 91765 or by email at AShibata@aqmd.gov. South Coast AQMD will consider all public comments and may revise the Title V permit in accordance with South Coast AQMD rules and regulations.

The public may request that South Coast AQMD conduct a public hearing on the proposed Title V permit by submitting a Hearing Request Form (Form 500-G) to Ms. Angela Shibata at the above South Coast AQMD address. The public hearing request must contain all the information requested on the form in order for South Coast AQMD to properly determine whether the request is valid and if a public hearing will be held. The public hearing request form may be obtained from the internet at http://www.aqmd.gov/docs/default-source/grants/500-g-form.pdf.

Requests for a public hearing must be submitted to South Coast AQMD no later than October 21, 2025. A copy of the hearing request must also be sent by first class mail to the facility contact person listed above at the same time.

Right to Petition U.S. Environmental Protection Agency (EPA) for Reconsideration: Title V Permits are also subject to review and approval by U.S. EPA. If a public comment is sent to South Coast AQMD for this permit, and South Coast AQMD has not addressed the comment in a satisfactory manner, and U.S. EPA has not objected to the proposed permit, then the public may submit a petition requesting that U.S. EPA reconsider the decision not to object. Petitions shall be submitted to U.S. EPA pursuant to the directions listed on U.S. EPA's Title V Petitions website (https://www.epa.gov/title-v-operating-permits/title-v-petitions) within 60 days after the end of the 45-day U.S. EPA review period. The U.S. EPA review period for this permit starts no earlier than September 30, 2025 and the review status may be found at https://permitsearch.epa.gov/oms-permit-hub/?media=air&type=TITLE_V&region=9.

Anyone experiencing air quality problems such as dust or odors can telephone in a complaint to South Coast AQMD by calling 1-800-CUT-SMOG (1-800-288-7664) or file a complaint online at http://www3.aqmd.gov/webappl/complaintsystemonline/NewComplaint.aspx.