Appendix I

Health Risk Assessment

HELIX Environmental Planning

Ontario International Airport Rehabilitation of Runway 8R-26L and Associated Improvements

Health Risk Assessment

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ACRONYMS AND ABBREVIATIONS

ADMRT	Air Dispersion Modeling and Risk Tool
AEDT	Aviation Environmental Design Tool
AERMAP	AERMOD terrain preprocessor
AERMOD	USEPA gaussian plume air dispersion model
ATC	Air Traffic Control
avgas	aviation gasoline
BACTs	best available control technologies
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CNS	Central Nervous System
DPM	Diesel Participate Matter
°F	Fahrenheit
FAA	Federal Aviation Administration
HAPs	hazardous air pollutants
HARP	Hotspots Analysis and Reporting Program
HI	hazard index
HRA	health risk assessment
IARC	International Agency on Research for Cancer
JPA	joint powers authority
LTO	landing – takeoff cycle
MATES	Multiple Air Toxics Exposure Study
MEIR	maximally exposed individual resident
MEIW	maximally exposed individual worker
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
ONT	Ontario International Airport
PM_{10}	particulate matter with 10 micron or smaller particle diameter
PMI	point of maximum impact
REL	Recommended Exposure Limit
ROFA	Runway Object Free Area
RSA	Runway Safety Area

ACRONYMS AND ABBREVIATIONS (cont.)

SCAB	South Coast Air Basin
SCAQMD	South Coast Metropolitan Air Quality Management District
SEIR	Supplemental Environmental Impact Report
TACs	toxic air contaminants
TOG	total organic gases
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UTM	Universal Transverse Mercator

EXECUTIVE SUMMARY

This report presents an assessment of potential increased cancer, non-cancer chronic, and acute health risks associated with implementation of the Ontario International Airport Rehabilitation of Runway 8R-26L and Associated Improvements Project (Project). Emissions of toxic air contaminants (TACs) were estimated for aircraft jet/turbine engine exhaust, aircraft piston engine exhaust, diesel particulate matter emissions from construction equipment exhaust, and dust emissions from the proposed concrete batch plant. Air dispersion modeling and health risk analysis was completed for four consolidated aircraft approach paths and nine consolidated aircraft departure paths, aircraft ground movement paths, construction equipment locations, and a concrete batch plant. The risk analysis considered the change in health risks to receptors around the airport during implementation of: (i) the Proposed Project, and (ii) a Two-Year Program Alternative that is being considered in the Supplemental Environmental Impact Report (SEIR) as an alternative to the Proposed Project. The increased cancer risk, non-cancer chronic hazard indices, and acute hazard indices for the maximally exposed individual resident, maximally exposed individual worker, and the closest sensitive receptor to the airport and off-site worker would be below their respective thresholds for both the Proposed Project and Two-Year Program Alternative. The Proposed Project would not result in changes to community health risks after Project implementation. The Project impact related to exposure of sensitive receptors to substantial concentrations of TACs would be less than significant.

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1.0 INTRODUCTION

This report presents an assessment of potential temporary increases in community health risk associated with the proposed Ontario International Airport Rehabilitation of Runway 8R-26L and Associated Improvements Project (Project).

1.1 PROJECT LOCATION

The Project site is located at the Ontario International Airport (ONT) at 2500 East Airport Drive, within the City of Ontario, California. The airport is owned/operated by the Ontario International Airport Authority under a joint powers authority (JPA) enacted by City of Ontario and County of San Bernardino. See Figure 1, *Regional Location*. The Project site is within the San Bernardino County portion of the South Coast Air Basin (SCAB). Air quality in the Project area is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

1.2 PROJECT DESCRIPTION

The Project would consist of rehabilitation and improvements at ONT to meet current Federal Aviation Administration (FAA) standards, improve safety, and enhance airfield efficiency. Connector taxiways would be reconstructed to align more closely with current FAA standards, as well as to improve pavement conditions for air traffic throughout the airfield. The proposed pavement sections would be designed for a 20-year life for all shoulder pavements, blast pad pavement, and for the new taxiway pavement. ONT has two parallel runways, the approximately 12,200-foot (2.3-mile) Runway 8L-26R and the approximately 10,200-foot (1.9-mile) Runway 8R-26L. Runway 8R-26L was built in 1979 and has exceeded the intended design service life of 20-years. The Project would include rehabilitation and reconstruction of Runway 8R-26L. Additionally, objects located within the Runway Safety Area (RSA) and Runway Object Free Area (ROFA) would be relocated to meet FAA standards, and the south electrical vault would be relocated. See Figure 2, *Site Plan*.

The proposed improvements would not result in increased runway capacity. During runway closure periods for Project implementation, all operations would occur on a single runway. Due to the two runways being parallel and closely spaced, temporarily operating on a single runway would not significantly alter flight patterns. A change in flight patterns during temporary runway closure periods may result from FAA Air Traffic Control (ATC) imposed restrictions on contra-flow operations (a noise mitigation strategy to minimize noise over residential areas at night). Depending on wind conditions, current contra-flow operations shift aircraft departures to the east at night. Restricting contra-flow operations would result in more aircraft departure to the west where residential areas are closer to the airport. Runway use and flight patterns would not be impacted after Project implementation.

1.2.1 Proposed Project Implementation Schedule

Proposed Project implementation is anticipated to occur over a three-year period, starting in January 2023 and completing in June 2025. Activities in 2023 are anticipated to last approximately 10 months and would include relocation of the south electrical vault and various taxiway pavement demolition and reconstruction. Activities in 2024 are anticipated to last approximately 10 months and would include rehabilitation of Runway 8R-26L, various taxiway pavement demolition and reconstruction, and

relocation of objects within the RSA and ROFA. Activities in 2025 are anticipated to last approximately 6 months and would include various taxiway pavement demolition and reconstruction.

1.2.2 Two-Year Program Alternative Implementation Schedule

Impacts resulting from a Two-Year Program Alternative implementation schedule were also analyzed in this report. The Two-Year Program Alternative would comprise the same proposed rehabilitation/ improvement activities described above but with a modified and compressed schedule. Specifically, activities would commence in January 2023 and be completed in October 2024, with 10 months of rehabilitation/improvements in each year. See *Chapter 8.0, Section 8.1.1 Two-Year Program Alternative* of the SEIR for details on the Two-Year Program Alternative.

2.0 AIR QUALITY SETTING

2.1 TOXIC AIR CONTAMINANTS AND PROJECT-RELATED SOURCES

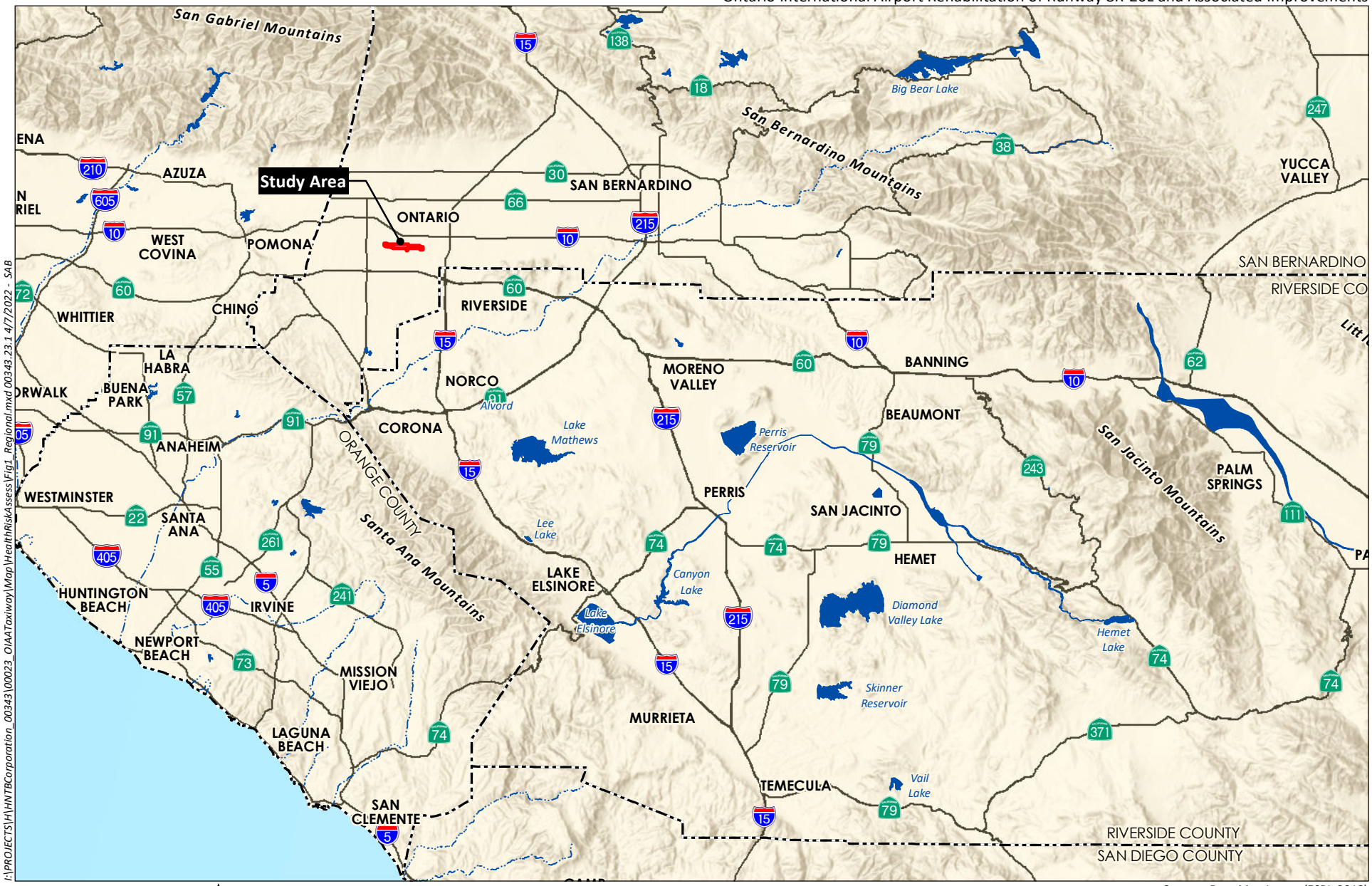
Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness or that may pose a present or potential hazard to human health. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute effects such as eye watering, respiratory irritation (a cough), runny nose, throat pain, and headaches. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For carcinogenic TACs, there is no level of exposure that is considered safe, and impacts are evaluated in terms of overall relative risk expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

2.1.1 Jet/Turbine Emissions

Exhaust from aircraft equipped with turbofan, turbojet and turboprop engines contains small amounts of organic compounds which have been classified as TACs by the California Air Resources Board (CARB), and as hazardous air pollutants (HAPs) by the U.S. Environmental Protection Agency ([USEPA] USEPA 2009a). Table 1, *Turbine Engine Exhaust Toxic Air Contaminants*, lists the TACs identified in jet/turbine engine exhaust and their health effects.

Table 1
TURBINE ENGINE EXHAUST TOXIC AIR CONTAMINANTS

Pollutant	Health Effects
1,3-Butadiene	Classified as a human carcinogen due to an association with occurrences of leukemia. Acute (short-term) exposure may result in irritation of the eyes, nasal passages, throat, and lungs. Neurological effects, such as blurred vision, fatigue, headache, and vertigo, have also been reported at very high exposure levels.[1]
Acetaldehyde	Acute exposure to acetaldehyde results in effects including irritation of the eyes, skin, and respiratory tract. Symptoms of chronic (long-term) intoxication of acetaldehyde resemble those of alcoholism. Considered a probable human carcinogen.[2]



Source: Base Map Layers (ESRI, 2013)

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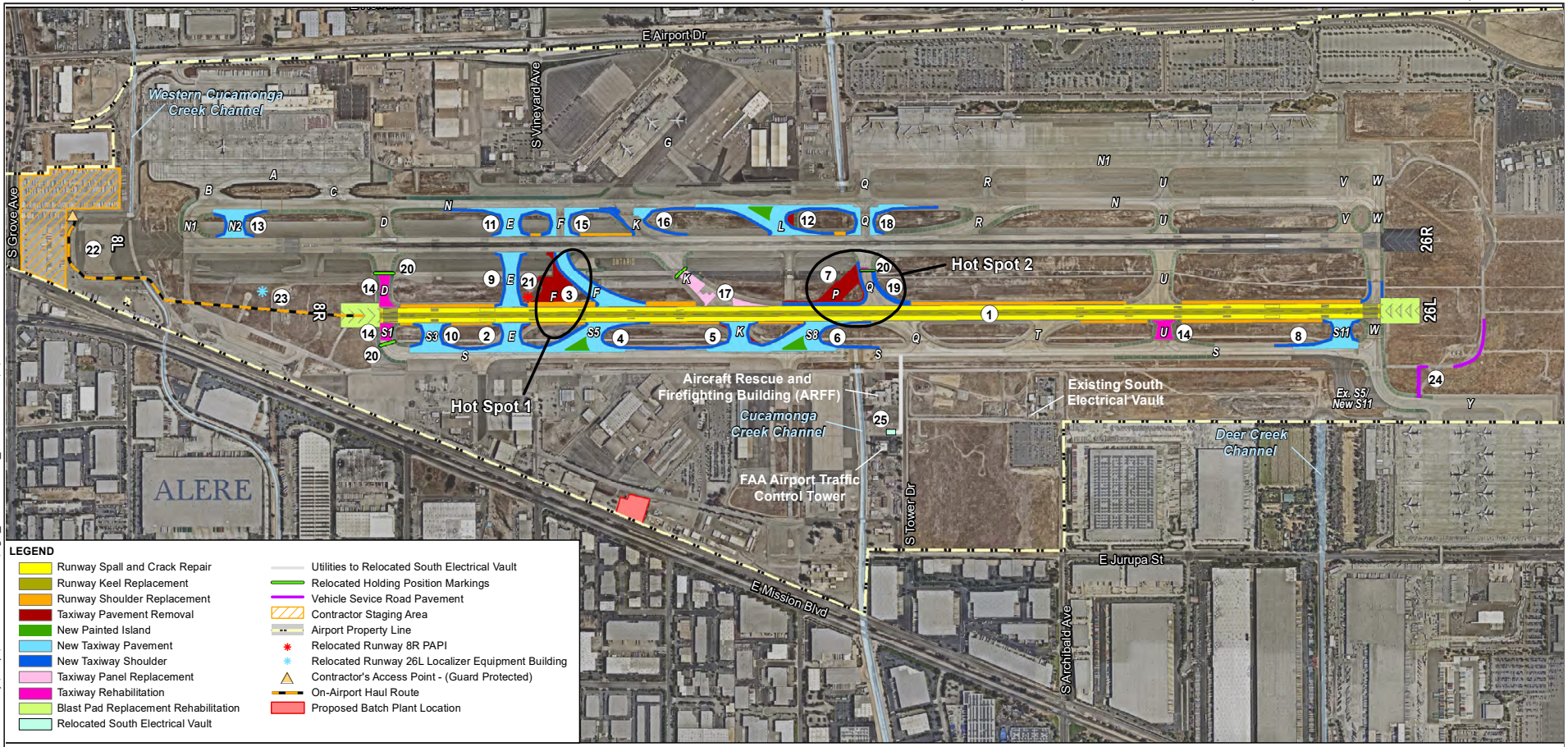
Regional Location

Figure 1



PROPOSED PROJECT ELEMENTS

(1) REHABILITATE RUNWAY 8R-26L
(2) MODIFY EXISTING CONNECTOR TAXIWAY F AND REDESIGNATE AS TAXIWAY E
(3) REMOVE EXISTING TAXIWAY F BETWEEN RUNWAYS 8L-26R AND 8R-26L AND CONSTRUCT NEW EXIT TAXIWAY F
(4) CONSTRUCT EXIT TAXIWAY S5
(5) RECONSTRUCT EXISTING EXIT TAXIWAY K
(6) RECONSTRUCT EXISTING EXIT TAXIWAY P TO A HIGH-SPEED EXIT AND REDESIGNATE AS TAXIWAY S8
(7) REMOVE EXISTING TAXIWAY P BETWEEN RUNWAYS 8L-26R AND 8R-26L
(8) CONSTRUCT BYPASS TAXIWAY S11
(9) CONSTRUCT CROSSING TAXIWAY E BETWEEN RUNWAYS 8R-26L AND 8L-26R
(10) CONSTRUCT BYPASS TAXIWAY S3
(11) CONSTRUCT CROSSING TAXIWAY E BETWEEN RUNWAYS 8L-26R AND TAXIWAY N
(12) RECONSTRUCT EXISTING TAXIWAY L AS A HIGH-SPEED EXIT TAXIWAY
(13) CONSTRUCT BYPASS TAXIWAY N2
(14) RESURFACE TAXIWAY D, TAXIWAY S1 AND TAXIWAY U PAVEMENT
(15) CONSTRUCT FILLET MODIFICATIONS ON TAXIWAY F BETWEEN RUNWAY 8L-26R AND TAXIWAY N
(16) CONSTRUCT FILLET MODIFICATIONS ON TAXIWAY K BETWEEN RUNWAY 8L-26R AND TAXIWAY N
(17) REPLACE/REHABILITATE PANELS ON TAXIWAY K BETWEEN RUNWAYS
(18) CONSTRUCT FILLET MODIFICATIONS ON TAXIWAY Q BETWEEN RUNWAY 8L-26R AND TAXIWAY N
(19) CONSTRUCT FILLET MODIFICATIONS ON TAXIWAY Q BETWEEN RUNWAYS
(20) RELOCATE HOLDING POSITION MARKINGS*
(21) RELOCATE RUNWAY 8R PAPI
(22) RELOCATE PERIMETER FENCE AND REMOVE OBJECTS WITHIN ROFA
(23) RELOCATE RUNWAY 26L (8R END) LOCALIZER EQUIPMENT BUILDING
(24) MODIFY EXISTING VEHICLE SERVICE ROAD
(25) RELOCATE SOUTH ELECTRICAL VAULT

* DEPICTED IN MULTIPLE LOCATIONS

Figure 2-5 December 2021

ONT ONTARIO INTERNATIONAL AIRPORT
REHABILITATION OF RUNWAY 8R-26L AND ASSOCIATED IMPROVEMENTS
SUPPLEMENTAL EIR

0 250 500 1,000 Feet

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HNTB

Proposed Project

Source:HNTB, 2021

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Site Plan

Figure 2

Pollutant	Health Effects
Acrolein	Acute inhalation exposure may result in upper respiratory tract irritation and congestion. No information is available on its reproductive, developmental, or carcinogenic effects in humans.[3]
Benzene	Acute inhalation exposure of humans to benzene may cause drowsiness, dizziness, headaches, as well as eye, skin, and respiratory tract irritation, and, at high levels, unconsciousness. Chronic inhalation exposure has caused various disorders in the blood. Classified as a known human carcinogen for all routes of exposure.[4]
Ethylbenzene	Acute exposure to ethylbenzene in humans results in respiratory effects, such as throat irritation and chest constriction, irritation of the eyes, and neurological effects such as dizziness.[5]
Formaldehyde	Acute and chronic inhalation exposure to formaldehyde in humans can result in respiratory symptoms, and eye, nose, and throat irritation. Limited human studies have reported an association between formaldehyde exposure and lung and nasopharyngeal cancer.[6]
Methanol	Acute or chronic exposure of humans to methanol by inhalation or ingestion may result in blurred vision, headache, dizziness, and nausea.[7]
Xylenes	Acute inhalation exposure to mixed xylenes in humans results in irritation of the eyes, nose, and throat, gastrointestinal effects, eye irritation, and neurological effects. Chronic inhalation exposure of humans to mixed xylenes results primarily in central nervous system (CNS) effects, such as headache, dizziness, fatigue, tremors, and incoordination; respiratory, cardiovascular, and kidney effects have also been reported.[8]
Naphthalene	Acute exposure of humans to naphthalene by inhalation, ingestion, and dermal contact is associated with hemolytic anemia, damage to the liver, and neurological damage. Chronic exposure of workers and rodents to naphthalene has been reported to cause cataracts and damage to the retina. Classified as a possible human carcinogen.[9]
Phenol	Phenol is highly irritating to the skin, eyes, and mucous membranes in humans after acute inhalation or dermal exposures. Phenol is considered to be quite toxic to humans via oral exposure.[10]
Propionaldehyde	Limited information is available on the health effects of propionaldehyde. No information is available on the acute, chronic, reproductive, developmental or carcinogenic effects of propionaldehyde in humans.[11]
Styrene	Acute exposure to styrene in humans results in mucous membrane and eye irritation, and gastrointestinal effects. Chronic exposure to styrene in humans results in effects on the CNS, such as headache, fatigue, weakness, and depression, CNS dysfunction, hearing loss, and peripheral neuropathy.[12]
Toluene	The CNS is the primary target organ for toluene toxicity in both humans and animals for acute and chronic exposures. CNS dysfunction and narcosis have been frequently observed in humans acutely exposed to elevated airborne levels of toluene; symptoms include fatigue, sleepiness, headaches, and nausea. Chronic inhalation exposure of humans to toluene also causes irritation of the upper respiratory tract and eyes, sore throat, dizziness, and headache.[13]

Source: [1] USEPA 2009b; [2] USEPA 2000a; [3] USEPA 2009c; [4] USEPA 2012a; [5] USEPA 2000b; [6] USEPA 2000c; [7] USEPA 2000d; [8] USEPA 2000e; [9] USEPA 2000f; [10] USEPA 2000g; [11] USEPA 2000h; [12] USEPA 2000i; [13] USEPA 2012b.

2.1.2 Piston-Powered Aircraft Emissions

Aviation gasoline (avgas) is the only remaining lead-containing transportation fuel in the United States. Lead in avgas prevents damaging engine knock, or detonation, that can result in a sudden engine failure. Lead particulate matter is emitted into the atmosphere in the exhaust from piston aircraft engines burning leaded avgas. Lead is a naturally occurring metallic element that is found in small amounts in the earth's crust. In addition to its status as a criteria pollutant, lead is listed as a TAC because,

depending on the level and duration of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. There is also a probable link between lead exposure and kidney cancer, brain cancer (gliomas), and lung cancer (USEPA 2021a).

2.1.3 Diesel Particulate Matter

Diesel engines, including those associated with construction equipment, emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is known as diesel particulate matter (DPM). Almost all DPM is 10 microns or less in diameter and 90 percent of DPM is less than 2.5 microns in diameter (CARB 2021). Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. In 1998, CARB identified DPM as a TAC based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM has a significant impact on California's population—it is estimated that about 70 percent of total known cancer risk related to air toxics in California is attributable to DPM (CARB 2021).

2.1.4 Concrete Batch Plants

A concrete batching plant is a combination of equipment that brings together water, air, cementitious mixtures, and other aggregate materials to produce concrete. Fugitive dust released during the transfer and mixing of the dry constituents in concrete can contain metallic compounds that have been classified as TACs (USEPA 2006). Table 2, *Concrete Batch Plant Toxic Air Contaminants*, lists the TACs identified in concrete batch plant dust emissions, and their health effects. Lead is also a potential contaminant emitted at concrete batch plants. The health effects of lead are discussed above.

Table 2
CONCRETE BATCH PLANT TOXIC AIR CONTAMINANTS

Pollutant	Health Effects
Arsenic	Acute (short-term), high-level inhalation exposure to inorganic arsenic has resulted in respiratory effects (cough, dyspnea, chest pain), gastrointestinal effects (nausea, diarrhea, abdominal pain), and central and peripheral nervous system effects. Chronic (long-term) inhalation exposure to inorganic arsenic in humans is associated with skin, cardiovascular, and neurological effects. Inorganic arsenic is classified as a human carcinogen.[1]
Beryllium	Acute inhalation exposure to high levels of beryllium has been observed to cause inflammation of the lungs or acute pneumonitis (reddening and swelling of the lungs) in humans; after exposure ends, these symptoms may be reversible. Chronic inhalation exposure of humans to beryllium has been reported to cause chronic beryllium disease (berylliosis). Classified as a probable human carcinogen.[2]
Cadmium	The acute effects of cadmium in humans through inhalation exposure consist mainly of effects on the lung, such as pulmonary irritation. Chronic inhalation or oral exposure to cadmium leads to a build-up of cadmium in the kidneys that can cause kidney disease. Animal studies have demonstrated an increase in lung cancer from long-term inhalation exposure to cadmium. Classified as a probable human carcinogen.[3]

Pollutant	Health Effects
Chromium	Chromium occurs in the environment primarily in two valence states, trivalent chromium (Cr III) and hexavalent chromium (Cr VI). Cr III is much less toxic than Cr VI. The respiratory tract is the major target organ for Cr VI toxicity, for acute and chronic inhalation exposures. Shortness of breath, coughing, and wheezing were reported from a case of acute exposure to Cr VI, while perforations and ulcerations of the septum, bronchitis, decreased pulmonary function, pneumonia, and other respiratory effects have been noted from chronic exposure. Human studies have clearly established that inhaled Cr VI is a human carcinogen, resulting in an increased risk of lung cancer.[4]
Manganese	Manganese is essential for normal physiologic functioning in humans and animals, and exposure to low levels of manganese in the diet is considered to be nutritionally essential in humans. Chronic exposure to high levels of manganese by inhalation in humans may result in CNS effects.[5]
Nickel	Nickel is an essential element in some animal species, and it has been suggested it may be essential for human nutrition. Nickel dermatitis, consisting of itching of the fingers, hands, and forearms, is the most common effect in humans from chronic skin contact with nickel. The EPA has classified nickel refinery dust and nickel subsulfide as a human carcinogen, and nickel carbonyl as a probable human carcinogen.[6]
Selenium	Selenium is a naturally occurring substance that is toxic at high concentrations but is also a nutritionally essential element. Hydrogen selenide is the most acutely toxic selenium compound. Acute exposure to elemental selenium, hydrogen selenide, and selenium dioxide by inhalation results primarily in respiratory effects, such as irritation of the mucous membranes, pulmonary edema, severe bronchitis, and bronchial pneumonia. Epidemiological studies of humans chronically exposed to high levels of selenium in food and water have reported discoloration of the skin, pathological deformation and loss of nails, loss of hair, excessive tooth decay and discoloration, lack of mental alertness, and listlessness. Selenium sulfide is classified as a probable human carcinogen.[7]

Source: [1] USEPA 2021b; [2] USEPA 2000j; [3] USEPA 2000k; [4] USEPA 2000l; [5] USEPA 2016; [6] USEPA 2000m; [7] USEPA 2000n.

2.2 SENSITIVE RECEPTORS

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005; OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptors. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. For health risk assessments, the health impacts are analyzed for individual residents assumed to be standing in their primary outdoor spaces closest to the source of TACs and for individual off-site workers assumed to be standing outside of a commercial or industrial building.

Land uses surrounding ONT are primarily industrial/commercial. Distances from the ONT boundary to residential zoned areas are approximately 1,200 feet (0.23 miles) to the northwest, 1,300 feet (0.25 miles) to the southwest, 2,800 feet (0.53 miles) to the north, 3,600 feet (0.68 miles) to the west, and 6,500 feet (1.2 miles) to the south. However, there also are some residences located within the industrial/commercial areas to the west and south. The closest existing sensitive receptor to the Project is a single-family residence on South Grove Avenue, approximately 200 feet north of the airport boundary (approximately 2,000 feet northwest of Runway 8L-26R). The closest school to ONT is the Mariposa Elementary School, approximately 2,000 feet (0.38 miles) north of the airport boundary. The

closest hospital to ONT is the Kaiser Permanente Ontario Vineyard hospital approximately 5,300 feet (1 mile) south of the airport boundary. See Figure 3, *Receptor Locations.*

3.0 METHODOLOGY

Potential temporary changes in health risks to nearby sensitive receptors from the emission of TACs during implementation of the Project were analyzed in accordance with applicable portions of the OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015) and the SCAQMD *Modeling Guidance for AERMOD* (SCAQMD 2022a).

3.1 DISPERSION MODELING

Localized concentrations of pollutants were modeled using Lakes AERMOD View version 10.2.1. The Lakes program utilizes the USEPA's AERMOD gaussian air dispersion model version 21112. Plot files from AERMOD using unitized emissions (one gram per second) for each TAC source were imported into CARB's Hotspots Analysis and Reporting Program (HARP), Air Dispersion Modeling and Risk Tool (ADMRT) version 21081. Using the AERMOD plot files and the emissions inventory, the ADMRT calculates ground-level concentrations of TACs. TACs sources were modeled for those aircraft movement paths that have the potential to result in shifts of emission dispersion during Project implementation, including taxi-out, takeoff roll, climb, approach, landing roll, and taxi-in. In addition, emissions from diesel-powered construction equipment used at ONT during Project implementation and emissions from the concrete batch plant were modeled.

Note that the air quality and GHG emissions analysis prepared for the SEIR addresses those aircraft movement paths that would experience changes in mass emissions (taxi-out and taxi-in) as a result of the Project, specifically attributable to changes in aircraft taxiing times resulting from temporary runway closures and suspension of Contra Flow. The mass emissions attributable to other aircraft movement paths (takeoff roll, climb, approach, and landing roll) would not be impacted by Project implementation, however the dispersion pattern would change due to shifts in aircraft flight locations during temporary runway closures and suspension of Contra Flow. Therefore, this HRA considers the full landing-takeoff cycle for purposes of dispersion modeling.

Operational emissions sources at ONT which are not anticipated to change substantially during Project implementation (including helicopter operations, ground support equipment, and on-road vehicles) were not included in the modeling.

3.1.1 Source Parameters

3.1.1.1 Aircraft Movements

The locations and altitudes of aircraft flight paths approaching and departing ONT can vary greatly depending on ATC instruction and weather conditions. HNTB Corporation (HNTB), the engineering firm contracted for Project design and Project environmental analysis, provided data for 338 approach and departure paths extending up to 75 miles from ONT. Due to the impracticality of dispersion modeling for all flight paths, approach and departure paths were consolidated to four (4) representative approach and nine (9) representative departure paths. Selection of the consolidated paths considered the annual volumes of all paths and location relative to the closest sensitive receptors to ONT. This consolidation of

Airport Property
Modeled Receptor
Modeled Receptor - Maximally Exposed Individual Resident (MEIR)
Modeled Receptor - Maximally Exposed Individual Worker (MEIW)/Point of Maximum Impact (PMI)

Sensitive Areas

Hospital
Residence
School

S4 S5 R19 R17 R18 R16 R15 R14 R13 R12 R11 R22 R21 R20 MEIW/PMI (Chronic & Acute) R10/MEIR (Cancer) R9/MEIR (Chronic & Acute) R8 R7 S3 S1 S2 R6 R5 H1 MEIW/PMI (Cancer) R1 R4 R3 R2

S. VINEYARD AVE
E. HOLT BLVD
S. GROVE AVE
E. AIRPORT DR
S. TOWER DR
JURUPA ST
MISSION BLVD
S. ARCHIBALD AVE
HWY 60
ALERE

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0 2,200 Feet

Source: Aerial (HNTB, 2022)

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Receptor Locations

Figure 3

flight paths in the modeling is generally conservative (health protective) because it results in much higher initial concentrations of pollutants.

In addition to the flight paths, a takeoff and a landing ground roll path was modeled for each runway. Because there are a myriad of potential aircraft taxi patterns for arriving and departing aircraft, taxi patterns were consolidated in the modeling to include an arrival and a departure taxi path from the runway ends (8L/8R and 26L/26R) to the commercial terminal ramp.

In addition to variations in flight paths due to ATC and weather, flight takeoff ground roll, departure path climb angle, and landing ground roll are dependent on aircraft performance. To determine average ground roll and climb angle at ONT, data was collected for aircraft which departed ONT with a filed flight plan during a 24-hour period on February 28 and March 1, 2022 (FlightAware 2022) and combined with aircraft performance data (EUROCONTROL 2022). For ONT, the estimated average landing ground roll is 1,491 meters (0.93 mile); the estimated average takeoff ground roll is 2,109 meters (1.31 miles); and the estimated average climb angle is 7.4 degrees. The aircraft performance calculations are included in Appendix A, *Dispersion Modeling Input*. Departure flight paths were modeled from the point of liftoff to the emissions mixing height of 2,402 feet (732 meters) above ground level (AGL), recommended in the SCAQMD's 2016 Air Quality Management Plan (SCAQMD 2017a), approximately 5,661 meters (3.5 miles) horizontal distance from the runway at 7.4 degrees. The approach paths were modeled extending 5,000 meters (3.1 miles) to the touchdown target of each runway. The approach angle was set to the visual glide slope approach light system's angle of 3 degrees for all runways.

Emissions sources involving moving aircraft including taxi-out, takeoff roll, climb, approach, and landing roll, and taxi-in, were modeled as volume line sources. To account for the initial spread of the plume due to the lift from the wings, engine thrust and the aircraft wake, the initial plume height was set at two times the typical aircraft height (4.8 meters [15.7 feet]) and the initial plume width was set at approximately 2 times the typical wingspan (34.3 meters [113 feet]) of the most common aircraft operating at ONT—the Boeing 737. The release height was set at the typical Boeing 737 engine center height of approximately 1.5 meters (5 feet). The modeled aircraft volume line sources are shown in Table 3, *Aircraft Movement Volume Line Sources*. A figure showing the line source locations is included in Appendix A.

Table 3
AIRCRAFT MOVEMENT VOLUME LINE SOURCES

ID	Description	Length (meters)	Angle (degrees)
A08LGR	Approach 8L, landing roll	1,491	-
A08LSI	Approach 8L, straight in	5,000	3
A08RGR	Approach 8R, landing roll	1,491	-
A08RSI	Approach 8R, straight in	5,000	3
A026LGR	Approach 26L, landing roll	1,491	-
A26LSI	Approach 26L, straight in	5,000	3
A26RGR	Approach 26R, landing roll	1,491	-
A26RSI	Approach 26R, straight in	5,000	3
A08TX	Arrival 8L and 8R Taxi into the ramp	1,137	-
A26TX	Arrival 26L and 26R Taxi into the ramp	1,430	-
D08LGR	Departure 08L, takeoff roll	2,109	-
D08LRC	Departure 08L, right crosswind (90-degree right turn)	5,661	7.4

ID	Description	Length (meters)	Angle (degrees)
D08LSO	Departure 08L, straight out	5,661	7.4
D08RGR	Departure 08R, takeoff roll	2,109	-
D08RRC	Departure 08R, right crosswind (90-degree right turn)	5,661	7.4
D26LGR	Departure 26L, takeoff roll	2,109	-
D26LLC	Departure 26L, left crosswind (90-degree left turn)	5,661	7.4
D26LRT	Departure 26L, right turn (30-degree right turn)	5,661	7.4
D26LSO	Departure 26R, straight out	5,661	7.4
D26RGR	Departure 26R, takeoff roll	2,109	-
D26RLC	Departure 26R, left crosswind (90-degree left turn)	5,661	7.4
D26RRT	Departure 26R, right turn (30-degree right turn)	5,661	7.4
D26RSO	Departure 26R, straight out	5,661	7.4
D08TX	Departure 8L and 8R Taxi to the runway	2,505	-
D26TX	Departure 26L and 26R Taxi to the runway	1,810	-

Source: FlightAware 2022; EUROCONTROL 2022. See Appendix A for model inputs.

3.1.1.2 Construction Equipment

Emissions from diesel powered construction equipment were modeled using four area sources corresponding to areas where the most intense use of equipment would occur: 2023 electrical vault; 2023 taxiways; 2024 Runway 8R-26L rehabilitation; and 2025 taxiways. Area sources were modeled with a release height of 2.5 meters (8 feet) representing the typical exhaust stack height of off-road construction equipment.

3.1.1.3 Concrete Batch Plant

Emissions for the concrete batch plant were modeled as a volume source representing the size of a typical small batch plant—approximately 50 meters (164 feet) wide by 10 meters (32.8 feet) high. The release height was set at 3 meters (9.8 feet) representing an average dry material transfer height. See Figure 2 for the batch plant location.

3.1.1.4 Variable Emissions

Variable emissions factors consisting of the fraction of the peak hour emissions were applied to all emissions sources for each hour of the day, day of the week, and month of the year. The variable factors were based on the peak period figures for operation by month, operations by day, and operations by hour of day for ONT provided by HNTB. The variable emissions factors used in the modeling are included in Appendix A to this report.

3.1.2 Meteorological Data

The SCAQMD provides pre-processed meteorological data suitable for use with AERMOD for projects within the SCAB (SCAQMD 2017b). The available data set most representative of conditions in the Project vicinity was from the ONT station. The ONT set includes five years of data collected between 2012 to 2016. Urban dispersion coefficients were selected in the model using the population of San Bernardino County, as recommended by SCAQMD. A wind rose for the ONT shows an average speed of 7.7 miles per hour from the south-southeast (SCAQMD 2017b). The wind rose graphic is included in Appendix A to this report.

3.1.3 Terrain Data

United States Geological Survey (USGS) National Elevation Dataset (NED) files with a 30-meter resolution covering an area approximately 10 kilometers around the airport site were used in the model to cover the analysis area. Terrain data was imported to the model using AERMAP (a terrain preprocessing program for AERMOD).

3.1.4 Modeled Receptors

To develop risk isopleths (linear contours showing equal level of risk) and ensure that the area of maximum impact was captured, receptors were placed in a cartesian grid 12,500 meters by 7,500 meters (approximately 7.8 miles by 4.7 miles), centered on the Project site with a grid spacing of 250 meters (820 feet). An additional cartesian grid 1,400 meters by 1,400 meters (approximately 0.87 by 0.87 mile) with a grid spacing of 100 meters (328 feet) was placed at the west end of the airport. To represent approximate standing human breathing height, receptors were placed at a height (flagpole height) of 1.2 meters (4 feet) above the ground. Fence line boundary receptors were place around the perimeter of ONT at 100-meter (328-foot) intervals, and an additional tier of perimeter receptors was added 100 meters outside of the ONT perimeter at 100-meter intervals. Additional discrete receptors were placed at 28 sensitive receptor locations identified as closest to the ONT boundary or flight paths. See Figure 3 for the discrete receptor locations. Because ONT is surrounded by commercial/industrial land uses, rather than place additional discrete receptors for worker locations, all modeled receptors in the uniform cartesian grid and airport perimeter were assumed to be worker locations.

3.2 TAC EMISSIONS

HNTB modeled aircraft emissions for each phase of aircraft movement and each year/scenario for the Project using the FAA's Aviation Environmental Design Tool (AEDT). Emissions of TACs from jet/turbine powered aircraft were calculated from the emissions of total organic gasses (TOG) provided by HNTB and the speciated fraction of TACs in jet/turbine exhaust TOG in the USEPA's *Recommended Best Practice for Quantifying Speciated Organic Gas Emissions from Aircraft Equipped with Turbofan, Turbojet, and Turboprop Engines* (USEPA 2009a). The mass fraction of each evaluated TAC is shown in Table 4, *Aircraft Turbine Exhaust TAC Mass Fractions*.

Table 4
AIRCRAFT TURBINE EXHAUST TAC MASS FRACTIONS

Compound	CAS Registry Number	Mass Fraction in TOG
1,3-Butadiene	106-99-0	0.01687
Acetaldehyde	75-07-0	0.04272
Acrolein	107-02-8	0.02449
Benzene	71-43-2	0.01681
Ethylbenzene	100-41-4	0.00174
Formaldehyde	50-00-0	0.12310
Methanol	67-56-1	0.01805
m-xylene	108-38-3	0.00282
Naphthalene	91-20-3	0.00541
o-xylene	95-47-6	0.00166
Phenol	108-95-2	0.00726
Propionaldehyde	123-38-6	0.00727

Compound	CAS Registry Number	Mass Fraction in TOG
Styrene	100-42-5	0.00309
Toluene	108-88-3	0.00642

Source: USEPA 2009a.

The AEDT does not report lead emissions in aircraft exhaust. Estimates of the lead emissions from piston-powered aircraft were based on the methodology from the USEPA's *Calculating Piston-Engine Aircraft Airport Inventories for Lead for the 2008 National Emissions Inventory* (USEPA 2010). The USEPA's method provides a formula based on fuel consumption data for airport average aircraft fleet mix for a landing takeoff cycle (LTO). To break emissions by phase of flight, the percentage of jet fuel consumption for each phase of the LTO was calculated from the AEDT data provided by HNTB for jet fuel consumption, assuming that the percentages of leaded avgas consumption for each phase of the LTO would be similar. Although an unleaded alternative avgas has been approved by the FAA for some aircraft engines, the lead emissions inventory assumes all piston engine aircraft operating at ONT would use leaded avgas. Data for total annual piston engine aircraft LTOs was provided by HNTB.

The Project construction equipment emissions were modeled by HNTB using the California Emissions Estimator Model (CalEEMod). The on-site exhaust particulate matter with 10 micron or smaller particle diameter (PM_{10}) emissions reported by CalEEMod is a proxy for the on-site DPM emissions. The DPM emissions inventory assumes implementation of USEPA Tier 4 certified engines, which includes control of exhaust particulate matter emissions.

Concrete batch plant emissions of TACs were calculated using emissions factors (pounds TAC per cubic yard [CY] of concrete mixed) and data in the USEPA's *AP-42 Compilation of Emissions Factors*, Chapter 11.12 Concrete Batching (USEPA 2006). In accordance with the SCAQMD Rule 403 requirement for control of fugitive dust, the batch plant emissions inventory assumes emissions controlled with fabric filtration (e.g., a baghouse) and water spray for dust control. The estimated throughput for the Project's batch plant was provided by HNTB: 2023 – 44,291 CY; 2024 – 36,272 CY; and 2025 – 20,488 CY. For the Two-Year Program Alternative, the concrete throughput for 2024 and 2025 are assumed to be combined.

The TAC emissions inventory and calculation sheet printouts are included in Appendix B, *Risk Modeling Input/Output*.

3.3 RISK DETERMINATION

Health risks resulting from localized concentrations of TACs were estimated using the ADMRT. The latest cancer slope factors, chronic Recommended Exposure Limits (RELs), and exposure paths for all TACs designated by CARB are included in the ADMRT. For the residential cancer risk, each year of Project implementation was evaluated separately with an exposure duration of one year, starting with the age bin for infants in utero in the third trimester of pregnancy. The cancer risk results for each year were summed to calculate the total cancer risk during the Project implementation period. The Project's incremental increase in cancer risk is based on the emissions associated with the Project's implementation. For non-cancer chronic and acute health risks, the maximum hazard index (HI) was calculated for each year of Project implementation. The highest HI for all years would be the maximum HI during the Project implementation period. The Project's incremental increase in non-cancer chronic and acute health risks is based on the emissions associated with the Project's implementation.

The model conservatively assumes that residents would be standing and breathing outdoors at the location of the property line or primary outdoor space closest to the airport or flight paths between 17 and 21 hours per day (depending on the age group), starting with infants in utero in the third trimester of pregnancy for the first year of Project implementation, then infants age 0 for the second year of Project implementation, and infants age 1 for the third year of Project implementation. Although the Project would not be subject to the *Air Toxics "Hot Spots" Information and Assessment Act* (AB 2588), or to the SCAQMD Rule 1402, the applicable portions of the SCAQMD's *AB 2588 and Rule 1402 Supplemental Guidelines* were followed in selecting parameters in the ADMRT (SCAQMD 2020). In accordance with the SCAQMD's supplemental guidelines, the following non-default ADMRT options were selected: the RMP derived intake rate percentile method (for residential risks only); mandatory minimum pathways plus the home grown produce pathway (for residential risks only); 0.02 m/s deposition rate (for non-inhalation pathways); and warm climate (for the dermal pathway). For off-site worker cancer risk, an exposure duration of one year was selected with an assumption of eight hours per day, five days per week of exposure while standing outside, in accordance with the OEHHA guidelines.

3.4 SIGNIFICANCE CRITERIA

To assess exposure to substantial TAC concentrations, the SCAQMD recommends the following thresholds for the Project's incremental contribution to community health risks (SCAQMD 2019):

Maximum Incremental Cancer Risk – An increased risk equal to or greater than 10 in 1 million for the maximally exposed individual to project emissions is considered to result in a significant impact.

Cancer Burden – 0.5 or more excess cancer cases in areas exposed to an incremental cancer risk greater than 1 in million over a 70-year exposure is considered to be a significant impact.

Chronic and Acute Health Risk – An HI equal to or greater than 1 for the maximally exposed individual to project emissions is considered to result in a significant impact.

4.0 HEALTH RISK IMPACT ANALYSIS

The incremental excess cancer risk is an estimate of the chance a person exposed to a specific source of a TAC may have of developing cancer from that exposure beyond the individual's risk of developing cancer from existing background levels of TACs in the ambient air. For context, the average cancer risk from TACs in the ambient air for an individual living in an urban area of California is 830 in 1 million (CARB 2015). The SCAQMD has conducted studies on carcinogenic risk from exposure to air toxics in the SCAB. The most recent is the Multiple Air Toxics Exposure Study V (MATES V). According to the MATES Data Visualization interactive tool, the area around ONT has a cumulative cancer risk of 600 in 1 million (SCAQMD 2022b). Cancer risk estimates do not mean, and should not be interpreted to mean, that a person will develop cancer from estimated exposures to toxic air pollutants.

4.1 MEIR AND MEIW

The maximum estimated community health risks are determined by evaluating the increased cancer risk and non-cancer chronic risks for the maximally exposed individual resident (MEIR) and off-site maximally

exposed individual worker (MEIW). To be conservative (health protective), sensitive receptors located at the closest school and closest hospital were evaluated using the residential risk parameters (age bins starting utero in the third trimester of pregnancy; 17 to 21 hours per day exposure).

The incremental excess cancer and chronic risks for the MEIR resulting from implementation of the Project are presented in Table 5, *Maximally Exposed Individual Resident Incremental Health Risk*. These estimates are conservative (health protective) and assume that the resident is outdoors for the entire exposure period. The locations of the MEIR are shown in Figure 3. As shown in Table 5, health risks for the MEIR would not exceed the SCAQMD's thresholds for either the Proposed Project or the Two-Year Program Alternative. For the MEIR, the Two-Year Program Alternative would result in slightly lower cancer risks, non-cancer chronic HI, and acute HI, compared to the Proposed Project.

Table 5
MAXIMALLY EXPOSED INDIVIDUAL RESIDENT INCREMENTAL HEALTH RISK

	MEIR Cancer Risk	MEIR Chronic Hazard Index	MEIR Acute Hazard Index
Proposed Project	3.0 in 1 million	0.11	0.45
Two-Year Program Alternative	2.2 in 1 million	0.08	0.22
Threshold	10 in 1 million	1	1
Exceed Threshold?	No	No	No

Source: Lakes AERMOD View, CARB ADMRT. See Appendix B for model inputs and outputs.

The incremental excess cancer and chronic risks for the MEIW resulting from implementation of the project are presented in Table 6, *Maximally Exposed Individual Worker Incremental Health Risk*. These estimates are conservative (health protective) and assume that the worker is outdoors for the entire exposure period. The locations of the MEIW are shown in Figure 3. As shown in Table 6, health risks for the MEIW would not exceed the SCAQMD's thresholds for either the Proposed Project or the Two-Year Program Alternative. For the MEIR, the Two-Year Program Alternative would result in slightly lower cancer risks, non-cancer chronic HI, and acute HI, compared to the Proposed Project.

Table 6
MAXIMALLY EXPOSED INDIVIDUAL WORKER INCREMENTAL HEALTH RISK

	MEIW Cancer Risk	MEIW Chronic Hazard Index	MEIW Acute Hazard Index
Proposed Project	0.4 in 1 million	0.18	0.54
Two-Year Program Alternative	<0.1 in 1 million	0.27	0.54
Threshold	10 in 1 million	1	1
Exceed Threshold?	No	No	No

Source: Lakes AERMOD View, CARB ADMRT. See Appendix B for model inputs and outputs.

The point of maximum impact (PMI; off-site) for cancer risks would be the location of the MEIW, at the airport property line near the location of the proposed concrete batch plant, at approximately Universal Transverse Mercator (UTM) coordinates Zone 11, 4443897 meters East, 3767796 meters North. The location of the PMI is shown in Figure 3. No sensitive receptors are located near the PMI for cancer risks.

4.2 SENSITIVE RECEPTOR HEALTH RISKS

The estimated incremental excess cancer risks due to exposure to the Project's TAC emissions for each modeled discrete sensitive receptor (shown in Figure 3) are presented in Table 7, *Discrete Sensitive Receptor Incremental Cancer Risk*. The model inputs, outputs, and risk isopleth figures are available in Appendix B to this report. As shown in Table 7, the incremental increase in cancer risk would not exceed the SCAQMD's threshold of 10 in 1 million for any sensitive receptor for the either the Proposed Project or the Two-Year Program Alternative. For sensitive receptors, the Two-Year Program Alternative would result in slightly lower cancer risks, compared to the Proposed Project.

Table 7
DISCRETE SENSITIVE RECEPTOR INCREMENTAL CANCER RISK

Receptor	Proposed Project Risk (chances per million)	Two-Year Program Alternative Risk (chances per million)
R1, Residence	-0.4 in 1 million	-0.5 in 1 million
R2, Residence	-0.5 in 1 million	-0.4 in 1 million
R3, Residence	-0.3 in 1 million	-0.3 in 1 million
R4, Residence	-0.2 in 1 million	-0.2 in 1 million
R5, Residence	-0.1 in 1 million	-0.1 in 1 million
R6, Residence	0.1 in 1 million	<0.1 in 1 million
R7, Residence	2.6 in 1 million	2.2 in 1 million
R8, Residence	0.4 in 1 million	<0.1 in 1 million
R9, Residence	3.0 in 1 million	1.2 in 1 million
R10, Residence	3.0 in 1 million	1.6 in 1 million
R11, Residence	0.5 in 1 million	0.4 in 1 million
R12, Residence	0.4 in 1 million	0.3 in 1 million
R13, Residence	0.2 in 1 million	0.2 in 1 million
R14, Residence	0.1 in 1 million	0.1 in 1 million
R15, Residence	<0.1 in 1 million	<0.1 in 1 million
R16, Residence	-0.2 in 1 million	-0.2 in 1 million
R17, Residence	-0.2 in 1 million	-0.2 in 1 million
R18, Residence	-0.3 in 1 million	-0.2 in 1 million
R19, Residence	-0.2 in 1 million	-0.2 in 1 million
R20, Residence	1.0 in 1 million	1.0 in 1 million
R21, Residence	0.6 in 1 million	0.6 in 1 million
R22, Residence	0.4 in 1 million	0.3 in 1 million
S1, School	1.7 in 1 million	1.1 in 1 million
S2, School	1.5 in 1 million	1.1 in 1 million
S3, School	1.5 in 1 million	1.4 in 1 million
S4, School	<0.1 in 1 million	<0.1 in 1 million
S5, School	0.1 in 1 million	0.1 in 1 million
H1, Hospital	-0.1 in 1 million	-0.1 in 1 million

Source: Lakes AERMOD View and CARB ADMRT. See Appendix B for model inputs, outputs, and risk isopleths.

The estimated incremental non-cancer chronic risk due to exposure to the Project's TAC emissions for each modeled discrete sensitive receptor (shown in Figure 3) is presented in Table 8, *Discrete Sensitive Receptor Incremental Chronic Risk*. The model inputs, outputs, and risk isopleth figures are available in Appendix B to this report. As shown in Table 8, the incremental increase in non-cancer chronic HI would

not exceed the SCAQMD's threshold of 1 for any sensitive receptor for the either the Proposed Project or the Two-Year Program Alternative. For sensitive receptors, the Two-Year Program Alternative would result in slightly lower non-cancer chronic HI, compared to the Proposed Project.

Table 8
DISCRETE SENSITIVE RECEPTOR INCREMENTAL CHRONIC RISK

Receptor	Proposed Project (HI)	Two-Year Program Alternative (HI)
R1, Residence	0.01	<0.01
R2, Residence	<0.01	-0.01
R3, Residence	<0.01	<0.01
R4, Residence	<0.01	<0.01
R5, Residence	<0.01	<0.01
R6, Residence	0.01	<0.01
R7, Residence	0.08	0.08
R8, Residence	0.02	<0.01
R9, Residence	0.11	0.07
R10, Residence	0.08	0.04
R11, Residence	0.02	0.02
R12, Residence	0.02	0.02
R13, Residence	0.01	0.01
R14, Residence	0.01	0.01
R15, Residence	0.01	0.01
R16, Residence	<0.01	<0.01
R17, Residence	<0.01	<0.01
R18, Residence	<0.01	<0.01
R19, Residence	<0.01	<0.01
R20, Residence	0.06	0.06
R21, Residence	0.04	0.04
R21, Residence	0.04	0.03
S1, School	0.02	0.02
S2, School	0.04	0.04
S3, School	0.05	0.05
S4, School	<0.01	<0.01
S5, School	0.01	0.01
H1, Hospital	<0.01	<0.01

Source: Lakes AERMOD View and CARB ADMRT. See Appendix B for model inputs, outputs, and risk isopleths.

The estimated incremental non-cancer chronic risk due to exposure to the Project's TAC emissions for each modeled discrete sensitive receptor (shown in Figure 3) is presented in Table 9, *Discrete Sensitive Receptor Incremental Acute Risk*. The model inputs, outputs, and risk isopleth figures are available in Appendix B to this report. As shown in Table 9, the incremental increase in non-cancer acute HI would not exceed the SCAQMD threshold of 1 for any sensitive receptor for the either the Proposed Project or the Two-Year Program Alternative. For sensitive receptors, the Two-Year Program Alternative would result in slightly lower acute HI except for receptor S5, which would have a slight increase in Acute HI, compared to the Proposed Project.

Table 9
DISCRETE SENSITIVE RECEPTOR INCREMENTAL ACUTE RISK

Receptor	Proposed Project (HI)	Two-Year Program Alternative (HI)
R1, Residence	0.07	-0.03
R2, Residence	-0.05	-0.07
R3, Residence	<0.01	-0.01
R4, Residence	0.01	<0.01
R5, Residence	0.01	<0.01
R6, Residence	0.01	<0.01
R7, Residence	0.14	0.14
R8, Residence	0.05	-0.11
R9, Residence	0.45	0.13
R10, Residence	0.27	-0.01
R11, Residence	<0.01	<0.01
R12, Residence	-0.03	-0.03
R13, Residence	<0.01	<0.01
R14, Residence	0.05	0.05
R15, Residence	0.05	0.05
R16, Residence	0.10	0.10
R17, Residence	0.05	0.05
R18, Residence	0.03	0.03
R19, Residence	0.03	0.03
R20, Residence	0.15	0.15
R21, Residence	-0.03	-0.03
R22, Residence	-0.03	-0.06
S1, School	0.17	0.13
S2, School	0.18	0.18
S3, School	0.22	0.22
S4, School	0.01	0.01
S5, School	0.02	0.13
H1, Hospital	0.01	<0.01

Source: Lakes AERMOD View and CARB ADMRT. See Appendix B for model inputs, outputs, and risk isopleths.

4.3 CANCER BURDEN

The cancer burden is the estimated increase in the occurrence of cancer cases from a source or facility over a 70-year exposure duration. The Project would involve short-term and temporary airport runway rehabilitation and associated improvement activities, anticipated to last a maximum duration of three years. Once implementation of the Project is complete, the Project would not result in any long-term changes in emissions at ONT. Therefore, an analysis of cancer burden is not applicable to the Project.

4.4 CUMULATIVE HEALTH RISKS

Air quality cumulative health risks are the total risks from all sources of pollutants affecting a community or individual sensitive receptor. Cumulative sources of pollutants in the vicinity of ONT include on-road vehicles (e.g., high volume roadways), aircraft emissions, off-road equipment (e.g., airport ground support equipment, construction equipment), permitted stationary sources (e.g., gas stations), diesel-powered emergency generators, and other industrial sources. As discussed above, the SCAQMD

has conducted studies on carcinogenic risk from exposure to air toxics in the SCAB. According to the MATES V Data Visualization interactive tool, the area around ONT has a cumulative cancer risk of 600 in 1 million (SCAQMD 2022b).

Multiple future development projects are planned or approved for the City of Ontario, as well as ONT itself. For example, the proposed South Airport Cargo Center (SACC) project would develop a new air cargo facility at ONT. If approved, the SACC project would include additional short-term construction emissions, and long-term operational emissions (including additional aircraft and ground support equipment operating at ONT, and additional vehicles on area roads). Construction and operation of the SACC project has the potential to overlap with the ONT Rehabilitation of Runway 8R-26L and Associated Improvements Project. However, the results of the SACC project's health risk assessment were not available at the time of preparation of this analysis. And, due to the large number of project-specific inputs and detail needed to complete health risk analysis, it would be speculative to undertake further quantitative analysis of the SACC project at this time.

While the SCAQMD has not adopted any cumulative health risk thresholds at this time, the SCAQMD's thresholds (10 in 1 million cancer risk, non-cancer HI of 1) are used for evaluating the impact from a single project's incremental increase in health risks. The SCAQMD considers that, if a project's emissions do not result in incremental health risks exceeding the thresholds, then the project's cumulative health risk impact would be less than cumulatively considerable.

Based on the SCAQMD's approach, the Project's less-than-significant health risk impacts and related factors (such as the Project's temporary duration), this analysis concludes that the Project would not result in a cumulatively considerable health risk impact.

4.5 IMPACT CONCLUSION

Implementation of the Proposed Project or the Two-Year Program Alternative would not result in incremental increased cancer health risks or non-cancer chronic or acute risks exceeding the SCAQMD's thresholds. Therefore, the Project would not expose sensitive receptors to substantial concentrations of TACs and the impact would be less than significant in both the Project-specific and cumulative contexts.

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Appendix A

Dispersion Modeling Input

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements
Ontario Internationl Airport Average Aircraft Performance

	feet	meters
Mixing height	2,402.0	732.1

KONT Departures for filed flight plans 2/28/2022 15:00 PST to 3/1/2022 14:59 PST

Flight	ICAO Code	Description	TO Roll (m)	Iniital Climb (kts)	TAS (kts)	GS (ft/min)	Initial ROC (ft/min)	Time to Mix (min)	Distance to Mix (ft)	Distance to Mix (m)	Climb Angle	Landing Roll (m)
FFT2188	A20N	Airbus A320neo	1,951.0	175.0	182.0	18,430.9	2,200.0	1.1	20,123.2	6,133.5	6.8	1,650.0
VOI937	A20N	Airbus A320neo	1,951.0	175.0	182.0	18,430.9	2,200.0	1.1	20,123.2	6,133.5	6.8	1,650.0
FFT2186	A20N	Airbus A320neo	1,951.0	175.0	182.0	18,430.9	2,200.0	1.1	20,123.2	6,133.5	6.8	1,650.0
HAL79	A21N	Airbus A321neo	2,150.0	175.0	182.0	18,430.9	2,000.0	1.2	22,135.5	6,746.9	6.2	1,850.0
UPS2274	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS2296	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS2972	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS2344	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS2911	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
FDX3624	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS954	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS888	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS836	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
UPS966	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
FDX1366	A306	Airbus A300-600	2,240.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,532.0
AAL1994	A319	Airbus A319	1,750.0	165.0	171.6	17,377.7	2,500.0	1.0	16,696.5	5,089.1	8.2	1,350.0
UAL2448	A319	Airbus A319	1,750.0	165.0	171.6	17,377.7	2,500.0	1.0	16,696.5	5,089.1	8.2	1,350.0
UAL1824	A319	Airbus A319	1,750.0	165.0	171.6	17,377.7	2,500.0	1.0	16,696.5	5,089.1	8.2	1,350.0
ASA537	A320	Airbus A320	2,190.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,440.0
AAL2007	A320	Airbus A320	2,190.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,440.0
UAL2438	A320	Airbus A320	2,190.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,440.0
AAL2635	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
DAL1144	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
AAL1821	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
AAL1534	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
DAL740	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
AAL1412	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
AAL2635	A321	Airbus A321	2,210.0	175.0	182.0	18,430.9	2,500.0	1.0	17,708.4	5,397.5	7.7	1,600.0
CFS8693	AT43	Alenia ATR-42-300	1,100.0	140.0	145.6	14,744.7	1,000.0	2.4	35,416.8	10,795.0	3.9	1,000.0
AIP1938	B190	Ratheon 1900	1,150.0	145.0	150.8	15,271.3	2,500.0	1.0	14,672.7	4,472.2	9.3	825.0
SWA2472	B38M	Boeing 737 Max	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,700.0
ASA918	B39M	Boeing 737 Max	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,700.0
ASA420	B39M	Boeing 737 Max	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,700.0
SWA1925	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA123	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA649	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1502	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1133	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1648	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1839	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1887	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA29	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA617	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA2286	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA1001	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA2238	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA2301	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA551	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA986	B737	Boeing 737-700	1,800.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,400.0
SWA778	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
DAL2256	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA2233	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
AAL2008	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA1175	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA1870	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA2349	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
DAL2395	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA526	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA1017	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA2325	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA1219	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
SWA778	B738	Boeing 737-800	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,600.0
ASA106	B739	Boeing 737-900	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,700.0
ASA617	B739	Boeing 737-900	2,300.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,700.0

KONT Departures for filed flight plans 2/28/2022 15:00 PST to 3/1/2022 14:59 PST

Flight	ICAO Code	Description	TO Roll (m)	Iniital Climb (kts)	TAS (kts)	GS (ft/min)	Initial ROC (ft/min)	Time to Mix (min)	Distance to Mix (ft)	Distance to Mix (m)	Climb Angle	Landing Roll (m)
UPS2915	B744	Boeing 747-400	3,300.0	215.0	223.6	22,643.7	1,500.0	1.6	36,260.0	11,052.1	3.8	2,130.0
UPS2964	B744	Boeing 747-400	3,300.0	215.0	223.6	22,643.7	1,500.0	1.6	36,260.0	11,052.1	3.8	2,130.0
UPS56	B748	Boeing 747-800	3,190.0	230.0	239.2	24,223.4	2,500.0	1.0	23,273.9	7,093.9	5.9	2,680.0
UPS98	B748	Boeing 747-800	3,190.0	230.0	239.2	24,223.4	2,500.0	1.0	23,273.9	7,093.9	5.9	2,680.0
UPS2976	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2888	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2106	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2770	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2986	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2022	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2066	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS2310	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
MGE710	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS992	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS852	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
FDX1116	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
FDX1359	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
UPS9780	B752	Boeing 757-200	1,900.0	175.0	182.0	18,430.9	3,500.0	0.7	12,648.9	3,855.4	10.8	1,400.0
ATN3232	B762	Boeing 767-200ER	2,700.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	1,500.0
UPS2804	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
ATN3511	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS2084	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
ATN3448	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
GTI3814	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
FDX3645	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS2917	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
AJT887	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS5513	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS2933	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
FDX3112	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS2931	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
ATN3452	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
GTI3801	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS834	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS808	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS2968	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
FDX2648	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
FDX1803	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS929	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS927	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UPS919	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
GTI3811	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
ATN4332	B763	Boeing 767-300ER	2,900.0	190.0	197.6	20,010.7	3,000.0	0.8	16,021.9	4,883.5	8.5	1,800.0
UAL2581	B77W	Boeing 777-300ER	3,000.0	200.0	208.0	21,063.9	3,000.0	0.8	16,865.1	5,140.5	8.1	1,800.0
AMF1936	BE99	Beech 99	1,000.0	145.0	150.8	15,271.3	1,000.0	2.4	36,681.7	11,180.6	3.7	900.0
AMF1902	BE99	Beech 99	1,000.0	145.0	150.8	15,271.3	1,000.0	2.4	36,681.7	11,180.6	3.7	900.0
AMF1946	BE99	Beech 99	1,000.0	145.0	150.8	15,271.3	1,000.0	2.4	36,681.7	11,180.6	3.7	900.0
N3953S	C172	Cessna 172 Skyhawk	300.0	90.0	93.6	9,478.7	400.0	6.0	56,919.8	17,349.2	2.4	160.0
PCM8662	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8694	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8683	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8749	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8654	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8682	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8671	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8688	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8656	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
PCM8730	C208	Cessna 208 Caravan	500.0	115.0	119.6	12,111.7	800.0	3.0	36,365.5	11,084.2	3.8	450.0
N599KD	C560	Cessna Citation 560	963.0	240.0	249.6	25,276.6	2,800.0	0.9	21,683.7	6,609.2	6.3	890.0
SKW5416	CRJ2	Canadair RJ-200	1,527.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,423.0
SKW4628	CRJ2	Canadair RJ-200	1,527.0	165.0	171.6	17,377.7	3,000.0	0.8	13,913.7	4,240.9	9.8	1,423.0
ASH5858	CRJ9	Canadair RJ-900	1,770.0	165.0	171.6	17,377.7	2,500.0	1.0	16,696.5	5,089.1	8.2	1,630.0
AMF2520	E120	Embraer Brasilia	1,400.0	150.0	156.0	15,797.9	1,500.0	1.6	25,297.7	7,710.7	5.4	1,400.0
FTN4	E145	Embraer EMB-145	2,000.0	165.0	171.6	17,377.7	2,500.0	1.0	16,696.5	5,089.1	8.2	1,350.0
SKW3659	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0
SKW4152	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0
SKW3676	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0
SKW5366	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0
SKW3680	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0
SKW3506	E75L	Embraer ERJ 170-200	1,644.0	190.0	197.6	20,010.7	3,400.0	0.7	14,137.0	4,308.9	9.6	1,247.0

KONT Departures for filed flight plans 2/28/2022 15:00 PST to 3/1/2022 14:59 PST

Flight	ICAO Code	Description	TO Roll (m)	Iniital Climb (kts)	TAS (kts)	GS (ft/min)	Initial ROC (ft/min)	Time to Mix (min)	Distance to Mix (ft)	Distance to Mix (m)	Climb Angle	Landing Roll (m)
EJA100	GL5T	Bombardier Global 5000	1,689.0	155.0	161.2	16,324.5	3,500.0	0.7	11,203.3	3,414.8	12.1	814.0
PEG88	GLF4	Gulfstream 4	1,600.0	175.0	182.0	18,430.9	4,000.0	0.6	11,067.7	3,373.4	12.2	1,000.0
FDX698	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
FDX415	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS984	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS972	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS850	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS962	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS806	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
FDX1215	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
UPS915	MD11	McDonnell Douglas MD-11	3,100.0	190.0	197.6	20,010.7	2,000.0	1.2	24,032.8	7,325.2	5.7	2,100.0
		Average	**2,109.0**	**173.3**	**180.2**	**18,249.3**	**2,663.4**	**1.1**	**18,571.4**	**5,660.6**	**7.370**	**1,490.6**

Notes:
1. Departure data from FlightAware (https://flightaware.com/).
2. Aircraft perfromance data from EUROCONTROL Aircraft Perfromance Database (https://contentzone.eurocontrol.int/aircraftperformance/default.aspx?).

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Approach Runway 08L

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
A08CJN1	316	11.7%	212	10.6%	328	11.7%	331	10.5%	342	11.8%	199	11.8%	159	10.8%	331	10.5%
A08LCJE1	241	8.9%	162	8.1%	250	8.9%	253	8.0%	261	9.0%	152	9.0%	121	8.3%	253	8.0%
A08LCJN2	125	4.6%	84	4.2%	129	4.6%	131	4.1%	135	4.6%	79	4.6%	63	4.3%	131	4.1%
A08LCJN3	158	5.8%	106	5.3%	164	5.8%	166	5.2%	171	5.9%	100	5.9%	80	5.4%	166	5.2%
A08LCJN4	50	1.8%	34	1.7%	52	1.8%	52	1.7%	54	1.9%	31	1.9%	25	1.7%	52	1.7%
A08LCJS1	67	2.5%	45	2.2%	69	2.5%	70	2.2%	72	2.5%	42	2.5%	33	2.3%	70	2.2%
A08LCPN1	28	1.0%	32	1.6%	29	1.0%	54	1.7%	30	1.0%	18	1.0%	22	1.5%	54	1.7%
A08LCPW1	93	3.4%	107	5.4%	96	3.4%	181	5.7%	100	3.4%	58	3.4%	74	5.0%	181	5.7%
A08LGJW1	143	5.3%	156	7.8%	143	5.1%	253	8.0%	144	5.0%	84	5.0%	108	7.3%	253	8.0%
A08LGPW1	36	1.3%	87	4.4%	36	1.3%	151	4.8%	36	1.2%	21	1.2%	56	3.8%	151	4.8%
A08LPJE1	430	15.9%	288	14.4%	446	15.9%	449	14.2%	462	15.9%	270	15.9%	216	14.7%	449	14.2%
A08LPJN1	168	6.2%	112	5.6%	174	6.2%	175	5.5%	180	6.2%	105	6.2%	84	5.7%	175	5.5%
A08LPJN2	15	0.5%	10	0.5%	15	0.5%	15	0.5%	16	0.5%	9	0.5%	7	0.5%	15	0.5%
A08LPJN3	29	1.1%	20	1.0%	30	1.1%	30	1.0%	31	1.1%	18	1.1%	15	1.0%	30	1.0%
A08LPJN4	80	3.0%	54	2.7%	83	3.0%	84	2.7%	86	3.0%	50	3.0%	40	2.7%	84	2.7%
A08LPJN6	95	3.5%	64	3.2%	98	3.5%	99	3.1%	102	3.5%	59	3.5%	48	3.2%	99	3.1%
A08LPJN7	350	12.9%	235	11.7%	363	13.0%	365	11.6%	376	12.9%	219	12.9%	176	12.0%	365	11.6%
A08LPJN8	255	9.4%	171	8.6%	265	9.5%	266	8.4%	274	9.4%	160	9.4%	128	8.7%	266	8.4%
A08LPJS1	29	1.1%	20	1.0%	30	1.1%	30	1.0%	31	1.1%	18	1.1%	15	1.0%	30	1.0%
Total	**2,705**		**1,998**		**2,801**		**3,155**		**2,904**		**1,694**		**1,469**		**3,155**	

Modeled Tracks

A08LSI	2,705		1,998		2,801		3,155		2,904		1,694		1,469		3,155	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Approach Runway 08R

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
A08RCJE1	54	5.9%	94	7.3%	56	5.9%	14	5.9%	59	6.0%	143	7.2%	135	7.4%	14	5.9%
A08RCJN1	68	7.4%	119	9.2%	71	7.5%	18	7.5%	74	7.6%	180	9.1%	170	9.3%	18	7.5%
A08RCJN2	16	1.7%	28	2.2%	17	1.8%	4	1.8%	17	1.8%	42	2.1%	40	2.2%	4	1.8%
A08RCJN3	20	2.2%	35	2.7%	21	2.2%	5	2.2%	22	2.2%	53	2.7%	50	2.7%	5	2.2%
A08RCJN4	28	3.0%	49	3.8%	29	3.1%	7	3.1%	30	3.1%	74	3.8%	70	3.8%	7	3.1%
A08RCJN5	10	1.1%	17	1.4%	10	1.1%	3	1.1%	11	1.1%	26	1.3%	25	1.4%	3	1.1%
A08RCJN7	12	1.3%	21	1.6%	12	1.3%	3	1.3%	13	1.3%	32	1.6%	30	1.6%	3	1.3%
A08RCJS1	31	3.4%	28	2.2%	32	3.4%	8	3.4%	34	3.4%	47	2.4%	39	2.1%	8	3.4%
A08RCPN1	34	3.7%	21	1.7%	36	3.8%	9	3.8%	37	3.8%	39	2.0%	28	1.5%	9	3.8%
A08RCPS2	23	2.5%	14	1.1%	24	2.5%	6	2.5%	25	2.6%	26	1.3%	19	1.0%	6	2.5%
A08RCPW1	6	0.6%	4	0.3%	6	0.6%	1	0.6%	6	0.6%	7	0.3%	5	0.3%	1	0.6%
A08RCPW2	34	3.7%	21	1.7%	36	3.8%	9	3.8%	37	3.8%	39	2.0%	28	1.5%	9	3.8%
A08RCPW3	40	4.4%	25	1.9%	42	4.4%	10	4.4%	43	4.5%	46	2.3%	32	1.8%	10	4.4%
A08RCPW4	57	6.2%	36	2.8%	60	6.3%	15	6.3%	62	6.4%	65	3.3%	46	2.6%	15	6.3%
A08RCPW5	17	1.9%	11	0.8%	18	1.9%	4	1.9%	19	1.9%	20	1.0%	14	0.8%	4	1.9%
A08RGJE2	88	9.6%	63	4.9%	89	9.4%	22	9.4%	89	9.2%	104	5.3%	84	4.6%	22	9.4%
A08RGJE3	59	6.4%	42	3.3%	59	6.3%	15	6.3%	60	6.1%	69	3.5%	56	3.1%	15	6.3%
A08RGJN1	59	6.4%	42	3.3%	59	6.3%	15	6.3%	60	6.1%	69	3.5%	56	3.1%	15	6.3%
A08RGPN5	110	12.0%	90	7.0%	110	11.7%	28	11.7%	111	11.4%	144	7.3%	122	6.7%	28	11.7%
A08RPJE1	49	5.3%	168	13.1%	51	5.4%	13	5.4%	52	5.4%	240	12.2%	246	13.5%	13	5.4%
A08RPJE3	30	3.2%	102	7.9%	31	3.3%	8	3.3%	32	3.3%	146	7.4%	150	8.2%	8	3.3%
A08RPJN1	8	0.9%	29	2.3%	9	0.9%	2	0.9%	9	0.9%	42	2.1%	43	2.4%	2	0.9%
A08RPJN2	19	2.1%	66	5.1%	20	2.1%	5	2.1%	21	2.1%	94	4.8%	96	5.3%	5	2.1%
A08RPJN3	38	4.1%	132	10.2%	40	4.2%	10	4.2%	41	4.2%	188	9.5%	193	10.6%	10	4.2%
A08RPJN4	8	0.9%	29	2.3%	9	0.9%	2	0.9%	9	0.9%	42	2.1%	43	2.4%	2	0.9%
Total	**921**		**1,288**		**944**		**236**		**972**		**1,977**		**1,816**		**236**	

Modeled Tracks

A08RSI	921		1,288		944		236		972		1,977		1,816		236	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Approach Runway 26L

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%
A26LCJE1	3,530	14.2%	2,551	10.9%	3,664	14.3%	916	14.3%	3,801	14.5%	4,466	11.7%	3,385	10.6%	916	14.3%
A26LCJE2	48	0.2%	35	0.1%	50	0.2%	13	0.2%	52	0.2%	61	0.2%	46	0.1%	13	0.2%
A26LCJE3	76	0.3%	55	0.2%	79	0.3%	20	0.3%	82	0.3%	96	0.3%	73	0.2%	20	0.3%
A26LCJE4	97	0.4%	70	0.3%	100	0.4%	25	0.4%	104	0.4%	122	0.3%	93	0.3%	25	0.4%
A26LCJE5																
A26LCJN1	28	0.1%	20	0.1%	29	0.1%	7	0.1%	30	0.1%	35	0.1%	26	0.1%	7	0.1%
A26LCJN2	212	0.9%	191	0.8%	219	0.9%	55	0.9%	226	0.9%	316	0.8%	260	0.8%	55	0.9%
A26LCJN3																
A26LCJN4	3,395	13.7%	3,051	13.1%	3,507	13.7%	877	13.7%	3,615	13.8%	5,056	13.3%	4,153	13.0%	877	13.7%
A26LCJN5																
A26LCJN6	637	2.6%	572	2.5%	658	2.6%	164	2.6%	678	2.6%	948	2.5%	779	2.4%	164	2.6%
A26LCJN7	1,934	7.8%	1,398	6.0%	2,007	7.9%	502	7.9%	2,083	7.9%	2,447	6.4%	1,855	5.8%	502	7.9%
A26LCJN8	207	0.8%	150	0.6%	215	0.8%	54	0.8%	223	0.9%	262	0.7%	199	0.6%	54	0.8%
A26LCJN9	332	1.3%	240	1.0%	344	1.3%	86	1.3%	357	1.4%	419	1.1%	318	1.0%	86	1.3%
A26LCJS1	131	0.5%	95	0.4%	136	0.5%	34	0.5%	141	0.5%	166	0.4%	126	0.4%	34	0.5%
A26LCJS2	318	1.3%	230	1.0%	330	1.3%	82	1.3%	342	1.3%	402	1.1%	305	1.0%	82	1.3%
A26LCJS3	145	0.6%	105	0.4%	151	0.6%	38	0.6%	156	0.6%	184	0.5%	139	0.4%	38	0.6%
A26LCJW1	76	0.3%	55	0.2%	79	0.3%	20	0.3%	82	0.3%	96	0.3%	73	0.2%	20	0.3%
A26LCJW3	145	0.6%	105	0.4%	151	0.6%	38	0.6%	156	0.6%	184	0.5%	139	0.4%	38	0.6%
A26LCPE3	132	0.5%	89	0.4%	137	0.5%	34	0.5%	142	0.5%	158	0.4%	117	0.4%	34	0.5%
A26LCPE4	103	0.4%	70	0.3%	107	0.4%	27	0.4%	111	0.4%	124	0.3%	92	0.3%	27	0.4%
A26LCPN1	183	0.7%	124	0.5%	190	0.7%	48	0.7%	197	0.8%	220	0.6%	163	0.5%	48	0.7%
A26LCPN2	132	0.5%	89	0.4%	137	0.5%	34	0.5%	142	0.5%	158	0.4%	117	0.4%	34	0.5%
A26LCPN3	63	0.3%	43	0.2%	65	0.3%	16	0.3%	68	0.3%	76	0.2%	56	0.2%	16	0.3%
A26LCPN4	40	0.2%	27	0.1%	42	0.2%	10	0.2%	43	0.2%	48	0.1%	36	0.1%	10	0.2%
A26LCPN5	114	0.5%	77	0.3%	119	0.5%	30	0.5%	123	0.5%	138	0.4%	102	0.3%	30	0.5%
A26LCPN6	109	0.4%	74	0.3%	113	0.4%	28	0.4%	117	0.4%	131	0.3%	97	0.3%	28	0.4%
A26LCPN7	40	0.2%	27	0.1%	42	0.2%	10	0.2%	43	0.2%	48	0.1%	36	0.1%	10	0.2%
A26LCPS1	177	0.7%	120	0.5%	184	0.7%	46	0.7%	191	0.7%	213	0.6%	158	0.5%	46	0.7%
A26LCPS2	155	0.6%	105	0.4%	160	0.6%	40	0.6%	166	0.6%	186	0.5%	138	0.4%	40	0.6%
A26LCPS3	97	0.4%	66	0.3%	101	0.4%	25	0.4%	105	0.4%	117	0.3%	87	0.3%	25	0.4%
A26LCPS4	11	0.0%	8	0.0%	12	0.0%	3	0.0%	12	0.0%	14	0.0%	10	0.0%	3	0.0%
A26LCPW1	17	0.1%	12	0.0%	18	0.1%	4	0.1%	18	0.1%	21	0.1%	15	0.0%	4	0.1%
A26LCPW2	343	1.4%	232	1.0%	357	1.4%	89	1.4%	370	1.4%	413	1.1%	306	1.0%	89	1.4%
A26LCPW3	481	1.9%	325	1.4%	499	2.0%	125	2.0%	518	2.0%	578	1.5%	428	1.3%	125	2.0%
A26LCPW4	555	2.2%	376	1.6%	577	2.3%	144	2.3%	598	2.3%	668	1.8%	494	1.5%	144	2.3%
A26LCPW5	34	0.1%	23	0.1%	36	0.1%	9	0.1%	37	0.1%	41	0.1%	31	0.1%	9	0.1%
A26LCPW7	504	2.0%	341	1.5%	523	2.0%	131	2.0%	542	2.1%	606	1.6%	448	1.4%	131	2.0%
A26LGJE1	1,078	4.3%	704	3.0%	1,083	4.2%	271	4.2%	1,084	4.1%	1,179	3.1%	921	2.9%	271	4.2%
A26LGJE2	35	0.1%	23	0.1%	35	0.1%	9	0.1%	35	0.1%	38	0.1%	30	0.1%	9	0.1%
A26LGJN1																
A26LGJN2																
A26LGJN3	35	0.1%	23	0.1%	35	0.1%	9	0.1%	35	0.1%	38	0.1%	30	0.1%	9	0.1%
A26LGJS1	348	1.4%	227	1.0%	349	1.4%	87	1.4%	350	1.3%	380	1.0%	297	0.9%	87	1.4%
A26LGJS2	244	1.0%	159	0.7%	245	1.0%	61	1.0%	245	0.9%	266	0.7%	208	0.7%	61	1.0%
A26LGJW1	157	0.6%	102	0.4%	157	0.6%	39	0.6%	157	0.6%	171	0.4%	134	0.4%	39	0.6%
A26LGJW2	296	1.2%	193	0.8%	297	1.2%	74	1.2%	297	1.1%	323	0.8%	252	0.8%	74	1.2%
A26LGJW3	818	3.3%	533	2.3%	821	3.2%	205	3.2%	822	3.1%	894	2.3%	698	2.2%	205	3.2%
A26LGPE2	189	0.8%	131	0.6%	189	0.7%	47	0.7%	189	0.7%	216	0.6%	172	0.5%	47	0.7%
A26LGPE3	603	2.4%	418	1.8%	606	2.4%	152	2.4%	606	2.3%	690	1.8%	552	1.7%	152	2.4%
A26LGPE4	415	1.7%	287	1.2%	417	1.6%	104	1.6%	417	1.6%	474	1.2%	379	1.2%	104	1.6%
A26LGPS2	302	1.2%	209	0.9%	303	1.2%	76	1.2%	303	1.2%	345	0.9%	276	0.9%	76	1.2%
A26LGPW1	641	2.6%	444	1.9%	644	2.5%	161	2.5%	644	2.5%	733	1.9%	586	1.8%	161	2.5%
A26LGPW2	113	0.5%	78	0.3%	114	0.4%	28	0.4%	114	0.4%	129	0.3%	103	0.3%	28	0.4%
A26LPJE2	64	0.3%	135	0.6%	67	0.3%	17	0.3%	69	0.3%	200	0.5%	194	0.6%	17	0.3%
A26LPJE3	1,462	5.9%	3,069	13.1%	1,518	5.9%	380	5.9%	1,562	5.9%	4,546	11.9%	4,421	13.9%	380	5.9%
A26LPJN1	78	0.3%	165	0.7%	81	0.3%	20	0.3%	84	0.3%	244	0.6%	237	0.7%	20	0.3%
A26LPJN2	64	0.3%	135	0.6%	67	0.3%	17	0.3%	69	0.3%	200	0.5%	194	0.6%	17	0.3%
A26LPJN3	157	0.6%	329	1.4%	163	0.6%	41	0.6%	168	0.6%	488	1.3%	474	1.5%	41	0.6%
A26LPJN4																
A26LPJN5	29	0.1%	60	0.3%	30	0.1%	7	0.1%	30	0.1%	89	0.2%	86	0.3%	7	0.1%
A26LPJN6	1,487	6.0%	1,405	6.0%	1,536	6.0%	384	6.0%	1,583	6.0%	2,306	6.0%	1,921	6.0%	384	6.0%
A26LPJN7	242	1.0%	509	2.2%	252	1.0%	63	1.0%	259	1.0%	754	2.0%	733	2.3%	63	1.0%
A26LPJN8	806	3.2%	1,692	7.2%	837	3.3%	209	3.3%	861	3.3%	2,506	6.6%	2,437	7.6%	209	3.3%
A26LPJS1	36	0.1%	75	0.3%	37	0.1%	9	0.1%	38	0.1%	111	0.3%	108	0.3%	9	0.1%

Approach Runway 26L
Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
A26LPJS2	93	0.4%	195	0.8%	96	0.4%	24	0.4%	99	0.4%	288	0.8%	280	0.9%	24	0.4%
A26LPJS3	93	0.4%	195	0.8%	96	0.4%	24	0.4%	99	0.4%	288	0.8%	280	0.9%	24	0.4%
A26LPJS4	50	0.2%	105	0.4%	52	0.2%	13	0.2%	53	0.2%	155	0.4%	151	0.5%	13	0.2%
A26LPJW2	93	0.4%	195	0.8%	96	0.4%	24	0.4%	99	0.4%	288	0.8%	280	0.9%	24	0.4%
A26LPJW3	193	0.8%	404	1.7%	200	0.8%	50	0.8%	206	0.8%	599	1.6%	582	1.8%	50	0.8%
Total	**24,819**		**23,344**		**25,559**		**6,390**		**26,248**		**38,156**		**31,913**		**6,390**	

Modeled Tracks

A26LSI	24,819		23,344		25,559		6,390		26,248		38,156		31,913		6,390	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Approach Runway 26R

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
A26PJE4																
A26RCJE1	860	3.3%	1,486	5.3%	890	3.3%	2,596	5.6%	929	3.3%	542	3.3%	978	5.0%	2,596	5.6%
A26RCJN1																
A26RCJN2	334	1.3%	405	1.4%	345	1.3%	685	1.5%	359	1.3%	210	1.3%	276	1.4%	685	1.5%
A26RCJN3																
A26RCJN4																
A26RCJN6	801	3.0%	971	3.5%	828	3.1%	1,644	3.5%	862	3.1%	503	3.0%	663	3.4%	1,644	3.5%
A26RCJN7																
A26RCJS1	280	1.1%	485	1.7%	291	1.1%	847	1.8%	303	1.1%	177	1.1%	319	1.6%	847	1.8%
A26RCJS3	18	0.1%	31	0.1%	19	0.1%	55	0.1%	20	0.1%	11	0.1%	21	0.1%	55	0.1%
A26RCJW1	769	2.9%	1,330	4.7%	797	2.9%	2,323	5.0%	831	2.9%	485	2.9%	875	4.5%	2,323	5.0%
A26RCJW2	290	1.1%	501	1.8%	300	1.1%	875	1.9%	313	1.1%	183	1.1%	329	1.7%	875	1.9%
A26RCJW3	109	0.4%	188	0.7%	112	0.4%	328	0.7%	117	0.4%	68	0.4%	123	0.6%	328	0.7%
A26RCJW4	54	0.2%	94	0.3%	56	0.2%	164	0.4%	59	0.2%	34	0.2%	62	0.3%	164	0.4%
A26RCJW5	72	0.3%	125	0.4%	75	0.3%	219	0.5%	78	0.3%	46	0.3%	82	0.4%	219	0.5%
A26RCPE1	47	0.2%	111	0.4%	48	0.2%	197	0.4%	51	0.2%	30	0.2%	71	0.4%	197	0.4%
A26RCPN1	62	0.2%	147	0.5%	64	0.2%	262	0.6%	67	0.2%	39	0.2%	95	0.5%	262	0.6%
A26RCPN2	62	0.2%	147	0.5%	64	0.2%	262	0.6%	67	0.2%	39	0.2%	95	0.5%	262	0.6%
A26RCPN3	31	0.1%	74	0.3%	32	0.1%	131	0.3%	34	0.1%	20	0.1%	47	0.2%	131	0.3%
A26RCPN4	78	0.3%	184	0.7%	80	0.3%	328	0.7%	84	0.3%	49	0.3%	118	0.6%	328	0.7%
A26RCPN5	54	0.2%	129	0.5%	56	0.2%	229	0.5%	59	0.2%	34	0.2%	83	0.4%	229	0.5%
A26RCPN6	31	0.1%	74	0.3%	32	0.1%	131	0.3%	34	0.1%	20	0.1%	47	0.2%	131	0.3%
A26RCPN7	38	0.1%	52	0.2%	40	0.1%	71	0.2%	42	0.1%	37	0.2%	44	0.2%	71	0.2%
A26RCPN8	31	0.1%	74	0.3%	32	0.1%	131	0.3%	34	0.1%	20	0.1%	47	0.2%	131	0.3%
A26RCPS1	47	0.2%	111	0.4%	48	0.2%	197	0.4%	51	0.2%	30	0.2%	71	0.4%	197	0.4%
A26RCPS2	47	0.2%	111	0.4%	48	0.2%	197	0.4%	51	0.2%	30	0.2%	71	0.4%	197	0.4%
A26RCPW1	47	0.2%	111	0.4%	48	0.2%	197	0.4%	51	0.2%	30	0.2%	71	0.4%	197	0.4%
A26RCPW2	85	0.3%	163	0.6%	88	0.3%	268	0.6%	92	0.3%	67	0.4%	115	0.6%	268	0.6%
A26RCPW3	124	0.5%	295	1.0%	129	0.5%	524	1.1%	135	0.5%	79	0.5%	189	1.0%	524	1.1%
A26RCPW4	101	0.4%	239	0.9%	104	0.4%	426	0.9%	110	0.4%	64	0.4%	154	0.8%	426	0.9%
A26RGJE1	223	0.8%	641	2.3%	223	0.8%	1,113	2.4%	226	0.8%	132	0.8%	407	2.1%	1,113	2.4%
A26RGJN1	193	0.7%	556	2.0%	193	0.7%	965	2.1%	196	0.7%	114	0.7%	353	1.8%	965	2.1%
A26RGJN2																
A26RGJS1	119	0.5%	342	1.2%	119	0.4%	594	1.3%	120	0.4%	70	0.4%	217	1.1%	594	1.3%
A26RGJW3	74	0.3%	214	0.8%	74	0.3%	371	0.8%	75	0.3%	44	0.3%	136	0.7%	371	0.8%
A26RGPE1	79	0.3%	102	0.4%	79	0.3%	138	0.3%	79	0.3%	67	0.4%	84	0.4%	138	0.3%
A26RGPE2	430	1.6%	793	2.8%	430	1.6%	1,346	2.9%	435	1.5%	254	1.5%	519	2.7%	1,346	2.9%
A26RGPN1	61	0.2%	113	0.4%	61	0.2%	192	0.4%	62	0.2%	36	0.2%	74	0.4%	192	0.4%
A26RGPS1	82	0.3%	151	0.5%	82	0.3%	256	0.5%	83	0.3%	48	0.3%	99	0.5%	256	0.5%
A26RGPW1	102	0.4%	189	0.7%	102	0.4%	320	0.7%	104	0.4%	60	0.4%	124	0.6%	320	0.7%
A26RGPW2	82	0.3%	151	0.5%	82	0.3%	256	0.5%	83	0.3%	48	0.3%	99	0.5%	256	0.5%
A26RPJE1	42	0.2%	32	0.1%	44	0.2%	51	0.1%	45	0.2%	26	0.2%	23	0.1%	51	0.1%
A26RPJE2	36	0.1%	27	0.1%	37	0.1%	44	0.1%	39	0.1%	23	0.1%	20	0.1%	44	0.1%
A26RPJE3																
A26RPJE4	30	0.1%	23	0.1%	31	0.1%	36	0.1%	32	0.1%	19	0.1%	17	0.1%	36	0.1%
A26RPJE5	318	1.2%	349	1.2%	329	1.2%	585	1.3%	343	1.2%	200	1.2%	241	1.2%	585	1.3%
A26RPJE6																
A26RPJE7	4,266	16.2%	4,681	16.7%	4,413	16.3%	7,834	16.8%	4,594	16.3%	2,680	16.2%	3,235	16.6%	7,834	16.8%
A26RPJE8																
A26RPJE9	210	0.8%	160	0.6%	218	0.8%	255	0.5%	226	0.8%	132	0.8%	117	0.6%	255	0.5%
A26RPJN1	402	1.5%	307	1.1%	417	1.5%	488	1.0%	434	1.5%	253	1.5%	224	1.2%	488	1.0%
A26RPJN2	547	2.1%	416	1.5%	566	2.1%	663	1.4%	589	2.1%	343	2.1%	305	1.6%	663	1.4%
A26RPJN3	84	0.3%	64	0.2%	87	0.3%	102	0.2%	91	0.3%	53	0.3%	47	0.2%	102	0.2%
A26RPJN4	378	1.4%	288	1.0%	392	1.4%	459	1.0%	408	1.4%	238	1.4%	211	1.1%	459	1.0%
A26RPJN5	30	0.1%	23	0.1%	31	0.1%	36	0.1%	32	0.1%	19	0.1%	17	0.1%	36	0.1%
A26RPJN8																
A26RPJN9	446	1.7%	489	1.7%	461	1.7%	818	1.8%	480	1.7%	280	1.7%	338	1.7%	818	1.8%
A26RPJS1	6,608	25.2%	5,035	17.9%	6,840	25.2%	8,018	17.2%	7,118	25.2%	4,152	25.2%	3,682	18.9%	8,018	17.2%
A26RPJW1	252	1.0%	192	0.7%	261	1.0%	306	0.7%	272	1.0%	159	1.0%	141	0.7%	306	0.7%
A26RPJW2	5,040	19.2%	3,840	13.7%	5,217	19.2%	6,115	13.1%	5,429	19.3%	3,167	19.2%	2,808	14.4%	6,115	13.1%
A26RPJW3	1,646	6.3%	1,254	4.5%	1,704	6.3%	1,997	4.3%	1,773	6.3%	1,034	6.3%	917	4.7%	1,997	4.3%
Total	**26,252**		**28,068**		**27,122**		**46,645**		**28,198**		**16,496**		**19,499**		**46,645**	

Modeled Tracks

A26RSI	26,252		28,068		27,122		46,645		28,198		16,496		19,499		46,645	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Departure Runway 08L

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
D08LCJE1	306	4.5%	113	4.3%	318	4.5%	147	4.2%	329	4.5%	192	4.5%	98	4.3%	147	4.2%
D08LCJN1	90	1.3%	33	1.3%	94	1.3%	43	1.2%	97	1.3%	56	1.3%	29	1.3%	43	1.2%
D08LCJN2	54	0.8%	20	0.8%	56	0.8%	26	0.7%	58	0.8%	34	0.8%	17	0.8%	26	0.7%
D08LCJN3	252	3.7%	93	3.5%	262	3.7%	121	3.5%	271	3.7%	158	3.7%	81	3.6%	121	3.5%
D08LCJN4	72	1.1%	27	1.0%	75	1.1%	35	1.0%	77	1.1%	45	1.1%	23	1.0%	35	1.0%
D08LCJS1	630	9.3%	232	8.8%	655	9.3%	303	8.7%	677	9.3%	395	9.3%	202	9.0%	303	8.7%
D08LCJS2	306	4.5%	113	4.3%	318	4.5%	147	4.2%	329	4.5%	192	4.5%	98	4.3%	147	4.2%
D08LCJW1	54	0.8%	20	0.8%	56	0.8%	26	0.7%	58	0.8%	34	0.8%	17	0.8%	26	0.7%
D08LCPN1	10	0.2%	13	0.5%	11	0.1%	22	0.6%	11	0.1%	6	0.1%	9	0.4%	22	0.6%
D08LCPW1	31	0.5%	38	1.4%	32	0.4%	65	1.8%	33	0.4%	19	0.4%	26	1.1%	65	1.8%
D08LCPW2	41	0.6%	51	1.9%	42	0.6%	86	2.5%	43	0.6%	25	0.6%	34	1.5%	86	2.5%
D08LGJ1	67	1.0%	129	4.9%	67	1.0%	220	6.3%	67	0.9%	39	0.9%	84	3.7%	220	6.3%
D08LGP1	9	0.1%	73	2.8%	9	0.1%	130	3.7%	9	0.1%	5	0.1%	45	2.0%	130	3.7%
D08LPJN1	23	0.3%	8	0.3%	24	0.3%	10	0.3%	24	0.3%	14	0.3%	7	0.3%	10	0.3%
D08LPJN2	148	2.2%	51	1.9%	154	2.2%	65	1.9%	158	2.2%	92	2.2%	46	2.0%	65	1.9%
D08LPJN3	285	4.2%	99	3.7%	295	4.2%	125	3.6%	304	4.2%	177	4.2%	88	3.9%	125	3.6%
D08LPJN4	399	5.9%	138	5.2%	414	5.9%	175	5.0%	426	5.9%	248	5.9%	123	5.4%	175	5.0%
D08LPJS1	171	2.5%	59	2.2%	177	2.5%	75	2.1%	183	2.5%	106	2.5%	53	2.3%	75	2.1%
D08LPJS2	182	2.7%	63	2.4%	189	2.7%	80	2.3%	195	2.7%	114	2.7%	56	2.5%	80	2.3%
D08LPJS3	1,710	25.2%	591	22.4%	1,772	25.2%	749	21.4%	1,825	25.2%	1,065	25.2%	526	23.3%	749	21.4%
D08LPJW1	844	12.4%	292	11.1%	874	12.4%	369	10.5%	901	12.4%	525	12.4%	259	11.5%	369	10.5%
D08LPJW2	923	13.6%	319	12.1%	957	13.6%	404	11.5%	986	13.6%	575	13.6%	284	12.6%	404	11.5%
D08LPJW4	182	2.7%	63	2.4%	189	2.7%	80	2.3%	195	2.7%	114	2.7%	56	2.5%	80	2.3%
Total	**6,790**		**2,637**		**7,039**		**3,502**		**7,256**		**4,232**		**2,261**		**3,502**	

Modeled Tracks

D08LRC	6,701		2,500		6,948		3,272		7,165		4,179		2,170		3,272	
D08LSO	90		137		91		230		91		53		91		230	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Departure Runway 08R

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
D08RCJE1	130	1.8%	36	1.4%	134	1.8%	34	1.8%	139	1.8%	86	1.6%	38	1.3%	34	1.8%
D08RCJE2	2,173	30.0%	605	23.6%	2,250	30.1%	562	30.1%	2,333	30.2%	1,445	26.2%	636	21.6%	562	30.1%
D08RCJE3	389	5.4%	108	4.2%	402	5.4%	101	5.4%	417	5.4%	258	4.7%	114	3.9%	101	5.4%
D08RCJE5	201	2.8%	56	2.2%	209	2.8%	52	2.8%	216	2.8%	134	2.4%	59	2.0%	52	2.8%
D08RCJN1	173	2.4%	48	1.9%	179	2.4%	45	2.4%	185	2.4%	115	2.1%	51	1.7%	45	2.4%
D08RCJN2	201	2.8%	56	2.2%	209	2.8%	52	2.8%	216	2.8%	134	2.4%	59	2.0%	52	2.8%
D08RCJN3	331	4.6%	92	3.6%	343	4.6%	86	4.6%	355	4.6%	220	4.0%	97	3.3%	86	4.6%
D08RCJN4	144	2.0%	40	1.6%	149	2.0%	37	2.0%	155	2.0%	96	1.7%	42	1.4%	37	2.0%
D08RCJN5	130	1.8%	36	1.4%	134	1.8%	34	1.8%	139	1.8%	86	1.6%	38	1.3%	34	1.8%
D08RCJS1	173	2.4%	48	1.9%	179	2.4%	45	2.4%	185	2.4%	115	2.1%	51	1.7%	45	2.4%
D08RCJS2	158	2.2%	44	1.7%	164	2.2%	41	2.2%	170	2.2%	105	1.9%	46	1.6%	41	2.2%
D08RCJW1	273	3.8%	76	3.0%	283	3.8%	71	3.8%	294	3.8%	182	3.3%	80	2.7%	71	3.8%
D08RCJW2	993	13.7%	277	10.8%	1,028	13.8%	257	13.8%	1,066	13.8%	660	12.0%	291	9.9%	257	13.8%
D08RCJW3	403	5.6%	112	4.4%	417	5.6%	104	5.6%	433	5.6%	268	4.9%	118	4.0%	104	5.6%
D08RCPN1	36	0.5%	16	0.6%	37	0.5%	9	0.5%	38	0.5%	32	0.6%	20	0.7%	9	0.5%
D08RCPS1	18	0.2%	8	0.3%	18	0.2%	5	0.2%	19	0.2%	16	0.3%	10	0.3%	5	0.2%
D08RCPS2	42	0.6%	19	0.7%	43	0.6%	11	0.6%	44	0.6%	37	0.7%	23	0.8%	11	0.6%
D08RCPW1	59	0.8%	27	1.0%	61	0.8%	15	0.8%	63	0.8%	53	1.0%	33	1.1%	15	0.8%
D08RCPW2	71	1.0%	32	1.3%	73	1.0%	18	1.0%	75	1.0%	63	1.2%	39	1.3%	18	1.0%
D08RCPW3	36	0.5%	16	0.6%	37	0.5%	9	0.5%	38	0.5%	32	0.6%	20	0.7%	9	0.5%
D08RCPW4	47	0.7%	21	0.8%	49	0.7%	12	0.7%	50	0.7%	42	0.8%	26	0.9%	12	0.7%
D08RCPW5	12	0.2%	5	0.2%	12	0.2%	3	0.2%	13	0.2%	11	0.2%	7	0.2%	3	0.2%
D08RGJE1	162	2.2%	75	2.9%	162	2.2%	40	2.2%	161	2.1%	138	2.5%	92	3.1%	40	2.2%
D08RGJN1	259	3.6%	120	4.7%	259	3.5%	65	3.5%	258	3.3%	220	4.0%	148	5.0%	65	3.5%
D08RGPS1	131	1.8%	89	3.5%	131	1.8%	33	1.8%	130	1.7%	147	2.7%	117	4.0%	33	1.8%
D08RPJE1	184	2.5%	184	7.2%	190	2.5%	48	2.5%	196	2.5%	300	5.4%	253	8.6%	48	2.5%
D08RPJN1	27	0.4%	27	1.1%	28	0.4%	7	0.4%	29	0.4%	44	0.8%	37	1.3%	7	0.4%
D08RPJN2	55	0.8%	55	2.1%	56	0.8%	14	0.8%	58	0.8%	89	1.6%	75	2.6%	14	0.8%
D08RPJW1	102	1.4%	102	4.0%	106	1.4%	26	1.4%	109	1.4%	166	3.0%	141	4.8%	26	1.4%
D08RPJW2	130	1.8%	130	5.1%	134	1.8%	33	1.8%	138	1.8%	211	3.8%	178	6.1%	33	1.8%
Total	**7,242**		**2,562**		**7,476**		**1,869**		**7,723**		**5,504**		**2,938**		**1,869**	

Modeled Tracks

D08RRC	7,242		2,562		7,476		1,869		7,723		5,504		2,938		1,869	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Departure Runway 26L

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%	Ops	%
D26LCJE1	353	2.2%	447	2.1%	367	2.2%	92	2.2%	382	2.2%	706	2.1%	626	2.1%	92	2.2%
D26LCJE2	2,547	15.6%	3,222	14.9%	2,649	15.8%	662	15.8%	2,755	16.0%	5,091	15.3%	4,514	14.9%	662	15.8%
D26LCJE3	75	0.5%	94	0.4%	78	0.5%	19	0.5%	81	0.5%	149	0.4%	132	0.4%	19	0.5%
D26LCJE4	65	0.4%	82	0.4%	67	0.4%	17	0.4%	70	0.4%	129	0.4%	115	0.4%	17	0.4%
D26LCJN1	174	1.1%	220	1.0%	181	1.1%	45	1.1%	188	1.1%	348	1.0%	309	1.0%	45	1.1%
D26LCJN2	35	0.2%	44	0.2%	36	0.2%	9	0.2%	38	0.2%	70	0.2%	62	0.2%	9	0.2%
D26LCJN3	179	1.1%	227	1.1%	186	1.1%	47	1.1%	194	1.1%	358	1.1%	317	1.0%	47	1.1%
D26LCJN4	169	1.0%	214	1.0%	176	1.1%	44	1.1%	183	1.1%	338	1.0%	300	1.0%	44	1.1%
D26LCJN5	119	0.7%	151	0.7%	124	0.7%	31	0.7%	129	0.8%	239	0.7%	212	0.7%	31	0.7%
D26LCJN6	85	0.5%	107	0.5%	88	0.5%	22	0.5%	91	0.5%	169	0.5%	150	0.5%	22	0.5%
D26LCJS1	40	0.2%	50	0.2%	41	0.2%	10	0.2%	43	0.3%	80	0.2%	71	0.2%	10	0.2%
D26LCJS2	109	0.7%	138	0.6%	114	0.7%	28	0.7%	118	0.7%	219	0.7%	194	0.6%	28	0.7%
D26LCJS3	109	0.7%	138	0.6%	114	0.7%	28	0.7%	118	0.7%	219	0.7%	194	0.6%	28	0.7%
D26LCJS4	60	0.4%	76	0.4%	62	0.4%	16	0.4%	65	0.4%	119	0.4%	106	0.3%	16	0.4%
D26LCJW1	294	1.8%	371	1.7%	305	1.8%	76	1.8%	317	1.8%	587	1.8%	520	1.7%	76	1.8%
D26LCJW2	189	1.2%	239	1.1%	197	1.2%	49	1.2%	204	1.2%	378	1.1%	335	1.1%	49	1.2%
D26LCJW3	557	3.4%	705	3.3%	580	3.5%	145	3.5%	603	3.5%	1,114	3.3%	987	3.3%	145	3.5%
D26LCJW4	164	1.0%	208	1.0%	171	1.0%	43	1.0%	178	1.0%	328	1.0%	291	1.0%	43	1.0%
D26LCPE2	24	0.1%	17	0.1%	25	0.1%	6	0.1%	25	0.1%	30	0.1%	23	0.1%	6	0.1%
D26LCPE4	65	0.4%	48	0.2%	67	0.4%	17	0.4%	70	0.4%	83	0.2%	63	0.2%	17	0.4%
D26LCPN1	147	0.9%	108	0.5%	153	0.9%	38	0.9%	159	0.9%	189	0.6%	144	0.5%	38	0.9%
D26LCPN2	271	1.7%	199	0.9%	282	1.7%	70	1.7%	293	1.7%	348	1.0%	265	0.9%	70	1.7%
D26LCPN3	177	1.1%	130	0.6%	184	1.1%	46	1.1%	191	1.1%	227	0.7%	173	0.6%	46	1.1%
D26LCPN4	153	0.9%	112	0.5%	159	1.0%	40	1.0%	165	1.0%	196	0.6%	150	0.5%	40	1.0%
D26LCPN5	77	0.5%	56	0.3%	80	0.5%	20	0.5%	83	0.5%	98	0.3%	75	0.2%	20	0.5%
D26LCPN6	100	0.6%	74	0.3%	104	0.6%	26	0.6%	108	0.6%	128	0.4%	98	0.3%	26	0.6%
D26LCPN7	118	0.7%	87	0.4%	123	0.7%	31	0.7%	127	0.7%	151	0.5%	115	0.4%	31	0.7%
D26LCPS1	242	1.5%	177	0.8%	251	1.5%	63	1.5%	261	1.5%	310	0.9%	236	0.8%	63	1.5%
D26LCPS2	118	0.7%	87	0.4%	123	0.7%	31	0.7%	127	0.7%	151	0.5%	115	0.4%	31	0.7%
D26LCPS4	218	1.3%	160	0.7%	227	1.4%	57	1.4%	235	1.4%	280	0.8%	213	0.7%	57	1.4%
D26LCPW1	6	0.0%	4	0.0%	6	0.0%	2	0.0%	6	0.0%	8	0.0%	6	0.0%	2	0.0%
D26LCPW2	584	3.6%	428	2.0%	607	3.6%	152	3.6%	630	3.7%	748	2.2%	569	1.9%	152	3.6%
D26LCPW3	324	2.0%	238	1.1%	337	2.0%	84	2.0%	350	2.0%	416	1.2%	316	1.0%	84	2.0%
D26LCPW4	195	1.2%	143	0.7%	202	1.2%	51	1.2%	210	1.2%	249	0.7%	190	0.6%	51	1.2%
D26LCPW5	171	1.0%	125	0.6%	178	1.1%	44	1.1%	184	1.1%	219	0.7%	167	0.6%	44	1.1%
D26LGJN1	216	1.3%	155	0.7%	217	1.3%	54	1.3%	217	1.3%	254	0.8%	206	0.7%	54	1.3%
D26LGJN2	180	1.1%	129	0.6%	181	1.1%	45	1.1%	181	1.1%	212	0.6%	171	0.6%	45	1.1%
D26LGJN3	72	0.4%	52	0.2%	72	0.4%	18	0.4%	72	0.4%	85	0.3%	69	0.2%	18	0.4%
D26LGJN4	126	0.8%	90	0.4%	126	0.8%	32	0.8%	127	0.7%	148	0.4%	120	0.4%	32	0.8%
D26LGJS1	323	2.0%	232	1.1%	325	1.9%	81	1.9%	326	1.9%	381	1.1%	308	1.0%	81	1.9%
D26LGJS2	144	0.9%	103	0.5%	144	0.9%	36	0.9%	145	0.8%	169	0.5%	137	0.5%	36	0.9%
D26LGJS3	916	5.6%	659	3.1%	921	5.5%	230	5.5%	923	5.4%	1,079	3.2%	873	2.9%	230	5.5%
D26LGJS4	323	2.0%	232	1.1%	325	1.9%	81	1.9%	326	1.9%	381	1.1%	308	1.0%	81	1.9%
D26LGJW1	377	2.3%	271	1.3%	379	2.3%	95	2.3%	380	2.2%	444	1.3%	360	1.2%	95	2.3%
D26LGJW2	664	4.1%	478	2.2%	668	4.0%	167	4.0%	670	3.9%	783	2.3%	634	2.1%	167	4.0%
D26LGPE1	208	1.3%	152	0.7%	209	1.2%	52	1.2%	209	1.2%	248	0.7%	202	0.7%	52	1.2%
D26LGPN1	208	1.3%	152	0.7%	209	1.2%	52	1.2%	209	1.2%	248	0.7%	202	0.7%	52	1.2%
D26LGPN2	208	1.3%	152	0.7%	209	1.2%	52	1.2%	209	1.2%	248	0.7%	202	0.7%	52	1.2%
D26LGPS1	623	3.8%	456	2.1%	626	3.7%	157	3.7%	627	3.6%	744	2.2%	607	2.0%	157	3.7%
D26LGPS2	161	1.0%	118	0.5%	162	1.0%	41	1.0%	163	0.9%	193	0.6%	157	0.5%	41	1.0%
D26LGPW1	185	1.1%	135	0.6%	186	1.1%	46	1.1%	186	1.1%	221	0.7%	180	0.6%	46	1.1%
D26LGPW2	46	0.3%	34	0.2%	46	0.3%	12	0.3%	46	0.3%	55	0.2%	45	0.1%	12	0.3%
D26LGPW4	115	0.7%	85	0.4%	116	0.7%	29	0.7%	116	0.7%	138	0.4%	112	0.4%	29	0.7%
D26LGPW5	254	1.6%	186	0.9%	255	1.5%	64	1.5%	255	1.5%	303	0.9%	247	0.8%	64	1.5%
D26LGPW6	115	0.7%	85	0.4%	116	0.7%	29	0.7%	116	0.7%	138	0.4%	112	0.4%	29	0.7%
D26LPJE1	1,058	6.5%	3,650	16.9%	1,103	6.6%	276	6.6%	1,140	6.6%	5,217	15.7%	5,343	17.6%	276	6.6%
D26LPJE2	57	0.3%	196	0.9%	59	0.4%	15	0.4%	61	0.4%	279	0.8%	286	0.9%	15	0.4%
D26LPJN1	104	0.6%	359	1.7%	108	0.6%	27	0.6%	112	0.7%	512	1.5%	525	1.7%	27	0.6%
D26LPJN2	161	1.0%	554	2.6%	167	1.0%	42	1.0%	173	1.0%	792	2.4%	811	2.7%	42	1.0%
D26LPJN4	57	0.3%	196	0.9%	59	0.4%	15	0.4%	61	0.4%	279	0.8%	286	0.9%	15	0.4%
D26LPJS2	85	0.5%	293	1.4%	89	0.5%	22	0.5%	92	0.5%	419	1.3%	429	1.4%	22	0.5%
D26LPJW1	416	2.6%	1,434	6.7%	433	2.6%	108	2.6%	448	2.6%	2,049	6.1%	2,099	6.9%	108	2.6%
D26LPJW2	576	3.5%	1,988	9.2%	601	3.6%	150	3.6%	621	3.6%	2,841	8.5%	2,910	9.6%	150	3.6%
Total	**16,287**		**21,553**		**16,755**		**4,189**		**17,191**		**33,331**		**30,293**		**4,189**	

Departure Runway 26L
Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
Modeled Tracks																
DP26LLC	6,228		9,590		6,444		1,611		6,651		14,649		13,606		1,611	
DP26LRT	600		440		603		151		604		717		584		151	
DP26LS0	9,459		11,523		9,708		2,427		9,936		17,965		16,102		2,427	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Departure Runway 26R

Flight Tracks Reported from AEDT

	2023 No Action		2023 Project		2024 No Action		2024 Project		2025 No Action		2025 Project		2-Year Alt 2023 Project		2-Year Alt 2024 Project	
Track	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**	**Ops**	**%**
D26RCJE1	377	1.5%	774	2.8%	390	1.6%	1,366	2.9%	408	1.6%	238	1.6%	502	2.6%	1,366	2.9%
D26RCJE2	1,744	7.2%	3,579	12.8%	1,806	7.2%	6,319	13.5%	1,887	7.2%	1,101	7.2%	2,322	12.1%	6,319	13.5%
D26RCJE3	330	1.4%	677	2.4%	342	1.4%	1,195	2.6%	357	1.4%	208	1.4%	439	2.3%	1,195	2.6%
D26RCJN1	393	1.6%	806	2.9%	407	1.6%	1,423	3.0%	425	1.6%	248	1.6%	523	2.7%	1,423	3.0%
D26RCJN2	63	0.3%	129	0.5%	65	0.3%	228	0.5%	68	0.3%	40	0.3%	84	0.4%	228	0.5%
D26RCJN3	385	1.6%	790	2.8%	399	1.6%	1,395	3.0%	417	1.6%	243	1.6%	512	2.7%	1,395	3.0%
D26RCJN4	267	1.1%	548	2.0%	277	1.1%	968	2.1%	289	1.1%	169	1.1%	356	1.9%	968	2.1%
D26RCJW1	102	0.4%	210	0.7%	106	0.4%	370	0.8%	111	0.4%	64	0.4%	136	0.7%	370	0.8%
D26RCJW2	86	0.4%	177	0.6%	89	0.4%	313	0.7%	94	0.4%	55	0.4%	115	0.6%	313	0.7%
D26RCPE1	53	0.2%	96	0.3%	54	0.2%	169	0.4%	57	0.2%	33	0.2%	63	0.3%	169	0.4%
D26RCPN1	59	0.2%	108	0.4%	61	0.2%	190	0.4%	64	0.2%	37	0.2%	71	0.4%	190	0.4%
D26RCPN2	105	0.4%	192	0.7%	109	0.4%	337	0.7%	114	0.4%	66	0.4%	126	0.7%	337	0.7%
D26RCPN3	105	0.4%	192	0.7%	109	0.4%	337	0.7%	114	0.4%	66	0.4%	126	0.7%	337	0.7%
D26RCPN4	138	0.6%	253	0.9%	142	0.6%	443	0.9%	149	0.6%	87	0.6%	165	0.9%	443	0.9%
D26RCPN5	66	0.3%	120	0.4%	68	0.3%	211	0.5%	71	0.3%	41	0.3%	79	0.4%	211	0.5%
D26RCPN6	53	0.2%	96	0.3%	54	0.2%	169	0.4%	57	0.2%	33	0.2%	63	0.3%	169	0.4%
D26RCPN7	79	0.3%	144	0.5%	81	0.3%	253	0.5%	85	0.3%	50	0.3%	94	0.5%	253	0.5%
D26RCPS1	53	0.2%	96	0.3%	54	0.2%	169	0.4%	57	0.2%	33	0.2%	63	0.3%	169	0.4%
D26RCPS2	53	0.2%	96	0.3%	54	0.2%	169	0.4%	57	0.2%	33	0.2%	63	0.3%	169	0.4%
D26RCPW1	197	0.8%	361	1.3%	203	0.8%	633	1.4%	213	0.8%	124	0.8%	236	1.2%	633	1.4%
D26RCPW2	13	0.1%	24	0.1%	14	0.1%	42	0.1%	14	0.1%	8	0.1%	16	0.1%	42	0.1%
D26RCPW3	171	0.7%	313	1.1%	176	0.7%	548	1.2%	185	0.7%	108	0.7%	205	1.1%	548	1.2%
D26RGJE1	381	1.6%	748	2.7%	380	1.5%	1,274	2.7%	384	1.5%	224	1.5%	487	2.5%	1,274	2.7%
D26RGJE3	19	0.1%	37	0.1%	19	0.1%	64	0.1%	19	0.1%	11	0.1%	24	0.1%	64	0.1%
D26RGJN1	133	0.5%	262	0.9%	133	0.5%	446	1.0%	135	0.5%	78	0.5%	170	0.9%	446	1.0%
D26RGJN2	133	0.5%	262	0.9%	133	0.5%	446	1.0%	135	0.5%	78	0.5%	170	0.9%	446	1.0%
D26RGJW1	171	0.7%	337	1.2%	171	0.7%	573	1.2%	173	0.7%	101	0.7%	219	1.1%	573	1.2%
D26RGJW3	305	1.2%	598	2.1%	304	1.2%	1,020	2.2%	308	1.2%	179	1.2%	390	2.0%	1,020	2.2%
D26RGPE2	433	1.8%	673	2.4%	433	1.7%	1,129	2.4%	437	1.7%	255	1.7%	447	2.3%	1,129	2.4%
D26RGPN1	87	0.4%	135	0.5%	87	0.3%	226	0.5%	87	0.3%	51	0.3%	89	0.5%	226	0.5%
D26RGPN2	115	0.5%	180	0.6%	115	0.5%	301	0.6%	117	0.4%	68	0.4%	119	0.6%	301	0.6%
D26RGPW1	289	1.2%	449	1.6%	289	1.1%	753	1.6%	291	1.1%	170	1.1%	298	1.6%	753	1.6%
D26RGPW2	58	0.2%	90	0.3%	58	0.2%	151	0.3%	58	0.2%	34	0.2%	60	0.3%	151	0.3%
D26RPJE1	66	0.3%	55	0.2%	69	0.3%	89	0.2%	71	0.3%	42	0.3%	40	0.2%	89	0.2%
D26RPJE2	84	0.3%	70	0.3%	87	0.3%	113	0.2%	91	0.3%	53	0.3%	50	0.3%	113	0.2%
D26RPJE3	109	0.4%	90	0.3%	112	0.4%	145	0.3%	117	0.4%	68	0.4%	65	0.3%	145	0.3%
D26RPJE4	2,629	10.8%	2,179	7.8%	2,721	10.8%	3,518	7.5%	2,834	10.8%	1,653	10.8%	1,570	8.2%	3,518	7.5%
D26RPJE5	2,936	12.0%	2,434	8.7%	3,039	12.1%	3,929	8.4%	3,165	12.1%	1,846	12.1%	1,754	9.1%	3,929	8.4%
D26RPJN1	187	0.8%	155	0.6%	193	0.8%	250	0.5%	201	0.8%	118	0.8%	112	0.6%	250	0.5%
D26RPJN2	591	2.4%	490	1.8%	612	2.4%	791	1.7%	637	2.4%	372	2.4%	353	1.8%	791	1.7%
D26RPJN3	778	3.2%	645	2.3%	805	3.2%	1,041	2.2%	838	3.2%	489	3.2%	465	2.4%	1,041	2.2%
D26RPJN4	1,290	5.3%	1,069	3.8%	1,335	5.3%	1,727	3.7%	1,391	5.3%	811	5.3%	771	4.0%	1,727	3.7%
D26RPJN5	151	0.6%	125	0.4%	156	0.6%	202	0.4%	162	0.6%	95	0.6%	90	0.5%	202	0.4%
D26RPJS2	253	1.0%	210	0.8%	262	1.0%	339	0.7%	273	1.0%	159	1.0%	151	0.8%	339	0.7%
D26RPJW1	4,432	18.2%	3,673	13.1%	4,587	18.2%	5,930	12.7%	4,777	18.3%	2,787	18.3%	2,647	13.8%	5,930	12.7%
D26RPJW2	3,582	14.7%	2,968	10.6%	3,707	14.7%	4,793	10.2%	3,861	14.8%	2,252	14.8%	2,139	11.1%	4,793	10.2%
D26RPJW3	271	1.1%	225	0.8%	281	1.1%	363	0.8%	292	1.1%	171	1.1%	162	0.8%	363	0.8%
D26RPJW4	6	0.0%	5	0.0%	6	0.0%	8	0.0%	6	0.0%	4	0.0%	4	0.0%	8	0.0%
Total	**24,379**		**27,946**		**25,155**		**46,866**		**26,153**		**15,256**		**19,205**		**46,866**	

Modeled Tracks

DP26RLC	9,590		11,928		9,895		20,179		10,288		6,001		8,116		20,179	
DP26RRT	516		833		519		1,412		529		308		551		1,412	
DP26RS0	14,272		15,184		14,741		25,274		15,337		8,947		10,538		25,274	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Approach and Departure Calculations

Approach

Approach Angle (degrees)	3.0		
Modeled ground to mixing height	feet	meters	
Mix height	2,402	732	
Distance	45,833	13,970	
Modeled from distance	feet	meters	% of mix height
Distance	16,404	5000	
Height	860	262	35.8%

Departure

Departure Angle (degrees)	7.4	
Modeled ground to mixing height	feet	meters
Mix height	2,402	732
Distance	18,494	5,637

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Operations - Fractions of total by hour, day, and month

Hour	Arrival	Departure
1:00	0.1691	0.4706
2:00	0.0399	0.2179
3:00	0.0785	0.3620
4:00	0.1778	0.1805
5:00	0.1773	0.1415
6:00	0.1752	0.3911
7:00	0.1532	1.0000
8:00	0.3122	0.8435
9:00	0.4739	0.5175
10:00	0.6002	0.4351
11:00	0.4771	0.5312
12:00	0.4556	0.4875
13:00	0.4074	0.4650
14:00	0.3704	0.4245
15:00	0.4088	0.3679
16:00	0.5268	0.4186
17:00	0.5882	0.3977
18:00	0.7270	0.3279
19:00	1.0000	0.3432
20:00	0.5324	0.5017
21:00	0.5311	0.2763
22:00	0.6768	0.2834
23:00	0.5885	0.1715
24:00:00	0.3402	0.1866

Day	
Sunday	0.5950
Monday	0.7726
Tuesday	1.0000
Wednesday	0.9938
Thursday	0.9844
Friday	0.8723
Saturday	0.6262

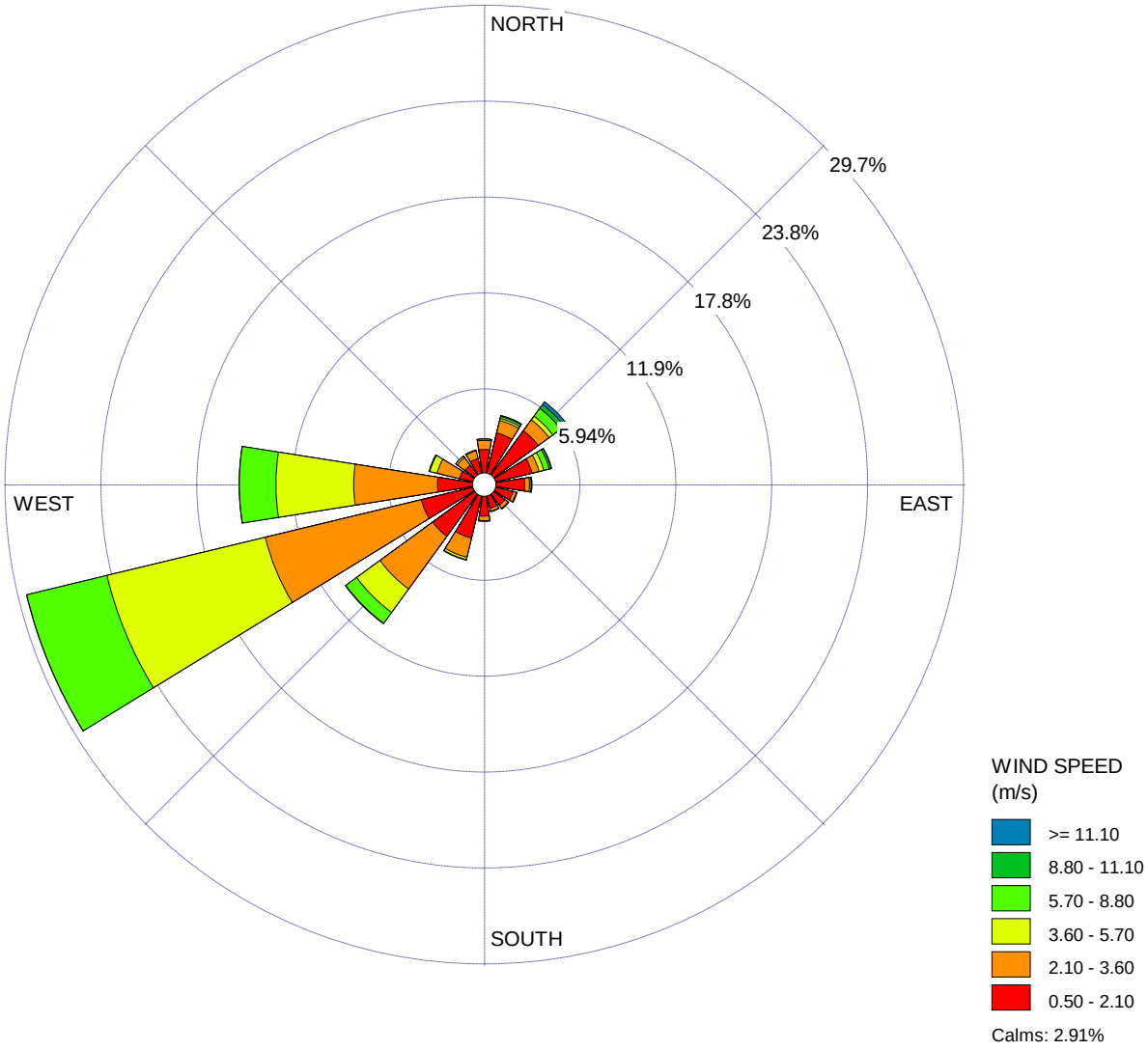
Month	
January	0.9042
February	0.8359
March	0.8852
April	0.7950
May	0.8355
June	0.8746
July	0.8995
August	0.9417
September	0.8806
October	0.9436
November	0.9065
December	1.0000

WIND ROSE PLOT:

Station #3102

DISPLAY:

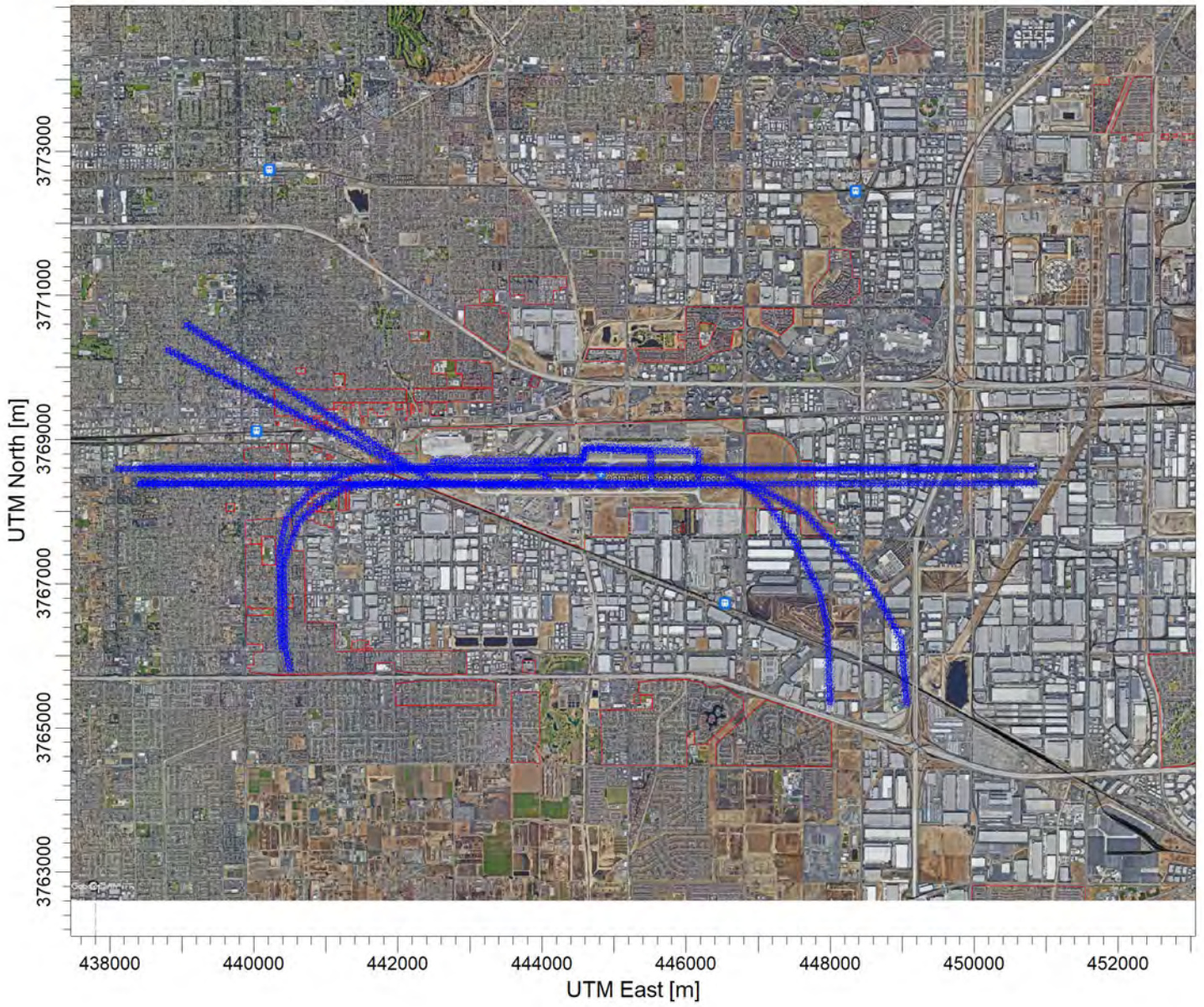
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2012 - 00:00** **End Date: 12/31/2016 - 23:59**	COMPANY NAME: **South Coast Air Quality Management District**	
		MODELER: **Melissa Sheffer**	
	CALM WINDS: **2.91%**	TOTAL COUNT: **43599 hrs.**	
	AVG. WIND SPEED: **2.88 m/s**	DATE: **5/23/2017**	PROJECT NO.:

PROJECT TITLE:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements
Aircraft Movement Volume Line Sources



COMMENTS:

SOURCES:

30

RECEPTORS:

1711

COMPANY NAME:

HELIX Environmenal Planning

DATE:

4/8/2022

SCALE: 1:87,959

0 2 km

PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Users\martinr\Desktop\ONT HRA\ONT Disp\ONT Disp.isc

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

OTHER - MULTIPLE

Averaging Time Options

Hours ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.20 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: ONT Disp.err

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	BATCH	443864.96 Batch Plant	3767802.23	275.10	3.00	1.00000	50.00	Surface-Based	11.63	2.33

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: 2023EV (2023 Construction Electrical Vault)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
275.22	2.50	0.00024		6	444660.00	3768032.37
		0.00024			444660.00	3768014.08
		0.00024			444708.40	3768014.08
		0.00024			444710.55	3768204.47
		0.00024			444690.11	3768203.39
		0.00024			444691.19	3768030.21

Source Type: AREA POLY

Source: 2023PV (2023 Paving/Demo)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
286.17	2.50	2.02E-6		4	443069.84	3768545.13
		2.02E-6			443067.78	3768273.12
		2.02E-6			444862.60	3768264.88
		2.02E-6			444860.54	3768545.13

Source Type: AREA POLY

Source: 2024RR (2024 Runway Rehab)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
284.69	2.50	4.11E-6		4	443061.60	3768423.55
		4.11E-6			443059.54	3768351.43
		4.11E-6			446298.87	3768341.12
		4.11E-6			446296.81	3768419.43

Source Pathway - Source Inputs

Source Type: AREA POLY

Source: 2025PD (2025 Paving/Demo)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
287.75	2.50	5.30E-6		4	442513.47	3768740.89
		5.30E-6			444670.96	3768755.31
		5.30E-6			444670.96	3768668.76
		5.30E-6			442517.59	3768652.28

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME
Source: A08LGR (Approach 08L Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		443095.92	3768592.19	287.09	1.50
			444586.86	3768591.85	282.96	1.50

Source Type: LINE VOLUME
Source: A08LSI (Approach 08L Straight In)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		443092.54	3768593.19	287.09	1.50
			438092.32	3768593.64	549.10	1.50

Source Type: LINE VOLUME
Source: A08RGR (Approach 08R Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		443407.01	3768380.11	283.39	1.50
			444898.02	3768378.61	280.61	1.50

Source Type: LINE VOLUME
Source: A08RSI (Approach 08R Straight In)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		443406.20	3768380.20	283.39	1.50
			438405.95	3768391.02	545.40	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: A08TX (Approach 08 Taxi)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445515.81	3768426.22	280.26	1.50
			445511.35	3768842.83	286.09	1.50
			444791.22	3768874.07	286.26	1.50

Source Type: LINE VOLUME
Source: A26LGR (Approach 26L Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445856.58	3768379.36	281.06	1.50
			444365.51	3768379.25	281.13	1.50

Source Type: LINE VOLUME
Source: A26LSI (Approach 26L Straight In)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445857.23	3768379.61	281.06	1.50
			450856.99	3768392.85	543.10	1.50

Source Type: LINE VOLUME
Source: A26RGR (Aproach 26R Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445851.99	3768592.18	283.26	1.50
			444361.21	3768592.00	283.55	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: A26RSI (Approach 26R Straight In)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445852.18	3768592.24	283.26	1.50
			450852.05	3768586.99	545.30	1.50

Source Type: LINE VOLUME
Source: A26TX (Approach 26 Taxi)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444117.47	3768420.53	281.71	1.50
			443851.05	3768665.97	285.26	1.50
			443931.05	3768710.24	285.72	1.50
			444575.72	3768718.01	284.06	1.50
			444590.48	3768867.91	285.91	1.50
			444771.46	3768874.13	286.26	1.50

Source Type: LINE VOLUME
Source: D08LGR (Departure 08L Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		442537.00	3768591.00	287.03	1.50
			444646.00	3768591.00	282.89	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: D08LRC (Departure 08L Right Crosswind)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444652.68	3768591.17	282.84	1.50
			446308.32	3768595.49	497.00	1.50
			446590.39	3768508.00	535.20	1.50
			447048.83	3768203.54	606.40	1.50
			447461.79	3767671.60	693.50	1.50
			447850.24	3766891.19	806.20	1.50
			447961.46	3766374.03	874.70	1.50
			447998.99	3765288.82	1015.10	1.50

Source Type: LINE VOLUME
Source: D08LSO (Departure 08L Straight Out)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444652.44	3768591.55	282.84	1.50
			450313.23	3768588.25	1015.00	1.50

Source Type: LINE VOLUME
Source: D08RGR (Departure 08R Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		443135.00	3768378.00	284.76	1.50
			445244.00	3768378.00	280.48	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: D08RRC (Departure 08R Right Crosswind)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		445250.95	3768378.07	280.36	1.50
			446801.00	3768382.70	480.90	1.50
			447108.49	3768281.70	522.70	1.50
			447661.57	3767961.92	605.30	1.50
			448536.94	3767049.15	768.90	1.50
			448986.04	3766229.21	889.90	1.50
			449065.03	3765282.98	1012.70	1.50

Source Type: LINE VOLUME
Source: D08TX (Departion 08 Taxi)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444774.67	3768874.24	286.26	1.50
			444589.36	3768863.95	286.00	1.50
			444579.06	3768715.69	284.10	1.50
			442487.51	3768697.42	288.01	1.50
			442478.58	3768618.57	287.32	1.50

Source Type: LINE VOLUME
Source: D26LGR (Departure 26L Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		446130.00	3768379.00	281.68	1.50
			444021.00	3768379.00	281.20	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: D26LLC (Departure 26L Left Crosswind)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.32	1.00000		444019.29	3768378.48	281.20	1.50
			441687.40	3768389.75	582.80	1.50
			441219.24	3768309.28	644.30	1.50
			440912.00	3768126.40	690.50	1.50
			440615.74	3767852.09	742.70	1.50
			440410.92	3767303.46	818.50	1.50
			440432.37	3766124.81	971.00	1.50
			440498.94	3765802.93	1013.50	1.50

Source Type: LINE VOLUME
Source: D26LRT (Departure 26L Right Turn)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444019.62	3768379.07	281.20	1.50
			442532.12	3768389.04	473.60	1.50
			439008.67	3770627.15	1013.50	1.50

Source Type: LINE VOLUME
Source: D26LSO (Departure 26L Straight Out)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444018.57	3768379.05	281.21	1.50
			438357.91	3768382.33	1013.40	1.50

Source Type: LINE VOLUME
Source: D26RGR (Deaprture 26R Ground Roll)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		446130.00	3768592.00	283.51	1.50
			444021.00	3768592.00	284.33	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: D26RLC (Departure 26R Left Crosswind)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444019.51	3768591.28	284.33	0.00
			441522.16	3768596.35	607.40	1.50
			441128.32	3768473.74	660.70	1.50
			440786.50	3768261.95	712.70	1.50
			440452.11	3767908.99	775.60	1.50
			440355.51	3767481.71	832.30	1.50
			440369.41	3766226.07	994.70	1.50
			440393.32	3766059.66	1016.40	1.50

Source Type: LINE VOLUME
Source: D26RRT (Departure 26R Right Turn)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444019.65	3768591.69	284.33	1.50
			442116.33	3768596.37	530.50	1.50
			438751.05	3770266.31	1016.40	1.50

Source Type: LINE VOLUME
Source: D26RSO (Departure 26R Striagnt Out)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444019.18	3768592.22	284.33	1.50
			438358.29	3768595.16	1016.50	1.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: D26TX (Depareture 26 R Taxi)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
68.64	1.00000		444788.66	3768870.16	286.26	1.50
			446170.57	3768834.04	286.02	1.50
			446172.12	3768406.59	281.79	1.50

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LGR	L0044907	442571.32	3768591.00	286.89	1.50	0.03226	68.64		31.93	6.66
	L0044908	442639.96	3768591.00	286.89	1.50	0.03226	68.64		31.93	6.66
	L0044909	442708.60	3768591.00	287.01	1.50	0.03226	68.64		31.93	6.66
	L0044910	442777.24	3768591.00	287.14	1.50	0.03226	68.64		31.93	6.66
	L0044911	442845.88	3768591.00	287.24	1.50	0.03226	68.64		31.93	6.66
	L0044912	442914.52	3768591.00	287.29	1.50	0.03226	68.64		31.93	6.66
	L0044913	442983.16	3768591.00	287.26	1.50	0.03226	68.64		31.93	6.66
	L0044914	443051.80	3768591.00	287.13	1.50	0.03226	68.64		31.93	6.66
	L0044915	443120.44	3768591.00	286.98	1.50	0.03226	68.64		31.93	6.66
	L0044916	443189.08	3768591.00	286.76	1.50	0.03226	68.64		31.93	6.66
	L0044917	443257.72	3768591.00	286.51	1.50	0.03226	68.64		31.93	6.66
	L0044918	443326.36	3768591.00	286.36	1.50	0.03226	68.64		31.93	6.66
	L0044919	443395.00	3768591.00	286.11	1.50	0.03226	68.64		31.93	6.66
	L0044920	443463.64	3768591.00	285.91	1.50	0.03226	68.64		31.93	6.66
	L0044921	443532.28	3768591.00	285.71	1.50	0.03226	68.64		31.93	6.66
	L0044922	443600.92	3768591.00	285.49	1.50	0.03226	68.64		31.93	6.66
	L0044923	443669.56	3768591.00	285.30	1.50	0.03226	68.64		31.93	6.66
	L0044924	443738.20	3768591.00	285.04	1.50	0.03226	68.64		31.93	6.66
	L0044925	443806.84	3768591.00	284.88	1.50	0.03226	68.64		31.93	6.66
	L0044926	443875.48	3768591.00	284.64	1.50	0.03226	68.64		31.93	6.66
	L0044927	443944.12	3768591.00	284.50	1.50	0.03226	68.64		31.93	6.66
	L0044928	444012.76	3768591.00	284.38	1.50	0.03226	68.64		31.93	6.66
	L0044929	444081.40	3768591.00	284.24	1.50	0.03226	68.64		31.93	6.66
	L0044930	444150.04	3768591.00	284.06	1.50	0.03226	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LGR	L0044931	444218.68	3768591.00	283.92	1.50	0.03226	68.64		31.93	6.66
	L0044932	444287.32	3768591.00	283.77	1.50	0.03226	68.64		31.93	6.66
	L0044933	444355.96	3768591.00	283.62	1.50	0.03226	68.64		31.93	6.66
	L0044934	444424.60	3768591.00	283.45	1.50	0.03226	68.64		31.93	6.66
	L0044935	444493.24	3768591.00	283.24	1.50	0.03226	68.64		31.93	6.66
	L0044936	444561.88	3768591.00	283.08	1.50	0.03226	68.64		31.93	6.66
	L0044937	444630.52	3768591.00	282.99	1.50	0.03226	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RGR	L0044938	443169.32	3768378.00	284.59	1.50	0.03226	68.64		31.93	6.66
	L0044939	443237.96	3768378.00	284.09	1.50	0.03226	68.64		31.93	6.66
	L0044940	443306.60	3768378.00	283.80	1.50	0.03226	68.64		31.93	6.66
	L0044941	443375.24	3768378.00	283.52	1.50	0.03226	68.64		31.93	6.66
	L0044942	443443.88	3768378.00	283.20	1.50	0.03226	68.64		31.93	6.66
	L0044943	443512.52	3768378.00	282.97	1.50	0.03226	68.64		31.93	6.66
	L0044944	443581.16	3768378.00	282.90	1.50	0.03226	68.64		31.93	6.66
	L0044945	443649.80	3768378.00	282.47	1.50	0.03226	68.64		31.93	6.66
	L0044946	443718.44	3768378.00	282.12	1.50	0.03226	68.64		31.93	6.66
	L0044947	443787.08	3768378.00	281.81	1.50	0.03226	68.64		31.93	6.66
	L0044948	443855.72	3768378.00	281.53	1.50	0.03226	68.64		31.93	6.66
	L0044949	443924.36	3768378.00	281.33	1.50	0.03226	68.64		31.93	6.66
	L0044950	443993.00	3768378.00	281.26	1.50	0.03226	68.64		31.93	6.66
	L0044951	444061.64	3768378.00	281.27	1.50	0.03226	68.64		31.93	6.66
	L0044952	444130.28	3768378.00	281.37	1.50	0.03226	68.64		31.93	6.66
	L0044953	444198.92	3768378.00	281.48	1.50	0.03226	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RGR	L0044954	444267.56	3768378.00	281.31	1.50	0.03226	68.64		31.93	6.66
	L0044955	444336.20	3768378.00	281.20	1.50	0.03226	68.64		31.93	6.66
	L0044956	444404.84	3768378.00	281.23	1.50	0.03226	68.64		31.93	6.66
	L0044957	444473.48	3768378.00	281.33	1.50	0.03226	68.64		31.93	6.66
	L0044958	444542.12	3768378.00	281.12	1.50	0.03226	68.64		31.93	6.66
	L0044959	444610.76	3768378.00	281.03	1.50	0.03226	68.64		31.93	6.66
	L0044960	444679.40	3768378.00	280.99	1.50	0.03226	68.64		31.93	6.66
	L0044961	444748.04	3768378.00	281.00	1.50	0.03226	68.64		31.93	6.66
	L0044962	444816.68	3768378.00	280.74	1.50	0.03226	68.64		31.93	6.66
	L0044963	444885.32	3768378.00	280.63	1.50	0.03226	68.64		31.93	6.66
	L0044964	444953.96	3768378.00	280.55	1.50	0.03226	68.64		31.93	6.66
	L0044965	445022.60	3768378.00	280.47	1.50	0.03226	68.64		31.93	6.66
	L0044966	445091.24	3768378.00	280.39	1.50	0.03226	68.64		31.93	6.66
	L0044967	445159.88	3768378.00	280.43	1.50	0.03226	68.64		31.93	6.66
	L0044968	445228.52	3768378.00	280.42	1.50	0.03226	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LGR	L0044969	446095.68	3768379.00	281.52	1.50	0.03226	68.64		31.93	6.66
	L0044970	446027.04	3768379.00	281.35	1.50	0.03226	68.64		31.93	6.66
	L0044971	445958.40	3768379.00	281.17	1.50	0.03226	68.64		31.93	6.66
	L0044972	445889.76	3768379.00	281.00	1.50	0.03226	68.64		31.93	6.66
	L0044973	445821.12	3768379.00	280.84	1.50	0.03226	68.64		31.93	6.66
	L0044974	445752.48	3768379.00	280.68	1.50	0.03226	68.64		31.93	6.66
	L0044975	445683.84	3768379.00	280.50	1.50	0.03226	68.64		31.93	6.66
	L0044976	445615.20	3768379.00	280.36	1.50	0.03226	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LGR	L0044977	445546.56	3768379.00	280.30	1.50	0.03226	68.64		31.93	6.66
	L0044978	445477.92	3768379.00	280.02	1.50	0.03226	68.64		31.93	6.66
	L0044979	445409.28	3768379.00	279.98	1.50	0.03226	68.64		31.93	6.66
	L0044980	445340.64	3768379.00	280.07	1.50	0.03226	68.64		31.93	6.66
	L0044981	445272.00	3768379.00	280.29	1.50	0.03226	68.64		31.93	6.66
	L0044982	445203.36	3768379.00	280.47	1.50	0.03226	68.64		31.93	6.66
	L0044983	445134.72	3768379.00	280.39	1.50	0.03226	68.64		31.93	6.66
	L0044984	445066.08	3768379.00	280.44	1.50	0.03226	68.64		31.93	6.66
	L0044985	444997.44	3768379.00	280.52	1.50	0.03226	68.64		31.93	6.66
	L0044986	444928.80	3768379.00	280.60	1.50	0.03226	68.64		31.93	6.66
	L0044987	444860.16	3768379.00	280.67	1.50	0.03226	68.64		31.93	6.66
	L0044988	444791.52	3768379.00	280.91	1.50	0.03226	68.64		31.93	6.66
	L0044989	444722.88	3768379.00	281.04	1.50	0.03226	68.64		31.93	6.66
	L0044990	444654.24	3768379.00	281.00	1.50	0.03226	68.64		31.93	6.66
	L0044991	444585.60	3768379.00	281.08	1.50	0.03226	68.64		31.93	6.66
	L0044992	444516.96	3768379.00	281.20	1.50	0.03226	68.64		31.93	6.66
	L0044993	444448.32	3768379.00	281.40	1.50	0.03226	68.64		31.93	6.66
	L0044994	444379.68	3768379.00	281.23	1.50	0.03226	68.64		31.93	6.66
	L0044995	444311.04	3768379.00	281.22	1.50	0.03226	68.64		31.93	6.66
	L0044996	444242.40	3768379.00	281.43	1.50	0.03226	68.64		31.93	6.66
	L0044997	444173.76	3768379.00	281.50	1.50	0.03226	68.64		31.93	6.66
	L0044998	444105.12	3768379.00	281.32	1.50	0.03226	68.64		31.93	6.66
	L0044999	444036.48	3768379.00	281.29	1.50	0.03226	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RGR	L0045000	446095.68	3768592.00	283.54	1.50	0.03226	68.64		31.93	6.66
	L0045001	446027.04	3768592.00	283.49	1.50	0.03226	68.64		31.93	6.66
	L0045002	445958.40	3768592.00	283.44	1.50	0.03226	68.64		31.93	6.66
	L0045003	445889.76	3768592.00	283.38	1.50	0.03226	68.64		31.93	6.66
	L0045004	445821.12	3768592.00	283.34	1.50	0.03226	68.64		31.93	6.66
	L0045005	445752.48	3768592.00	283.27	1.50	0.03226	68.64		31.93	6.66
	L0045006	445683.84	3768592.00	283.22	1.50	0.03226	68.64		31.93	6.66
	L0045007	445615.20	3768592.00	283.15	1.50	0.03226	68.64		31.93	6.66
	L0045008	445546.56	3768592.00	283.19	1.50	0.03226	68.64		31.93	6.66
	L0045009	445477.92	3768592.00	283.10	1.50	0.03226	68.64		31.93	6.66
	L0045010	445409.28	3768592.00	283.07	1.50	0.03226	68.64		31.93	6.66
	L0045011	445340.64	3768592.00	283.03	1.50	0.03226	68.64		31.93	6.66
	L0045012	445272.00	3768592.00	282.99	1.50	0.03226	68.64		31.93	6.66
	L0045013	445203.36	3768592.00	282.91	1.50	0.03226	68.64		31.93	6.66
	L0045014	445134.72	3768592.00	282.88	1.50	0.03226	68.64		31.93	6.66
	L0045015	445066.08	3768592.00	282.84	1.50	0.03226	68.64		31.93	6.66
	L0045016	444997.44	3768592.00	282.79	1.50	0.03226	68.64		31.93	6.66
	L0045017	444928.80	3768592.00	282.74	1.50	0.03226	68.64		31.93	6.66
	L0045018	444860.16	3768592.00	282.71	1.50	0.03226	68.64		31.93	6.66
	L0045019	444791.52	3768592.00	282.70	1.50	0.03226	68.64		31.93	6.66
	L0045020	444722.88	3768592.00	282.73	1.50	0.03226	68.64		31.93	6.66
	L0045021	444654.24	3768592.00	282.94	1.50	0.03226	68.64		31.93	6.66
	L0045022	444585.60	3768592.00	283.06	1.50	0.03226	68.64		31.93	6.66
	L0045023	444516.96	3768592.00	283.20	1.50	0.03226	68.64		31.93	6.66
	L0045024	444448.32	3768592.00	283.38	1.50	0.03226	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RGR	L0045025	444379.68	3768592.00	283.59	1.50	0.03226	68.64		31.93	6.66
	L0045026	444311.04	3768592.00	283.73	1.50	0.03226	68.64		31.93	6.66
	L0045027	444242.40	3768592.00	283.89	1.50	0.03226	68.64		31.93	6.66
	L0045028	444173.76	3768592.00	284.02	1.50	0.03226	68.64		31.93	6.66
	L0045029	444105.12	3768592.00	284.19	1.50	0.03226	68.64		31.93	6.66
	L0045030	444036.48	3768592.00	284.34	1.50	0.03226	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LGR	L0045031	443130.24	3768592.18	286.98	1.50	0.04545	68.64		31.93	6.66
	L0045032	443198.88	3768592.16	286.74	1.50	0.04545	68.64		31.93	6.66
	L0045033	443267.52	3768592.15	286.51	1.50	0.04545	68.64		31.93	6.66
	L0045034	443336.16	3768592.13	286.34	1.50	0.04545	68.64		31.93	6.66
	L0045035	443404.80	3768592.12	286.10	1.50	0.04545	68.64		31.93	6.66
	L0045036	443473.44	3768592.10	285.90	1.50	0.04545	68.64		31.93	6.66
	L0045037	443542.08	3768592.09	285.69	1.50	0.04545	68.64		31.93	6.66
	L0045038	443610.72	3768592.07	285.48	1.50	0.04545	68.64		31.93	6.66
	L0045039	443679.36	3768592.05	285.30	1.50	0.04545	68.64		31.93	6.66
	L0045040	443748.00	3768592.04	285.04	1.50	0.04545	68.64		31.93	6.66
	L0045041	443816.64	3768592.02	284.85	1.50	0.04545	68.64		31.93	6.66
	L0045042	443885.28	3768592.01	284.63	1.50	0.04545	68.64		31.93	6.66
	L0045043	443953.92	3768591.99	284.50	1.50	0.04545	68.64		31.93	6.66
	L0045044	444022.56	3768591.98	284.37	1.50	0.04545	68.64		31.93	6.66
	L0045045	444091.20	3768591.96	284.23	1.50	0.04545	68.64		31.93	6.66
	L0045046	444159.84	3768591.95	284.05	1.50	0.04545	68.64		31.93	6.66
	L0045047	444228.48	3768591.93	283.92	1.50	0.04545	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LGR	L0045048	444297.12	3768591.91	283.76	1.50	0.04545	68.64		31.93	6.66
	L0045049	444365.76	3768591.90	283.61	1.50	0.04545	68.64		31.93	6.66
	L0045050	444434.40	3768591.88	283.42	1.50	0.04545	68.64		31.93	6.66
	L0045051	444503.04	3768591.87	283.23	1.50	0.04545	68.64		31.93	6.66
	L0045052	444571.68	3768591.85	283.07	1.50	0.04545	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RGR	L0045053	443441.33	3768380.08	283.27	1.50	0.04545	68.64		31.93	6.66
	L0045054	443509.97	3768380.01	283.02	1.50	0.04545	68.64		31.93	6.66
	L0045055	443578.61	3768379.94	282.94	1.50	0.04545	68.64		31.93	6.66
	L0045056	443647.25	3768379.87	282.53	1.50	0.04545	68.64		31.93	6.66
	L0045057	443715.89	3768379.80	282.17	1.50	0.04545	68.64		31.93	6.66
	L0045058	443784.53	3768379.73	281.86	1.50	0.04545	68.64		31.93	6.66
	L0045059	443853.17	3768379.66	281.58	1.50	0.04545	68.64		31.93	6.66
	L0045060	443921.81	3768379.59	281.36	1.50	0.04545	68.64		31.93	6.66
	L0045061	443990.45	3768379.53	281.30	1.50	0.04545	68.64		31.93	6.66
	L0045062	444059.09	3768379.46	281.30	1.50	0.04545	68.64		31.93	6.66
	L0045063	444127.73	3768379.39	281.38	1.50	0.04545	68.64		31.93	6.66
	L0045064	444196.37	3768379.32	281.50	1.50	0.04545	68.64		31.93	6.66
	L0045065	444265.01	3768379.25	281.35	1.50	0.04545	68.64		31.93	6.66
	L0045066	444333.65	3768379.18	281.23	1.50	0.04545	68.64		31.93	6.66
	L0045067	444402.29	3768379.11	281.25	1.50	0.04545	68.64		31.93	6.66
	L0045068	444470.93	3768379.04	281.36	1.50	0.04545	68.64		31.93	6.66
	L0045069	444539.57	3768378.97	281.15	1.50	0.04545	68.64		31.93	6.66
	L0045070	444608.21	3768378.90	281.05	1.50	0.04545	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RGR	L0045071	444676.85	3768378.84	281.00	1.50	0.04545	68.64		31.93	6.66
	L0045072	444745.49	3768378.77	281.01	1.50	0.04545	68.64		31.93	6.66
	L0045073	444814.13	3768378.70	280.77	1.50	0.04545	68.64		31.93	6.66
	L0045074	444882.77	3768378.63	280.64	1.50	0.04545	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LGR	L0045075	445822.26	3768379.36	280.85	1.50	0.04545	68.64		31.93	6.66
	L0045076	445753.62	3768379.35	280.69	1.50	0.04545	68.64		31.93	6.66
	L0045077	445684.98	3768379.35	280.51	1.50	0.04545	68.64		31.93	6.66
	L0045078	445616.34	3768379.34	280.37	1.50	0.04545	68.64		31.93	6.66
	L0045079	445547.70	3768379.34	280.31	1.50	0.04545	68.64		31.93	6.66
	L0045080	445479.06	3768379.33	280.03	1.50	0.04545	68.64		31.93	6.66
	L0045081	445410.42	3768379.33	279.98	1.50	0.04545	68.64		31.93	6.66
	L0045082	445341.78	3768379.32	280.07	1.50	0.04545	68.64		31.93	6.66
	L0045083	445273.14	3768379.32	280.29	1.50	0.04545	68.64		31.93	6.66
	L0045084	445204.50	3768379.31	280.47	1.50	0.04545	68.64		31.93	6.66
	L0045085	445135.86	3768379.31	280.40	1.50	0.04545	68.64		31.93	6.66
	L0045086	445067.22	3768379.30	280.44	1.50	0.04545	68.64		31.93	6.66
	L0045087	444998.58	3768379.29	280.53	1.50	0.04545	68.64		31.93	6.66
	L0045088	444929.94	3768379.29	280.60	1.50	0.04545	68.64		31.93	6.66
	L0045089	444861.30	3768379.28	280.67	1.50	0.04545	68.64		31.93	6.66
	L0045090	444792.66	3768379.28	280.91	1.50	0.04545	68.64		31.93	6.66
	L0045091	444724.02	3768379.27	281.04	1.50	0.04545	68.64		31.93	6.66
	L0045092	444655.38	3768379.27	281.01	1.50	0.04545	68.64		31.93	6.66
	L0045093	444586.74	3768379.26	281.09	1.50	0.04545	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LGR	L0045094	444518.10	3768379.26	281.20	1.50	0.04545	68.64		31.93	6.66
	L0045095	444449.46	3768379.25	281.40	1.50	0.04545	68.64		31.93	6.66
	L0045096	444380.82	3768379.25	281.23	1.50	0.04545	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26TX	L0045119	444822.97	3768869.27	286.36	1.50	0.03846	68.64		31.93	6.66
	L0045120	444891.58	3768867.47	286.34	1.50	0.03846	68.64		31.93	6.66
	L0045121	444960.20	3768865.68	286.32	1.50	0.03846	68.64		31.93	6.66
	L0045122	445028.82	3768863.89	286.32	1.50	0.03846	68.64		31.93	6.66
	L0045123	445097.43	3768862.09	286.32	1.50	0.03846	68.64		31.93	6.66
	L0045124	445166.05	3768860.30	286.31	1.50	0.03846	68.64		31.93	6.66
	L0045125	445234.67	3768858.51	286.29	1.50	0.03846	68.64		31.93	6.66
	L0045126	445303.28	3768856.71	286.27	1.50	0.03846	68.64		31.93	6.66
	L0045127	445371.90	3768854.92	286.26	1.50	0.03846	68.64		31.93	6.66
	L0045128	445440.52	3768853.12	286.23	1.50	0.03846	68.64		31.93	6.66
	L0045129	445509.13	3768851.33	286.23	1.50	0.03846	68.64		31.93	6.66
	L0045130	445577.75	3768849.54	286.22	1.50	0.03846	68.64		31.93	6.66
	L0045131	445646.37	3768847.74	286.17	1.50	0.03846	68.64		31.93	6.66
	L0045132	445714.98	3768845.95	286.16	1.50	0.03846	68.64		31.93	6.66
	L0045133	445783.60	3768844.16	286.12	1.50	0.03846	68.64		31.93	6.66
	L0045134	445852.22	3768842.36	286.10	1.50	0.03846	68.64		31.93	6.66
	L0045135	445920.83	3768840.57	286.07	1.50	0.03846	68.64		31.93	6.66
	L0045136	445989.45	3768838.77	286.05	1.50	0.03846	68.64		31.93	6.66
	L0045137	446058.07	3768836.98	286.04	1.50	0.03846	68.64		31.93	6.66
	L0045138	446126.68	3768835.19	286.05	1.50	0.03846	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26TX	L0045139	446170.66	3768809.30	285.69	1.50	0.03846	68.64		31.93	6.66
	L0045140	446170.91	3768740.66	285.43	1.50	0.03846	68.64		31.93	6.66
	L0045141	446171.16	3768672.02	284.36	1.50	0.03846	68.64		31.93	6.66
	L0045142	446171.41	3768603.38	283.81	1.50	0.03846	68.64		31.93	6.66
	L0045143	446171.66	3768534.74	282.57	1.50	0.03846	68.64		31.93	6.66
	L0045144	446171.91	3768466.11	281.72	1.50	0.03846	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08TX	L0045145	444740.41	3768872.34	286.38	1.50	0.02778	68.64		31.93	6.66
	L0045146	444671.87	3768868.53	286.36	1.50	0.02778	68.64		31.93	6.66
	L0045147	444603.34	3768864.72	286.18	1.50	0.02778	68.64		31.93	6.66
	L0045148	444585.57	3768809.44	284.09	1.50	0.02778	68.64		31.93	6.66
	L0045149	444580.82	3768740.97	284.61	1.50	0.02778	68.64		31.93	6.66
	L0045150	444535.76	3768715.31	284.02	1.50	0.02778	68.64		31.93	6.66
	L0045151	444467.12	3768714.71	284.02	1.50	0.02778	68.64		31.93	6.66
	L0045152	444398.48	3768714.11	284.07	1.50	0.02778	68.64		31.93	6.66
	L0045153	444329.85	3768713.52	283.82	1.50	0.02778	68.64		31.93	6.66
	L0045154	444261.21	3768712.92	284.31	1.50	0.02778	68.64		31.93	6.66
	L0045155	444192.57	3768712.32	284.77	1.50	0.02778	68.64		31.93	6.66
	L0045156	444123.93	3768711.72	284.79	1.50	0.02778	68.64		31.93	6.66
	L0045157	444055.30	3768711.12	285.07	1.50	0.02778	68.64		31.93	6.66
	L0045158	443986.66	3768710.52	285.50	1.50	0.02778	68.64		31.93	6.66
	L0045159	443918.02	3768709.92	285.73	1.50	0.02778	68.64		31.93	6.66
	L0045160	443849.38	3768709.32	285.75	1.50	0.02778	68.64		31.93	6.66
	L0045161	443780.75	3768708.72	285.59	1.50	0.02778	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08TX	L0045162	443712.11	3768708.12	286.02	1.50	0.02778	68.64		31.93	6.66
	L0045163	443643.47	3768707.52	285.81	1.50	0.02778	68.64		31.93	6.66
	L0045164	443574.83	3768706.92	285.82	1.50	0.02778	68.64		31.93	6.66
	L0045165	443506.20	3768706.32	286.19	1.50	0.02778	68.64		31.93	6.66
	L0045166	443437.56	3768705.72	286.47	1.50	0.02778	68.64		31.93	6.66
	L0045167	443368.92	3768705.12	286.76	1.50	0.02778	68.64		31.93	6.66
	L0045168	443300.28	3768704.52	287.04	1.50	0.02778	68.64		31.93	6.66
	L0045169	443231.65	3768703.92	287.32	1.50	0.02778	68.64		31.93	6.66
	L0045170	443163.01	3768703.32	287.99	1.50	0.02778	68.64		31.93	6.66
	L0045171	443094.37	3768702.72	287.88	1.50	0.02778	68.64		31.93	6.66
	L0045172	443025.74	3768702.12	287.63	1.50	0.02778	68.64		31.93	6.66
	L0045173	442957.10	3768701.52	287.73	1.50	0.02778	68.64		31.93	6.66
	L0045174	442888.46	3768700.92	287.83	1.50	0.02778	68.64		31.93	6.66
	L0045175	442819.82	3768700.32	287.67	1.50	0.02778	68.64		31.93	6.66
	L0045176	442751.19	3768699.72	287.47	1.50	0.02778	68.64		31.93	6.66
	L0045177	442682.55	3768699.12	287.24	1.50	0.02778	68.64		31.93	6.66
	L0045178	442613.91	3768698.53	287.15	1.50	0.02778	68.64		31.93	6.66
	L0045179	442545.27	3768697.93	287.70	1.50	0.02778	68.64		31.93	6.66
	L0045180	442486.29	3768686.62	288.00	1.50	0.02778	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08TX	L0045181	445515.44	3768460.54	280.11	1.50	0.05882	68.64		31.93	6.66
	L0045182	445514.71	3768529.18	281.33	1.50	0.05882	68.64		31.93	6.66
	L0045183	445513.97	3768597.81	283.22	1.50	0.05882	68.64		31.93	6.66
	L0045184	445513.24	3768666.45	283.43	1.50	0.05882	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08TX	L0045185	445512.50	3768735.09	284.69	1.50	0.05882	68.64		31.93	6.66
	L0045186	445511.77	3768803.72	285.47	1.50	0.05882	68.64		31.93	6.66
	L0045187	445481.84	3768844.11	286.13	1.50	0.05882	68.64		31.93	6.66
	L0045188	445413.27	3768847.08	286.16	1.50	0.05882	68.64		31.93	6.66
	L0045189	445344.69	3768850.06	286.19	1.50	0.05882	68.64		31.93	6.66
	L0045190	445276.12	3768853.03	286.22	1.50	0.05882	68.64		31.93	6.66
	L0045191	445207.54	3768856.01	286.26	1.50	0.05882	68.64		31.93	6.66
	L0045192	445138.96	3768858.98	286.28	1.50	0.05882	68.64		31.93	6.66
	L0045193	445070.39	3768861.96	286.31	1.50	0.05882	68.64		31.93	6.66
	L0045194	445001.81	3768864.94	286.32	1.50	0.05882	68.64		31.93	6.66
	L0045195	444933.24	3768867.91	286.34	1.50	0.05882	68.64		31.93	6.66
	L0045196	444864.66	3768870.89	286.37	1.50	0.05882	68.64		31.93	6.66
	L0045197	444796.09	3768873.86	286.40	1.50	0.05882	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26TX	L0045198	444092.22	3768443.78	281.56	1.50	0.04762	68.64		31.93	6.66
	L0045199	444041.74	3768490.29	281.93	1.50	0.04762	68.64		31.93	6.66
	L0045200	443991.26	3768536.80	283.50	1.50	0.04762	68.64		31.93	6.66
	L0045201	443940.78	3768583.30	284.38	1.50	0.04762	68.64		31.93	6.66
	L0045202	443890.30	3768629.81	285.09	1.50	0.04762	68.64		31.93	6.66
	L0045203	443864.42	3768673.37	285.37	1.50	0.04762	68.64		31.93	6.66
	L0045204	443924.48	3768706.60	285.69	1.50	0.04762	68.64		31.93	6.66
	L0045205	443992.18	3768710.98	285.47	1.50	0.04762	68.64		31.93	6.66
	L0045206	444060.81	3768711.80	285.06	1.50	0.04762	68.64		31.93	6.66
	L0045207	444129.45	3768712.63	284.80	1.50	0.04762	68.64		31.93	6.66

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26TX	L0045208	444198.08	3768713.46	284.78	1.50	0.04762	68.64		31.93	6.66
	L0045209	444266.72	3768714.28	284.29	1.50	0.04762	68.64		31.93	6.66
	L0045210	444335.35	3768715.11	283.81	1.50	0.04762	68.64		31.93	6.66
	L0045211	444403.99	3768715.94	284.13	1.50	0.04762	68.64		31.93	6.66
	L0045212	444472.62	3768716.76	284.06	1.50	0.04762	68.64		31.93	6.66
	L0045213	444541.26	3768717.59	284.08	1.50	0.04762	68.64		31.93	6.66
	L0045214	444579.07	3768752.01	284.19	1.50	0.04762	68.64		31.93	6.66
	L0045215	444585.80	3768820.32	284.32	1.50	0.04762	68.64		31.93	6.66
	L0045216	444611.29	3768868.63	286.31	1.50	0.04762	68.64		31.93	6.66
	L0045217	444679.89	3768870.98	286.38	1.50	0.04762	68.64		31.93	6.66
	L0045218	444748.49	3768873.34	286.39	1.50	0.04762	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RGR	L0048821	445817.67	3768592.17	283.34	1.50	0.04545	68.64		31.93	6.66
	L0048822	445749.03	3768592.16	283.27	1.50	0.04545	68.64		31.93	6.66
	L0048823	445680.39	3768592.16	283.22	1.50	0.04545	68.64		31.93	6.66
	L0048824	445611.75	3768592.15	283.16	1.50	0.04545	68.64		31.93	6.66
	L0048825	445543.11	3768592.14	283.19	1.50	0.04545	68.64		31.93	6.66
	L0048826	445474.47	3768592.13	283.10	1.50	0.04545	68.64		31.93	6.66
	L0048827	445405.83	3768592.12	283.07	1.50	0.04545	68.64		31.93	6.66
	L0048828	445337.19	3768592.11	283.03	1.50	0.04545	68.64		31.93	6.66
	L0048829	445268.55	3768592.11	282.99	1.50	0.04545	68.64		31.93	6.66
	L0048830	445199.91	3768592.10	282.91	1.50	0.04545	68.64		31.93	6.66
	L0048831	445131.27	3768592.09	282.88	1.50	0.04545	68.64		31.93	6.66
	L0048832	445062.63	3768592.08	282.84	1.50	0.04545	68.64		31.93	6.66

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RGR	L0048833	444993.99	3768592.07	282.79	1.50	0.04545	68.64		31.93	6.66
	L0048834	444925.35	3768592.06	282.74	1.50	0.04545	68.64		31.93	6.66
	L0048835	444856.71	3768592.06	282.71	1.50	0.04545	68.64		31.93	6.66
	L0048836	444788.07	3768592.05	282.70	1.50	0.04545	68.64		31.93	6.66
	L0048837	444719.43	3768592.04	282.74	1.50	0.04545	68.64		31.93	6.66
	L0048838	444650.79	3768592.03	282.95	1.50	0.04545	68.64		31.93	6.66
	L0048839	444582.15	3768592.02	283.06	1.50	0.04545	68.64		31.93	6.66
	L0048840	444513.51	3768592.01	283.21	1.50	0.04545	68.64		31.93	6.66
	L0048841	444444.87	3768592.01	283.39	1.50	0.04545	68.64		31.93	6.66
	L0048842	444376.23	3768592.00	283.59	1.50	0.04545	68.64		31.93	6.66

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LSI	L0048843	443058.22	3768593.19	288.89	1.50	0.01370	68.64		31.93	3.33
	L0048844	442989.58	3768593.20	292.49	1.50	0.01370	68.64		31.93	3.33
	L0048845	442920.94	3768593.21	296.08	1.50	0.01370	68.64		31.93	3.33
	L0048846	442852.30	3768593.21	299.68	1.50	0.01370	68.64		31.93	3.33
	L0048847	442783.66	3768593.22	303.28	1.50	0.01370	68.64		31.93	3.33
	L0048848	442715.02	3768593.22	306.87	1.50	0.01370	68.64		31.93	3.33
	L0048849	442646.38	3768593.23	310.47	1.50	0.01370	68.64		31.93	3.33
	L0048850	442577.74	3768593.24	314.07	1.50	0.01370	68.64		31.93	3.33
	L0048851	442509.10	3768593.24	317.66	1.50	0.01370	68.64		31.93	3.33
	L0048852	442440.46	3768593.25	321.26	1.50	0.01370	68.64		31.93	3.33
	L0048853	442371.82	3768593.26	324.86	1.50	0.01370	68.64		31.93	3.33
	L0048854	442303.18	3768593.26	328.45	1.50	0.01370	68.64		31.93	3.33
	L0048855	442234.54	3768593.27	332.05	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LSI	L0048856	442165.90	3768593.27	335.65	1.50	0.01370	68.64		31.93	3.33
	L0048857	442097.26	3768593.28	339.24	1.50	0.01370	68.64		31.93	3.33
	L0048858	442028.62	3768593.29	342.84	1.50	0.01370	68.64		31.93	3.33
	L0048859	441959.98	3768593.29	346.44	1.50	0.01370	68.64		31.93	3.33
	L0048860	441891.34	3768593.30	350.03	1.50	0.01370	68.64		31.93	3.33
	L0048861	441822.70	3768593.31	353.63	1.50	0.01370	68.64		31.93	3.33
	L0048862	441754.06	3768593.31	357.23	1.50	0.01370	68.64		31.93	3.33
	L0048863	441685.42	3768593.32	360.82	1.50	0.01370	68.64		31.93	3.33
	L0048864	441616.78	3768593.32	364.42	1.50	0.01370	68.64		31.93	3.33
	L0048865	441548.14	3768593.33	368.02	1.50	0.01370	68.64		31.93	3.33
	L0048866	441479.50	3768593.34	371.61	1.50	0.01370	68.64		31.93	3.33
	L0048867	441410.86	3768593.34	375.21	1.50	0.01370	68.64		31.93	3.33
	L0048868	441342.22	3768593.35	378.81	1.50	0.01370	68.64		31.93	3.33
	L0048869	441273.58	3768593.35	382.40	1.50	0.01370	68.64		31.93	3.33
	L0048870	441204.94	3768593.36	386.00	1.50	0.01370	68.64		31.93	3.33
	L0048871	441136.30	3768593.37	389.60	1.50	0.01370	68.64		31.93	3.33
	L0048872	441067.66	3768593.37	393.19	1.50	0.01370	68.64		31.93	3.33
	L0048873	440999.02	3768593.38	396.79	1.50	0.01370	68.64		31.93	3.33
	L0048874	440930.38	3768593.39	400.39	1.50	0.01370	68.64		31.93	3.33
	L0048875	440861.74	3768593.39	403.98	1.50	0.01370	68.64		31.93	3.33
	L0048876	440793.10	3768593.40	407.58	1.50	0.01370	68.64		31.93	3.33
	L0048877	440724.46	3768593.40	411.18	1.50	0.01370	68.64		31.93	3.33
	L0048878	440655.82	3768593.41	414.77	1.50	0.01370	68.64		31.93	3.33
	L0048879	440587.18	3768593.42	418.37	1.50	0.01370	68.64		31.93	3.33
	L0048880	440518.54	3768593.42	421.97	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LSI	L0048881	440449.90	3768593.43	425.56	1.50	0.01370	68.64		31.93	3.33
	L0048882	440381.26	3768593.44	429.16	1.50	0.01370	68.64		31.93	3.33
	L0048883	440312.62	3768593.44	432.76	1.50	0.01370	68.64		31.93	3.33
	L0048884	440243.98	3768593.45	436.35	1.50	0.01370	68.64		31.93	3.33
	L0048885	440175.34	3768593.45	439.95	1.50	0.01370	68.64		31.93	3.33
	L0048886	440106.70	3768593.46	443.55	1.50	0.01370	68.64		31.93	3.33
	L0048887	440038.06	3768593.47	447.14	1.50	0.01370	68.64		31.93	3.33
	L0048888	439969.42	3768593.47	450.74	1.50	0.01370	68.64		31.93	3.33
	L0048889	439900.78	3768593.48	454.34	1.50	0.01370	68.64		31.93	3.33
	L0048890	439832.14	3768593.49	457.93	1.50	0.01370	68.64		31.93	3.33
	L0048891	439763.50	3768593.49	461.53	1.50	0.01370	68.64		31.93	3.33
	L0048892	439694.86	3768593.50	465.13	1.50	0.01370	68.64		31.93	3.33
	L0048893	439626.22	3768593.50	468.72	1.50	0.01370	68.64		31.93	3.33
	L0048894	439557.58	3768593.51	472.32	1.50	0.01370	68.64		31.93	3.33
	L0048895	439488.94	3768593.52	475.92	1.50	0.01370	68.64		31.93	3.33
	L0048896	439420.30	3768593.52	479.51	1.50	0.01370	68.64		31.93	3.33
	L0048897	439351.66	3768593.53	483.11	1.50	0.01370	68.64		31.93	3.33
	L0048898	439283.02	3768593.54	486.71	1.50	0.01370	68.64		31.93	3.33
	L0048899	439214.38	3768593.54	490.30	1.50	0.01370	68.64		31.93	3.33
	L0048900	439145.74	3768593.55	493.90	1.50	0.01370	68.64		31.93	3.33
	L0048901	439077.10	3768593.55	497.50	1.50	0.01370	68.64		31.93	3.33
	L0048902	439008.46	3768593.56	501.09	1.50	0.01370	68.64		31.93	3.33
	L0048903	438939.82	3768593.57	504.69	1.50	0.01370	68.64		31.93	3.33
	L0048904	438871.18	3768593.57	508.29	1.50	0.01370	68.64		31.93	3.33
	L0048905	438802.54	3768593.58	511.88	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08LSI	L0048906	438733.90	3768593.59	515.48	1.50	0.01370	68.64		31.93	3.33
	L0048907	438665.26	3768593.59	519.08	1.50	0.01370	68.64		31.93	3.33
	L0048908	438596.62	3768593.60	522.67	1.50	0.01370	68.64		31.93	3.33
	L0048909	438527.98	3768593.60	526.27	1.50	0.01370	68.64		31.93	3.33
	L0048910	438459.34	3768593.61	529.87	1.50	0.01370	68.64		31.93	3.33
	L0048911	438390.70	3768593.62	533.47	1.50	0.01370	68.64		31.93	3.33
	L0048912	438322.06	3768593.62	537.06	1.50	0.01370	68.64		31.93	3.33
	L0048913	438253.42	3768593.63	540.66	1.50	0.01370	68.64		31.93	3.33
	L0048914	438184.78	3768593.64	544.26	1.50	0.01370	68.64		31.93	3.33
	L0048915	438116.14	3768593.64	547.85	1.50	0.01370	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RSI	L0048916	443371.88	3768380.28	285.19	1.50	0.01370	68.64		31.93	3.33
	L0048917	443303.24	3768380.42	288.79	1.50	0.01370	68.64		31.93	3.33
	L0048918	443234.60	3768380.57	292.38	1.50	0.01370	68.64		31.93	3.33
	L0048919	443165.96	3768380.72	295.98	1.50	0.01370	68.64		31.93	3.33
	L0048920	443097.32	3768380.87	299.58	1.50	0.01370	68.64		31.93	3.33
	L0048921	443028.68	3768381.02	303.17	1.50	0.01370	68.64		31.93	3.33
	L0048922	442960.04	3768381.17	306.77	1.50	0.01370	68.64		31.93	3.33
	L0048923	442891.40	3768381.32	310.37	1.50	0.01370	68.64		31.93	3.33
	L0048924	442822.76	3768381.46	313.96	1.50	0.01370	68.64		31.93	3.33
	L0048925	442754.12	3768381.61	317.56	1.50	0.01370	68.64		31.93	3.33
	L0048926	442685.48	3768381.76	321.16	1.50	0.01370	68.64		31.93	3.33
	L0048927	442616.84	3768381.91	324.75	1.50	0.01370	68.64		31.93	3.33
	L0048928	442548.20	3768382.06	328.35	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RSI	L0048929	442479.56	3768382.21	331.95	1.50	0.01370	68.64		31.93	3.33
	L0048930	442410.92	3768382.36	335.54	1.50	0.01370	68.64		31.93	3.33
	L0048931	442342.28	3768382.50	339.14	1.50	0.01370	68.64		31.93	3.33
	L0048932	442273.64	3768382.65	342.74	1.50	0.01370	68.64		31.93	3.33
	L0048933	442205.00	3768382.80	346.33	1.50	0.01370	68.64		31.93	3.33
	L0048934	442136.36	3768382.95	349.93	1.50	0.01370	68.64		31.93	3.33
	L0048935	442067.72	3768383.10	353.53	1.50	0.01370	68.64		31.93	3.33
	L0048936	441999.08	3768383.25	357.12	1.50	0.01370	68.64		31.93	3.33
	L0048937	441930.44	3768383.39	360.72	1.50	0.01370	68.64		31.93	3.33
	L0048938	441861.80	3768383.54	364.32	1.50	0.01370	68.64		31.93	3.33
	L0048939	441793.16	3768383.69	367.91	1.50	0.01370	68.64		31.93	3.33
	L0048940	441724.52	3768383.84	371.51	1.50	0.01370	68.64		31.93	3.33
	L0048941	441655.88	3768383.99	375.11	1.50	0.01370	68.64		31.93	3.33
	L0048942	441587.24	3768384.14	378.70	1.50	0.01370	68.64		31.93	3.33
	L0048943	441518.61	3768384.29	382.30	1.50	0.01370	68.64		31.93	3.33
	L0048944	441449.97	3768384.43	385.90	1.50	0.01370	68.64		31.93	3.33
	L0048945	441381.33	3768384.58	389.49	1.50	0.01370	68.64		31.93	3.33
	L0048946	441312.69	3768384.73	393.09	1.50	0.01370	68.64		31.93	3.33
	L0048947	441244.05	3768384.88	396.69	1.50	0.01370	68.64		31.93	3.33
	L0048948	441175.41	3768385.03	400.28	1.50	0.01370	68.64		31.93	3.33
	L0048949	441106.77	3768385.18	403.88	1.50	0.01370	68.64		31.93	3.33
	L0048950	441038.13	3768385.33	407.48	1.50	0.01370	68.64		31.93	3.33
	L0048951	440969.49	3768385.47	411.07	1.50	0.01370	68.64		31.93	3.33
	L0048952	440900.85	3768385.62	414.67	1.50	0.01370	68.64		31.93	3.33
	L0048953	440832.21	3768385.77	418.27	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RSI	L0048954	440763.57	3768385.92	421.86	1.50	0.01370	68.64		31.93	3.33
	L0048955	440694.93	3768386.07	425.46	1.50	0.01370	68.64		31.93	3.33
	L0048956	440626.29	3768386.22	429.06	1.50	0.01370	68.64		31.93	3.33
	L0048957	440557.65	3768386.37	432.65	1.50	0.01370	68.64		31.93	3.33
	L0048958	440489.01	3768386.51	436.25	1.50	0.01370	68.64		31.93	3.33
	L0048959	440420.37	3768386.66	439.85	1.50	0.01370	68.64		31.93	3.33
	L0048960	440351.73	3768386.81	443.44	1.50	0.01370	68.64		31.93	3.33
	L0048961	440283.09	3768386.96	447.04	1.50	0.01370	68.64		31.93	3.33
	L0048962	440214.45	3768387.11	450.64	1.50	0.01370	68.64		31.93	3.33
	L0048963	440145.81	3768387.26	454.23	1.50	0.01370	68.64		31.93	3.33
	L0048964	440077.17	3768387.41	457.83	1.50	0.01370	68.64		31.93	3.33
	L0048965	440008.53	3768387.55	461.43	1.50	0.01370	68.64		31.93	3.33
	L0048966	439939.89	3768387.70	465.02	1.50	0.01370	68.64		31.93	3.33
	L0048967	439871.25	3768387.85	468.62	1.50	0.01370	68.64		31.93	3.33
	L0048968	439802.61	3768388.00	472.22	1.50	0.01370	68.64		31.93	3.33
	L0048969	439733.97	3768388.15	475.81	1.50	0.01370	68.64		31.93	3.33
	L0048970	439665.33	3768388.30	479.41	1.50	0.01370	68.64		31.93	3.33
	L0048971	439596.69	3768388.44	483.01	1.50	0.01370	68.64		31.93	3.33
	L0048972	439528.05	3768388.59	486.60	1.50	0.01370	68.64		31.93	3.33
	L0048973	439459.41	3768388.74	490.20	1.50	0.01370	68.64		31.93	3.33
	L0048974	439390.77	3768388.89	493.80	1.50	0.01370	68.64		31.93	3.33
	L0048975	439322.13	3768389.04	497.39	1.50	0.01370	68.64		31.93	3.33
	L0048976	439253.49	3768389.19	500.99	1.50	0.01370	68.64		31.93	3.33
	L0048977	439184.85	3768389.34	504.59	1.50	0.01370	68.64		31.93	3.33
	L0048978	439116.21	3768389.48	508.18	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A08RSI	L0048979	439047.57	3768389.63	511.78	1.50	0.01370	68.64		31.93	3.33
	L0048980	438978.93	3768389.78	515.38	1.50	0.01370	68.64		31.93	3.33
	L0048981	438910.29	3768389.93	518.97	1.50	0.01370	68.64		31.93	3.33
	L0048982	438841.65	3768390.08	522.57	1.50	0.01370	68.64		31.93	3.33
	L0048983	438773.01	3768390.23	526.17	1.50	0.01370	68.64		31.93	3.33
	L0048984	438704.37	3768390.38	529.76	1.50	0.01370	68.64		31.93	3.33
	L0048985	438635.73	3768390.52	533.36	1.50	0.01370	68.64		31.93	3.33
	L0048986	438567.09	3768390.67	536.96	1.50	0.01370	68.64		31.93	3.33
	L0048987	438498.45	3768390.82	540.55	1.50	0.01370	68.64		31.93	3.33
	L0048988	438429.81	3768390.97	544.15	1.50	0.01370	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LSI	L0048989	445891.55	3768379.70	282.86	1.50	0.01370	68.64		31.93	3.33
	L0048990	445960.19	3768379.88	286.46	1.50	0.01370	68.64		31.93	3.33
	L0048991	446028.83	3768380.06	290.05	1.50	0.01370	68.64		31.93	3.33
	L0048992	446097.47	3768380.24	293.65	1.50	0.01370	68.64		31.93	3.33
	L0048993	446166.11	3768380.42	297.25	1.50	0.01370	68.64		31.93	3.33
	L0048994	446234.75	3768380.61	300.85	1.50	0.01370	68.64		31.93	3.33
	L0048995	446303.39	3768380.79	304.44	1.50	0.01370	68.64		31.93	3.33
	L0048996	446372.03	3768380.97	308.04	1.50	0.01370	68.64		31.93	3.33
	L0048997	446440.67	3768381.15	311.64	1.50	0.01370	68.64		31.93	3.33
	L0048998	446509.31	3768381.33	315.24	1.50	0.01370	68.64		31.93	3.33
	L0048999	446577.95	3768381.51	318.83	1.50	0.01370	68.64		31.93	3.33
	L0049000	446646.59	3768381.70	322.43	1.50	0.01370	68.64		31.93	3.33
	L0049001	446715.23	3768381.88	326.03	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LSI	L0049002	446783.87	3768382.06	329.63	1.50	0.01370	68.64		31.93	3.33
	L0049003	446852.51	3768382.24	333.22	1.50	0.01370	68.64		31.93	3.33
	L0049004	446921.15	3768382.42	336.82	1.50	0.01370	68.64		31.93	3.33
	L0049005	446989.79	3768382.61	340.42	1.50	0.01370	68.64		31.93	3.33
	L0049006	447058.43	3768382.79	344.02	1.50	0.01370	68.64		31.93	3.33
	L0049007	447127.07	3768382.97	347.61	1.50	0.01370	68.64		31.93	3.33
	L0049008	447195.71	3768383.15	351.21	1.50	0.01370	68.64		31.93	3.33
	L0049009	447264.35	3768383.33	354.81	1.50	0.01370	68.64		31.93	3.33
	L0049010	447332.99	3768383.51	358.41	1.50	0.01370	68.64		31.93	3.33
	L0049011	447401.63	3768383.70	362.00	1.50	0.01370	68.64		31.93	3.33
	L0049012	447470.27	3768383.88	365.60	1.50	0.01370	68.64		31.93	3.33
	L0049013	447538.90	3768384.06	369.20	1.50	0.01370	68.64		31.93	3.33
	L0049014	447607.54	3768384.24	372.79	1.50	0.01370	68.64		31.93	3.33
	L0049015	447676.18	3768384.42	376.39	1.50	0.01370	68.64		31.93	3.33
	L0049016	447744.82	3768384.61	379.99	1.50	0.01370	68.64		31.93	3.33
	L0049017	447813.46	3768384.79	383.59	1.50	0.01370	68.64		31.93	3.33
	L0049018	447882.10	3768384.97	387.18	1.50	0.01370	68.64		31.93	3.33
	L0049019	447950.74	3768385.15	390.78	1.50	0.01370	68.64		31.93	3.33
	L0049020	448019.38	3768385.33	394.38	1.50	0.01370	68.64		31.93	3.33
	L0049021	448088.02	3768385.51	397.98	1.50	0.01370	68.64		31.93	3.33
	L0049022	448156.66	3768385.70	401.57	1.50	0.01370	68.64		31.93	3.33
	L0049023	448225.30	3768385.88	405.17	1.50	0.01370	68.64		31.93	3.33
	L0049024	448293.94	3768386.06	408.77	1.50	0.01370	68.64		31.93	3.33
	L0049025	448362.58	3768386.24	412.37	1.50	0.01370	68.64		31.93	3.33
	L0049026	448431.22	3768386.42	415.96	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LSI	L0049027	448499.86	3768386.61	419.56	1.50	0.01370	68.64		31.93	3.33
	L0049028	448568.50	3768386.79	423.16	1.50	0.01370	68.64		31.93	3.33
	L0049029	448637.14	3768386.97	426.76	1.50	0.01370	68.64		31.93	3.33
	L0049030	448705.78	3768387.15	430.35	1.50	0.01370	68.64		31.93	3.33
	L0049031	448774.42	3768387.33	433.95	1.50	0.01370	68.64		31.93	3.33
	L0049032	448843.06	3768387.51	437.55	1.50	0.01370	68.64		31.93	3.33
	L0049033	448911.70	3768387.70	441.15	1.50	0.01370	68.64		31.93	3.33
	L0049034	448980.34	3768387.88	444.74	1.50	0.01370	68.64		31.93	3.33
	L0049035	449048.98	3768388.06	448.34	1.50	0.01370	68.64		31.93	3.33
	L0049036	449117.62	3768388.24	451.94	1.50	0.01370	68.64		31.93	3.33
	L0049037	449186.26	3768388.42	455.54	1.50	0.01370	68.64		31.93	3.33
	L0049038	449254.90	3768388.61	459.13	1.50	0.01370	68.64		31.93	3.33
	L0049039	449323.54	3768388.79	462.73	1.50	0.01370	68.64		31.93	3.33
	L0049040	449392.18	3768388.97	466.33	1.50	0.01370	68.64		31.93	3.33
	L0049041	449460.82	3768389.15	469.93	1.50	0.01370	68.64		31.93	3.33
	L0049042	449529.46	3768389.33	473.52	1.50	0.01370	68.64		31.93	3.33
	L0049043	449598.10	3768389.51	477.12	1.50	0.01370	68.64		31.93	3.33
	L0049044	449666.74	3768389.70	480.72	1.50	0.01370	68.64		31.93	3.33
	L0049045	449735.38	3768389.88	484.32	1.50	0.01370	68.64		31.93	3.33
	L0049046	449804.02	3768390.06	487.91	1.50	0.01370	68.64		31.93	3.33
	L0049047	449872.66	3768390.24	491.51	1.50	0.01370	68.64		31.93	3.33
	L0049048	449941.30	3768390.42	495.11	1.50	0.01370	68.64		31.93	3.33
	L0049049	450009.94	3768390.61	498.71	1.50	0.01370	68.64		31.93	3.33
	L0049050	450078.58	3768390.79	502.30	1.50	0.01370	68.64		31.93	3.33
	L0049051	450147.22	3768390.97	505.90	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26LSI	L0049052	450215.86	3768391.15	509.50	1.50	0.01370	68.64		31.93	3.33
	L0049053	450284.50	3768391.33	513.10	1.50	0.01370	68.64		31.93	3.33
	L0049054	450353.14	3768391.51	516.69	1.50	0.01370	68.64		31.93	3.33
	L0049055	450421.77	3768391.70	520.29	1.50	0.01370	68.64		31.93	3.33
	L0049056	450490.41	3768391.88	523.89	1.50	0.01370	68.64		31.93	3.33
	L0049057	450559.05	3768392.06	527.49	1.50	0.01370	68.64		31.93	3.33
	L0049058	450627.69	3768392.24	531.08	1.50	0.01370	68.64		31.93	3.33
	L0049059	450696.33	3768392.42	534.68	1.50	0.01370	68.64		31.93	3.33
	L0049060	450764.97	3768392.61	538.28	1.50	0.01370	68.64		31.93	3.33
	L0049061	450833.61	3768392.79	541.87	1.50	0.01370	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RSI	L0049062	445886.50	3768592.21	285.06	1.50	0.01370	68.64		31.93	3.33
	L0049063	445955.14	3768592.13	288.66	1.50	0.01370	68.64		31.93	3.33
	L0049064	446023.78	3768592.06	292.25	1.50	0.01370	68.64		31.93	3.33
	L0049065	446092.42	3768591.99	295.85	1.50	0.01370	68.64		31.93	3.33
	L0049066	446161.06	3768591.92	299.45	1.50	0.01370	68.64		31.93	3.33
	L0049067	446229.70	3768591.85	303.05	1.50	0.01370	68.64		31.93	3.33
	L0049068	446298.34	3768591.77	306.64	1.50	0.01370	68.64		31.93	3.33
	L0049069	446366.98	3768591.70	310.24	1.50	0.01370	68.64		31.93	3.33
	L0049070	446435.62	3768591.63	313.84	1.50	0.01370	68.64		31.93	3.33
	L0049071	446504.26	3768591.56	317.44	1.50	0.01370	68.64		31.93	3.33
	L0049072	446572.90	3768591.49	321.03	1.50	0.01370	68.64		31.93	3.33
	L0049073	446641.54	3768591.41	324.63	1.50	0.01370	68.64		31.93	3.33
	L0049074	446710.18	3768591.34	328.23	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RSI	L0049075	446778.82	3768591.27	331.82	1.50	0.01370	68.64		31.93	3.33
	L0049076	446847.46	3768591.20	335.42	1.50	0.01370	68.64		31.93	3.33
	L0049077	446916.10	3768591.13	339.02	1.50	0.01370	68.64		31.93	3.33
	L0049078	446984.74	3768591.05	342.62	1.50	0.01370	68.64		31.93	3.33
	L0049079	447053.38	3768590.98	346.21	1.50	0.01370	68.64		31.93	3.33
	L0049080	447122.02	3768590.91	349.81	1.50	0.01370	68.64		31.93	3.33
	L0049081	447190.66	3768590.84	353.41	1.50	0.01370	68.64		31.93	3.33
	L0049082	447259.30	3768590.77	357.01	1.50	0.01370	68.64		31.93	3.33
	L0049083	447327.94	3768590.69	360.60	1.50	0.01370	68.64		31.93	3.33
	L0049084	447396.58	3768590.62	364.20	1.50	0.01370	68.64		31.93	3.33
	L0049085	447465.22	3768590.55	367.80	1.50	0.01370	68.64		31.93	3.33
	L0049086	447533.86	3768590.48	371.40	1.50	0.01370	68.64		31.93	3.33
	L0049087	447602.50	3768590.41	374.99	1.50	0.01370	68.64		31.93	3.33
	L0049088	447671.14	3768590.33	378.59	1.50	0.01370	68.64		31.93	3.33
	L0049089	447739.78	3768590.26	382.19	1.50	0.01370	68.64		31.93	3.33
	L0049090	447808.42	3768590.19	385.79	1.50	0.01370	68.64		31.93	3.33
	L0049091	447877.06	3768590.12	389.38	1.50	0.01370	68.64		31.93	3.33
	L0049092	447945.70	3768590.05	392.98	1.50	0.01370	68.64		31.93	3.33
	L0049093	448014.34	3768589.97	396.58	1.50	0.01370	68.64		31.93	3.33
	L0049094	448082.98	3768589.90	400.17	1.50	0.01370	68.64		31.93	3.33
	L0049095	448151.62	3768589.83	403.77	1.50	0.01370	68.64		31.93	3.33
	L0049096	448220.26	3768589.76	407.37	1.50	0.01370	68.64		31.93	3.33
	L0049097	448288.90	3768589.68	410.97	1.50	0.01370	68.64		31.93	3.33
	L0049098	448357.54	3768589.61	414.56	1.50	0.01370	68.64		31.93	3.33
	L0049099	448426.18	3768589.54	418.16	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RSI	L0049100	448494.82	3768589.47	421.76	1.50	0.01370	68.64		31.93	3.33
	L0049101	448563.46	3768589.40	425.36	1.50	0.01370	68.64		31.93	3.33
	L0049102	448632.10	3768589.32	428.95	1.50	0.01370	68.64		31.93	3.33
	L0049103	448700.74	3768589.25	432.55	1.50	0.01370	68.64		31.93	3.33
	L0049104	448769.38	3768589.18	436.15	1.50	0.01370	68.64		31.93	3.33
	L0049105	448838.02	3768589.11	439.75	1.50	0.01370	68.64		31.93	3.33
	L0049106	448906.66	3768589.04	443.34	1.50	0.01370	68.64		31.93	3.33
	L0049107	448975.30	3768588.96	446.94	1.50	0.01370	68.64		31.93	3.33
	L0049108	449043.94	3768588.89	450.54	1.50	0.01370	68.64		31.93	3.33
	L0049109	449112.58	3768588.82	454.14	1.50	0.01370	68.64		31.93	3.33
	L0049110	449181.22	3768588.75	457.73	1.50	0.01370	68.64		31.93	3.33
	L0049111	449249.86	3768588.68	461.33	1.50	0.01370	68.64		31.93	3.33
	L0049112	449318.50	3768588.60	464.93	1.50	0.01370	68.64		31.93	3.33
	L0049113	449387.14	3768588.53	468.52	1.50	0.01370	68.64		31.93	3.33
	L0049114	449455.78	3768588.46	472.12	1.50	0.01370	68.64		31.93	3.33
	L0049115	449524.42	3768588.39	475.72	1.50	0.01370	68.64		31.93	3.33
	L0049116	449593.06	3768588.32	479.32	1.50	0.01370	68.64		31.93	3.33
	L0049117	449661.70	3768588.24	482.91	1.50	0.01370	68.64		31.93	3.33
	L0049118	449730.34	3768588.17	486.51	1.50	0.01370	68.64		31.93	3.33
	L0049119	449798.98	3768588.10	490.11	1.50	0.01370	68.64		31.93	3.33
	L0049120	449867.62	3768588.03	493.71	1.50	0.01370	68.64		31.93	3.33
	L0049121	449936.26	3768587.96	497.30	1.50	0.01370	68.64		31.93	3.33
	L0049122	450004.90	3768587.88	500.90	1.50	0.01370	68.64		31.93	3.33
	L0049123	450073.54	3768587.81	504.50	1.50	0.01370	68.64		31.93	3.33
	L0049124	450142.18	3768587.74	508.10	1.50	0.01370	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
A26RSI	L0049125	450210.82	3768587.67	511.69	1.50	0.01370	68.64		31.93	3.33
	L0049126	450279.46	3768587.60	515.29	1.50	0.01370	68.64		31.93	3.33
	L0049127	450348.10	3768587.52	518.89	1.50	0.01370	68.64		31.93	3.33
	L0049128	450416.74	3768587.45	522.49	1.50	0.01370	68.64		31.93	3.33
	L0049129	450485.38	3768587.38	526.08	1.50	0.01370	68.64		31.93	3.33
	L0049130	450554.02	3768587.31	529.68	1.50	0.01370	68.64		31.93	3.33
	L0049131	450622.66	3768587.23	533.28	1.50	0.01370	68.64		31.93	3.33
	L0049132	450691.30	3768587.16	536.88	1.50	0.01370	68.64		31.93	3.33
	L0049133	450759.94	3768587.09	540.47	1.50	0.01370	68.64		31.93	3.33
	L0049134	450828.58	3768587.02	544.07	1.50	0.01370	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LRC	L0049135	444687.00	3768591.26	287.28	1.50	0.01220	68.64		31.93	3.33
	L0049136	444755.64	3768591.44	296.16	1.50	0.01220	68.64		31.93	3.33
	L0049137	444824.28	3768591.62	305.04	1.50	0.01220	68.64		31.93	3.33
	L0049138	444892.92	3768591.80	313.92	1.50	0.01220	68.64		31.93	3.33
	L0049139	444961.56	3768591.98	322.79	1.50	0.01220	68.64		31.93	3.33
	L0049140	445030.20	3768592.16	331.67	1.50	0.01220	68.64		31.93	3.33
	L0049141	445098.84	3768592.34	340.55	1.50	0.01220	68.64		31.93	3.33
	L0049142	445167.48	3768592.52	349.43	1.50	0.01220	68.64		31.93	3.33
	L0049143	445236.12	3768592.70	358.31	1.50	0.01220	68.64		31.93	3.33
	L0049144	445304.76	3768592.88	367.19	1.50	0.01220	68.64		31.93	3.33
	L0049145	445373.40	3768593.05	376.07	1.50	0.01220	68.64		31.93	3.33
	L0049146	445442.04	3768593.23	384.95	1.50	0.01220	68.64		31.93	3.33
	L0049147	445510.68	3768593.41	393.82	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LRC	L0049148	445579.32	3768593.59	402.70	1.50	0.01220	68.64		31.93	3.33
	L0049149	445647.96	3768593.77	411.58	1.50	0.01220	68.64		31.93	3.33
	L0049150	445716.60	3768593.95	420.46	1.50	0.01220	68.64		31.93	3.33
	L0049151	445785.24	3768594.13	429.34	1.50	0.01220	68.64		31.93	3.33
	L0049152	445853.88	3768594.31	438.22	1.50	0.01220	68.64		31.93	3.33
	L0049153	445922.52	3768594.49	447.10	1.50	0.01220	68.64		31.93	3.33
	L0049154	445991.16	3768594.66	455.97	1.50	0.01220	68.64		31.93	3.33
	L0049155	446059.80	3768594.84	464.85	1.50	0.01220	68.64		31.93	3.33
	L0049156	446128.44	3768595.02	473.73	1.50	0.01220	68.64		31.93	3.33
	L0049157	446197.08	3768595.20	482.61	1.50	0.01220	68.64		31.93	3.33
	L0049158	446265.72	3768595.38	491.49	1.50	0.01220	68.64		31.93	3.33
	L0049159	446333.19	3768587.78	500.37	1.50	0.01220	68.64		31.93	3.33
	L0049160	446398.75	3768567.44	509.25	1.50	0.01220	68.64		31.93	3.33
	L0049161	446464.31	3768547.11	518.13	1.50	0.01220	68.64		31.93	3.33
	L0049162	446529.87	3768526.77	527.00	1.50	0.01220	68.64		31.93	3.33
	L0049163	446594.78	3768505.08	535.88	1.50	0.01220	68.64		31.93	3.33
	L0049164	446651.96	3768467.11	544.76	1.50	0.01220	68.64		31.93	3.33
	L0049165	446709.14	3768429.14	553.64	1.50	0.01220	68.64		31.93	3.33
	L0049166	446766.32	3768391.16	562.52	1.50	0.01220	68.64		31.93	3.33
	L0049167	446823.50	3768353.19	571.40	1.50	0.01220	68.64		31.93	3.33
	L0049168	446880.68	3768315.22	580.28	1.50	0.01220	68.64		31.93	3.33
	L0049169	446937.86	3768277.24	589.16	1.50	0.01220	68.64		31.93	3.33
	L0049170	446995.03	3768239.27	598.04	1.50	0.01220	68.64		31.93	3.33
	L0049171	447051.32	3768200.33	606.92	1.50	0.01220	68.64		31.93	3.33
	L0049172	447093.41	3768146.11	615.80	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LRC	L0049173	447135.51	3768091.89	624.68	1.50	0.01220	68.64		31.93	3.33
	L0049174	447177.60	3768037.68	633.56	1.50	0.01220	68.64		31.93	3.33
	L0049175	447219.69	3767983.46	642.44	1.50	0.01220	68.64		31.93	3.33
	L0049176	447261.78	3767929.24	651.31	1.50	0.01220	68.64		31.93	3.33
	L0049177	447303.87	3767875.02	660.19	1.50	0.01220	68.64		31.93	3.33
	L0049178	447345.96	3767820.80	669.07	1.50	0.01220	68.64		31.93	3.33
	L0049179	447388.05	3767766.58	677.95	1.50	0.01220	68.64		31.93	3.33
	L0049180	447430.15	3767712.36	686.83	1.50	0.01220	68.64		31.93	3.33
	L0049181	447469.38	3767656.34	695.70	1.50	0.01220	68.64		31.93	3.33
	L0049182	447499.97	3767594.90	704.58	1.50	0.01220	68.64		31.93	3.33
	L0049183	447530.55	3767533.45	713.45	1.50	0.01220	68.64		31.93	3.33
	L0049184	447561.14	3767472.00	722.32	1.50	0.01220	68.64		31.93	3.33
	L0049185	447591.73	3767410.55	731.20	1.50	0.01220	68.64		31.93	3.33
	L0049186	447622.31	3767349.10	740.07	1.50	0.01220	68.64		31.93	3.33
	L0049187	447652.90	3767287.65	748.95	1.50	0.01220	68.64		31.93	3.33
	L0049188	447683.49	3767226.20	757.82	1.50	0.01220	68.64		31.93	3.33
	L0049189	447714.07	3767164.76	766.69	1.50	0.01220	68.64		31.93	3.33
	L0049190	447744.66	3767103.31	775.57	1.50	0.01220	68.64		31.93	3.33
	L0049191	447775.25	3767041.86	784.44	1.50	0.01220	68.64		31.93	3.33
	L0049192	447805.83	3766980.41	793.32	1.50	0.01220	68.64		31.93	3.33
	L0049193	447836.42	3766918.96	802.19	1.50	0.01220	68.64		31.93	3.33
	L0049194	447858.15	3766854.41	811.07	1.50	0.01220	68.64		31.93	3.33
	L0049195	447872.58	3766787.31	819.96	1.50	0.01220	68.64		31.93	3.33
	L0049196	447887.02	3766720.20	828.85	1.50	0.01220	68.64		31.93	3.33
	L0049197	447901.45	3766653.10	837.74	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LRC	L0049198	447915.88	3766585.99	846.63	1.50	0.01220	68.64		31.93	3.33
	L0049199	447930.31	3766518.88	855.51	1.50	0.01220	68.64		31.93	3.33
	L0049200	447944.74	3766451.78	864.40	1.50	0.01220	68.64		31.93	3.33
	L0049201	447959.17	3766384.67	873.29	1.50	0.01220	68.64		31.93	3.33
	L0049202	447963.46	3766316.31	882.17	1.50	0.01220	68.64		31.93	3.33
	L0049203	447965.83	3766247.71	891.04	1.50	0.01220	68.64		31.93	3.33
	L0049204	447968.20	3766179.11	899.92	1.50	0.01220	68.64		31.93	3.33
	L0049205	447970.57	3766110.51	908.79	1.50	0.01220	68.64		31.93	3.33
	L0049206	447972.95	3766041.92	917.67	1.50	0.01220	68.64		31.93	3.33
	L0049207	447975.32	3765973.32	926.54	1.50	0.01220	68.64		31.93	3.33
	L0049208	447977.69	3765904.72	935.42	1.50	0.01220	68.64		31.93	3.33
	L0049209	447980.06	3765836.12	944.29	1.50	0.01220	68.64		31.93	3.33
	L0049210	447982.43	3765767.52	953.17	1.50	0.01220	68.64		31.93	3.33
	L0049211	447984.81	3765698.92	962.04	1.50	0.01220	68.64		31.93	3.33
	L0049212	447987.18	3765630.32	970.92	1.50	0.01220	68.64		31.93	3.33
	L0049213	447989.55	3765561.72	979.79	1.50	0.01220	68.64		31.93	3.33
	L0049214	447991.92	3765493.12	988.67	1.50	0.01220	68.64		31.93	3.33
	L0049215	447994.29	3765424.52	997.54	1.50	0.01220	68.64		31.93	3.33
	L0049216	447996.67	3765355.93	1006.42	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LSO	L0049217	444686.76	3768591.53	287.28	1.50	0.01220	68.64		31.93	3.33
	L0049218	444755.40	3768591.49	296.16	1.50	0.01220	68.64		31.93	3.33
	L0049219	444824.04	3768591.45	305.03	1.50	0.01220	68.64		31.93	3.33
	L0049220	444892.68	3768591.41	313.91	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LSO	L0049221	444961.32	3768591.37	322.79	1.50	0.01220	68.64		31.93	3.33
	L0049222	445029.96	3768591.33	331.67	1.50	0.01220	68.64		31.93	3.33
	L0049223	445098.60	3768591.29	340.55	1.50	0.01220	68.64		31.93	3.33
	L0049224	445167.24	3768591.25	349.42	1.50	0.01220	68.64		31.93	3.33
	L0049225	445235.88	3768591.21	358.30	1.50	0.01220	68.64		31.93	3.33
	L0049226	445304.52	3768591.17	367.18	1.50	0.01220	68.64		31.93	3.33
	L0049227	445373.16	3768591.13	376.06	1.50	0.01220	68.64		31.93	3.33
	L0049228	445441.80	3768591.09	384.93	1.50	0.01220	68.64		31.93	3.33
	L0049229	445510.44	3768591.05	393.81	1.50	0.01220	68.64		31.93	3.33
	L0049230	445579.08	3768591.01	402.69	1.50	0.01220	68.64		31.93	3.33
	L0049231	445647.72	3768590.97	411.57	1.50	0.01220	68.64		31.93	3.33
	L0049232	445716.36	3768590.93	420.45	1.50	0.01220	68.64		31.93	3.33
	L0049233	445785.00	3768590.89	429.32	1.50	0.01220	68.64		31.93	3.33
	L0049234	445853.64	3768590.85	438.20	1.50	0.01220	68.64		31.93	3.33
	L0049235	445922.28	3768590.81	447.08	1.50	0.01220	68.64		31.93	3.33
	L0049236	445990.92	3768590.77	455.96	1.50	0.01220	68.64		31.93	3.33
	L0049237	446059.56	3768590.73	464.84	1.50	0.01220	68.64		31.93	3.33
	L0049238	446128.20	3768590.69	473.71	1.50	0.01220	68.64		31.93	3.33
	L0049239	446196.84	3768590.65	482.59	1.50	0.01220	68.64		31.93	3.33
	L0049240	446265.48	3768590.61	491.47	1.50	0.01220	68.64		31.93	3.33
	L0049241	446334.12	3768590.57	500.35	1.50	0.01220	68.64		31.93	3.33
	L0049242	446402.76	3768590.53	509.22	1.50	0.01220	68.64		31.93	3.33
	L0049243	446471.40	3768590.49	518.10	1.50	0.01220	68.64		31.93	3.33
	L0049244	446540.04	3768590.45	526.98	1.50	0.01220	68.64		31.93	3.33
	L0049245	446608.68	3768590.41	535.86	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LSO	L0049246	446677.32	3768590.37	544.74	1.50	0.01220	68.64		31.93	3.33
	L0049247	446745.96	3768590.33	553.61	1.50	0.01220	68.64		31.93	3.33
	L0049248	446814.60	3768590.29	562.49	1.50	0.01220	68.64		31.93	3.33
	L0049249	446883.24	3768590.25	571.37	1.50	0.01220	68.64		31.93	3.33
	L0049250	446951.88	3768590.21	580.25	1.50	0.01220	68.64		31.93	3.33
	L0049251	447020.52	3768590.17	589.12	1.50	0.01220	68.64		31.93	3.33
	L0049252	447089.16	3768590.13	598.00	1.50	0.01220	68.64		31.93	3.33
	L0049253	447157.80	3768590.09	606.88	1.50	0.01220	68.64		31.93	3.33
	L0049254	447226.44	3768590.05	615.76	1.50	0.01220	68.64		31.93	3.33
	L0049255	447295.08	3768590.01	624.64	1.50	0.01220	68.64		31.93	3.33
	L0049256	447363.72	3768589.97	633.51	1.50	0.01220	68.64		31.93	3.33
	L0049257	447432.36	3768589.93	642.39	1.50	0.01220	68.64		31.93	3.33
	L0049258	447501.00	3768589.89	651.27	1.50	0.01220	68.64		31.93	3.33
	L0049259	447569.64	3768589.85	660.15	1.50	0.01220	68.64		31.93	3.33
	L0049260	447638.28	3768589.81	669.03	1.50	0.01220	68.64		31.93	3.33
	L0049261	447706.92	3768589.77	677.90	1.50	0.01220	68.64		31.93	3.33
	L0049262	447775.56	3768589.73	686.78	1.50	0.01220	68.64		31.93	3.33
	L0049263	447844.20	3768589.69	695.66	1.50	0.01220	68.64		31.93	3.33
	L0049264	447912.84	3768589.65	704.54	1.50	0.01220	68.64		31.93	3.33
	L0049265	447981.48	3768589.61	713.41	1.50	0.01220	68.64		31.93	3.33
	L0049266	448050.12	3768589.57	722.29	1.50	0.01220	68.64		31.93	3.33
	L0049267	448118.76	3768589.53	731.17	1.50	0.01220	68.64		31.93	3.33
	L0049268	448187.40	3768589.49	740.05	1.50	0.01220	68.64		31.93	3.33
	L0049269	448256.04	3768589.45	748.93	1.50	0.01220	68.64		31.93	3.33
	L0049270	448324.68	3768589.41	757.80	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LSO	L0049271	448393.32	3768589.37	766.68	1.50	0.01220	68.64		31.93	3.33
	L0049272	448461.96	3768589.33	775.56	1.50	0.01220	68.64		31.93	3.33
	L0049273	448530.60	3768589.29	784.44	1.50	0.01220	68.64		31.93	3.33
	L0049274	448599.24	3768589.25	793.31	1.50	0.01220	68.64		31.93	3.33
	L0049275	448667.88	3768589.21	802.19	1.50	0.01220	68.64		31.93	3.33
	L0049276	448736.52	3768589.17	811.07	1.50	0.01220	68.64		31.93	3.33
	L0049277	448805.16	3768589.13	819.95	1.50	0.01220	68.64		31.93	3.33
	L0049278	448873.80	3768589.09	828.83	1.50	0.01220	68.64		31.93	3.33
	L0049279	448942.44	3768589.05	837.70	1.50	0.01220	68.64		31.93	3.33
	L0049280	449011.08	3768589.01	846.58	1.50	0.01220	68.64		31.93	3.33
	L0049281	449079.72	3768588.97	855.46	1.50	0.01220	68.64		31.93	3.33
	L0049282	449148.36	3768588.93	864.34	1.50	0.01220	68.64		31.93	3.33
	L0049283	449217.00	3768588.89	873.21	1.50	0.01220	68.64		31.93	3.33
	L0049284	449285.64	3768588.85	882.09	1.50	0.01220	68.64		31.93	3.33
	L0049285	449354.28	3768588.81	890.97	1.50	0.01220	68.64		31.93	3.33
	L0049286	449422.92	3768588.77	899.85	1.50	0.01220	68.64		31.93	3.33
	L0049287	449491.56	3768588.73	908.73	1.50	0.01220	68.64		31.93	3.33
	L0049288	449560.20	3768588.69	917.60	1.50	0.01220	68.64		31.93	3.33
	L0049289	449628.84	3768588.65	926.48	1.50	0.01220	68.64		31.93	3.33
	L0049290	449697.48	3768588.61	935.36	1.50	0.01220	68.64		31.93	3.33
	L0049291	449766.12	3768588.57	944.24	1.50	0.01220	68.64		31.93	3.33
	L0049292	449834.76	3768588.53	953.12	1.50	0.01220	68.64		31.93	3.33
	L0049293	449903.40	3768588.49	961.99	1.50	0.01220	68.64		31.93	3.33
	L0049294	449972.04	3768588.45	970.87	1.50	0.01220	68.64		31.93	3.33
	L0049295	450040.68	3768588.41	979.75	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08LSO	L0049296	450109.32	3768588.37	988.63	1.50	0.01220	68.64		31.93	3.33
	L0049297	450177.96	3768588.33	997.50	1.50	0.01220	68.64		31.93	3.33
	L0049298	450246.60	3768588.29	1006.38	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RRC	L0049299	445285.27	3768378.17	284.80	1.50	0.01220	68.64		31.93	3.33
	L0049300	445353.91	3768378.38	293.68	1.50	0.01220	68.64		31.93	3.33
	L0049301	445422.55	3768378.58	302.56	1.50	0.01220	68.64		31.93	3.33
	L0049302	445491.19	3768378.79	311.44	1.50	0.01220	68.64		31.93	3.33
	L0049303	445559.83	3768378.99	320.32	1.50	0.01220	68.64		31.93	3.33
	L0049304	445628.47	3768379.20	329.20	1.50	0.01220	68.64		31.93	3.33
	L0049305	445697.11	3768379.40	338.08	1.50	0.01220	68.64		31.93	3.33
	L0049306	445765.75	3768379.61	346.96	1.50	0.01220	68.64		31.93	3.33
	L0049307	445834.39	3768379.81	355.84	1.50	0.01220	68.64		31.93	3.33
	L0049308	445903.03	3768380.02	364.72	1.50	0.01220	68.64		31.93	3.33
	L0049309	445971.67	3768380.22	373.60	1.50	0.01220	68.64		31.93	3.33
	L0049310	446040.31	3768380.43	382.48	1.50	0.01220	68.64		31.93	3.33
	L0049311	446108.95	3768380.63	391.36	1.50	0.01220	68.64		31.93	3.33
	L0049312	446177.59	3768380.84	400.24	1.50	0.01220	68.64		31.93	3.33
	L0049313	446246.23	3768381.04	409.13	1.50	0.01220	68.64		31.93	3.33
	L0049314	446314.87	3768381.25	418.01	1.50	0.01220	68.64		31.93	3.33
	L0049315	446383.51	3768381.45	426.89	1.50	0.01220	68.64		31.93	3.33
	L0049316	446452.15	3768381.66	435.77	1.50	0.01220	68.64		31.93	3.33
	L0049317	446520.78	3768381.86	444.65	1.50	0.01220	68.64		31.93	3.33
	L0049318	446589.42	3768382.07	453.53	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RRC	L0049319	446658.06	3768382.27	462.41	1.50	0.01220	68.64		31.93	3.33
	L0049320	446726.70	3768382.48	471.29	1.50	0.01220	68.64		31.93	3.33
	L0049321	446795.34	3768382.68	480.17	1.50	0.01220	68.64		31.93	3.33
	L0049322	446860.84	3768363.05	489.03	1.50	0.01220	68.64		31.93	3.33
	L0049323	446926.05	3768341.63	497.90	1.50	0.01220	68.64		31.93	3.33
	L0049324	446991.26	3768320.21	506.76	1.50	0.01220	68.64		31.93	3.33
	L0049325	447056.47	3768298.79	515.63	1.50	0.01220	68.64		31.93	3.33
	L0049326	447120.51	3768274.75	524.50	1.50	0.01220	68.64		31.93	3.33
	L0049327	447179.94	3768240.39	533.37	1.50	0.01220	68.64		31.93	3.33
	L0049328	447239.36	3768206.03	542.24	1.50	0.01220	68.64		31.93	3.33
	L0049329	447298.78	3768171.68	551.12	1.50	0.01220	68.64		31.93	3.33
	L0049330	447358.21	3768137.32	559.99	1.50	0.01220	68.64		31.93	3.33
	L0049331	447417.63	3768102.96	568.87	1.50	0.01220	68.64		31.93	3.33
	L0049332	447477.05	3768068.61	577.74	1.50	0.01220	68.64		31.93	3.33
	L0049333	447536.47	3768034.25	586.62	1.50	0.01220	68.64		31.93	3.33
	L0049334	447595.90	3767999.89	595.49	1.50	0.01220	68.64		31.93	3.33
	L0049335	447655.32	3767965.54	604.37	1.50	0.01220	68.64		31.93	3.33
	L0049336	447704.08	3767917.59	613.25	1.50	0.01220	68.64		31.93	3.33
	L0049337	447751.59	3767868.05	622.12	1.50	0.01220	68.64		31.93	3.33
	L0049338	447799.10	3767818.51	631.00	1.50	0.01220	68.64		31.93	3.33
	L0049339	447846.61	3767768.97	639.88	1.50	0.01220	68.64		31.93	3.33
	L0049340	447894.12	3767719.43	648.76	1.50	0.01220	68.64		31.93	3.33
	L0049341	447941.63	3767669.89	657.64	1.50	0.01220	68.64		31.93	3.33
	L0049342	447989.14	3767620.35	666.52	1.50	0.01220	68.64		31.93	3.33
	L0049343	448036.65	3767570.81	675.40	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RRC	L0049344	448084.16	3767521.27	684.28	1.50	0.01220	68.64		31.93	3.33
	L0049345	448131.68	3767471.73	693.16	1.50	0.01220	68.64		31.93	3.33
	L0049346	448179.19	3767422.19	702.04	1.50	0.01220	68.64		31.93	3.33
	L0049347	448226.70	3767372.65	710.92	1.50	0.01220	68.64		31.93	3.33
	L0049348	448274.21	3767323.11	719.80	1.50	0.01220	68.64		31.93	3.33
	L0049349	448321.72	3767273.57	728.68	1.50	0.01220	68.64		31.93	3.33
	L0049350	448369.23	3767224.03	737.56	1.50	0.01220	68.64		31.93	3.33
	L0049351	448416.74	3767174.49	746.43	1.50	0.01220	68.64		31.93	3.33
	L0049352	448464.25	3767124.95	755.31	1.50	0.01220	68.64		31.93	3.33
	L0049353	448511.76	3767075.41	764.19	1.50	0.01220	68.64		31.93	3.33
	L0049354	448552.44	3767020.86	773.07	1.50	0.01220	68.64		31.93	3.33
	L0049355	448585.41	3766960.66	781.96	1.50	0.01220	68.64		31.93	3.33
	L0049356	448618.38	3766900.46	790.84	1.50	0.01220	68.64		31.93	3.33
	L0049357	448651.36	3766840.26	799.73	1.50	0.01220	68.64		31.93	3.33
	L0049358	448684.33	3766780.06	808.61	1.50	0.01220	68.64		31.93	3.33
	L0049359	448717.30	3766719.85	817.49	1.50	0.01220	68.64		31.93	3.33
	L0049360	448750.28	3766659.65	826.38	1.50	0.01220	68.64		31.93	3.33
	L0049361	448783.25	3766599.45	835.26	1.50	0.01220	68.64		31.93	3.33
	L0049362	448816.22	3766539.25	844.15	1.50	0.01220	68.64		31.93	3.33
	L0049363	448849.20	3766479.05	853.03	1.50	0.01220	68.64		31.93	3.33
	L0049364	448882.17	3766418.85	861.91	1.50	0.01220	68.64		31.93	3.33
	L0049365	448915.15	3766358.65	870.80	1.50	0.01220	68.64		31.93	3.33
	L0049366	448948.12	3766298.45	879.68	1.50	0.01220	68.64		31.93	3.33
	L0049367	448981.09	3766238.24	888.57	1.50	0.01220	68.64		31.93	3.33
	L0049368	448990.90	3766171.07	897.44	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D08RRC	L0049369	448996.61	3766102.67	906.32	1.50	0.01220	68.64		31.93	3.33
	L0049370	449002.32	3766034.27	915.20	1.50	0.01220	68.64		31.93	3.33
	L0049371	449008.03	3765965.87	924.08	1.50	0.01220	68.64		31.93	3.33
	L0049372	449013.74	3765897.47	932.95	1.50	0.01220	68.64		31.93	3.33
	L0049373	449019.45	3765829.06	941.83	1.50	0.01220	68.64		31.93	3.33
	L0049374	449025.16	3765760.66	950.71	1.50	0.01220	68.64		31.93	3.33
	L0049375	449030.87	3765692.26	959.58	1.50	0.01220	68.64		31.93	3.33
	L0049376	449036.58	3765623.86	968.46	1.50	0.01220	68.64		31.93	3.33
	L0049377	449042.29	3765555.46	977.34	1.50	0.01220	68.64		31.93	3.33
	L0049378	449048.00	3765487.05	986.22	1.50	0.01220	68.64		31.93	3.33
	L0049379	449053.71	3765418.65	995.09	1.50	0.01220	68.64		31.93	3.33
	L0049380	449059.42	3765350.25	1003.97	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LLC	L0049381	443985.13	3768378.65	285.62	1.50	0.01205	68.32		31.78	3.33
	L0049382	443916.81	3768378.98	294.45	1.50	0.01205	68.32		31.78	3.33
	L0049383	443848.49	3768379.31	303.29	1.50	0.01205	68.32		31.78	3.33
	L0049384	443780.17	3768379.64	312.13	1.50	0.01205	68.32		31.78	3.33
	L0049385	443711.85	3768379.97	320.96	1.50	0.01205	68.32		31.78	3.33
	L0049386	443643.53	3768380.30	329.80	1.50	0.01205	68.32		31.78	3.33
	L0049387	443575.21	3768380.63	338.64	1.50	0.01205	68.32		31.78	3.33
	L0049388	443506.89	3768380.96	347.47	1.50	0.01205	68.32		31.78	3.33
	L0049389	443438.57	3768381.29	356.31	1.50	0.01205	68.32		31.78	3.33
	L0049390	443370.25	3768381.62	365.14	1.50	0.01205	68.32		31.78	3.33
	L0049391	443301.93	3768381.95	373.98	1.50	0.01205	68.32		31.78	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LLC	L0049392	443233.62	3768382.28	382.82	1.50	0.01205	68.32		31.78	3.33
	L0049393	443165.30	3768382.61	391.65	1.50	0.01205	68.32		31.78	3.33
	L0049394	443096.98	3768382.94	400.49	1.50	0.01205	68.32		31.78	3.33
	L0049395	443028.66	3768383.27	409.33	1.50	0.01205	68.32		31.78	3.33
	L0049396	442960.34	3768383.60	418.16	1.50	0.01205	68.32		31.78	3.33
	L0049397	442892.02	3768383.93	427.00	1.50	0.01205	68.32		31.78	3.33
	L0049398	442823.70	3768384.26	435.83	1.50	0.01205	68.32		31.78	3.33
	L0049399	442755.38	3768384.59	444.67	1.50	0.01205	68.32		31.78	3.33
	L0049400	442687.06	3768384.92	453.51	1.50	0.01205	68.32		31.78	3.33
	L0049401	442618.74	3768385.25	462.34	1.50	0.01205	68.32		31.78	3.33
	L0049402	442550.42	3768385.58	471.18	1.50	0.01205	68.32		31.78	3.33
	L0049403	442482.10	3768385.91	480.01	1.50	0.01205	68.32		31.78	3.33
	L0049404	442413.78	3768386.24	488.85	1.50	0.01205	68.32		31.78	3.33
	L0049405	442345.47	3768386.57	497.69	1.50	0.01205	68.32		31.78	3.33
	L0049406	442277.15	3768386.90	506.52	1.50	0.01205	68.32		31.78	3.33
	L0049407	442208.83	3768387.23	515.36	1.50	0.01205	68.32		31.78	3.33
	L0049408	442140.51	3768387.56	524.20	1.50	0.01205	68.32		31.78	3.33
	L0049409	442072.19	3768387.89	533.03	1.50	0.01205	68.32		31.78	3.33
	L0049410	442003.87	3768388.22	541.87	1.50	0.01205	68.32		31.78	3.33
	L0049411	441935.55	3768388.55	550.70	1.50	0.01205	68.32		31.78	3.33
	L0049412	441867.23	3768388.88	559.54	1.50	0.01205	68.32		31.78	3.33
	L0049413	441798.91	3768389.21	568.38	1.50	0.01205	68.32		31.78	3.33
	L0049414	441730.59	3768389.54	577.21	1.50	0.01205	68.32		31.78	3.33
	L0049415	441662.64	3768385.49	586.05	1.50	0.01205	68.32		31.78	3.33
	L0049416	441595.30	3768373.92	594.90	1.50	0.01205	68.32		31.78	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LLC	L0049417	441527.97	3768362.34	603.74	1.50	0.01205	68.32		31.78	3.33
	L0049418	441460.64	3768350.77	612.59	1.50	0.01205	68.32		31.78	3.33
	L0049419	441393.31	3768339.20	621.43	1.50	0.01205	68.32		31.78	3.33
	L0049420	441325.97	3768327.63	630.28	1.50	0.01205	68.32		31.78	3.33
	L0049421	441258.64	3768316.05	639.12	1.50	0.01205	68.32		31.78	3.33
	L0049422	441194.89	3768294.79	647.96	1.50	0.01205	68.32		31.78	3.33
	L0049423	441136.18	3768259.84	656.79	1.50	0.01205	68.32		31.78	3.33
	L0049424	441077.47	3768224.90	665.62	1.50	0.01205	68.32		31.78	3.33
	L0049425	441018.76	3768189.95	674.45	1.50	0.01205	68.32		31.78	3.33
	L0049426	440960.06	3768155.01	683.27	1.50	0.01205	68.32		31.78	3.33
	L0049427	440902.91	3768117.98	692.10	1.50	0.01205	68.32		31.78	3.33
	L0049428	440852.78	3768071.56	700.94	1.50	0.01205	68.32		31.78	3.33
	L0049429	440802.65	3768025.15	709.77	1.50	0.01205	68.32		31.78	3.33
	L0049430	440752.52	3767978.73	718.60	1.50	0.01205	68.32		31.78	3.33
	L0049431	440702.38	3767932.31	727.43	1.50	0.01205	68.32		31.78	3.33
	L0049432	440652.25	3767885.90	736.27	1.50	0.01205	68.32		31.78	3.33
	L0049433	440609.25	3767834.70	745.10	1.50	0.01205	68.32		31.78	3.33
	L0049434	440585.36	3767770.69	753.95	1.50	0.01205	68.32		31.78	3.33
	L0049435	440561.46	3767706.69	762.79	1.50	0.01205	68.32		31.78	3.33
	L0049436	440537.57	3767642.68	771.63	1.50	0.01205	68.32		31.78	3.33
	L0049437	440513.67	3767578.68	780.48	1.50	0.01205	68.32		31.78	3.33
	L0049438	440489.78	3767514.67	789.32	1.50	0.01205	68.32		31.78	3.33
	L0049439	440465.88	3767450.67	798.16	1.50	0.01205	68.32		31.78	3.33
	L0049440	440441.99	3767386.66	807.00	1.50	0.01205	68.32		31.78	3.33
	L0049441	440418.09	3767322.66	815.85	1.50	0.01205	68.32		31.78	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LLC	L0049442	440411.79	3767255.64	824.69	1.50	0.01205	68.32		31.78	3.33
	L0049443	440413.04	3767187.33	833.53	1.50	0.01205	68.32		31.78	3.33
	L0049444	440414.28	3767119.02	842.36	1.50	0.01205	68.32		31.78	3.33
	L0049445	440415.52	3767050.72	851.20	1.50	0.01205	68.32		31.78	3.33
	L0049446	440416.76	3766982.41	860.04	1.50	0.01205	68.32		31.78	3.33
	L0049447	440418.01	3766914.10	868.88	1.50	0.01205	68.32		31.78	3.33
	L0049448	440419.25	3766845.79	877.72	1.50	0.01205	68.32		31.78	3.33
	L0049449	440420.49	3766777.48	886.55	1.50	0.01205	68.32		31.78	3.33
	L0049450	440421.74	3766709.17	895.39	1.50	0.01205	68.32		31.78	3.33
	L0049451	440422.98	3766640.86	904.23	1.50	0.01205	68.32		31.78	3.33
	L0049452	440424.22	3766572.55	913.07	1.50	0.01205	68.32		31.78	3.33
	L0049453	440425.46	3766504.25	921.91	1.50	0.01205	68.32		31.78	3.33
	L0049454	440426.71	3766435.94	930.75	1.50	0.01205	68.32		31.78	3.33
	L0049455	440427.95	3766367.63	939.58	1.50	0.01205	68.32		31.78	3.33
	L0049456	440429.19	3766299.32	948.42	1.50	0.01205	68.32		31.78	3.33
	L0049457	440430.44	3766231.01	957.26	1.50	0.01205	68.32		31.78	3.33
	L0049458	440431.68	3766162.70	966.10	1.50	0.01205	68.32		31.78	3.33
	L0049459	440438.53	3766095.02	974.93	1.50	0.01205	68.32		31.78	3.33
	L0049460	440452.37	3766028.11	983.77	1.50	0.01205	68.32		31.78	3.33
	L0049461	440466.20	3765961.21	992.60	1.50	0.01205	68.32		31.78	3.33
	L0049462	440480.04	3765894.31	1001.43	1.50	0.01205	68.32		31.78	3.33
	L0049463	440493.88	3765827.40	1010.27	1.50	0.01205	68.32		31.78	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LRT	L0049464	443985.30	3768379.30	285.64	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LRT	L0049465	443916.66	3768379.76	294.52	1.50	0.01220	68.64		31.93	3.33
	L0049466	443848.02	3768380.22	303.40	1.50	0.01220	68.64		31.93	3.33
	L0049467	443779.38	3768380.68	312.27	1.50	0.01220	68.64		31.93	3.33
	L0049468	443710.74	3768381.14	321.15	1.50	0.01220	68.64		31.93	3.33
	L0049469	443642.10	3768381.60	330.03	1.50	0.01220	68.64		31.93	3.33
	L0049470	443573.47	3768382.06	338.91	1.50	0.01220	68.64		31.93	3.33
	L0049471	443504.83	3768382.52	347.79	1.50	0.01220	68.64		31.93	3.33
	L0049472	443436.19	3768382.98	356.66	1.50	0.01220	68.64		31.93	3.33
	L0049473	443367.55	3768383.44	365.54	1.50	0.01220	68.64		31.93	3.33
	L0049474	443298.91	3768383.90	374.42	1.50	0.01220	68.64		31.93	3.33
	L0049475	443230.27	3768384.36	383.30	1.50	0.01220	68.64		31.93	3.33
	L0049476	443161.64	3768384.82	392.18	1.50	0.01220	68.64		31.93	3.33
	L0049477	443093.00	3768385.28	401.05	1.50	0.01220	68.64		31.93	3.33
	L0049478	443024.36	3768385.74	409.93	1.50	0.01220	68.64		31.93	3.33
	L0049479	442955.72	3768386.20	418.81	1.50	0.01220	68.64		31.93	3.33
	L0049480	442887.08	3768386.66	427.69	1.50	0.01220	68.64		31.93	3.33
	L0049481	442818.44	3768387.12	436.57	1.50	0.01220	68.64		31.93	3.33
	L0049482	442749.80	3768387.58	445.44	1.50	0.01220	68.64		31.93	3.33
	L0049483	442681.17	3768388.04	454.32	1.50	0.01220	68.64		31.93	3.33
	L0049484	442612.53	3768388.50	463.20	1.50	0.01220	68.64		31.93	3.33
	L0049485	442543.89	3768388.96	472.08	1.50	0.01220	68.64		31.93	3.33
	L0049486	442484.12	3768419.53	480.96	1.50	0.01220	68.64		31.93	3.33
	L0049487	442426.18	3768456.33	489.83	1.50	0.01220	68.64		31.93	3.33
	L0049488	442368.24	3768493.14	498.71	1.50	0.01220	68.64		31.93	3.33
	L0049489	442310.30	3768529.94	507.59	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LRT	L0049490	442252.36	3768566.74	516.47	1.50	0.01220	68.64		31.93	3.33
	L0049491	442194.42	3768603.55	525.35	1.50	0.01220	68.64		31.93	3.33
	L0049492	442136.48	3768640.35	534.22	1.50	0.01220	68.64		31.93	3.33
	L0049493	442078.54	3768677.15	543.10	1.50	0.01220	68.64		31.93	3.33
	L0049494	442020.60	3768713.96	551.98	1.50	0.01220	68.64		31.93	3.33
	L0049495	441962.66	3768750.76	560.86	1.50	0.01220	68.64		31.93	3.33
	L0049496	441904.72	3768787.56	569.74	1.50	0.01220	68.64		31.93	3.33
	L0049497	441846.78	3768824.37	578.61	1.50	0.01220	68.64		31.93	3.33
	L0049498	441788.84	3768861.17	587.49	1.50	0.01220	68.64		31.93	3.33
	L0049499	441730.90	3768897.97	596.37	1.50	0.01220	68.64		31.93	3.33
	L0049500	441672.96	3768934.78	605.25	1.50	0.01220	68.64		31.93	3.33
	L0049501	441615.03	3768971.58	614.13	1.50	0.01220	68.64		31.93	3.33
	L0049502	441557.09	3769008.38	623.00	1.50	0.01220	68.64		31.93	3.33
	L0049503	441499.15	3769045.19	631.88	1.50	0.01220	68.64		31.93	3.33
	L0049504	441441.21	3769081.99	640.76	1.50	0.01220	68.64		31.93	3.33
	L0049505	441383.27	3769118.79	649.64	1.50	0.01220	68.64		31.93	3.33
	L0049506	441325.33	3769155.60	658.52	1.50	0.01220	68.64		31.93	3.33
	L0049507	441267.39	3769192.40	667.40	1.50	0.01220	68.64		31.93	3.33
	L0049508	441209.45	3769229.20	676.27	1.50	0.01220	68.64		31.93	3.33
	L0049509	441151.51	3769266.01	685.15	1.50	0.01220	68.64		31.93	3.33
	L0049510	441093.57	3769302.81	694.03	1.50	0.01220	68.64		31.93	3.33
	L0049511	441035.63	3769339.61	702.91	1.50	0.01220	68.64		31.93	3.33
	L0049512	440977.69	3769376.42	711.79	1.50	0.01220	68.64		31.93	3.33
	L0049513	440919.75	3769413.22	720.66	1.50	0.01220	68.64		31.93	3.33
	L0049514	440861.81	3769450.02	729.54	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LRT	L0049515	440803.88	3769486.83	738.42	1.50	0.01220	68.64		31.93	3.33
	L0049516	440745.94	3769523.63	747.30	1.50	0.01220	68.64		31.93	3.33
	L0049517	440688.00	3769560.43	756.18	1.50	0.01220	68.64		31.93	3.33
	L0049518	440630.06	3769597.24	765.05	1.50	0.01220	68.64		31.93	3.33
	L0049519	440572.12	3769634.04	773.93	1.50	0.01220	68.64		31.93	3.33
	L0049520	440514.18	3769670.84	782.81	1.50	0.01220	68.64		31.93	3.33
	L0049521	440456.24	3769707.65	791.69	1.50	0.01220	68.64		31.93	3.33
	L0049522	440398.30	3769744.45	800.57	1.50	0.01220	68.64		31.93	3.33
	L0049523	440340.36	3769781.25	809.44	1.50	0.01220	68.64		31.93	3.33
	L0049524	440282.42	3769818.06	818.32	1.50	0.01220	68.64		31.93	3.33
	L0049525	440224.48	3769854.86	827.20	1.50	0.01220	68.64		31.93	3.33
	L0049526	440166.54	3769891.66	836.08	1.50	0.01220	68.64		31.93	3.33
	L0049527	440108.60	3769928.47	844.96	1.50	0.01220	68.64		31.93	3.33
	L0049528	440050.66	3769965.27	853.83	1.50	0.01220	68.64		31.93	3.33
	L0049529	439992.72	3770002.07	862.71	1.50	0.01220	68.64		31.93	3.33
	L0049530	439934.79	3770038.88	871.59	1.50	0.01220	68.64		31.93	3.33
	L0049531	439876.85	3770075.68	880.47	1.50	0.01220	68.64		31.93	3.33
	L0049532	439818.91	3770112.48	889.35	1.50	0.01220	68.64		31.93	3.33
	L0049533	439760.97	3770149.29	898.22	1.50	0.01220	68.64		31.93	3.33
	L0049534	439703.03	3770186.09	907.10	1.50	0.01220	68.64		31.93	3.33
	L0049535	439645.09	3770222.89	915.98	1.50	0.01220	68.64		31.93	3.33
	L0049536	439587.15	3770259.70	924.86	1.50	0.01220	68.64		31.93	3.33
	L0049537	439529.21	3770296.50	933.74	1.50	0.01220	68.64		31.93	3.33
	L0049538	439471.27	3770333.30	942.62	1.50	0.01220	68.64		31.93	3.33
	L0049539	439413.33	3770370.11	951.49	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LRT	L0049540	439355.39	3770406.91	960.37	1.50	0.01220	68.64		31.93	3.33
	L0049541	439297.45	3770443.71	969.25	1.50	0.01220	68.64		31.93	3.33
	L0049542	439239.51	3770480.52	978.13	1.50	0.01220	68.64		31.93	3.33
	L0049543	439181.57	3770517.32	987.01	1.50	0.01220	68.64		31.93	3.33
	L0049544	439123.64	3770554.12	995.88	1.50	0.01220	68.64		31.93	3.33
	L0049545	439065.70	3770590.93	1004.76	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LSO	L0049546	443984.25	3768379.07	285.65	1.50	0.01220	68.64		31.93	3.33
	L0049547	443915.61	3768379.11	294.53	1.50	0.01220	68.64		31.93	3.33
	L0049548	443846.97	3768379.15	303.41	1.50	0.01220	68.64		31.93	3.33
	L0049549	443778.33	3768379.19	312.28	1.50	0.01220	68.64		31.93	3.33
	L0049550	443709.69	3768379.23	321.16	1.50	0.01220	68.64		31.93	3.33
	L0049551	443641.05	3768379.27	330.04	1.50	0.01220	68.64		31.93	3.33
	L0049552	443572.41	3768379.31	338.92	1.50	0.01220	68.64		31.93	3.33
	L0049553	443503.77	3768379.35	347.80	1.50	0.01220	68.64		31.93	3.33
	L0049554	443435.13	3768379.39	356.68	1.50	0.01220	68.64		31.93	3.33
	L0049555	443366.49	3768379.43	365.55	1.50	0.01220	68.64		31.93	3.33
	L0049556	443297.85	3768379.47	374.43	1.50	0.01220	68.64		31.93	3.33
	L0049557	443229.21	3768379.51	383.31	1.50	0.01220	68.64		31.93	3.33
	L0049558	443160.57	3768379.55	392.19	1.50	0.01220	68.64		31.93	3.33
	L0049559	443091.93	3768379.59	401.07	1.50	0.01220	68.64		31.93	3.33
	L0049560	443023.29	3768379.63	409.95	1.50	0.01220	68.64		31.93	3.33
	L0049561	442954.65	3768379.67	418.83	1.50	0.01220	68.64		31.93	3.33
	L0049562	442886.01	3768379.71	427.70	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LSO	L0049563	442817.37	3768379.74	436.58	1.50	0.01220	68.64		31.93	3.33
	L0049564	442748.73	3768379.78	445.46	1.50	0.01220	68.64		31.93	3.33
	L0049565	442680.09	3768379.82	454.34	1.50	0.01220	68.64		31.93	3.33
	L0049566	442611.45	3768379.86	463.22	1.50	0.01220	68.64		31.93	3.33
	L0049567	442542.81	3768379.90	472.10	1.50	0.01220	68.64		31.93	3.33
	L0049568	442474.17	3768379.94	480.97	1.50	0.01220	68.64		31.93	3.33
	L0049569	442405.53	3768379.98	489.85	1.50	0.01220	68.64		31.93	3.33
	L0049570	442336.89	3768380.02	498.73	1.50	0.01220	68.64		31.93	3.33
	L0049571	442268.25	3768380.06	507.61	1.50	0.01220	68.64		31.93	3.33
	L0049572	442199.61	3768380.10	516.49	1.50	0.01220	68.64		31.93	3.33
	L0049573	442130.97	3768380.14	525.37	1.50	0.01220	68.64		31.93	3.33
	L0049574	442062.33	3768380.18	534.24	1.50	0.01220	68.64		31.93	3.33
	L0049575	441993.69	3768380.22	543.12	1.50	0.01220	68.64		31.93	3.33
	L0049576	441925.05	3768380.26	552.00	1.50	0.01220	68.64		31.93	3.33
	L0049577	441856.41	3768380.30	560.88	1.50	0.01220	68.64		31.93	3.33
	L0049578	441787.77	3768380.34	569.76	1.50	0.01220	68.64		31.93	3.33
	L0049579	441719.13	3768380.38	578.64	1.50	0.01220	68.64		31.93	3.33
	L0049580	441650.49	3768380.42	587.51	1.50	0.01220	68.64		31.93	3.33
	L0049581	441581.85	3768380.46	596.39	1.50	0.01220	68.64		31.93	3.33
	L0049582	441513.21	3768380.50	605.27	1.50	0.01220	68.64		31.93	3.33
	L0049583	441444.57	3768380.54	614.15	1.50	0.01220	68.64		31.93	3.33
	L0049584	441375.93	3768380.58	623.03	1.50	0.01220	68.64		31.93	3.33
	L0049585	441307.29	3768380.62	631.91	1.50	0.01220	68.64		31.93	3.33
	L0049586	441238.65	3768380.66	640.78	1.50	0.01220	68.64		31.93	3.33
	L0049587	441170.01	3768380.70	649.66	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LSO	L0049588	441101.37	3768380.74	658.54	1.50	0.01220	68.64		31.93	3.33
	L0049589	441032.73	3768380.78	667.42	1.50	0.01220	68.64		31.93	3.33
	L0049590	440964.09	3768380.82	676.30	1.50	0.01220	68.64		31.93	3.33
	L0049591	440895.45	3768380.86	685.18	1.50	0.01220	68.64		31.93	3.33
	L0049592	440826.81	3768380.90	694.06	1.50	0.01220	68.64		31.93	3.33
	L0049593	440758.17	3768380.94	702.93	1.50	0.01220	68.64		31.93	3.33
	L0049594	440689.53	3768380.98	711.81	1.50	0.01220	68.64		31.93	3.33
	L0049595	440620.89	3768381.02	720.69	1.50	0.01220	68.64		31.93	3.33
	L0049596	440552.25	3768381.06	729.57	1.50	0.01220	68.64		31.93	3.33
	L0049597	440483.61	3768381.10	738.45	1.50	0.01220	68.64		31.93	3.33
	L0049598	440414.97	3768381.14	747.33	1.50	0.01220	68.64		31.93	3.33
	L0049599	440346.33	3768381.18	756.20	1.50	0.01220	68.64		31.93	3.33
	L0049600	440277.69	3768381.22	765.08	1.50	0.01220	68.64		31.93	3.33
	L0049601	440209.05	3768381.26	773.96	1.50	0.01220	68.64		31.93	3.33
	L0049602	440140.41	3768381.30	782.84	1.50	0.01220	68.64		31.93	3.33
	L0049603	440071.77	3768381.34	791.72	1.50	0.01220	68.64		31.93	3.33
	L0049604	440003.13	3768381.38	800.60	1.50	0.01220	68.64		31.93	3.33
	L0049605	439934.49	3768381.42	809.47	1.50	0.01220	68.64		31.93	3.33
	L0049606	439865.85	3768381.46	818.35	1.50	0.01220	68.64		31.93	3.33
	L0049607	439797.21	3768381.50	827.23	1.50	0.01220	68.64		31.93	3.33
	L0049608	439728.57	3768381.54	836.11	1.50	0.01220	68.64		31.93	3.33
	L0049609	439659.93	3768381.58	844.99	1.50	0.01220	68.64		31.93	3.33
	L0049610	439591.29	3768381.62	853.87	1.50	0.01220	68.64		31.93	3.33
	L0049611	439522.65	3768381.66	862.74	1.50	0.01220	68.64		31.93	3.33
	L0049612	439454.01	3768381.70	871.62	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26LSO	L0049613	439385.37	3768381.74	880.50	1.50	0.01220	68.64		31.93	3.33
	L0049614	439316.73	3768381.78	889.38	1.50	0.01220	68.64		31.93	3.33
	L0049615	439248.09	3768381.82	898.26	1.50	0.01220	68.64		31.93	3.33
	L0049616	439179.45	3768381.86	907.14	1.50	0.01220	68.64		31.93	3.33
	L0049617	439110.81	3768381.90	916.01	1.50	0.01220	68.64		31.93	3.33
	L0049618	439042.17	3768381.93	924.89	1.50	0.01220	68.64		31.93	3.33
	L0049619	438973.53	3768381.97	933.77	1.50	0.01220	68.64		31.93	3.33
	L0049620	438904.89	3768382.01	942.65	1.50	0.01220	68.64		31.93	3.33
	L0049621	438836.25	3768382.05	951.53	1.50	0.01220	68.64		31.93	3.33
	L0049622	438767.61	3768382.09	960.41	1.50	0.01220	68.64		31.93	3.33
	L0049623	438698.97	3768382.13	969.29	1.50	0.01220	68.64		31.93	3.33
	L0049624	438630.33	3768382.17	978.16	1.50	0.01220	68.64		31.93	3.33
	L0049625	438561.69	3768382.21	987.04	1.50	0.01220	68.64		31.93	3.33
	L0049626	438493.05	3768382.25	995.92	1.50	0.01220	68.64		31.93	3.33
	L0049627	438424.41	3768382.29	1004.80	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RLC	L0049628	443985.19	3768591.35	288.77	0.02	0.01220	68.64		31.93	3.33
	L0049629	443916.55	3768591.49	297.65	0.06	0.01220	68.64		31.93	3.33
	L0049630	443847.91	3768591.63	306.53	0.10	0.01220	68.64		31.93	3.33
	L0049631	443779.27	3768591.77	315.41	0.14	0.01220	68.64		31.93	3.33
	L0049632	443710.64	3768591.91	324.29	0.19	0.01220	68.64		31.93	3.33
	L0049633	443642.00	3768592.04	333.17	0.23	0.01220	68.64		31.93	3.33
	L0049634	443573.36	3768592.18	342.05	0.27	0.01220	68.64		31.93	3.33
	L0049635	443504.72	3768592.32	350.93	0.31	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RLC	L0049636	443436.08	3768592.46	359.81	0.35	0.01220	68.64		31.93	3.33
	L0049637	443367.44	3768592.60	368.69	0.39	0.01220	68.64		31.93	3.33
	L0049638	443298.80	3768592.74	377.57	0.43	0.01220	68.64		31.93	3.33
	L0049639	443230.16	3768592.88	386.45	0.47	0.01220	68.64		31.93	3.33
	L0049640	443161.52	3768593.02	395.32	0.52	0.01220	68.64		31.93	3.33
	L0049641	443092.88	3768593.16	404.20	0.56	0.01220	68.64		31.93	3.33
	L0049642	443024.24	3768593.30	413.08	0.60	0.01220	68.64		31.93	3.33
	L0049643	442955.60	3768593.44	421.96	0.64	0.01220	68.64		31.93	3.33
	L0049644	442886.96	3768593.58	430.84	0.68	0.01220	68.64		31.93	3.33
	L0049645	442818.32	3768593.72	439.72	0.72	0.01220	68.64		31.93	3.33
	L0049646	442749.68	3768593.86	448.60	0.76	0.01220	68.64		31.93	3.33
	L0049647	442681.04	3768593.99	457.48	0.80	0.01220	68.64		31.93	3.33
	L0049648	442612.40	3768594.13	466.36	0.85	0.01220	68.64		31.93	3.33
	L0049649	442543.76	3768594.27	475.24	0.89	0.01220	68.64		31.93	3.33
	L0049650	442475.12	3768594.41	484.12	0.93	0.01220	68.64		31.93	3.33
	L0049651	442406.48	3768594.55	493.00	0.97	0.01220	68.64		31.93	3.33
	L0049652	442337.84	3768594.69	501.88	1.01	0.01220	68.64		31.93	3.33
	L0049653	442269.20	3768594.83	510.76	1.05	0.01220	68.64		31.93	3.33
	L0049654	442200.56	3768594.97	519.64	1.09	0.01220	68.64		31.93	3.33
	L0049655	442131.92	3768595.11	528.52	1.13	0.01220	68.64		31.93	3.33
	L0049656	442063.28	3768595.25	537.40	1.17	0.01220	68.64		31.93	3.33
	L0049657	441994.64	3768595.39	546.28	1.22	0.01220	68.64		31.93	3.33
	L0049658	441926.00	3768595.53	555.16	1.26	0.01220	68.64		31.93	3.33
	L0049659	441857.36	3768595.67	564.04	1.30	0.01220	68.64		31.93	3.33
	L0049660	441788.72	3768595.81	572.92	1.34	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RLC	L0049661	441720.08	3768595.94	581.80	1.38	0.01220	68.64		31.93	3.33
	L0049662	441651.44	3768596.08	590.68	1.42	0.01220	68.64		31.93	3.33
	L0049663	441582.80	3768596.22	599.56	1.46	0.01220	68.64		31.93	3.33
	L0049664	441514.52	3768593.97	608.43	1.50	0.01220	68.64		31.93	3.33
	L0049665	441448.98	3768573.56	617.30	1.50	0.01220	68.64		31.93	3.33
	L0049666	441383.45	3768553.16	626.17	1.50	0.01220	68.64		31.93	3.33
	L0049667	441317.91	3768532.76	635.04	1.50	0.01220	68.64		31.93	3.33
	L0049668	441252.37	3768512.35	643.91	1.50	0.01220	68.64		31.93	3.33
	L0049669	441186.83	3768491.95	652.78	1.50	0.01220	68.64		31.93	3.33
	L0049670	441122.07	3768469.86	661.65	1.50	0.01220	68.64		31.93	3.33
	L0049671	441063.72	3768433.71	670.53	1.50	0.01220	68.64		31.93	3.33
	L0049672	441005.37	3768397.56	679.40	1.50	0.01220	68.64		31.93	3.33
	L0049673	440947.02	3768361.41	688.28	1.50	0.01220	68.64		31.93	3.33
	L0049674	440888.67	3768325.26	697.16	1.50	0.01220	68.64		31.93	3.33
	L0049675	440830.32	3768289.11	706.03	1.50	0.01220	68.64		31.93	3.33
	L0049676	440774.75	3768249.55	714.91	1.50	0.01220	68.64		31.93	3.33
	L0049677	440727.54	3768199.72	723.79	1.50	0.01220	68.64		31.93	3.33
	L0049678	440680.33	3768149.89	732.67	1.50	0.01220	68.64		31.93	3.33
	L0049679	440633.13	3768100.06	741.55	1.50	0.01220	68.64		31.93	3.33
	L0049680	440585.92	3768050.23	750.43	1.50	0.01220	68.64		31.93	3.33
	L0049681	440538.71	3768000.40	759.31	1.50	0.01220	68.64		31.93	3.33
	L0049682	440491.51	3767950.57	768.19	1.50	0.01220	68.64		31.93	3.33
	L0049683	440449.61	3767897.91	777.07	1.50	0.01220	68.64		31.93	3.33
	L0049684	440434.47	3767830.96	785.95	1.50	0.01220	68.64		31.93	3.33
	L0049685	440419.33	3767764.01	794.84	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RLC	L0049686	440404.20	3767697.06	803.72	1.50	0.01220	68.64		31.93	3.33
	L0049687	440389.06	3767630.11	812.61	1.50	0.01220	68.64		31.93	3.33
	L0049688	440373.92	3767563.16	821.49	1.50	0.01220	68.64		31.93	3.33
	L0049689	440358.79	3767496.21	830.38	1.50	0.01220	68.64		31.93	3.33
	L0049690	440356.10	3767427.94	839.25	1.50	0.01220	68.64		31.93	3.33
	L0049691	440356.86	3767359.31	848.13	1.50	0.01220	68.64		31.93	3.33
	L0049692	440357.62	3767290.67	857.01	1.50	0.01220	68.64		31.93	3.33
	L0049693	440358.38	3767222.03	865.89	1.50	0.01220	68.64		31.93	3.33
	L0049694	440359.14	3767153.40	874.76	1.50	0.01220	68.64		31.93	3.33
	L0049695	440359.90	3767084.76	883.64	1.50	0.01220	68.64		31.93	3.33
	L0049696	440360.66	3767016.13	892.52	1.50	0.01220	68.64		31.93	3.33
	L0049697	440361.42	3766947.49	901.39	1.50	0.01220	68.64		31.93	3.33
	L0049698	440362.18	3766878.85	910.27	1.50	0.01220	68.64		31.93	3.33
	L0049699	440362.94	3766810.22	919.15	1.50	0.01220	68.64		31.93	3.33
	L0049700	440363.70	3766741.58	928.03	1.50	0.01220	68.64		31.93	3.33
	L0049701	440364.46	3766672.95	936.90	1.50	0.01220	68.64		31.93	3.33
	L0049702	440365.22	3766604.31	945.78	1.50	0.01220	68.64		31.93	3.33
	L0049703	440365.98	3766535.68	954.66	1.50	0.01220	68.64		31.93	3.33
	L0049704	440366.74	3766467.04	963.53	1.50	0.01220	68.64		31.93	3.33
	L0049705	440367.50	3766398.40	972.41	1.50	0.01220	68.64		31.93	3.33
	L0049706	440368.26	3766329.77	981.29	1.50	0.01220	68.64		31.93	3.33
	L0049707	440369.02	3766261.13	990.17	1.50	0.01220	68.64		31.93	3.33
	L0049708	440374.19	3766192.84	999.03	1.50	0.01220	68.64		31.93	3.33
	L0049709	440383.95	3766124.89	1007.89	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RRT	L0049710	443985.33	3768591.78	288.77	1.50	0.01220	68.64		31.93	3.33
	L0049711	443916.69	3768591.95	297.65	1.50	0.01220	68.64		31.93	3.33
	L0049712	443848.05	3768592.12	306.52	1.50	0.01220	68.64		31.93	3.33
	L0049713	443779.41	3768592.28	315.40	1.50	0.01220	68.64		31.93	3.33
	L0049714	443710.77	3768592.45	324.28	1.50	0.01220	68.64		31.93	3.33
	L0049715	443642.13	3768592.62	333.16	1.50	0.01220	68.64		31.93	3.33
	L0049716	443573.49	3768592.79	342.03	1.50	0.01220	68.64		31.93	3.33
	L0049717	443504.85	3768592.96	350.91	1.50	0.01220	68.64		31.93	3.33
	L0049718	443436.21	3768593.13	359.79	1.50	0.01220	68.64		31.93	3.33
	L0049719	443367.57	3768593.30	368.67	1.50	0.01220	68.64		31.93	3.33
	L0049720	443298.93	3768593.46	377.55	1.50	0.01220	68.64		31.93	3.33
	L0049721	443230.29	3768593.63	386.42	1.50	0.01220	68.64		31.93	3.33
	L0049722	443161.65	3768593.80	395.30	1.50	0.01220	68.64		31.93	3.33
	L0049723	443093.01	3768593.97	404.18	1.50	0.01220	68.64		31.93	3.33
	L0049724	443024.37	3768594.14	413.06	1.50	0.01220	68.64		31.93	3.33
	L0049725	442955.73	3768594.31	421.93	1.50	0.01220	68.64		31.93	3.33
	L0049726	442887.09	3768594.47	430.81	1.50	0.01220	68.64		31.93	3.33
	L0049727	442818.45	3768594.64	439.69	1.50	0.01220	68.64		31.93	3.33
	L0049728	442749.81	3768594.81	448.57	1.50	0.01220	68.64		31.93	3.33
	L0049729	442681.17	3768594.98	457.44	1.50	0.01220	68.64		31.93	3.33
	L0049730	442612.53	3768595.15	466.32	1.50	0.01220	68.64		31.93	3.33
	L0049731	442543.89	3768595.32	475.20	1.50	0.01220	68.64		31.93	3.33
	L0049732	442475.25	3768595.49	484.08	1.50	0.01220	68.64		31.93	3.33
	L0049733	442406.61	3768595.65	492.96	1.50	0.01220	68.64		31.93	3.33
	L0049734	442337.97	3768595.82	501.83	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RRT	L0049735	442269.33	3768595.99	510.71	1.50	0.01220	68.64		31.93	3.33
	L0049736	442200.69	3768596.16	519.59	1.50	0.01220	68.64		31.93	3.33
	L0049737	442132.05	3768596.33	528.47	1.50	0.01220	68.64		31.93	3.33
	L0049738	442068.93	3768619.89	537.34	1.50	0.01220	68.64		31.93	3.33
	L0049739	442007.44	3768650.40	546.22	1.50	0.01220	68.64		31.93	3.33
	L0049740	441945.96	3768680.91	555.10	1.50	0.01220	68.64		31.93	3.33
	L0049741	441884.47	3768711.42	563.98	1.50	0.01220	68.64		31.93	3.33
	L0049742	441822.98	3768741.93	572.86	1.50	0.01220	68.64		31.93	3.33
	L0049743	441761.50	3768772.44	581.73	1.50	0.01220	68.64		31.93	3.33
	L0049744	441700.01	3768802.95	590.61	1.50	0.01220	68.64		31.93	3.33
	L0049745	441638.53	3768833.46	599.49	1.50	0.01220	68.64		31.93	3.33
	L0049746	441577.04	3768863.98	608.37	1.50	0.01220	68.64		31.93	3.33
	L0049747	441515.55	3768894.49	617.24	1.50	0.01220	68.64		31.93	3.33
	L0049748	441454.07	3768925.00	626.12	1.50	0.01220	68.64		31.93	3.33
	L0049749	441392.58	3768955.51	635.00	1.50	0.01220	68.64		31.93	3.33
	L0049750	441331.10	3768986.02	643.88	1.50	0.01220	68.64		31.93	3.33
	L0049751	441269.61	3769016.53	652.75	1.50	0.01220	68.64		31.93	3.33
	L0049752	441208.12	3769047.04	661.63	1.50	0.01220	68.64		31.93	3.33
	L0049753	441146.64	3769077.55	670.51	1.50	0.01220	68.64		31.93	3.33
	L0049754	441085.15	3769108.06	679.39	1.50	0.01220	68.64		31.93	3.33
	L0049755	441023.67	3769138.57	688.27	1.50	0.01220	68.64		31.93	3.33
	L0049756	440962.18	3769169.09	697.14	1.50	0.01220	68.64		31.93	3.33
	L0049757	440900.69	3769199.60	706.02	1.50	0.01220	68.64		31.93	3.33
	L0049758	440839.21	3769230.11	714.90	1.50	0.01220	68.64		31.93	3.33
	L0049759	440777.72	3769260.62	723.78	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RRT	L0049760	440716.24	3769291.13	732.65	1.50	0.01220	68.64		31.93	3.33
	L0049761	440654.75	3769321.64	741.53	1.50	0.01220	68.64		31.93	3.33
	L0049762	440593.26	3769352.15	750.41	1.50	0.01220	68.64		31.93	3.33
	L0049763	440531.78	3769382.66	759.29	1.50	0.01220	68.64		31.93	3.33
	L0049764	440470.29	3769413.17	768.17	1.50	0.01220	68.64		31.93	3.33
	L0049765	440408.81	3769443.68	777.04	1.50	0.01220	68.64		31.93	3.33
	L0049766	440347.32	3769474.20	785.92	1.50	0.01220	68.64		31.93	3.33
	L0049767	440285.83	3769504.71	794.80	1.50	0.01220	68.64		31.93	3.33
	L0049768	440224.35	3769535.22	803.68	1.50	0.01220	68.64		31.93	3.33
	L0049769	440162.86	3769565.73	812.55	1.50	0.01220	68.64		31.93	3.33
	L0049770	440101.38	3769596.24	821.43	1.50	0.01220	68.64		31.93	3.33
	L0049771	440039.89	3769626.75	830.31	1.50	0.01220	68.64		31.93	3.33
	L0049772	439978.40	3769657.26	839.19	1.50	0.01220	68.64		31.93	3.33
	L0049773	439916.92	3769687.77	848.06	1.50	0.01220	68.64		31.93	3.33
	L0049774	439855.43	3769718.28	856.94	1.50	0.01220	68.64		31.93	3.33
	L0049775	439793.95	3769748.79	865.82	1.50	0.01220	68.64		31.93	3.33
	L0049776	439732.46	3769779.31	874.70	1.50	0.01220	68.64		31.93	3.33
	L0049777	439670.97	3769809.82	883.58	1.50	0.01220	68.64		31.93	3.33
	L0049778	439609.49	3769840.33	892.45	1.50	0.01220	68.64		31.93	3.33
	L0049779	439548.00	3769870.84	901.33	1.50	0.01220	68.64		31.93	3.33
	L0049780	439486.52	3769901.35	910.21	1.50	0.01220	68.64		31.93	3.33
	L0049781	439425.03	3769931.86	919.09	1.50	0.01220	68.64		31.93	3.33
	L0049782	439363.54	3769962.37	927.96	1.50	0.01220	68.64		31.93	3.33
	L0049783	439302.06	3769992.88	936.84	1.50	0.01220	68.64		31.93	3.33
	L0049784	439240.57	3770023.39	945.72	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RRT	L0049785	439179.09	3770053.90	954.60	1.50	0.01220	68.64		31.93	3.33
	L0049786	439117.60	3770084.42	963.48	1.50	0.01220	68.64		31.93	3.33
	L0049787	439056.11	3770114.93	972.35	1.50	0.01220	68.64		31.93	3.33
	L0049788	438994.63	3770145.44	981.23	1.50	0.01220	68.64		31.93	3.33
	L0049789	438933.14	3770175.95	990.11	1.50	0.01220	68.64		31.93	3.33
	L0049790	438871.66	3770206.46	998.99	1.50	0.01220	68.64		31.93	3.33
	L0049791	438810.17	3770236.97	1007.86	1.50	0.01220	68.64		31.93	3.33

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RSO	L0049792	443984.86	3768592.24	288.77	1.50	0.01220	68.64		31.93	3.33
	L0049793	443916.22	3768592.28	297.65	1.50	0.01220	68.64		31.93	3.33
	L0049794	443847.58	3768592.31	306.52	1.50	0.01220	68.64		31.93	3.33
	L0049795	443778.94	3768592.35	315.40	1.50	0.01220	68.64		31.93	3.33
	L0049796	443710.30	3768592.38	324.28	1.50	0.01220	68.64		31.93	3.33
	L0049797	443641.66	3768592.42	333.16	1.50	0.01220	68.64		31.93	3.33
	L0049798	443573.02	3768592.46	342.04	1.50	0.01220	68.64		31.93	3.33
	L0049799	443504.38	3768592.49	350.91	1.50	0.01220	68.64		31.93	3.33
	L0049800	443435.74	3768592.53	359.79	1.50	0.01220	68.64		31.93	3.33
	L0049801	443367.10	3768592.56	368.67	1.50	0.01220	68.64		31.93	3.33
	L0049802	443298.46	3768592.60	377.55	1.50	0.01220	68.64		31.93	3.33
	L0049803	443229.82	3768592.63	386.42	1.50	0.01220	68.64		31.93	3.33
	L0049804	443161.18	3768592.67	395.30	1.50	0.01220	68.64		31.93	3.33
	L0049805	443092.54	3768592.70	404.18	1.50	0.01220	68.64		31.93	3.33
	L0049806	443023.90	3768592.74	413.06	1.50	0.01220	68.64		31.93	3.33
	L0049807	442955.26	3768592.78	421.94	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RSO	L0049808	442886.62	3768592.81	430.81	1.50	0.01220	68.64		31.93	3.33
	L0049809	442817.98	3768592.85	439.69	1.50	0.01220	68.64		31.93	3.33
	L0049810	442749.34	3768592.88	448.57	1.50	0.01220	68.64		31.93	3.33
	L0049811	442680.70	3768592.92	457.45	1.50	0.01220	68.64		31.93	3.33
	L0049812	442612.06	3768592.95	466.32	1.50	0.01220	68.64		31.93	3.33
	L0049813	442543.42	3768592.99	475.20	1.50	0.01220	68.64		31.93	3.33
	L0049814	442474.78	3768593.02	484.08	1.50	0.01220	68.64		31.93	3.33
	L0049815	442406.14	3768593.06	492.96	1.50	0.01220	68.64		31.93	3.33
	L0049816	442337.50	3768593.10	501.84	1.50	0.01220	68.64		31.93	3.33
	L0049817	442268.86	3768593.13	510.71	1.50	0.01220	68.64		31.93	3.33
	L0049818	442200.22	3768593.17	519.59	1.50	0.01220	68.64		31.93	3.33
	L0049819	442131.58	3768593.20	528.47	1.50	0.01220	68.64		31.93	3.33
	L0049820	442062.94	3768593.24	537.35	1.50	0.01220	68.64		31.93	3.33
	L0049821	441994.30	3768593.27	546.22	1.50	0.01220	68.64		31.93	3.33
	L0049822	441925.66	3768593.31	555.10	1.50	0.01220	68.64		31.93	3.33
	L0049823	441857.02	3768593.34	563.98	1.50	0.01220	68.64		31.93	3.33
	L0049824	441788.38	3768593.38	572.86	1.50	0.01220	68.64		31.93	3.33
	L0049825	441719.74	3768593.42	581.74	1.50	0.01220	68.64		31.93	3.33
	L0049826	441651.10	3768593.45	590.61	1.50	0.01220	68.64		31.93	3.33
	L0049827	441582.46	3768593.49	599.49	1.50	0.01220	68.64		31.93	3.33
	L0049828	441513.82	3768593.52	608.37	1.50	0.01220	68.64		31.93	3.33
	L0049829	441445.18	3768593.56	617.25	1.50	0.01220	68.64		31.93	3.33
	L0049830	441376.54	3768593.59	626.12	1.50	0.01220	68.64		31.93	3.33
	L0049831	441307.90	3768593.63	635.00	1.50	0.01220	68.64		31.93	3.33
	L0049832	441239.26	3768593.66	643.88	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RSO	L0049833	441170.62	3768593.70	652.76	1.50	0.01220	68.64		31.93	3.33
	L0049834	441101.98	3768593.74	661.64	1.50	0.01220	68.64		31.93	3.33
	L0049835	441033.34	3768593.77	670.51	1.50	0.01220	68.64		31.93	3.33
	L0049836	440964.70	3768593.81	679.39	1.50	0.01220	68.64		31.93	3.33
	L0049837	440896.06	3768593.84	688.27	1.50	0.01220	68.64		31.93	3.33
	L0049838	440827.42	3768593.88	697.15	1.50	0.01220	68.64		31.93	3.33
	L0049839	440758.78	3768593.91	706.02	1.50	0.01220	68.64		31.93	3.33
	L0049840	440690.14	3768593.95	714.90	1.50	0.01220	68.64		31.93	3.33
	L0049841	440621.50	3768593.98	723.78	1.50	0.01220	68.64		31.93	3.33
	L0049842	440552.86	3768594.02	732.66	1.50	0.01220	68.64		31.93	3.33
	L0049843	440484.22	3768594.05	741.54	1.50	0.01220	68.64		31.93	3.33
	L0049844	440415.58	3768594.09	750.41	1.50	0.01220	68.64		31.93	3.33
	L0049845	440346.94	3768594.13	759.29	1.50	0.01220	68.64		31.93	3.33
	L0049846	440278.30	3768594.16	768.17	1.50	0.01220	68.64		31.93	3.33
	L0049847	440209.66	3768594.20	777.05	1.50	0.01220	68.64		31.93	3.33
	L0049848	440141.02	3768594.23	785.93	1.50	0.01220	68.64		31.93	3.33
	L0049849	440072.38	3768594.27	794.80	1.50	0.01220	68.64		31.93	3.33
	L0049850	440003.74	3768594.30	803.68	1.50	0.01220	68.64		31.93	3.33
	L0049851	439935.10	3768594.34	812.56	1.50	0.01220	68.64		31.93	3.33
	L0049852	439866.46	3768594.37	821.44	1.50	0.01220	68.64		31.93	3.33
	L0049853	439797.82	3768594.41	830.31	1.50	0.01220	68.64		31.93	3.33
	L0049854	439729.18	3768594.45	839.19	1.50	0.01220	68.64		31.93	3.33
	L0049855	439660.54	3768594.48	848.07	1.50	0.01220	68.64		31.93	3.33
	L0049856	439591.90	3768594.52	856.95	1.50	0.01220	68.64		31.93	3.33
	L0049857	439523.26	3768594.55	865.83	1.50	0.01220	68.64		31.93	3.33

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
D26RSO	L0049858	439454.62	3768594.59	874.70	1.50	0.01220	68.64		31.93	3.33
	L0049859	439385.98	3768594.62	883.58	1.50	0.01220	68.64		31.93	3.33
	L0049860	439317.34	3768594.66	892.46	1.50	0.01220	68.64		31.93	3.33
	L0049861	439248.70	3768594.69	901.34	1.50	0.01220	68.64		31.93	3.33
	L0049862	439180.06	3768594.73	910.21	1.50	0.01220	68.64		31.93	3.33
	L0049863	439111.42	3768594.77	919.09	1.50	0.01220	68.64		31.93	3.33
	L0049864	439042.78	3768594.80	927.97	1.50	0.01220	68.64		31.93	3.33
	L0049865	438974.14	3768594.84	936.85	1.50	0.01220	68.64		31.93	3.33
	L0049866	438905.50	3768594.87	945.73	1.50	0.01220	68.64		31.93	3.33
	L0049867	438836.86	3768594.91	954.60	1.50	0.01220	68.64		31.93	3.33
	L0049868	438768.22	3768594.94	963.48	1.50	0.01220	68.64		31.93	3.33
	L0049869	438699.58	3768594.98	972.36	1.50	0.01220	68.64		31.93	3.33
	L0049870	438630.94	3768595.01	981.24	1.50	0.01220	68.64		31.93	3.33
	L0049871	438562.30	3768595.05	990.11	1.50	0.01220	68.64		31.93	3.33
	L0049872	438493.66	3768595.09	998.99	1.50	0.01220	68.64		31.93	3.33
	L0049873	438425.02	3768595.12	1007.87	1.50	0.01220	68.64		31.93	3.33

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	438575.00	3764575.00	50	30	250.00	250.00
UCART2	440900.00	3768000.00	15	15	100.00	100.00

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	445946.84	3767789.93		273.18	
2	448001.77	3765079.22		248.95	
3	447122.94	3765379.32		251.23	
4	446042.57	3765649.63		250.24	
5	443818.03	3765934.14		253.44	
6	442937.76	3766057.37		255.79	
7	441491.30	3766217.18		258.01	
8	440398.94	3766842.56		268.12	
9	440262.43	3766643.39		265.69	
10	440295.60	3767639.22		278.22	
11	440503.41	3767876.66		281.09	
12	442036.65	3768089.20		280.91	
13	441322.28	3768350.40		286.84	
14	441344.10	3768445.29		288.25	
15	441157.93	3769147.37		300.10	
16	441198.12	3769179.74		300.15	
17	441523.43	3769228.54		299.16	
18	440612.34	3769925.99		313.15	
19	441198.61	3769729.73		308.67	
20	442119.99	3769274.66		297.66	
21	442529.07	3769329.90		297.49	
22	443919.05	3769724.99		298.56	
23	444881.55	3770085.97		299.97	
24	446023.97	3770078.04		303.94	
25	447309.34	3770459.37		306.88	

26	441112.11	3768749.68		293.84	

Plant Boundary Receptors

Cartesian Plant Boundary

Primary

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	442260.88	3768963.09	FENCEPRI	292.58	
2	442181.78	3768964.81	FENCEPRI	293.01	
3	442365.56	3769146.18	FENCEPRI	295.73	
4	446791.71	3769283.13	FENCEPRI	293.62	
5	446794.47	3769082.24	FENCEPRI	291.10	
6	447195.66	3769079.57	FENCEPRI	290.96	
7	447386.28	3768990.34	FENCEPRI	288.91	
8	447534.40	3768801.48	FENCEPRI	286.06	
9	447545.15	3768699.01	FENCEPRI	284.79	
10	447776.31	3768692.05	FENCEPRI	285.61	
11	447768.92	3768045.53	FENCEPRI	277.96	
12	447887.72	3767858.23	FENCEPRI	276.96	
13	448071.76	3767817.64	FENCEPRI	276.14	
14	448059.13	3767648.53	FENCEPRI	274.65	
15	447599.09	3767650.54	FENCEPRI	273.76	
16	447584.27	3767999.41	FENCEPRI	276.91	
17	447348.99	3767988.50	FENCEPRI	276.41	
18	447364.50	3768043.09	FENCEPRI	276.70	
19	446956.22	3768043.66	FENCEPRI	278.44	
20	446959.95	3767665.91	FENCEPRI	274.41	
21	446839.61	3767666.99	FENCEPRI	273.37	
22	446846.00	3768040.17	FENCEPRI	279.22	
23	445216.66	3768053.99	FENCEPRI	275.96	
24	445196.51	3767654.35	FENCEPRI	272.90	
25	444598.73	3767654.35	FENCEPRI	269.51	
26	444588.65	3767476.36	FENCEPRI	269.75	
27	441621.99	3768640.46	FENCEPRI	289.48	
28	441617.83	3768779.54	FENCEPRI	292.05	
29	441642.12	3768777.12	FENCEPRI	291.80	
30	441640.27	3768801.78	FENCEPRI	291.96	
31	442261.45	3768803.94	FENCEPRI	290.14	

Intermediate

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)

Receptor Pathway

1	442243.04	3769025.27	FENCEINT	293.33	
2	442304.30	3769085.72	FENCEINT	294.54	
3	442463.92	3769149.22	FENCEINT	295.39	
4	442562.28	3769152.27	FENCEINT	294.86	
5	442660.64	3769155.31	FENCEINT	294.85	
6	442759.00	3769158.35	FENCEINT	294.41	
7	442857.35	3769161.40	FENCEINT	294.02	
8	442955.71	3769164.44	FENCEINT	294.27	
9	443054.07	3769167.48	FENCEINT	294.38	
10	443152.43	3769170.53	FENCEINT	294.09	
11	443250.79	3769173.57	FENCEINT	292.41	
12	443349.15	3769176.61	FENCEINT	291.87	
13	443447.51	3769179.66	FENCEINT	290.88	
14	443545.87	3769182.70	FENCEINT	288.18	
15	443644.23	3769185.74	FENCEINT	286.40	
16	443742.58	3769188.79	FENCEINT	288.21	
17	443840.94	3769191.83	FENCEINT	290.78	
18	443939.30	3769194.87	FENCEINT	291.80	
19	444037.66	3769197.92	FENCEINT	291.67	
20	444136.02	3769200.96	FENCEINT	291.57	
21	444234.38	3769204.00	FENCEINT	291.87	
22	444332.74	3769207.05	FENCEINT	291.14	
23	444431.10	3769210.09	FENCEINT	290.61	
24	444529.46	3769213.13	FENCEINT	287.63	
25	444627.81	3769216.18	FENCEINT	290.70	
26	444726.17	3769219.22	FENCEINT	290.45	
27	444824.53	3769222.26	FENCEINT	290.80	
28	444922.89	3769225.31	FENCEINT	290.85	
29	445021.25	3769228.35	FENCEINT	290.68	
30	445119.61	3769231.39	FENCEINT	289.50	
31	445217.97	3769234.44	FENCEINT	286.04	
32	445316.33	3769237.48	FENCEINT	287.63	
33	445414.69	3769240.52	FENCEINT	290.48	
34	445513.04	3769243.57	FENCEINT	291.23	
35	445611.40	3769246.61	FENCEINT	291.74	
36	445709.76	3769249.65	FENCEINT	292.08	
37	445808.12	3769252.70	FENCEINT	292.40	
38	445906.48	3769255.74	FENCEINT	292.55	
39	446004.84	3769258.78	FENCEINT	293.01	
40	446103.20	3769261.83	FENCEINT	293.20	
41	446201.56	3769264.87	FENCEINT	293.45	

42	446299.92	3769267.91	FENCEINT	294.03	
43	446398.27	3769270.96	FENCEINT	294.84	
44	446496.63	3769274.00	FENCEINT	295.54	
45	446594.99	3769277.04	FENCEINT	294.92	
46	446693.35	3769280.09	FENCEINT	294.25	
47	446792.63	3769216.17	FENCEINT	292.52	
48	446793.55	3769149.20	FENCEINT	292.12	
49	446874.71	3769081.71	FENCEINT	290.78	
50	446954.95	3769081.17	FENCEINT	290.94	
51	447035.18	3769080.64	FENCEINT	290.73	
52	447115.42	3769080.10	FENCEINT	290.85	
53	447259.20	3769049.83	FENCEINT	290.40	
54	447322.74	3769020.08	FENCEINT	289.66	
55	447435.65	3768927.39	FENCEINT	287.38	
56	447485.03	3768864.43	FENCEINT	286.93	
57	447539.78	3768750.25	FENCEINT	285.45	
58	447622.20	3768696.69	FENCEINT	284.45	
59	447699.26	3768694.37	FENCEINT	285.48	
60	447775.25	3768599.69	FENCEINT	284.69	
61	447774.20	3768507.33	FENCEINT	283.07	
62	447773.14	3768414.97	FENCEINT	281.86	
63	447772.09	3768322.61	FENCEINT	280.68	
64	447771.03	3768230.25	FENCEINT	279.67	
65	447769.98	3768137.89	FENCEINT	278.75	
66	447808.52	3767983.10	FENCEINT	277.48	
67	447848.12	3767920.66	FENCEINT	277.19	
68	447979.74	3767837.94	FENCEINT	276.44	
69	448065.45	3767733.09	FENCEINT	275.61	
70	447967.12	3767648.93	FENCEINT	275.16	
71	447875.11	3767649.33	FENCEINT	275.41	
72	447783.11	3767649.74	FENCEINT	274.93	
73	447691.10	3767650.14	FENCEINT	274.37	
74	447595.39	3767737.76	FENCEINT	274.51	
75	447591.68	3767824.98	FENCEINT	275.29	
76	447587.98	3767912.19	FENCEINT	275.97	
77	447505.84	3767995.77	FENCEINT	277.00	
78	447427.42	3767992.14	FENCEINT	276.49	
79	447282.84	3768043.20	FENCEINT	276.98	
80	447201.19	3768043.32	FENCEINT	277.48	
81	447119.53	3768043.43	FENCEINT	277.40	
82	447037.88	3768043.55	FENCEINT	277.74	

83	446957.15	3767949.22	FENCEINT	277.54	
84	446958.09	3767854.79	FENCEINT	276.52	
85	446959.02	3767760.35	FENCEINT	275.47	
86	446899.78	3767666.45	FENCEINT	273.78	
87	446841.21	3767760.29	FENCEINT	275.16	
88	446842.81	3767853.58	FENCEINT	276.84	
89	446844.40	3767946.88	FENCEINT	278.04	
90	446750.16	3768040.98	FENCEINT	275.81	
91	446654.31	3768041.80	FENCEINT	275.78	
92	446558.47	3768042.61	FENCEINT	275.69	
93	446462.63	3768043.42	FENCEINT	275.64	
94	446366.78	3768044.23	FENCEINT	275.74	
95	446270.94	3768045.05	FENCEINT	275.79	
96	446175.10	3768045.86	FENCEINT	276.91	
97	446079.25	3768046.67	FENCEINT	277.18	
98	445983.41	3768047.49	FENCEINT	275.79	
99	445887.56	3768048.30	FENCEINT	275.37	
100	445791.72	3768049.11	FENCEINT	274.47	
101	445695.88	3768049.93	FENCEINT	274.46	
102	445600.03	3768050.74	FENCEINT	274.66	
103	445504.19	3768051.55	FENCEINT	275.73	
104	445408.35	3768052.36	FENCEINT	276.44	
105	445312.50	3768053.18	FENCEINT	275.90	
106	445212.63	3767974.06	FENCEINT	275.58	
107	445208.60	3767894.13	FENCEINT	273.96	
108	445204.57	3767814.21	FENCEINT	273.91	
109	445200.54	3767734.28	FENCEINT	273.06	
110	445096.88	3767654.35	FENCEINT	271.93	
111	444997.25	3767654.35	FENCEINT	272.06	
112	444897.62	3767654.35	FENCEINT	271.63	
113	444797.99	3767654.35	FENCEINT	271.47	
114	444698.36	3767654.35	FENCEINT	271.63	
115	444593.69	3767565.36	FENCEINT	269.25	
116	444495.94	3767512.74	FENCEINT	271.23	
117	444403.23	3767549.12	FENCEINT	271.96	
118	444310.53	3767585.49	FENCEINT	272.56	
119	444217.82	3767621.87	FENCEINT	272.92	
120	444125.11	3767658.25	FENCEINT	273.08	
121	444032.40	3767694.63	FENCEINT	273.32	
122	443939.69	3767731.01	FENCEINT	273.66	
123	443846.99	3767767.39	FENCEINT	274.58	

124	443754.28	3767803.76	FENCEINT	275.53	
125	443661.57	3767840.14	FENCEINT	276.22	
126	443568.86	3767876.52	FENCEINT	276.69	
127	443476.15	3767912.90	FENCEINT	277.19	
128	443383.44	3767949.28	FENCEINT	277.98	
129	443290.74	3767985.65	FENCEINT	278.56	
130	443198.03	3768022.03	FENCEINT	279.26	
131	443105.32	3768058.41	FENCEINT	279.54	
132	443012.61	3768094.79	FENCEINT	280.03	
133	442919.90	3768131.17	FENCEINT	280.14	
134	442827.20	3768167.54	FENCEINT	280.72	
135	442734.49	3768203.92	FENCEINT	281.22	
136	442641.78	3768240.30	FENCEINT	281.80	
137	442549.07	3768276.68	FENCEINT	282.77	
138	442456.36	3768313.06	FENCEINT	283.30	
139	442363.66	3768349.44	FENCEINT	284.34	
140	442270.95	3768385.81	FENCEINT	284.85	
141	442178.24	3768422.19	FENCEINT	285.72	
142	442085.53	3768458.57	FENCEINT	286.21	
143	441992.82	3768494.95	FENCEINT	284.46	
144	441900.11	3768531.33	FENCEINT	286.99	
145	441807.41	3768567.70	FENCEINT	287.73	
146	441714.70	3768604.08	FENCEINT	288.78	
147	441619.91	3768710.00	FENCEINT	291.45	
148	441729.01	3768802.09	FENCEINT	291.13	
149	441817.75	3768802.40	FENCEINT	290.49	
150	441906.49	3768802.71	FENCEINT	290.88	
151	441995.23	3768803.01	FENCEINT	290.82	
152	442083.97	3768803.32	FENCEINT	290.64	
153	442172.71	3768803.63	FENCEINT	290.13	
154	442261.17	3768883.52	FENCEINT	291.07	

Receptor Pathway

Fenceline Grid

Grid Settings

Fenceline Spacing [m]:	100.00
Number of Tired Segments:	2

Segment Number	Distance from Fenceline [m]	Spacing [m]
1	100.00	100.00

Segment Number	Distance from Fenceline [m]	Spacing [m]
2	100.00	100.00

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors
3	UCART1	Receptors generated from Uniform Cartesian Grid
4	FENCEGRD	Receptors generated from Fenceline Grid
5	UCART2	Receptors generated from Uniform Cartesian Grid

Receptor Pathway

Multi-Tier Grid (Risk)

Fenceline Grid

Grid Settings

Fenceline Spacing [m]:	100.00
Number of Tired Segments:	2

Segment Number	Distance from Fenceline [m]	Spacing [m]
1	100.00	100.00

Segment Number	Distance from Fenceline [m]	Spacing [m]
2	100.00	100.00

Generated Receptor Locations

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
1	442100.20	3768981.92	FENCEGRD	293.61	
2	442134.23	3768896.34	FENCEGRD	292.11	
3	442172.80	3769096.44	FENCEGRD	294.88	
4	442295.32	3769217.36	FENCEGRD	296.58	
5	442026.18	3769035.07	FENCEGRD	293.31	
6	442056.44	3768848.89	FENCEGRD	291.36	
7	442102.56	3769167.62	FENCEGRD	296.24	
8	442225.08	3769288.53	FENCEGRD	297.55	
9	442460.83	3769249.18	FENCEGRD	296.47	
10	442559.19	3769252.22	FENCEGRD	296.16	
11	442657.54	3769255.26	FENCEGRD	296.35	
12	442755.90	3769258.31	FENCEGRD	296.07	
13	442854.26	3769261.35	FENCEGRD	295.72	
14	442952.62	3769264.39	FENCEGRD	295.87	
15	443050.98	3769267.44	FENCEGRD	296.07	
16	443149.34	3769270.48	FENCEGRD	295.81	
17	443247.70	3769273.52	FENCEGRD	295.19	
18	443346.06	3769276.57	FENCEGRD	294.80	
19	443444.42	3769279.61	FENCEGRD	295.22	
20	443542.77	3769282.65	FENCEGRD	294.41	
21	443641.13	3769285.70	FENCEGRD	291.95	
22	443739.49	3769288.74	FENCEGRD	293.67	
23	443837.85	3769291.78	FENCEGRD	293.72	
24	443936.21	3769294.83	FENCEGRD	293.79	
25	444034.57	3769297.87	FENCEGRD	293.26	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
26	444132.93	3769300.91	FENCEGRD	293.08	
27	444231.29	3769303.96	FENCEGRD	292.96	
28	444329.65	3769307.00	FENCEGRD	292.14	
29	444428.00	3769310.04	FENCEGRD	291.86	
30	444526.36	3769313.09	FENCEGRD	288.70	
31	444624.72	3769316.13	FENCEGRD	291.40	
32	444723.08	3769319.17	FENCEGRD	291.26	
33	444821.44	3769322.22	FENCEGRD	291.46	
34	444919.80	3769325.26	FENCEGRD	291.53	
35	445018.16	3769328.30	FENCEGRD	291.36	
36	445116.52	3769331.35	FENCEGRD	290.70	
37	445214.88	3769334.39	FENCEGRD	289.57	
38	445313.23	3769337.43	FENCEGRD	291.58	
39	445411.59	3769340.48	FENCEGRD	291.76	
40	445509.95	3769343.52	FENCEGRD	292.57	
41	445608.31	3769346.56	FENCEGRD	293.10	
42	445706.67	3769349.61	FENCEGRD	293.56	
43	445805.03	3769352.65	FENCEGRD	294.01	
44	445903.39	3769355.69	FENCEGRD	294.18	
45	446001.75	3769358.74	FENCEGRD	293.96	
46	446100.11	3769361.78	FENCEGRD	294.26	
47	446198.46	3769364.82	FENCEGRD	294.75	
48	446296.82	3769367.87	FENCEGRD	297.03	
49	446395.18	3769370.91	FENCEGRD	297.05	
50	446493.54	3769373.95	FENCEGRD	296.62	
51	446591.90	3769377.00	FENCEGRD	296.25	
52	446690.26	3769380.04	FENCEGRD	295.39	
53	446788.62	3769383.08	FENCEGRD	295.28	
54	442359.37	3769346.08	FENCEGRD	298.06	
55	442457.73	3769349.13	FENCEGRD	297.98	
56	442556.09	3769352.17	FENCEGRD	297.70	
57	442654.45	3769355.21	FENCEGRD	297.59	
58	442752.81	3769358.26	FENCEGRD	297.41	
59	442851.17	3769361.30	FENCEGRD	297.26	
60	442949.53	3769364.34	FENCEGRD	297.40	
61	443047.89	3769367.39	FENCEGRD	297.39	
62	443146.25	3769370.43	FENCEGRD	297.17	
63	443244.60	3769373.47	FENCEGRD	296.57	
64	443342.96	3769376.52	FENCEGRD	296.52	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
65	443441.32	3769379.56	FENCEGRD	295.76	
66	443539.68	3769382.60	FENCEGRD	295.50	
67	443638.04	3769385.65	FENCEGRD	295.14	
68	443736.40	3769388.69	FENCEGRD	295.15	
69	443834.76	3769391.73	FENCEGRD	295.11	
70	443933.12	3769394.78	FENCEGRD	294.98	
71	444031.48	3769397.82	FENCEGRD	294.34	
72	444129.83	3769400.86	FENCEGRD	294.31	
73	444228.19	3769403.91	FENCEGRD	293.94	
74	444326.55	3769406.95	FENCEGRD	293.60	
75	444424.91	3769409.99	FENCEGRD	293.27	
76	444523.27	3769413.04	FENCEGRD	288.09	
77	444621.63	3769416.08	FENCEGRD	292.43	
78	444719.99	3769419.12	FENCEGRD	292.15	
79	444818.35	3769422.17	FENCEGRD	292.83	
80	444916.71	3769425.21	FENCEGRD	292.58	
81	445015.06	3769428.25	FENCEGRD	292.79	
82	445113.42	3769431.30	FENCEGRD	291.38	
83	445211.78	3769434.34	FENCEGRD	293.34	
84	445310.14	3769437.38	FENCEGRD	293.38	
85	445408.50	3769440.43	FENCEGRD	292.75	
86	445506.86	3769443.47	FENCEGRD	293.64	
87	445605.22	3769446.51	FENCEGRD	293.93	
88	445703.58	3769449.56	FENCEGRD	294.56	
89	445801.94	3769452.60	FENCEGRD	295.44	
90	445900.29	3769455.64	FENCEGRD	295.43	
91	445998.65	3769458.69	FENCEGRD	295.11	
92	446097.01	3769461.73	FENCEGRD	295.54	
93	446195.37	3769464.77	FENCEGRD	295.75	
94	446293.73	3769467.82	FENCEGRD	297.31	
95	446392.09	3769470.86	FENCEGRD	297.08	
96	446490.45	3769473.90	FENCEGRD	297.79	
97	446588.81	3769476.95	FENCEGRD	297.04	
98	446687.17	3769479.99	FENCEGRD	295.90	
99	446785.52	3769483.03	FENCEGRD	296.09	
100	446876.26	3769319.95	FENCEGRD	290.35	
101	446892.62	3769217.54	FENCEGRD	291.71	
102	446894.46	3769083.61	FENCEGRD	290.89	
103	446971.11	3769333.14	FENCEGRD	295.49	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
104	446881.80	3769446.13	FENCEGRD	295.04	
105	446992.61	3769218.91	FENCEGRD	291.42	
106	446994.45	3769084.99	FENCEGRD	290.83	
107	446795.14	3769182.24	FENCEGRD	292.23	
108	447116.09	3769180.10	FENCEGRD	290.96	
109	447116.75	3769280.10	FENCEGRD	292.79	
110	447238.06	3769170.14	FENCEGRD	292.18	
111	447365.14	3769110.65	FENCEGRD	290.47	
112	447238.72	3769270.14	FENCEGRD	292.42	
113	447343.99	3769230.96	FENCEGRD	291.98	
114	447471.07	3769171.48	FENCEGRD	291.31	
115	447464.97	3769052.05	FENCEGRD	289.64	
116	447563.71	3768926.15	FENCEGRD	287.34	
117	447543.65	3769113.77	FENCEGRD	291.35	
118	447642.40	3768987.86	FENCEGRD	287.24	
119	447623.47	3768837.55	FENCEGRD	286.49	
120	447644.60	3768709.44	FENCEGRD	284.96	
121	447719.46	3768856.53	FENCEGRD	286.94	
122	447744.06	3768719.88	FENCEGRD	286.40	
123	447876.30	3768690.91	FENCEGRD	285.73	
124	447875.25	3768598.55	FENCEGRD	285.40	
125	447874.19	3768506.19	FENCEGRD	283.84	
126	447873.14	3768413.83	FENCEGRD	281.99	
127	447872.08	3768321.47	FENCEGRD	280.08	
128	447871.02	3768229.11	FENCEGRD	280.84	
129	447869.97	3768136.75	FENCEGRD	279.60	
130	447868.91	3768044.39	FENCEGRD	278.78	
131	447948.47	3768760.13	FENCEGRD	287.37	
132	447851.48	3768861.23	FENCEGRD	287.79	
133	447975.24	3768597.40	FENCEGRD	285.49	
134	447974.19	3768505.04	FENCEGRD	283.98	
135	447973.13	3768412.68	FENCEGRD	282.52	
136	447972.07	3768320.32	FENCEGRD	280.72	
137	447971.02	3768227.96	FENCEGRD	280.23	
138	447969.96	3768135.60	FENCEGRD	279.55	
139	447968.91	3768043.24	FENCEGRD	279.23	
140	447972.17	3767911.79	FENCEGRD	277.33	
141	448056.61	3767965.35	FENCEGRD	278.21	
142	448171.48	3767810.19	FENCEGRD	276.73	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
143	448158.85	3767641.08	FENCEGRD	275.02	
144	448251.72	3767869.88	FENCEGRD	278.18	
145	448173.53	3767974.98	FENCEGRD	278.54	
146	448264.89	3767718.19	FENCEGRD	276.74	
147	448058.69	3767548.53	FENCEGRD	273.56	
148	447966.69	3767548.93	FENCEGRD	273.44	
149	447874.68	3767549.33	FENCEGRD	273.07	
150	447782.67	3767549.74	FENCEGRD	272.72	
151	447690.66	3767550.14	FENCEGRD	272.28	
152	447598.65	3767550.54	FENCEGRD	272.90	
153	448126.56	3767475.09	FENCEGRD	273.04	
154	448226.72	3767567.64	FENCEGRD	274.86	
155	447966.25	3767448.93	FENCEGRD	272.14	
156	447874.24	3767449.34	FENCEGRD	271.62	
157	447782.23	3767449.74	FENCEGRD	271.18	
158	447690.22	3767450.14	FENCEGRD	270.87	
159	447598.22	3767450.54	FENCEGRD	271.25	
160	447499.18	3767646.30	FENCEGRD	273.51	
161	447491.77	3767820.73	FENCEGRD	274.99	
162	447429.83	3767574.25	FENCEGRD	273.13	
163	447395.57	3767729.27	FENCEGRD	273.53	
164	447388.16	3767903.70	FENCEGRD	275.37	
165	447261.71	3767971.11	FENCEGRD	276.00	
166	447165.51	3767998.44	FENCEGRD	276.78	
167	447183.33	3767909.00	FENCEGRD	275.19	
168	447275.25	3767826.50	FENCEGRD	274.89	
169	447037.74	3767943.55	FENCEGRD	276.11	
170	447119.25	3767843.43	FENCEGRD	275.14	
171	447059.01	3767761.33	FENCEGRD	275.00	
172	447059.95	3767666.90	FENCEGRD	274.76	
173	447159.01	3767762.32	FENCEGRD	274.63	
174	447159.94	3767667.88	FENCEGRD	274.40	
175	446994.87	3767580.57	FENCEGRD	272.90	
176	446898.88	3767566.45	FENCEGRD	272.46	
177	447005.92	3767485.46	FENCEGRD	270.15	
178	447120.94	3767572.33	FENCEGRD	273.72	
179	446897.99	3767466.46	FENCEGRD	269.75	
180	446739.62	3767668.70	FENCEGRD	272.05	
181	446741.22	3767762.00	FENCEGRD	273.02	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
182	446742.82	3767855.29	FENCEGRD	273.97	
183	446744.42	3767948.59	FENCEGRD	274.90	
184	446668.00	3767598.92	FENCEGRD	270.03	
185	446767.09	3767497.21	FENCEGRD	269.85	
186	446641.24	3767763.71	FENCEGRD	273.03	
187	446642.83	3767857.00	FENCEGRD	273.96	
188	446644.43	3767950.30	FENCEGRD	274.89	
189	446461.78	3767943.43	FENCEGRD	274.75	
190	446365.93	3767944.24	FENCEGRD	274.72	
191	446270.09	3767945.05	FENCEGRD	274.68	
192	446174.25	3767945.86	FENCEGRD	275.92	
193	446078.40	3767946.68	FENCEGRD	275.92	
194	445982.56	3767947.49	FENCEGRD	274.67	
195	445886.72	3767948.30	FENCEGRD	273.56	
196	445790.87	3767949.12	FENCEGRD	273.21	
197	445695.03	3767949.93	FENCEGRD	273.33	
198	445599.19	3767950.74	FENCEGRD	272.70	
199	445503.34	3767951.55	FENCEGRD	274.16	
200	445407.50	3767952.37	FENCEGRD	274.39	
201	445311.66	3767953.18	FENCEGRD	273.94	
202	445215.81	3767953.99	FENCEGRD	275.38	
203	446460.93	3767843.43	FENCEGRD	273.77	
204	446365.09	3767844.24	FENCEGRD	273.75	
205	446269.24	3767845.05	FENCEGRD	273.53	
206	446173.40	3767845.87	FENCEGRD	274.90	
207	446077.56	3767846.68	FENCEGRD	274.18	
208	445981.71	3767847.49	FENCEGRD	273.82	
209	445885.87	3767848.31	FENCEGRD	272.63	
210	445790.02	3767849.12	FENCEGRD	272.45	
211	445694.18	3767849.93	FENCEGRD	272.43	
212	445598.34	3767850.75	FENCEGRD	272.20	
213	445502.49	3767851.56	FENCEGRD	273.34	
214	445406.65	3767852.37	FENCEGRD	273.34	
215	445310.81	3767853.18	FENCEGRD	273.42	
216	445214.96	3767854.00	FENCEGRD	274.03	
217	445316.53	3768048.95	FENCEGRD	275.84	
218	445300.41	3767729.24	FENCEGRD	273.28	
219	445416.41	3768043.92	FENCEGRD	276.27	
220	445400.29	3767724.21	FENCEGRD	273.28	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
221	445196.51	3767554.35	FENCEGRD	271.55	
222	445096.88	3767554.35	FENCEGRD	270.81	
223	444997.25	3767554.35	FENCEGRD	270.53	
224	444897.62	3767554.35	FENCEGRD	270.51	
225	444797.99	3767554.35	FENCEGRD	270.72	
226	444698.36	3767554.35	FENCEGRD	271.00	
227	444598.73	3767554.35	FENCEGRD	268.36	
228	445265.42	3767481.88	FENCEGRD	270.05	
229	445365.29	3767576.85	FENCEGRD	270.83	
230	445096.88	3767454.35	FENCEGRD	269.67	
231	444997.25	3767454.35	FENCEGRD	268.83	
232	444897.62	3767454.35	FENCEGRD	269.32	
233	444797.99	3767454.35	FENCEGRD	269.60	
234	444698.36	3767454.35	FENCEGRD	270.76	
235	444598.73	3767454.35	FENCEGRD	268.35	
236	444698.57	3767648.70	FENCEGRD	271.62	
237	444459.41	3767419.65	FENCEGRD	269.73	
238	444366.71	3767456.03	FENCEGRD	270.74	
239	444274.00	3767492.40	FENCEGRD	271.08	
240	444181.29	3767528.78	FENCEGRD	271.23	
241	444088.58	3767565.16	FENCEGRD	271.27	
242	443995.87	3767601.54	FENCEGRD	272.07	
243	443903.17	3767637.92	FENCEGRD	272.30	
244	443810.46	3767674.30	FENCEGRD	273.08	
245	443717.75	3767710.67	FENCEGRD	274.01	
246	443625.04	3767747.05	FENCEGRD	274.06	
247	443532.33	3767783.43	FENCEGRD	274.52	
248	443439.62	3767819.81	FENCEGRD	275.29	
249	443346.92	3767856.19	FENCEGRD	275.85	
250	443254.21	3767892.56	FENCEGRD	276.28	
251	443161.50	3767928.94	FENCEGRD	277.38	
252	443068.79	3767965.32	FENCEGRD	277.28	
253	442976.08	3768001.70	FENCEGRD	277.69	
254	442883.38	3768038.08	FENCEGRD	277.30	
255	442790.67	3768074.45	FENCEGRD	277.90	
256	442697.96	3768110.83	FENCEGRD	279.57	
257	442605.25	3768147.21	FENCEGRD	280.19	
258	442512.54	3768183.59	FENCEGRD	280.75	
259	442419.84	3768219.97	FENCEGRD	282.16	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
260	442327.13	3768256.35	FENCEGRD	282.78	
261	442234.42	3768292.72	FENCEGRD	282.44	
262	442141.71	3768329.10	FENCEGRD	284.38	
263	442049.00	3768365.48	FENCEGRD	284.97	
264	441956.29	3768401.86	FENCEGRD	285.18	
265	441863.59	3768438.24	FENCEGRD	286.53	
266	441770.88	3768474.61	FENCEGRD	286.87	
267	441678.17	3768510.99	FENCEGRD	287.90	
268	441585.46	3768547.37	FENCEGRD	288.72	
269	444606.10	3767299.09	FENCEGRD	267.46	
270	444515.59	3767290.18	FENCEGRD	268.16	
271	444422.89	3767326.56	FENCEGRD	268.40	
272	444330.18	3767362.94	FENCEGRD	268.81	
273	444237.47	3767399.31	FENCEGRD	269.66	
274	444144.76	3767435.69	FENCEGRD	270.11	
275	444052.05	3767472.07	FENCEGRD	269.97	
276	443959.35	3767508.45	FENCEGRD	270.77	
277	443866.64	3767544.83	FENCEGRD	271.51	
278	443773.93	3767581.21	FENCEGRD	272.55	
279	443681.22	3767617.58	FENCEGRD	272.39	
280	443588.51	3767653.96	FENCEGRD	273.26	
281	443495.80	3767690.34	FENCEGRD	273.90	
282	443403.10	3767726.72	FENCEGRD	275.05	
283	443310.39	3767763.10	FENCEGRD	275.34	
284	443217.68	3767799.47	FENCEGRD	275.30	
285	443124.97	3767835.85	FENCEGRD	275.46	
286	443032.26	3767872.23	FENCEGRD	275.86	
287	442939.56	3767908.61	FENCEGRD	276.66	
288	442846.85	3767944.99	FENCEGRD	276.04	
289	442754.14	3767981.36	FENCEGRD	276.27	
290	442661.43	3768017.74	FENCEGRD	275.74	
291	442568.72	3768054.12	FENCEGRD	277.44	
292	442476.02	3768090.50	FENCEGRD	279.80	
293	442383.31	3768126.88	FENCEGRD	281.16	
294	442290.60	3768163.26	FENCEGRD	281.44	
295	442197.89	3768199.63	FENCEGRD	281.69	
296	442105.18	3768236.01	FENCEGRD	283.29	
297	442012.47	3768272.39	FENCEGRD	283.44	
298	441919.77	3768308.77	FENCEGRD	283.63	

Receptor Pathway

AERMOD

Record Number	Location: X-Coord. [m]	Location: Y-Coord. [m]	Group Name (Optional)	Terrain Elevations (Optional)	Flagpole Heights [m] (Optional)
299	441827.06	3768345.15	FENCEGRD	285.27	
300	441734.35	3768381.52	FENCEGRD	286.01	
301	441641.64	3768417.90	FENCEGRD	287.38	
302	441548.93	3768454.28	FENCEGRD	288.18	
303	441522.03	3768637.47	FENCEGRD	290.40	
304	441517.87	3768776.55	FENCEGRD	292.45	
305	441440.26	3768579.91	FENCEGRD	289.83	
306	441420.00	3768704.02	FENCEGRD	291.90	
307	441608.21	3768872.45	FENCEGRD	293.18	
308	441615.34	3768971.02	FENCEGRD	294.51	
309	441526.05	3768940.86	FENCEGRD	294.70	
310	441454.19	3768860.54	FENCEGRD	293.45	
311	441728.66	3768902.09	FENCEGRD	292.71	
312	441906.14	3768902.71	FENCEGRD	292.34	
313	441728.31	3769002.09	FENCEGRD	293.86	
314	441905.79	3769002.70	FENCEGRD	293.65	
315	442258.71	3768863.11	FENCEGRD	290.78	

Meteorology Pathway

Met Input Data

Surface Met Data

Filename: KONT_v9.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: KONT_v9.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 289.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2012			
Upper Air		2012			

Data Period

Data Period to Process

Start Date: 1/1/2012 Start Hour: 1 End Date: 12/31/2016 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: ONT Disp.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

Appendix B

Risk Modeling Input/Output

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2023 No Action

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	110368	2642	2.39%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	55184	2.64932	15.51781	0.0281%
Ground Roll	93.5	55184	3.38866	15.51781	0.0281%
Climb to Mix	188	55184	6.81357	15.51781	0.0281%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from Mix	60.9	55184	0.79016	15.13699	0.0274%
Ground Roll	29.2	55184	1.05828	15.13699	0.0274%
Taxi In	28.6	55184	1.03653	15.13699	0.0274%

2023 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	14032	106990	1,3-Butadiene	0.01687	627.146	0.176354
D08TX	14032	75070	Acetaldehyde	0.04272	1588.126	0.446583
D08TX	14032	107028	Acrolein	0.02449	910.422	0.256012
D08TX	14032	71432	Benzene	0.01681	624.916	0.175727
D08TX	14032	100414	Ethyl benzene	0.00174	64.685	0.018189
D08TX	14032	50000	Formaldehyde	0.1231	4576.272	1.286853
D08TX	14032	67561	Methanol	0.01805	671.013	0.188690
D08TX	14032	108383	m-Xylene	0.00282	104.834	0.029479
D08TX	14032	91203	Naphthalene	0.00541	201.118	0.056555
D08TX	14032	95476	o-Xylene	0.00166	61.711	0.017353
D08TX	14032	108952	Phenol	0.00726	269.892	0.075894
D08TX	14032	123386	Propionaldehyde	0.00727	270.264	0.075999
D08TX	14032	100425	Styrene	0.00309	114.871	0.032302
D08TX	14032	108883	Toluene	0.00642	238.665	0.067113
D08TX	336	7439921	Lead		0.527	0.000148
D26TX	40666	106990	1,3-Butadiene	0.01687	1817.526	0.511091
D26TX	40666	75070	Acetaldehyde	0.04272	4602.533	1.294238
D26TX	40666	107028	Acrolein	0.02449	2638.484	0.741945
D26TX	40666	71432	Benzene	0.01681	1811.062	0.509273
D26TX	40666	100414	Ethyl benzene	0.00174	187.463	0.052715
D26TX	40666	50000	Formaldehyde	0.1231	13262.448	3.729417
D26TX	40666	67561	Methanol	0.01805	1944.656	0.546840
D26TX	40666	108383	m-Xylene	0.00282	303.819	0.085434
D26TX	40666	91203	Naphthalene	0.00541	582.858	0.163900
D26TX	40666	95476	o-Xylene	0.00166	178.844	0.050291

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2023 Project

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	110368	2642	2.39%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	59.6	55184	2.16005	15.51781	0.0281%
Ground Roll	79.9	55184	2.89577	15.51781	0.0281%
Climb to Mix	161	55184	5.83502	15.51781	0.0281%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from M	65.6	55184	0.85115	15.13699	0.0274%
Ground Roll	31.6	55184	1.14526	15.13699	0.0274%
Taxi In	26.7	55184	0.96767	15.13699	0.0274%

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	5199	106990	1,3-Butadiene	0.01687	189.451	0.053274
D08TX	5199	75070	Acetaldehyde	0.04272	479.749	0.134906
D08TX	5199	107028	Acrolein	0.02449	275.025	0.077337
D08TX	5199	71432	Benzene	0.01681	188.778	0.053085
D08TX	5199	100414	Ethyl benzene	0.00174	19.540	0.005495
D08TX	5199	50000	Formaldehyde	0.1231	1382.423	0.388739
D08TX	5199	67561	Methanol	0.01805	202.703	0.057000
D08TX	5199	108383	m-Xylene	0.00282	31.669	0.008905
D08TX	5199	91203	Naphthalene	0.00541	60.755	0.017084
D08TX	5199	95476	o-Xylene	0.00166	18.642	0.005242
D08TX	5199	108952	Phenol	0.00726	81.530	0.022926
D08TX	5199	123386	Propionaldehyde	0.00727	81.643	0.022958
D08TX	5199	100425	Styrene	0.00309	34.701	0.009758
D08TX	5199	108883	Toluene	0.00642	72.097	0.020274
D08TX	124	7439921	Lead		0.195	0.000055
D26TX	49499	106990	1,3-Butadiene	0.01687	1803.743	0.507215
D26TX	49499	75070	Acetaldehyde	0.04272	4567.628	1.284423
D26TX	49499	107028	Acrolein	0.02449	2618.474	0.736318
D26TX	49499	71432	Benzene	0.01681	1797.327	0.505411
D26TX	49499	100414	Ethyl benzene	0.00174	186.041	0.052315
D26TX	49499	50000	Formaldehyde	0.1231	13161.869	3.701134

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26TX	49499	67561	Methanol	0.01805	1929.908	0.542693
D26TX	49499	108383	m-Xylene	0.00282	301.515	0.084786
D26TX	49499	91203	Naphthalene	0.00541	578.438	0.162657
D26TX	49499	95476	o-Xylene	0.00166	177.487	0.049910
D26TX	49499	108952	Phenol	0.00726	776.240	0.218280
D26TX	49499	123386	Propionaldehyde	0.00727	777.309	0.218580
D26TX	49499	100425	Styrene	0.00309	330.383	0.092904
D26TX	49499	108883	Toluene	0.00642	686.427	0.193024
D26TX	1185	7439921	Lead		1.858	0.000522
D08LGR	2637	106990	1,3-Butadiene	0.01687	128.822	0.036225
D08LGR	2637	75070	Acetaldehyde	0.04272	326.216	0.091732
D08LGR	2637	107028	Acrolein	0.02449	187.009	0.052587
D08LGR	2637	71432	Benzene	0.01681	128.363	0.036096
D08LGR	2637	100414	Ethyl benzene	0.00174	13.287	0.003736
D08LGR	2637	50000	Formaldehyde	0.1231	940.008	0.264332
D08LGR	2637	67561	Methanol	0.01805	137.832	0.038759
D08LGR	2637	108383	m-Xylene	0.00282	21.534	0.006055
D08LGR	2637	91203	Naphthalene	0.00541	41.312	0.011617
D08LGR	2637	95476	o-Xylene	0.00166	12.676	0.003565
D08LGR	2637	108952	Phenol	0.00726	55.438	0.015589
D08LGR	2637	123386	Propionaldehyde	0.00727	55.515	0.015611
D08LGR	2637	100425	Styrene	0.00309	23.596	0.006635
D08LGR	2637	108883	Toluene	0.00642	49.024	0.013786
D08LGR	63	7439921	Lead		0.163	0.000046
D08RGR	2562	106990	1,3-Butadiene	0.01687	125.158	0.035195
D08RGR	2562	75070	Acetaldehyde	0.04272	316.938	0.089123
D08RGR	2562	107028	Acrolein	0.02449	181.690	0.051092
D08RGR	2562	71432	Benzene	0.01681	124.713	0.035069
D08RGR	2562	100414	Ethyl benzene	0.00174	12.909	0.003630
D08RGR	2562	50000	Formaldehyde	0.1231	913.273	0.256814
D08RGR	2562	67561	Methanol	0.01805	133.912	0.037656
D08RGR	2562	108383	m-Xylene	0.00282	20.921	0.005883
D08RGR	2562	91203	Naphthalene	0.00541	40.137	0.011286
D08RGR	2562	95476	o-Xylene	0.00166	12.315	0.003463
D08RGR	2562	108952	Phenol	0.00726	53.862	0.015146
D08RGR	2562	123386	Propionaldehyde	0.00727	53.936	0.015167
D08RGR	2562	100425	Styrene	0.00309	22.925	0.006446
D08RGR	2562	108883	Toluene	0.00642	47.630	0.013394
D08RGR	61	7439921	Lead		0.158	0.000045
D26LGR	21553	106990	1,3-Butadiene	0.01687	1052.898	0.296076
D26LGR	21553	75070	Acetaldehyde	0.04272	2666.260	0.749756
D26LGR	21553	107028	Acrolein	0.02449	1528.481	0.429811
D26LGR	21553	71432	Benzene	0.01681	1049.154	0.295023

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LGR	21553	100414	Ethyl benzene	0.00174	108.598	0.030538
D26LGR	21553	50000	Formaldehyde	0.1231	7682.974	2.160462
D26LGR	21553	67561	Methanol	0.01805	1126.545	0.316786
D26LGR	21553	108383	m-Xylene	0.00282	176.003	0.049492
D26LGR	21553	91203	Naphthalene	0.00541	337.651	0.094948
D26LGR	21553	95476	o-Xylene	0.00166	103.605	0.029134
D26LGR	21553	108952	Phenol	0.00726	453.114	0.127416
D26LGR	21553	123386	Propionaldehyde	0.00727	453.739	0.127592
D26LGR	21553	100425	Styrene	0.00309	192.855	0.054231
D26LGR	21553	108883	Toluene	0.00642	400.688	0.112674
D26LGR	516	7439921	Lead		1.333	0.000375
D26RGR	27946	106990	1,3-Butadiene	0.01687	1365.206	0.383898
D26RGR	27946	75070	Acetaldehyde	0.04272	3457.120	0.972146
D26RGR	27946	107028	Acrolein	0.02449	1981.856	0.557300
D26RGR	27946	71432	Benzene	0.01681	1360.351	0.382532
D26RGR	27946	100414	Ethyl benzene	0.00174	140.810	0.039596
D26RGR	27946	50000	Formaldehyde	0.1231	9961.880	2.801293
D26RGR	27946	67561	Methanol	0.01805	1460.698	0.410750
D26RGR	27946	108383	m-Xylene	0.00282	228.209	0.064173
D26RGR	27946	91203	Naphthalene	0.00541	437.805	0.123111
D26RGR	27946	95476	o-Xylene	0.00166	134.336	0.037775
D26RGR	27946	108952	Phenol	0.00726	587.516	0.165210
D26RGR	27946	123386	Propionaldehyde	0.00727	588.325	0.165438
D26RGR	27946	100425	Styrene	0.00309	250.059	0.070317
D26RGR	27946	108883	Toluene	0.00642	519.539	0.146095
D26RGR	669	7439921	Lead		1.728	0.000486
D08LRC	2500	106990	1,3-Butadiene	0.01687	246.092	0.069201
D08LRC	2500	75070	Acetaldehyde	0.04272	623.181	0.175239
D08LRC	2500	107028	Acrolein	0.02449	357.249	0.100459
D08LRC	2500	71432	Benzene	0.01681	245.217	0.068955
D08LRC	2500	100414	Ethyl benzene	0.00174	25.382	0.007138
D08LRC	2500	50000	Formaldehyde	0.1231	1795.729	0.504961
D08LRC	2500	67561	Methanol	0.01805	263.305	0.074042
D08LRC	2500	108383	m-Xylene	0.00282	41.137	0.011568
D08LRC	2500	91203	Naphthalene	0.00541	78.919	0.022192
D08LRC	2500	95476	o-Xylene	0.00166	24.215	0.006809
D08LRC	2500	108952	Phenol	0.00726	105.906	0.029781
D08LRC	2500	123386	Propionaldehyde	0.00727	106.052	0.029822
D08LRC	2500	100425	Styrene	0.00309	45.076	0.012675
D08LRC	2500	108883	Toluene	0.00642	93.652	0.026335
D08LRC	60	7439921	Lead		0.416	0.000117
D08LSO	137	106990	1,3-Butadiene	0.01687	13.486	0.003792
D08LSO	137	75070	Acetaldehyde	0.04272	34.150	0.009603

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08LSO	137	107028	Acrolein	0.02449	19.577	0.005505
D08LSO	137	71432	Benzene	0.01681	13.438	0.003779
D08LSO	137	100414	Ethyl benzene	0.00174	1.391	0.000391
D08LSO	137	50000	Formaldehyde	0.1231	98.406	0.027672
D08LSO	137	67561	Methanol	0.01805	14.429	0.004057
D08LSO	137	108383	m-Xylene	0.00282	2.254	0.000634
D08LSO	137	91203	Naphthalene	0.00541	4.325	0.001216
D08LSO	137	95476	o-Xylene	0.00166	1.327	0.000373
D08LSO	137	108952	Phenol	0.00726	5.804	0.001632
D08LSO	137	123386	Propionaldehyde	0.00727	5.812	0.001634
D08LSO	137	100425	Styrene	0.00309	2.470	0.000695
D08LSO	137	108883	Toluene	0.00642	5.132	0.001443
D08LSO	3	7439921	Lead		0.023	0.000006
D08RRC	2562	106990	1,3-Butadiene	0.01687	252.195	0.070918
D08RRC	2562	75070	Acetaldehyde	0.04272	638.636	0.179585
D08RRC	2562	107028	Acrolein	0.02449	366.109	0.102950
D08RRC	2562	71432	Benzene	0.01681	251.298	0.070665
D08RRC	2562	100414	Ethyl benzene	0.00174	26.012	0.007315
D08RRC	2562	50000	Formaldehyde	0.1231	1840.263	0.517484
D08RRC	2562	67561	Methanol	0.01805	269.835	0.075878
D08RRC	2562	108383	m-Xylene	0.00282	42.157	0.011855
D08RRC	2562	91203	Naphthalene	0.00541	80.876	0.022742
D08RRC	2562	95476	o-Xylene	0.00166	24.816	0.006978
D08RRC	2562	108952	Phenol	0.00726	108.532	0.030519
D08RRC	2562	123386	Propionaldehyde	0.00727	108.682	0.030561
D08RRC	2562	100425	Styrene	0.00309	46.193	0.012990
D08RRC	2562	108883	Toluene	0.00642	95.975	0.026988
D08RRC	61	7439921	Lead		0.427	0.000120
D26LLC	9590	106990	1,3-Butadiene	0.01687	944.010	0.265457
D26LLC	9590	75070	Acetaldehyde	0.04272	2390.521	0.672217
D26LLC	9590	107028	Acrolein	0.02449	1370.409	0.385361
D26LLC	9590	71432	Benzene	0.01681	940.652	0.264513
D26LLC	9590	100414	Ethyl benzene	0.00174	97.367	0.027380
D26LLC	9590	50000	Formaldehyde	0.1231	6888.416	1.937031
D26LLC	9590	67561	Methanol	0.01805	1010.040	0.284024
D26LLC	9590	108383	m-Xylene	0.00282	157.801	0.044374
D26LLC	9590	91203	Naphthalene	0.00541	302.732	0.085129
D26LLC	9590	95476	o-Xylene	0.00166	92.890	0.026121
D26LLC	9590	108952	Phenol	0.00726	406.254	0.114239
D26LLC	9590	123386	Propionaldehyde	0.00727	406.814	0.114397
D26LLC	9590	100425	Styrene	0.00309	172.910	0.048622
D26LLC	9590	108883	Toluene	0.00642	359.250	0.101021
D26LLC	230	7439921	Lead		1.597	0.000449

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LRT	440	106990	1,3-Butadiene	0.01687	43.312	0.012179
D26LRT	440	75070	Acetaldehyde	0.04272	109.680	0.030842
D26LRT	440	107028	Acrolein	0.02449	62.876	0.017681
D26LRT	440	71432	Benzene	0.01681	43.158	0.012136
D26LRT	440	100414	Ethyl benzene	0.00174	4.467	0.001256
D26LRT	440	50000	Formaldehyde	0.1231	316.048	0.088873
D26LRT	440	67561	Methanol	0.01805	46.342	0.013031
D26LRT	440	108383	m-Xylene	0.00282	7.240	0.002036
D26LRT	440	91203	Naphthalene	0.00541	13.890	0.003906
D26LRT	440	95476	o-Xylene	0.00166	4.262	0.001198
D26LRT	440	108952	Phenol	0.00726	18.639	0.005241
D26LRT	440	123386	Propionaldehyde	0.00727	18.665	0.005249
D26LRT	440	100425	Styrene	0.00309	7.933	0.002231
D26LRT	440	108883	Toluene	0.00642	16.483	0.004635
D26LRT	11	7439921	Lead		0.073	0.000021
D26LSO	11523	106990	1,3-Butadiene	0.01687	1134.288	0.318963
D26LSO	11523	75070	Acetaldehyde	0.04272	2872.364	0.807712
D26LSO	11523	107028	Acrolein	0.02449	1646.634	0.463035
D26LSO	11523	71432	Benzene	0.01681	1130.254	0.317829
D26LSO	11523	100414	Ethyl benzene	0.00174	116.992	0.032898
D26LSO	11523	50000	Formaldehyde	0.1231	8276.873	2.327467
D26LSO	11523	67561	Methanol	0.01805	1213.628	0.341274
D26LSO	11523	108383	m-Xylene	0.00282	189.608	0.053318
D26LSO	11523	91203	Naphthalene	0.00541	363.752	0.102288
D26LSO	11523	95476	o-Xylene	0.00166	111.613	0.031386
D26LSO	11523	108952	Phenol	0.00726	488.141	0.137266
D26LSO	11523	123386	Propionaldehyde	0.00727	488.813	0.137455
D26LSO	11523	100425	Styrene	0.00309	207.762	0.058423
D26LSO	11523	108883	Toluene	0.00642	431.661	0.121384
D26LSO	276	7439921	Lead		1.919	0.000540
D26RLC	11928	106990	1,3-Butadiene	0.01687	1174.155	0.330174
D26RLC	11928	75070	Acetaldehyde	0.04272	2973.319	0.836101
D26RLC	11928	107028	Acrolein	0.02449	1704.508	0.479310
D26RLC	11928	71432	Benzene	0.01681	1169.979	0.329000
D26RLC	11928	100414	Ethyl benzene	0.00174	121.104	0.034055
D26RLC	11928	50000	Formaldehyde	0.1231	8567.781	2.409271
D26RLC	11928	67561	Methanol	0.01805	1256.283	0.353268
D26RLC	11928	108383	m-Xylene	0.00282	196.272	0.055192
D26RLC	11928	91203	Naphthalene	0.00541	376.537	0.105883
D26RLC	11928	95476	o-Xylene	0.00166	115.536	0.032489
D26RLC	11928	108952	Phenol	0.00726	505.297	0.142090
D26RLC	11928	123386	Propionaldehyde	0.00727	505.993	0.142286
D26RLC	11928	100425	Styrene	0.00309	215.065	0.060476

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26RLC	11928	108883	Toluene	0.00642	446.833	0.125650
D26RLC	286	7439921	Lead		1.986	0.000559
D26RRT	833	106990	1,3-Butadiene	0.01687	81.998	0.023058
D26RRT	833	75070	Acetaldehyde	0.04272	207.644	0.058390
D26RRT	833	107028	Acrolein	0.02449	119.035	0.033473
D26RRT	833	71432	Benzene	0.01681	81.706	0.022976
D26RRT	833	100414	Ethyl benzene	0.00174	8.457	0.002378
D26RRT	833	50000	Formaldehyde	0.1231	598.337	0.168253
D26RRT	833	67561	Methanol	0.01805	87.733	0.024671
D26RRT	833	108383	m-Xylene	0.00282	13.707	0.003854
D26RRT	833	91203	Naphthalene	0.00541	26.296	0.007394
D26RRT	833	95476	o-Xylene	0.00166	8.069	0.002269
D26RRT	833	108952	Phenol	0.00726	35.288	0.009923
D26RRT	833	123386	Propionaldehyde	0.00727	35.336	0.009937
D26RRT	833	100425	Styrene	0.00309	15.019	0.004223
D26RRT	833	108883	Toluene	0.00642	31.205	0.008775
D26RRT	20	7439921	Lead		0.139	0.000039
D26RSO	15184	106990	1,3-Butadiene	0.01687	1494.665	0.420302
D26RSO	15184	75070	Acetaldehyde	0.04272	3784.950	1.064333
D26RSO	15184	107028	Acrolein	0.02449	2169.790	0.610148
D26RSO	15184	71432	Benzene	0.01681	1489.349	0.418807
D26RSO	15184	100414	Ethyl benzene	0.00174	154.162	0.043351
D26RSO	15184	50000	Formaldehyde	0.1231	10906.539	3.066932
D26RSO	15184	67561	Methanol	0.01805	1599.212	0.449700
D26RSO	15184	108383	m-Xylene	0.00282	249.849	0.070258
D26RSO	15184	91203	Naphthalene	0.00541	479.321	0.134786
D26RSO	15184	95476	o-Xylene	0.00166	147.074	0.041357
D26RSO	15184	108952	Phenol	0.00726	643.229	0.180877
D26RSO	15184	123386	Propionaldehyde	0.00727	644.115	0.181126
D26RSO	15184	100425	Styrene	0.00309	273.771	0.076985
D26RSO	15184	108883	Toluene	0.00642	568.806	0.159949
D26RSO	363	7439921	Lead		2.529	0.000711
A08LSI	1998	106990	1,3-Butadiene	0.01687	10.268	0.002817
A08LSI	1998	75070	Acetaldehyde	0.04272	26.002	0.007132
A08LSI	1998	107028	Acrolein	0.02449	14.906	0.004089
A08LSI	1998	71432	Benzene	0.01681	10.232	0.002807
A08LSI	1998	100414	Ethyl benzene	0.00174	1.059	0.000291
A08LSI	1998	50000	Formaldehyde	0.1231	74.926	0.020552
A08LSI	1998	67561	Methanol	0.01805	10.986	0.003014
A08LSI	1998	108383	m-Xylene	0.00282	1.716	0.000471
A08LSI	1998	91203	Naphthalene	0.00541	3.293	0.000903
A08LSI	1998	95476	o-Xylene	0.00166	1.010	0.000277
A08LSI	1998	108952	Phenol	0.00726	4.419	0.001212

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A08LSI	1998	123386	Propionaldehyde	0.00727	4.425	0.001214
A08LSI	1998	100425	Styrene	0.00309	1.881	0.000516
A08LSI	1998	108883	Toluene	0.00642	3.908	0.001072
A08LSI	48	7439921	Lead		0.056	0.000015
A08RSI	1288	106990	1,3-Butadiene	0.01687	6.619	0.001816
A08RSI	1288	75070	Acetaldehyde	0.04272	16.762	0.004598
A08RSI	1288	107028	Acrolein	0.02449	9.609	0.002636
A08RSI	1288	71432	Benzene	0.01681	6.596	0.001809
A08RSI	1288	100414	Ethyl benzene	0.00174	0.683	0.000187
A08RSI	1288	50000	Formaldehyde	0.1231	48.300	0.013249
A08RSI	1288	67561	Methanol	0.01805	7.082	0.001943
A08RSI	1288	108383	m-Xylene	0.00282	1.106	0.000304
A08RSI	1288	91203	Naphthalene	0.00541	2.123	0.000582
A08RSI	1288	95476	o-Xylene	0.00166	0.651	0.000179
A08RSI	1288	108952	Phenol	0.00726	2.849	0.000781
A08RSI	1288	123386	Propionaldehyde	0.00727	2.853	0.000782
A08RSI	1288	100425	Styrene	0.00309	1.212	0.000333
A08RSI	1288	108883	Toluene	0.00642	2.519	0.000691
A08RSI	31	7439921	Lead		0.036	0.000010
A26LSI	23344	106990	1,3-Butadiene	0.01687	119.969	0.032907
A26LSI	23344	75070	Acetaldehyde	0.04272	303.797	0.083332
A26LSI	23344	107028	Acrolein	0.02449	174.157	0.047771
A26LSI	23344	71432	Benzene	0.01681	119.542	0.032790
A26LSI	23344	100414	Ethyl benzene	0.00174	12.374	0.003394
A26LSI	23344	50000	Formaldehyde	0.1231	875.408	0.240125
A26LSI	23344	67561	Methanol	0.01805	128.360	0.035209
A26LSI	23344	108383	m-Xylene	0.00282	20.054	0.005501
A26LSI	23344	91203	Naphthalene	0.00541	38.472	0.010553
A26LSI	23344	95476	o-Xylene	0.00166	11.805	0.003238
A26LSI	23344	108952	Phenol	0.00726	51.628	0.014162
A26LSI	23344	123386	Propionaldehyde	0.00727	51.700	0.014181
A26LSI	23344	100425	Styrene	0.00309	21.974	0.006028
A26LSI	23344	108883	Toluene	0.00642	45.655	0.012523
A26LSI	559	7439921	Lead		0.659	0.000181
A26RSI	28068	106990	1,3-Butadiene	0.01687	144.246	0.039567
A26RSI	28068	75070	Acetaldehyde	0.04272	365.275	0.100195
A26RSI	28068	107028	Acrolein	0.02449	209.400	0.057439
A26RSI	28068	71432	Benzene	0.01681	143.733	0.039426
A26RSI	28068	100414	Ethyl benzene	0.00174	14.878	0.004081
A26RSI	28068	50000	Formaldehyde	0.1231	1052.560	0.288717
A26RSI	28068	67561	Methanol	0.01805	154.336	0.042334
A26RSI	28068	108383	m-Xylene	0.00282	24.112	0.006614
A26RSI	28068	91203	Naphthalene	0.00541	46.258	0.012689

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26RSI	28068	95476	o-Xylene	0.00166	14.194	0.003893
A26RSI	28068	108952	Phenol	0.00726	62.076	0.017028
A26RSI	28068	123386	Propionaldehyde	0.00727	62.162	0.017051
A26RSI	28068	100425	Styrene	0.00309	26.421	0.007247
A26RSI	28068	108883	Toluene	0.00642	54.894	0.015057
A26RSI	672	7439921	Lead		0.792	0.000217
A08LGR	1998	106990	1,3-Butadiene	0.01687	13.816	0.003790
A08LGR	1998	75070	Acetaldehyde	0.04272	34.987	0.009597
A08LGR	1998	107028	Acrolein	0.02449	20.057	0.005502
A08LGR	1998	71432	Benzene	0.01681	13.767	0.003776
A08LGR	1998	100414	Ethyl benzene	0.00174	1.425	0.000391
A08LGR	1998	50000	Formaldehyde	0.1231	100.816	0.027654
A08LGR	1998	67561	Methanol	0.01805	14.783	0.004055
A08LGR	1998	108383	m-Xylene	0.00282	2.310	0.000634
A08LGR	1998	91203	Naphthalene	0.00541	4.431	0.001215
A08LGR	1998	95476	o-Xylene	0.00166	1.360	0.000373
A08LGR	1998	108952	Phenol	0.00726	5.946	0.001631
A08LGR	1998	123386	Propionaldehyde	0.00727	5.954	0.001633
A08LGR	1998	100425	Styrene	0.00309	2.531	0.000694
A08LGR	1998	108883	Toluene	0.00642	5.258	0.001442
A08LGR	48	7439921	Lead		0.046	0.000013
A08RGR	1288	106990	1,3-Butadiene	0.01687	8.907	0.002443
A08RGR	1288	75070	Acetaldehyde	0.04272	22.554	0.006187
A08RGR	1288	107028	Acrolein	0.02449	12.930	0.003547
A08RGR	1288	71432	Benzene	0.01681	8.875	0.002434
A08RGR	1288	100414	Ethyl benzene	0.00174	0.919	0.000252
A08RGR	1288	50000	Formaldehyde	0.1231	64.991	0.017827
A08RGR	1288	67561	Methanol	0.01805	9.530	0.002614
A08RGR	1288	108383	m-Xylene	0.00282	1.489	0.000408
A08RGR	1288	91203	Naphthalene	0.00541	2.856	0.000783
A08RGR	1288	95476	o-Xylene	0.00166	0.876	0.000240
A08RGR	1288	108952	Phenol	0.00726	3.833	0.001051
A08RGR	1288	123386	Propionaldehyde	0.00727	3.838	0.001053
A08RGR	1288	100425	Styrene	0.00309	1.631	0.000447
A08RGR	1288	108883	Toluene	0.00642	3.389	0.000930
A08RGR	31	7439921	Lead		0.030	0.000008
A26LGR	23344	106990	1,3-Butadiene	0.01687	161.424	0.044279
A26LGR	23344	75070	Acetaldehyde	0.04272	408.775	0.112127
A26LGR	23344	107028	Acrolein	0.02449	234.337	0.064279
A26LGR	23344	71432	Benzene	0.01681	160.850	0.044121
A26LGR	23344	100414	Ethyl benzene	0.00174	16.650	0.004567
A26LGR	23344	50000	Formaldehyde	0.1231	1177.907	0.323100
A26LGR	23344	67561	Methanol	0.01805	172.715	0.047376

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26LGR	23344	108383	m-Xylene	0.00282	26.984	0.007402
A26LGR	23344	91203	Naphthalene	0.00541	51.767	0.014200
A26LGR	23344	95476	o-Xylene	0.00166	15.884	0.004357
A26LGR	23344	108952	Phenol	0.00726	69.469	0.019055
A26LGR	23344	123386	Propionaldehyde	0.00727	69.564	0.019082
A26LGR	23344	100425	Styrene	0.00309	29.567	0.008110
A26LGR	23344	108883	Toluene	0.00642	61.431	0.016851
A26LGR	559	7439921	Lead		0.541	0.000148
A26RGR	28068	106990	1,3-Butadiene	0.01687	194.090	0.053239
A26RGR	28068	75070	Acetaldehyde	0.04272	491.496	0.134818
A26RGR	28068	107028	Acrolein	0.02449	281.759	0.077287
A26RGR	28068	71432	Benzene	0.01681	193.400	0.053050
A26RGR	28068	100414	Ethyl benzene	0.00174	20.019	0.005491
A26RGR	28068	50000	Formaldehyde	0.1231	1416.273	0.388484
A26RGR	28068	67561	Methanol	0.01805	207.666	0.056963
A26RGR	28068	108383	m-Xylene	0.00282	32.444	0.008899
A26RGR	28068	91203	Naphthalene	0.00541	62.242	0.017073
A26RGR	28068	95476	o-Xylene	0.00166	19.098	0.005239
A26RGR	28068	108952	Phenol	0.00726	83.527	0.022911
A26RGR	28068	123386	Propionaldehyde	0.00727	83.642	0.022943
A26RGR	28068	100425	Styrene	0.00309	35.551	0.009752
A26RGR	28068	108883	Toluene	0.00642	73.862	0.020261
A26RGR	672	7439921	Lead		0.650	0.000178
A08TX	3286	106990	1,3-Butadiene	0.01687	19.199	0.005266
A08TX	3286	75070	Acetaldehyde	0.04272	57.541	0.015783
A08TX	3286	107028	Acrolein	0.02449	32.986	0.009048
A08TX	3286	71432	Benzene	0.01681	22.642	0.006211
A08TX	3286	100414	Ethyl benzene	0.00174	2.344	0.000643
A08TX	3286	50000	Formaldehyde	0.1231	165.807	0.045481
A08TX	3286	67561	Methanol	0.01805	24.312	0.006669
A08TX	3286	108383	m-Xylene	0.00282	3.798	0.001042
A08TX	3286	91203	Naphthalene	0.00541	7.287	0.001999
A08TX	3286	95476	o-Xylene	0.00166	2.236	0.000613
A08TX	3286	108952	Phenol	0.00726	9.779	0.002682
A08TX	3286	123386	Propionaldehyde	0.00727	9.792	0.002686
A08TX	3286	100425	Styrene	0.00309	4.162	0.001142
A08TX	3286	108883	Toluene	0.00642	8.647	0.002372
A08TX	79	7439921	Lead		0.064	0.000018
A26TX	51412	106990	1,3-Butadiene	0.01687	300.387	0.082396
A26TX	51412	75070	Acetaldehyde	0.04272	900.271	0.246945
A26TX	51412	107028	Acrolein	0.02449	516.096	0.141565
A26TX	51412	71432	Benzene	0.01681	354.250	0.097171
A26TX	51412	100414	Ethyl benzene	0.00174	36.668	0.010058

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26TX	51412	50000	Formaldehyde	0.1231	2594.180	0.711584
A26TX	51412	67561	Methanol	0.01805	380.381	0.104339
A26TX	51412	108383	m-Xylene	0.00282	59.428	0.016301
A26TX	51412	91203	Naphthalene	0.00541	114.009	0.031273
A26TX	51412	95476	o-Xylene	0.00166	34.982	0.009596
A26TX	51412	108952	Phenol	0.00726	152.995	0.041967
A26TX	51412	123386	Propionaldehyde	0.00727	153.206	0.042025
A26TX	51412	100425	Styrene	0.00309	65.118	0.017862
A26TX	51412	108883	Toluene	0.00642	135.294	0.037111
A26TX	1231	7439921	Lead		1.000	0.000274
2023EV		9901	DieselExhPM		4.140	0.002650
2023PV		9901	DieselExhPM		62.800	0.040275
2024RR		9901	DieselExhPM		0	0
2025PD		9901	DieselExhPM		0	0
Batch		7440382	Arsenic		0.162	0.000104
Batch		7440417	Beryllium		0.017	0.000011
Batch		7440439	Cadmium		0.021	0.000013
Batch		18540299	Cr(VI)		0.468	0.000300
Batch		7439921	Lead		0.179	0.000115
Batch		7439965	Manganese		2.131	0.001366
Batch		7440020	Nickel		0.628	0.000402
Batch		7782492	Selenium		0.016	0.000010

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2023 Project 2 Year Alternative

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	110368	2642	2.39%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	59.6	55184	2.16005	15.51781	0.0281%
Ground Roll	79.9	55184	2.89577	15.51781	0.0281%
Climb to Mix	161	55184	5.83502	15.51781	0.0281%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from N	65.6	55184	0.85115	15.13699	0.0274%
Ground Roll	31.6	55184	1.14526	15.13699	0.0274%
Taxi In	26.7	55184	0.96767	15.13699	0.0274%

2023 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	5199	106990	1,3-Butadiene	0.01687	189.451	0.053274
D08TX	5199	75070	Acetaldehyde	0.04272	479.749	0.134906
D08TX	5199	107028	Acrolein	0.02449	275.025	0.077337
D08TX	5199	71432	Benzene	0.01681	188.778	0.053085
D08TX	5199	100414	Ethyl benzene	0.00174	19.540	0.005495
D08TX	5199	50000	Formaldehyde	0.1231	1382.423	0.388739
D08TX	5199	67561	Methanol	0.01805	202.703	0.057000
D08TX	5199	108383	m-Xylene	0.00282	31.669	0.008905
D08TX	5199	91203	Naphthalene	0.00541	60.755	0.017084
D08TX	5199	95476	o-Xylene	0.00166	18.642	0.005242
D08TX	5199	108952	Phenol	0.00726	81.530	0.022926
D08TX	5199	123386	Propionaldehyde	0.00727	81.643	0.022958
D08TX	5199	100425	Styrene	0.00309	34.701	0.009758
D08TX	5199	108883	Toluene	0.00642	72.097	0.020274
D08TX	124	7439921	Lead		0.195	0.000055
D26TX	49499	106990	1,3-Butadiene	0.01687	1803.743	0.507215
D26TX	49499	75070	Acetaldehyde	0.04272	4567.628	1.284423
D26TX	49499	107028	Acrolein	0.02449	2618.474	0.736318
D26TX	49499	71432	Benzene	0.01681	1797.327	0.505411
D26TX	49499	100414	Ethyl benzene	0.00174	186.041	0.052315
D26TX	49499	50000	Formaldehyde	0.1231	13161.869	3.701134

D26TX	49499	67561	Methanol	0.01805	1929.908	0.542693
D26TX	49499	108383	m-Xylene	0.00282	301.515	0.084786
D26TX	49499	91203	Naphthalene	0.00541	578.438	0.162657
D26TX	49499	95476	o-Xylene	0.00166	177.487	0.049910
D26TX	49499	108952	Phenol	0.00726	776.240	0.218280
D26TX	49499	123386	Propionaldehyde	0.00727	777.309	0.218580
D26TX	49499	100425	Styrene	0.00309	330.383	0.092904
D26TX	49499	108883	Toluene	0.00642	686.427	0.193024
D26TX	1185	7439921	Lead		1.858	0.000522
D08LGR	2237	106990	1,3-Butadiene	0.01687	109.281	0.030730
D08LGR	2237	75070	Acetaldehyde	0.04272	276.733	0.077818
D08LGR	2237	107028	Acrolein	0.02449	158.642	0.044610
D08LGR	2237	71432	Benzene	0.01681	108.892	0.030621
D08LGR	2237	100414	Ethyl benzene	0.00174	11.271	0.003170
D08LGR	2237	50000	Formaldehyde	0.1231	797.421	0.224236
D08LGR	2237	67561	Methanol	0.01805	116.925	0.032879
D08LGR	2237	108383	m-Xylene	0.00282	18.267	0.005137
D08LGR	2237	91203	Naphthalene	0.00541	35.045	0.009855
D08LGR	2237	95476	o-Xylene	0.00166	10.753	0.003024
D08LGR	2237	108952	Phenol	0.00726	47.029	0.013225
D08LGR	2237	123386	Propionaldehyde	0.00727	47.094	0.013243
D08LGR	2237	100425	Styrene	0.00309	20.016	0.005629
D08LGR	2237	108883	Toluene	0.00642	41.588	0.011695
D08LGR	54	7439921	Lead		0.138	0.000039
D08RGR	2938	106990	1,3-Butadiene	0.01687	143.526	0.040360
D08RGR	2938	75070	Acetaldehyde	0.04272	363.452	0.102203
D08RGR	2938	107028	Acrolein	0.02449	208.355	0.058590
D08RGR	2938	71432	Benzene	0.01681	143.015	0.040216
D08RGR	2938	100414	Ethyl benzene	0.00174	14.804	0.004163
D08RGR	2938	50000	Formaldehyde	0.1231	1047.306	0.294504
D08RGR	2938	67561	Methanol	0.01805	153.565	0.043183
D08RGR	2938	108383	m-Xylene	0.00282	23.992	0.006747
D08RGR	2938	91203	Naphthalene	0.00541	46.027	0.012943
D08RGR	2938	95476	o-Xylene	0.00166	14.123	0.003971
D08RGR	2938	108952	Phenol	0.00726	61.766	0.017369
D08RGR	2938	123386	Propionaldehyde	0.00727	61.851	0.017393
D08RGR	2938	100425	Styrene	0.00309	26.289	0.007392
D08RGR	2938	108883	Toluene	0.00642	54.620	0.015359
D08RGR	70	7439921	Lead		0.182	0.000051
D26LGR	30293	106990	1,3-Butadiene	0.01687	1479.861	0.416139
D26LGR	30293	75070	Acetaldehyde	0.04272	3747.461	1.053791
D26LGR	30293	107028	Acrolein	0.02449	2148.299	0.604104
D26LGR	30293	71432	Benzene	0.01681	1474.598	0.414659
D26LGR	30293	100414	Ethyl benzene	0.00174	152.635	0.042921
D26LGR	30293	50000	Formaldehyde	0.1231	10798.513	3.036555
D26LGR	30293	67561	Methanol	0.01805	1583.372	0.445246
D26LGR	30293	108383	m-Xylene	0.00282	247.375	0.069562

D26LGR	30293	91203	Naphthalene	0.00541	474.573	0.133451
D26LGR	30293	95476	o-Xylene	0.00166	145.618	0.040948
D26LGR	30293	108952	Phenol	0.00726	636.858	0.179085
D26LGR	30293	123386	Propionaldehyde	0.00727	637.735	0.179332
D26LGR	30293	100425	Styrene	0.00309	271.059	0.076222
D26LGR	30293	108883	Toluene	0.00642	563.172	0.158365
D26LGR	725	7439921	Lead		1.873	0.000527
D26RGR	19205	106990	1,3-Butadiene	0.01687	938.195	0.263822
D26RGR	19205	75070	Acetaldehyde	0.04272	2375.796	0.668077
D26RGR	19205	107028	Acrolein	0.02449	1361.967	0.382987
D26RGR	19205	71432	Benzene	0.01681	934.858	0.262883
D26RGR	19205	100414	Ethyl benzene	0.00174	96.767	0.027211
D26RGR	19205	50000	Formaldehyde	0.1231	6845.985	1.925099
D26RGR	19205	67561	Methanol	0.01805	1003.818	0.282275
D26RGR	19205	108383	m-Xylene	0.00282	156.829	0.044101
D26RGR	19205	91203	Naphthalene	0.00541	300.867	0.084604
D26RGR	19205	95476	o-Xylene	0.00166	92.318	0.025960
D26RGR	19205	108952	Phenol	0.00726	403.752	0.113536
D26RGR	19205	123386	Propionaldehyde	0.00727	404.308	0.113692
D26RGR	19205	100425	Styrene	0.00309	171.845	0.048323
D26RGR	19205	108883	Toluene	0.00642	357.037	0.100399
D26RGR	460	7439921	Lead		1.188	0.000334
D08LRC	2170	106990	1,3-Butadiene	0.01687	213.608	0.060067
D08LRC	2170	75070	Acetaldehyde	0.04272	540.921	0.152108
D08LRC	2170	107028	Acrolein	0.02449	310.092	0.087198
D08LRC	2170	71432	Benzene	0.01681	212.848	0.059853
D08LRC	2170	100414	Ethyl benzene	0.00174	22.032	0.006195
D08LRC	2170	50000	Formaldehyde	0.1231	1558.693	0.438306
D08LRC	2170	67561	Methanol	0.01805	228.549	0.064268
D08LRC	2170	108383	m-Xylene	0.00282	35.707	0.010041
D08LRC	2170	91203	Naphthalene	0.00541	68.501	0.019263
D08LRC	2170	95476	o-Xylene	0.00166	21.019	0.005911
D08LRC	2170	108952	Phenol	0.00726	91.926	0.025850
D08LRC	2170	123386	Propionaldehyde	0.00727	92.053	0.025885
D08LRC	2170	100425	Styrene	0.00309	39.126	0.011002
D08LRC	2170	108883	Toluene	0.00642	81.290	0.022859
D08LRC	52	7439921	Lead		0.361	0.000102
D08LSO	91	106990	1,3-Butadiene	0.01687	8.958	0.002519
D08LSO	91	75070	Acetaldehyde	0.04272	22.684	0.006379
D08LSO	91	107028	Acrolein	0.02449	13.004	0.003657
D08LSO	91	71432	Benzene	0.01681	8.926	0.002510
D08LSO	91	100414	Ethyl benzene	0.00174	0.924	0.000260
D08LSO	91	50000	Formaldehyde	0.1231	65.365	0.018381
D08LSO	91	67561	Methanol	0.01805	9.584	0.002695
D08LSO	91	108383	m-Xylene	0.00282	1.497	0.000421
D08LSO	91	91203	Naphthalene	0.00541	2.873	0.000808
D08LSO	91	95476	o-Xylene	0.00166	0.881	0.000248

D08LSO	91	108952	Phenol	0.00726	3.855	0.001084
D08LSO	91	123386	Propionaldehyde	0.00727	3.860	0.001086
D08LSO	91	100425	Styrene	0.00309	1.641	0.000461
D08LSO	91	108883	Toluene	0.00642	3.409	0.000959
D08LSO	2	7439921	Lead		0.015	0.000004
D08RRC	2938	106990	1,3-Butadiene	0.01687	289.208	0.081326
D08RRC	2938	75070	Acetaldehyde	0.04272	732.362	0.205941
D08RRC	2938	107028	Acrolein	0.02449	419.839	0.118059
D08RRC	2938	71432	Benzene	0.01681	288.179	0.081036
D08RRC	2938	100414	Ethyl benzene	0.00174	29.829	0.008388
D08RRC	2938	50000	Formaldehyde	0.1231	2110.341	0.593430
D08RRC	2938	67561	Methanol	0.01805	309.437	0.087014
D08RRC	2938	108383	m-Xylene	0.00282	48.344	0.013594
D08RRC	2938	91203	Naphthalene	0.00541	92.745	0.026080
D08RRC	2938	95476	o-Xylene	0.00166	28.458	0.008002
D08RRC	2938	108952	Phenol	0.00726	124.460	0.034998
D08RRC	2938	123386	Propionaldehyde	0.00727	124.632	0.035047
D08RRC	2938	100425	Styrene	0.00309	52.973	0.014896
D08RRC	2938	108883	Toluene	0.00642	110.060	0.030949
D08RRC	70	7439921	Lead		0.489	0.000138
D26LLC	13606	106990	1,3-Butadiene	0.01687	1339.332	0.376622
D26LLC	13606	75070	Acetaldehyde	0.04272	3391.598	0.953722
D26LLC	13606	107028	Acrolein	0.02449	1944.294	0.546738
D26LLC	13606	71432	Benzene	0.01681	1334.569	0.375282
D26LLC	13606	100414	Ethyl benzene	0.00174	138.141	0.038845
D26LLC	13606	50000	Formaldehyde	0.1231	9773.075	2.748201
D26LLC	13606	67561	Methanol	0.01805	1433.014	0.402965
D26LLC	13606	108383	m-Xylene	0.00282	223.884	0.062956
D26LLC	13606	91203	Naphthalene	0.00541	429.507	0.120778
D26LLC	13606	95476	o-Xylene	0.00166	131.790	0.037059
D26LLC	13606	108952	Phenol	0.00726	576.381	0.162079
D26LLC	13606	123386	Propionaldehyde	0.00727	577.175	0.162302
D26LLC	13606	100425	Styrene	0.00309	245.319	0.068984
D26LLC	13606	108883	Toluene	0.00642	509.692	0.143326
D26LLC	326	7439921	Lead		2.266	0.000637
D26LRT	584	106990	1,3-Butadiene	0.01687	57.487	0.016165
D26LRT	584	75070	Acetaldehyde	0.04272	145.575	0.040936
D26LRT	584	107028	Acrolein	0.02449	83.453	0.023467
D26LRT	584	71432	Benzene	0.01681	57.283	0.016108
D26LRT	584	100414	Ethyl benzene	0.00174	5.929	0.001667
D26LRT	584	50000	Formaldehyde	0.1231	419.482	0.117959
D26LRT	584	67561	Methanol	0.01805	61.508	0.017296
D26LRT	584	108383	m-Xylene	0.00282	9.610	0.002702
D26LRT	584	91203	Naphthalene	0.00541	18.435	0.005184
D26LRT	584	95476	o-Xylene	0.00166	5.657	0.001591
D26LRT	584	108952	Phenol	0.00726	24.740	0.006957
D26LRT	584	123386	Propionaldehyde	0.00727	24.774	0.006966

D26LRT	584	100425	Styrene	0.00309	10.530	0.002961
D26LRT	584	108883	Toluene	0.00642	21.877	0.006152
D26LRT	14	7439921	Lead		0.097	0.000027
D26LSO	16102	106990	1,3-Butadiene	0.01687	1585.030	0.445712
D26LSO	16102	75070	Acetaldehyde	0.04272	4013.782	1.128680
D26LSO	16102	107028	Acrolein	0.02449	2300.972	0.647036
D26LSO	16102	71432	Benzene	0.01681	1579.393	0.444127
D26LSO	16102	100414	Ethyl benzene	0.00174	163.483	0.045972
D26LSO	16102	50000	Formaldehyde	0.1231	11565.930	3.252354
D26LSO	16102	67561	Methanol	0.01805	1695.898	0.476889
D26LSO	16102	108383	m-Xylene	0.00282	264.955	0.074506
D26LSO	16102	91203	Naphthalene	0.00541	508.300	0.142934
D26LSO	16102	95476	o-Xylene	0.00166	155.966	0.043858
D26LSO	16102	108952	Phenol	0.00726	682.117	0.191812
D26LSO	16102	123386	Propionaldehyde	0.00727	683.057	0.192076
D26LSO	16102	100425	Styrene	0.00309	290.323	0.081639
D26LSO	16102	108883	Toluene	0.00642	603.195	0.169619
D26LSO	385	7439921	Lead		2.681	0.000754
D26RLC	8116	106990	1,3-Butadiene	0.01687	798.914	0.224655
D26RLC	8116	75070	Acetaldehyde	0.04272	2023.094	0.568896
D26RLC	8116	107028	Acrolein	0.02449	1159.774	0.326130
D26RLC	8116	71432	Benzene	0.01681	796.072	0.223856
D26RLC	8116	100414	Ethyl benzene	0.00174	82.401	0.023171
D26RLC	8116	50000	Formaldehyde	0.1231	5829.654	1.639306
D26RLC	8116	67561	Methanol	0.01805	854.795	0.240369
D26RLC	8116	108383	m-Xylene	0.00282	133.547	0.037554
D26RLC	8116	91203	Naphthalene	0.00541	256.202	0.072044
D26RLC	8116	95476	o-Xylene	0.00166	78.613	0.022106
D26RLC	8116	108952	Phenol	0.00726	343.812	0.096680
D26RLC	8116	123386	Propionaldehyde	0.00727	344.286	0.096814
D26RLC	8116	100425	Styrene	0.00309	146.333	0.041149
D26RLC	8116	108883	Toluene	0.00642	304.032	0.085494
D26RLC	194	7439921	Lead		1.352	0.000380
D26RRT	551	106990	1,3-Butadiene	0.01687	54.239	0.015252
D26RRT	551	75070	Acetaldehyde	0.04272	137.349	0.038623
D26RRT	551	107028	Acrolein	0.02449	78.738	0.022141
D26RRT	551	71432	Benzene	0.01681	54.046	0.015198
D26RRT	551	100414	Ethyl benzene	0.00174	5.594	0.001573
D26RRT	551	50000	Formaldehyde	0.1231	395.779	0.111293
D26RRT	551	67561	Methanol	0.01805	58.033	0.016319
D26RRT	551	108383	m-Xylene	0.00282	9.067	0.002550
D26RRT	551	91203	Naphthalene	0.00541	17.394	0.004891
D26RRT	551	95476	o-Xylene	0.00166	5.337	0.001501
D26RRT	551	108952	Phenol	0.00726	23.342	0.006564
D26RRT	551	123386	Propionaldehyde	0.00727	23.374	0.006573
D26RRT	551	100425	Styrene	0.00309	9.935	0.002794
D26RRT	551	108883	Toluene	0.00642	20.641	0.005804

D26RRT	13	7439921	Lead		0.092	0.000026
D26RSO	10538	106990	1,3-Butadiene	0.01687	1037.328	0.291698
D26RSO	10538	75070	Acetaldehyde	0.04272	2626.831	0.738668
D26RSO	10538	107028	Acrolein	0.02449	1505.878	0.423455
D26RSO	10538	71432	Benzene	0.01681	1033.638	0.290660
D26RSO	10538	100414	Ethyl benzene	0.00174	106.992	0.030086
D26RSO	10538	50000	Formaldehyde	0.1231	7569.356	2.128512
D26RSO	10538	67561	Methanol	0.01805	1109.885	0.312101
D26RSO	10538	108383	m-Xylene	0.00282	173.400	0.048760
D26RSO	10538	91203	Naphthalene	0.00541	332.658	0.093544
D26RSO	10538	95476	o-Xylene	0.00166	102.073	0.028703
D26RSO	10538	108952	Phenol	0.00726	446.414	0.125532
D26RSO	10538	123386	Propionaldehyde	0.00727	447.029	0.125705
D26RSO	10538	100425	Styrene	0.00309	190.003	0.053429
D26RSO	10538	108883	Toluene	0.00642	394.763	0.111008
D26RSO	252	7439921	Lead		1.755	0.000493
A08LSI	1469	106990	1,3-Butadiene	0.01687	7.549	0.002071
A08LSI	1469	75070	Acetaldehyde	0.04272	19.117	0.005244
A08LSI	1469	107028	Acrolein	0.02449	10.959	0.003006
A08LSI	1469	71432	Benzene	0.01681	7.523	0.002063
A08LSI	1469	100414	Ethyl benzene	0.00174	0.779	0.000214
A08LSI	1469	50000	Formaldehyde	0.1231	55.088	0.015111
A08LSI	1469	67561	Methanol	0.01805	8.077	0.002216
A08LSI	1469	108383	m-Xylene	0.00282	1.262	0.000346
A08LSI	1469	91203	Naphthalene	0.00541	2.421	0.000664
A08LSI	1469	95476	o-Xylene	0.00166	0.743	0.000204
A08LSI	1469	108952	Phenol	0.00726	3.249	0.000891
A08LSI	1469	123386	Propionaldehyde	0.00727	3.253	0.000892
A08LSI	1469	100425	Styrene	0.00309	1.383	0.000379
A08LSI	1469	108883	Toluene	0.00642	2.873	0.000788
A08LSI	35	7439921	Lead		0.041	0.000011
A08RSI	1816	106990	1,3-Butadiene	0.01687	9.333	0.002560
A08RSI	1816	75070	Acetaldehyde	0.04272	23.633	0.006483
A08RSI	1816	107028	Acrolein	0.02449	13.548	0.003716
A08RSI	1816	71432	Benzene	0.01681	9.300	0.002551
A08RSI	1816	100414	Ethyl benzene	0.00174	0.963	0.000264
A08RSI	1816	50000	Formaldehyde	0.1231	68.101	0.018680
A08RSI	1816	67561	Methanol	0.01805	9.986	0.002739
A08RSI	1816	108383	m-Xylene	0.00282	1.560	0.000428
A08RSI	1816	91203	Naphthalene	0.00541	2.993	0.000821
A08RSI	1816	95476	o-Xylene	0.00166	0.918	0.000252
A08RSI	1816	108952	Phenol	0.00726	4.016	0.001102
A08RSI	1816	123386	Propionaldehyde	0.00727	4.022	0.001103
A08RSI	1816	100425	Styrene	0.00309	1.709	0.000469
A08RSI	1816	108883	Toluene	0.00642	3.552	0.000974
A08RSI	43	7439921	Lead		0.051	0.000014
A26LSI	31913	106990	1,3-Butadiene	0.01687	164.006	0.044987

A26LSI	31913	75070	Acetaldehyde	0.04272	415.314	0.113921
A26LSI	31913	107028	Acrolein	0.02449	238.086	0.065307
A26LSI	31913	71432	Benzene	0.01681	163.423	0.044827
A26LSI	31913	100414	Ethyl benzene	0.00174	16.916	0.004640
A26LSI	31913	50000	Formaldehyde	0.1231	1196.749	0.328268
A26LSI	31913	67561	Methanol	0.01805	175.478	0.048134
A26LSI	31913	108383	m-Xylene	0.00282	27.415	0.007520
A26LSI	31913	91203	Naphthalene	0.00541	52.595	0.014427
A26LSI	31913	95476	o-Xylene	0.00166	16.138	0.004427
A26LSI	31913	108952	Phenol	0.00726	70.580	0.019360
A26LSI	31913	123386	Propionaldehyde	0.00727	70.677	0.019387
A26LSI	31913	100425	Styrene	0.00309	30.040	0.008240
A26LSI	31913	108883	Toluene	0.00642	62.414	0.017120
A26LSI	764	7439921	Lead		0.901	0.000247
A26RSI	19499	106990	1,3-Butadiene	0.01687	100.209	0.027487
A26RSI	19499	75070	Acetaldehyde	0.04272	253.759	0.069606
A26RSI	19499	107028	Acrolein	0.02449	145.472	0.039903
A26RSI	19499	71432	Benzene	0.01681	99.852	0.027389
A26RSI	19499	100414	Ethyl benzene	0.00174	10.336	0.002835
A26RSI	19499	50000	Formaldehyde	0.1231	731.219	0.200574
A26RSI	19499	67561	Methanol	0.01805	107.218	0.029410
A26RSI	19499	108383	m-Xylene	0.00282	16.751	0.004595
A26RSI	19499	91203	Naphthalene	0.00541	32.136	0.008815
A26RSI	19499	95476	o-Xylene	0.00166	9.860	0.002705
A26RSI	19499	108952	Phenol	0.00726	43.125	0.011829
A26RSI	19499	123386	Propionaldehyde	0.00727	43.184	0.011845
A26RSI	19499	100425	Styrene	0.00309	18.355	0.005035
A26RSI	19499	108883	Toluene	0.00642	38.135	0.010460
A26RSI	467	7439921	Lead		0.550	0.000151
A08LGR	1469	106990	1,3-Butadiene	0.01687	10.158	0.002786
A08LGR	1469	75070	Acetaldehyde	0.04272	25.724	0.007056
A08LGR	1469	107028	Acrolein	0.02449	14.746	0.004045
A08LGR	1469	71432	Benzene	0.01681	10.122	0.002776
A08LGR	1469	100414	Ethyl benzene	0.00174	1.048	0.000287
A08LGR	1469	50000	Formaldehyde	0.1231	74.124	0.020332
A08LGR	1469	67561	Methanol	0.01805	10.869	0.002981
A08LGR	1469	108383	m-Xylene	0.00282	1.698	0.000466
A08LGR	1469	91203	Naphthalene	0.00541	3.258	0.000894
A08LGR	1469	95476	o-Xylene	0.00166	1.000	0.000274
A08LGR	1469	108952	Phenol	0.00726	4.372	0.001199
A08LGR	1469	123386	Propionaldehyde	0.00727	4.378	0.001201
A08LGR	1469	100425	Styrene	0.00309	1.861	0.000510
A08LGR	1469	108883	Toluene	0.00642	3.866	0.001060
A08LGR	35	7439921	Lead		0.034	0.000009
A08RGR	1816	106990	1,3-Butadiene	0.01687	12.558	0.003445
A08RGR	1816	75070	Acetaldehyde	0.04272	31.800	0.008723
A08RGR	1816	107028	Acrolein	0.02449	18.230	0.005000

A08RGR	1816	71432	Benzene	0.01681	12.513	0.003432
A08RGR	1816	100414	Ethyl benzene	0.00174	1.295	0.000355
A08RGR	1816	50000	Formaldehyde	0.1231	91.633	0.025135
A08RGR	1816	67561	Methanol	0.01805	13.436	0.003686
A08RGR	1816	108383	m-Xylene	0.00282	2.099	0.000576
A08RGR	1816	91203	Naphthalene	0.00541	4.027	0.001105
A08RGR	1816	95476	o-Xylene	0.00166	1.236	0.000339
A08RGR	1816	108952	Phenol	0.00726	5.404	0.001482
A08RGR	1816	123386	Propionaldehyde	0.00727	5.412	0.001484
A08RGR	1816	100425	Styrene	0.00309	2.300	0.000631
A08RGR	1816	108883	Toluene	0.00642	4.779	0.001311
A08RGR	43	7439921	Lead		0.042	0.000012
A26LGR	31913	106990	1,3-Butadiene	0.01687	220.679	0.060532
A26LGR	31913	75070	Acetaldehyde	0.04272	558.826	0.153286
A26LGR	31913	107028	Acrolein	0.02449	320.357	0.087874
A26LGR	31913	71432	Benzene	0.01681	219.894	0.060317
A26LGR	31913	100414	Ethyl benzene	0.00174	22.761	0.006243
A26LGR	31913	50000	Formaldehyde	0.1231	1610.287	0.441702
A26LGR	31913	67561	Methanol	0.01805	236.114	0.064766
A26LGR	31913	108383	m-Xylene	0.00282	36.889	0.010119
A26LGR	31913	91203	Naphthalene	0.00541	70.769	0.019412
A26LGR	31913	95476	o-Xylene	0.00166	21.715	0.005956
A26LGR	31913	108952	Phenol	0.00726	94.969	0.026050
A26LGR	31913	123386	Propionaldehyde	0.00727	95.100	0.026086
A26LGR	31913	100425	Styrene	0.00309	40.421	0.011087
A26LGR	31913	108883	Toluene	0.00642	83.981	0.023036
A26LGR	764	7439921	Lead		0.739	0.000203
A26RGR	19499	106990	1,3-Butadiene	0.01687	134.836	0.036985
A26RGR	19499	75070	Acetaldehyde	0.04272	341.445	0.093659
A26RGR	19499	107028	Acrolein	0.02449	195.740	0.053691
A26RGR	19499	71432	Benzene	0.01681	134.356	0.036854
A26RGR	19499	100414	Ethyl benzene	0.00174	13.907	0.003815
A26RGR	19499	50000	Formaldehyde	0.1231	983.893	0.269882
A26RGR	19499	67561	Methanol	0.01805	144.267	0.039572
A26RGR	19499	108383	m-Xylene	0.00282	22.539	0.006183
A26RGR	19499	91203	Naphthalene	0.00541	43.240	0.011861
A26RGR	19499	95476	o-Xylene	0.00166	13.268	0.003639
A26RGR	19499	108952	Phenol	0.00726	58.027	0.015917
A26RGR	19499	123386	Propionaldehyde	0.00727	58.106	0.015939
A26RGR	19499	100425	Styrene	0.00309	24.697	0.006774
A26RGR	19499	108883	Toluene	0.00642	51.313	0.014075
A26RGR	467	7439921	Lead		0.452	0.000124
A08TX	3286	106990	1,3-Butadiene	0.01687	19.199	0.005266
A08TX	3286	75070	Acetaldehyde	0.04272	57.541	0.015783
A08TX	3286	107028	Acrolein	0.02449	32.986	0.009048
A08TX	3286	71432	Benzene	0.01681	22.642	0.006211
A08TX	3286	100414	Ethyl benzene	0.00174	2.344	0.000643

A08TX	3286	50000	Formaldehyde	0.1231	165.807	0.045481
A08TX	3286	67561	Methanol	0.01805	24.312	0.006669
A08TX	3286	108383	m-Xylene	0.00282	3.798	0.001042
A08TX	3286	91203	Naphthalene	0.00541	7.287	0.001999
A08TX	3286	95476	o-Xylene	0.00166	2.236	0.000613
A08TX	3286	108952	Phenol	0.00726	9.779	0.002682
A08TX	3286	123386	Propionaldehyde	0.00727	9.792	0.002686
A08TX	3286	100425	Styrene	0.00309	4.162	0.001142
A08TX	3286	108883	Toluene	0.00642	8.647	0.002372
A08TX	79	7439921	Lead		0.064	0.000018
A26TX	51412	106990	1,3-Butadiene	0.01687	300.387	0.082396
A26TX	51412	75070	Acetaldehyde	0.04272	900.271	0.246945
A26TX	51412	107028	Acrolein	0.02449	516.096	0.141565
A26TX	51412	71432	Benzene	0.01681	354.250	0.097171
A26TX	51412	100414	Ethyl benzene	0.00174	36.668	0.010058
A26TX	51412	50000	Formaldehyde	0.1231	2594.180	0.711584
A26TX	51412	67561	Methanol	0.01805	380.381	0.104339
A26TX	51412	108383	m-Xylene	0.00282	59.428	0.016301
A26TX	51412	91203	Naphthalene	0.00541	114.009	0.031273
A26TX	51412	95476	o-Xylene	0.00166	34.982	0.009596
A26TX	51412	108952	Phenol	0.00726	152.995	0.041967
A26TX	51412	123386	Propionaldehyde	0.00727	153.206	0.042025
A26TX	51412	100425	Styrene	0.00309	65.118	0.017862
A26TX	51412	108883	Toluene	0.00642	135.294	0.037111
A26TX	1231	7439921	Lead		1.000	0.000274
2023EV		9901	DieselExhPM		4.140	0.002650
2023PV		9901	DieselExhPM		62.800	0.040275
2024RR		9901	DieselExhPM		0	0
2025PD		9901	DieselExhPM		31.6	0.036675
Batch		7440382	Arsenic		0.162	0.000104
Batch		7440417	Beryllium		0.017	0.000011
Batch		7440439	Cadmium		0.021	0.000013
Batch		18540299	Cr(VI)		0.468	0.000300
Batch		7439921	Lead		0.179	0.000115
Batch		7439965	Manganese		2.131	0.001366
Batch		7440020	Nickel		0.628	0.000402
Batch		7782492	Selenium		0.016	0.000010

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2024 No Action

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	112638	2659	2.36%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	56319	2.59593	16.00548	0.0284%
Ground Roll	93.5	56319	3.32037	16.00548	0.0284%
Climb to Mix	188	56319	6.67625	16.00548	0.0284%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from N	60.9	56319	0.77424	15.61096	0.0277%
Ground Roll	29.2	56319	1.03695	15.61096	0.0277%
Taxi In	28.6	56319	1.01564	15.61096	0.0277%

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	14515	106990	1,3-Butadiene	0.01687	635.660	0.180650
D08TX	14515	75070	Acetaldehyde	0.04272	1609.684	0.457461
D08TX	14515	107028	Acrolein	0.02449	922.780	0.262248
D08TX	14515	71432	Benzene	0.01681	633.399	0.180008
D08TX	14515	100414	Ethyl benzene	0.00174	65.563	0.018633
D08TX	14515	50000	Formaldehyde	0.1231	4638.393	1.318200
D08TX	14515	67561	Methanol	0.01805	680.122	0.193286
D08TX	14515	108383	m-Xylene	0.00282	106.257	0.030198
D08TX	14515	91203	Naphthalene	0.00541	203.848	0.057932
D08TX	14515	95476	o-Xylene	0.00166	62.549	0.017776
D08TX	14515	108952	Phenol	0.00726	273.556	0.077743
D08TX	14515	123386	Propionaldehyde	0.00727	273.933	0.077850
D08TX	14515	100425	Styrene	0.00309	116.431	0.033089
D08TX	14515	108883	Toluene	0.00642	241.905	0.068748
D08TX	343	7439921	Lead		0.537	0.000153
D26TX	41910	106990	1,3-Butadiene	0.01687	1835.377	0.521602
D26TX	41910	75070	Acetaldehyde	0.04272	4647.735	1.320855
D26TX	41910	107028	Acrolein	0.02449	2664.397	0.757204
D26TX	41910	71432	Benzene	0.01681	1828.849	0.519746
D26TX	41910	100414	Ethyl benzene	0.00174	189.304	0.053799
D26TX	41910	50000	Formaldehyde	0.1231	13392.700	3.806115

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26TX	41910	67561	Methanol	0.01805	1963.755	0.558086
D26TX	41910	108383	m-Xylene	0.00282	306.803	0.087191
D26TX	41910	91203	Naphthalene	0.00541	588.583	0.167271
D26TX	41910	95476	o-Xylene	0.00166	180.600	0.051325
D26TX	41910	108952	Phenol	0.00726	789.854	0.224471
D26TX	41910	123386	Propionaldehyde	0.00727	790.942	0.224780
D26TX	41910	100425	Styrene	0.00309	336.177	0.095539
D26TX	41910	108883	Toluene	0.00642	698.466	0.198499
D26TX	989	7439921	Lead		1.551	0.000441
D08LGR	7039	106990	1,3-Butadiene	0.01687	394.287	0.112054
D08LGR	7039	75070	Acetaldehyde	0.04272	998.456	0.283754
D08LGR	7039	107028	Acrolein	0.02449	572.383	0.162667
D08LGR	7039	71432	Benzene	0.01681	392.885	0.111655
D08LGR	7039	100414	Ethyl benzene	0.00174	40.667	0.011557
D08LGR	7039	50000	Formaldehyde	0.1231	2877.105	0.817654
D08LGR	7039	67561	Methanol	0.01805	421.866	0.119892
D08LGR	7039	108383	m-Xylene	0.00282	65.909	0.018731
D08LGR	7039	91203	Naphthalene	0.00541	126.443	0.035934
D08LGR	7039	95476	o-Xylene	0.00166	38.798	0.011026
D08LGR	7039	108952	Phenol	0.00726	169.681	0.048222
D08LGR	7039	123386	Propionaldehyde	0.00727	169.915	0.048289
D08LGR	7039	100425	Styrene	0.00309	72.220	0.020524
D08LGR	7039	108883	Toluene	0.00642	150.049	0.042643
D08LGR	166	7439921	Lead		0.429	0.000122
D08RGR	7476	106990	1,3-Butadiene	0.01687	418.766	0.119010
D08RGR	7476	75070	Acetaldehyde	0.04272	1060.443	0.301371
D08RGR	7476	107028	Acrolein	0.02449	607.918	0.172766
D08RGR	7476	71432	Benzene	0.01681	417.276	0.118587
D08RGR	7476	100414	Ethyl benzene	0.00174	43.192	0.012275
D08RGR	7476	50000	Formaldehyde	0.1231	3055.723	0.868416
D08RGR	7476	67561	Methanol	0.01805	448.057	0.127335
D08RGR	7476	108383	m-Xylene	0.00282	70.001	0.019894
D08RGR	7476	91203	Naphthalene	0.00541	134.293	0.038165
D08RGR	7476	95476	o-Xylene	0.00166	41.206	0.011711
D08RGR	7476	108952	Phenol	0.00726	180.216	0.051216
D08RGR	7476	123386	Propionaldehyde	0.00727	180.464	0.051287
D08RGR	7476	100425	Styrene	0.00309	76.703	0.021799
D08RGR	7476	108883	Toluene	0.00642	159.364	0.045290
D08RGR	176	7439921	Lead		0.456	0.000130
D26LGR	16755	106990	1,3-Butadiene	0.01687	938.526	0.266723
D26LGR	16755	75070	Acetaldehyde	0.04272	2376.634	0.675423
D26LGR	16755	107028	Acrolein	0.02449	1362.448	0.387198
D26LGR	16755	71432	Benzene	0.01681	935.188	0.265774

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LGR	16755	100414	Ethyl benzene	0.00174	96.801	0.027510
D26LGR	16755	50000	Formaldehyde	0.1231	6848.401	1.946269
D26LGR	16755	67561	Methanol	0.01805	1004.172	0.285379
D26LGR	16755	108383	m-Xylene	0.00282	156.885	0.044586
D26LGR	16755	91203	Naphthalene	0.00541	300.974	0.085535
D26LGR	16755	95476	o-Xylene	0.00166	92.350	0.026245
D26LGR	16755	108952	Phenol	0.00726	403.894	0.114784
D26LGR	16755	123386	Propionaldehyde	0.00727	404.451	0.114942
D26LGR	16755	100425	Styrene	0.00309	171.905	0.048854
D26LGR	16755	108883	Toluene	0.00642	357.163	0.101503
D26LGR	396	7439921	Lead		1.022	0.000290
D26RGR	25155	106990	1,3-Butadiene	0.01687	1409.049	0.400442
D26RGR	25155	75070	Acetaldehyde	0.04272	3568.143	1.014042
D26RGR	25155	107028	Acrolein	0.02449	2045.501	0.581318
D26RGR	25155	71432	Benzene	0.01681	1404.037	0.399018
D26RGR	25155	100414	Ethyl benzene	0.00174	145.332	0.041302
D26RGR	25155	50000	Formaldehyde	0.1231	10281.798	2.922017
D26RGR	25155	67561	Methanol	0.01805	1507.607	0.428452
D26RGR	25155	108383	m-Xylene	0.00282	235.538	0.066938
D26RGR	25155	91203	Naphthalene	0.00541	451.865	0.128417
D26RGR	25155	95476	o-Xylene	0.00166	138.650	0.039403
D26RGR	25155	108952	Phenol	0.00726	606.384	0.172330
D26RGR	25155	123386	Propionaldehyde	0.00727	607.219	0.172568
D26RGR	25155	100425	Styrene	0.00309	258.089	0.073347
D26RGR	25155	108883	Toluene	0.00642	536.224	0.152391
D26RGR	594	7439921	Lead		1.534	0.000436
D08LRC	6948	106990	1,3-Butadiene	0.01687	782.542	0.222393
D08LRC	6948	75070	Acetaldehyde	0.04272	1981.636	0.563168
D08LRC	6948	107028	Acrolein	0.02449	1136.008	0.322846
D08LRC	6948	71432	Benzene	0.01681	779.759	0.221602
D08LRC	6948	100414	Ethyl benzene	0.00174	80.713	0.022938
D08LRC	6948	50000	Formaldehyde	0.1231	5710.193	1.622798
D08LRC	6948	67561	Methanol	0.01805	837.278	0.237949
D08LRC	6948	108383	m-Xylene	0.00282	130.810	0.037175
D08LRC	6948	91203	Naphthalene	0.00541	250.952	0.071319
D08LRC	6948	95476	o-Xylene	0.00166	77.002	0.021883
D08LRC	6948	108952	Phenol	0.00726	336.767	0.095707
D08LRC	6948	123386	Propionaldehyde	0.00727	337.231	0.095839
D08LRC	6948	100425	Styrene	0.00309	143.335	0.040735
D08LRC	6948	108883	Toluene	0.00642	297.802	0.084633
D08LRC	164	7439921	Lead		1.141	0.000324
D08LSO	91	106990	1,3-Butadiene	0.01687	10.249	0.002913
D08LSO	91	75070	Acetaldehyde	0.04272	25.954	0.007376

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08LSO	91	107028	Acrolein	0.02449	14.879	0.004228
D08LSO	91	71432	Benzene	0.01681	10.213	0.002902
D08LSO	91	100414	Ethyl benzene	0.00174	1.057	0.000300
D08LSO	91	50000	Formaldehyde	0.1231	74.788	0.021254
D08LSO	91	67561	Methanol	0.01805	10.966	0.003116
D08LSO	91	108383	m-Xylene	0.00282	1.713	0.000487
D08LSO	91	91203	Naphthalene	0.00541	3.287	0.000934
D08LSO	91	95476	o-Xylene	0.00166	1.009	0.000287
D08LSO	91	108952	Phenol	0.00726	4.411	0.001254
D08LSO	91	123386	Propionaldehyde	0.00727	4.417	0.001255
D08LSO	91	100425	Styrene	0.00309	1.877	0.000534
D08LSO	91	108883	Toluene	0.00642	3.900	0.001108
D08LSO	2	7439921	Lead		0.015	0.000004
D08RRC	7476	106990	1,3-Butadiene	0.01687	842.010	0.239294
D08RRC	7476	75070	Acetaldehyde	0.04272	2132.227	0.605965
D08RRC	7476	107028	Acrolein	0.02449	1222.337	0.347380
D08RRC	7476	71432	Benzene	0.01681	839.015	0.238443
D08RRC	7476	100414	Ethyl benzene	0.00174	86.846	0.024681
D08RRC	7476	50000	Formaldehyde	0.1231	6144.128	1.746120
D08RRC	7476	67561	Methanol	0.01805	900.906	0.256031
D08RRC	7476	108383	m-Xylene	0.00282	140.751	0.040000
D08RRC	7476	91203	Naphthalene	0.00541	270.022	0.076738
D08RRC	7476	95476	o-Xylene	0.00166	82.853	0.023546
D08RRC	7476	108952	Phenol	0.00726	362.359	0.102980
D08RRC	7476	123386	Propionaldehyde	0.00727	362.858	0.103122
D08RRC	7476	100425	Styrene	0.00309	154.227	0.043830
D08RRC	7476	108883	Toluene	0.00642	320.433	0.091065
D08RRC	176	7439921	Lead		1.228	0.000349
D26LLC	6444	106990	1,3-Butadiene	0.01687	725.778	0.206261
D26LLC	6444	75070	Acetaldehyde	0.04272	1837.891	0.522316
D26LLC	6444	107028	Acrolein	0.02449	1053.604	0.299427
D26LLC	6444	71432	Benzene	0.01681	723.196	0.205527
D26LLC	6444	100414	Ethyl benzene	0.00174	74.858	0.021274
D26LLC	6444	50000	Formaldehyde	0.1231	5295.982	1.505082
D26LLC	6444	67561	Methanol	0.01805	776.543	0.220688
D26LLC	6444	108383	m-Xylene	0.00282	121.321	0.034479
D26LLC	6444	91203	Naphthalene	0.00541	232.748	0.066145
D26LLC	6444	95476	o-Xylene	0.00166	71.416	0.020296
D26LLC	6444	108952	Phenol	0.00726	312.338	0.088764
D26LLC	6444	123386	Propionaldehyde	0.00727	312.768	0.088887
D26LLC	6444	100425	Styrene	0.00309	132.937	0.037780
D26LLC	6444	108883	Toluene	0.00642	276.200	0.078494
D26LLC	152	7439921	Lead		1.058	0.000301

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LRT	603	106990	1,3-Butadiene	0.01687	67.915	0.019301
D26LRT	603	75070	Acetaldehyde	0.04272	171.981	0.048876
D26LRT	603	107028	Acrolein	0.02449	98.591	0.028019
D26LRT	603	71432	Benzene	0.01681	67.673	0.019232
D26LRT	603	100414	Ethyl benzene	0.00174	7.005	0.001991
D26LRT	603	50000	Formaldehyde	0.1231	495.574	0.140839
D26LRT	603	67561	Methanol	0.01805	72.665	0.020651
D26LRT	603	108383	m-Xylene	0.00282	11.353	0.003226
D26LRT	603	91203	Naphthalene	0.00541	21.779	0.006190
D26LRT	603	95476	o-Xylene	0.00166	6.683	0.001899
D26LRT	603	108952	Phenol	0.00726	29.227	0.008306
D26LRT	603	123386	Propionaldehyde	0.00727	29.267	0.008318
D26LRT	603	100425	Styrene	0.00309	12.440	0.003535
D26LRT	603	108883	Toluene	0.00642	25.846	0.007345
D26LRT	14	7439921	Lead		0.099	0.000028
D26LSO	9708	106990	1,3-Butadiene	0.01687	1093.397	0.310736
D26LSO	9708	75070	Acetaldehyde	0.04272	2768.815	0.786878
D26LSO	9708	107028	Acrolein	0.02449	1587.272	0.451092
D26LSO	9708	71432	Benzene	0.01681	1089.508	0.309631
D26LSO	9708	100414	Ethyl benzene	0.00174	112.775	0.032050
D26LSO	9708	50000	Formaldehyde	0.1231	7978.490	2.267433
D26LSO	9708	67561	Methanol	0.01805	1169.876	0.332471
D26LSO	9708	108383	m-Xylene	0.00282	182.773	0.051943
D26LSO	9708	91203	Naphthalene	0.00541	350.639	0.099649
D26LSO	9708	95476	o-Xylene	0.00166	107.590	0.030576
D26LSO	9708	108952	Phenol	0.00726	470.543	0.133725
D26LSO	9708	123386	Propionaldehyde	0.00727	471.191	0.133909
D26LSO	9708	100425	Styrene	0.00309	200.272	0.056916
D26LSO	9708	108883	Toluene	0.00642	416.100	0.118253
D26LSO	229	7439921	Lead		1.594	0.000453
D26RLC	9895	106990	1,3-Butadiene	0.01687	1114.458	0.316721
D26RLC	9895	75070	Acetaldehyde	0.04272	2822.149	0.802036
D26RLC	9895	107028	Acrolein	0.02449	1617.847	0.459781
D26RLC	9895	71432	Benzene	0.01681	1110.495	0.315595
D26RLC	9895	100414	Ethyl benzene	0.00174	114.947	0.032667
D26RLC	9895	50000	Formaldehyde	0.1231	8132.176	2.311109
D26RLC	9895	67561	Methanol	0.01805	1192.411	0.338875
D26RLC	9895	108383	m-Xylene	0.00282	186.294	0.052943
D26RLC	9895	91203	Naphthalene	0.00541	357.393	0.101569
D26RLC	9895	95476	o-Xylene	0.00166	109.662	0.031165
D26RLC	9895	108952	Phenol	0.00726	479.607	0.136301
D26RLC	9895	123386	Propionaldehyde	0.00727	480.267	0.136489
D26RLC	9895	100425	Styrene	0.00309	204.130	0.058012

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26RLC	9895	108883	Toluene	0.00642	424.115	0.120531
D26RLC	234	7439921	Lead		1.625	0.000462
D26RRT	519	106990	1,3-Butadiene	0.01687	58.454	0.016612
D26RRT	519	75070	Acetaldehyde	0.04272	148.024	0.042067
D26RRT	519	107028	Acrolein	0.02449	84.857	0.024116
D26RRT	519	71432	Benzene	0.01681	58.246	0.016553
D26RRT	519	100414	Ethyl benzene	0.00174	6.029	0.001713
D26RRT	519	50000	Formaldehyde	0.1231	426.539	0.121219
D26RRT	519	67561	Methanol	0.01805	62.543	0.017774
D26RRT	519	108383	m-Xylene	0.00282	9.771	0.002777
D26RRT	519	91203	Naphthalene	0.00541	18.746	0.005327
D26RRT	519	95476	o-Xylene	0.00166	5.752	0.001635
D26RRT	519	108952	Phenol	0.00726	25.156	0.007149
D26RRT	519	123386	Propionaldehyde	0.00727	25.190	0.007159
D26RRT	519	100425	Styrene	0.00309	10.707	0.003043
D26RRT	519	108883	Toluene	0.00642	22.245	0.006322
D26RRT	12	7439921	Lead		0.085	0.000024
D26RSO	14741	106990	1,3-Butadiene	0.01687	1660.256	0.471833
D26RSO	14741	75070	Acetaldehyde	0.04272	4204.275	1.194827
D26RSO	14741	107028	Acrolein	0.02449	2410.175	0.684956
D26RSO	14741	71432	Benzene	0.01681	1654.351	0.470155
D26RSO	14741	100414	Ethyl benzene	0.00174	171.242	0.048666
D26RSO	14741	50000	Formaldehyde	0.1231	12114.846	3.442958
D26RSO	14741	67561	Methanol	0.01805	1776.385	0.504837
D26RSO	14741	108383	m-Xylene	0.00282	277.529	0.078872
D26RSO	14741	91203	Naphthalene	0.00541	532.423	0.151311
D26RSO	14741	95476	o-Xylene	0.00166	163.368	0.046428
D26RSO	14741	108952	Phenol	0.00726	714.491	0.203053
D26RSO	14741	123386	Propionaldehyde	0.00727	715.475	0.203333
D26RSO	14741	100425	Styrene	0.00309	304.101	0.086424
D26RSO	14741	108883	Toluene	0.00642	631.822	0.179560
D26RSO	348	7439921	Lead		2.421	0.000688
A08LSI	2801	106990	1,3-Butadiene	0.01687	13.094	0.003630
A08LSI	2801	75070	Acetaldehyde	0.04272	33.158	0.009191
A08LSI	2801	107028	Acrolein	0.02449	19.009	0.005269
A08LSI	2801	71432	Benzene	0.01681	13.048	0.003617
A08LSI	2801	100414	Ethyl benzene	0.00174	1.351	0.000374
A08LSI	2801	50000	Formaldehyde	0.1231	95.548	0.026485
A08LSI	2801	67561	Methanol	0.01805	14.010	0.003883
A08LSI	2801	108383	m-Xylene	0.00282	2.189	0.000607
A08LSI	2801	91203	Naphthalene	0.00541	4.199	0.001164
A08LSI	2801	95476	o-Xylene	0.00166	1.288	0.000357
A08LSI	2801	108952	Phenol	0.00726	5.635	0.001562

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A08LSI	2801	123386	Propionaldehyde	0.00727	5.643	0.001564
A08LSI	2801	100425	Styrene	0.00309	2.398	0.000665
A08LSI	2801	108883	Toluene	0.00642	4.983	0.001381
A08LSI	66	7439921	Lead		0.078	0.000022
A08RSI	944	106990	1,3-Butadiene	0.01687	4.413	0.001223
A08RSI	944	75070	Acetaldehyde	0.04272	11.175	0.003098
A08RSI	944	107028	Acrolein	0.02449	6.406	0.001776
A08RSI	944	71432	Benzene	0.01681	4.397	0.001219
A08RSI	944	100414	Ethyl benzene	0.00174	0.455	0.000126
A08RSI	944	50000	Formaldehyde	0.1231	32.202	0.008926
A08RSI	944	67561	Methanol	0.01805	4.722	0.001309
A08RSI	944	108383	m-Xylene	0.00282	0.738	0.000204
A08RSI	944	91203	Naphthalene	0.00541	1.415	0.000392
A08RSI	944	95476	o-Xylene	0.00166	0.434	0.000120
A08RSI	944	108952	Phenol	0.00726	1.899	0.000526
A08RSI	944	123386	Propionaldehyde	0.00727	1.902	0.000527
A08RSI	944	100425	Styrene	0.00309	0.808	0.000224
A08RSI	944	108883	Toluene	0.00642	1.679	0.000466
A08RSI	22	7439921	Lead		0.026	0.000007
A26LSI	25559	106990	1,3-Butadiene	0.01687	119.483	0.033119
A26LSI	25559	75070	Acetaldehyde	0.04272	302.569	0.083868
A26LSI	25559	107028	Acrolein	0.02449	173.453	0.048079
A26LSI	25559	71432	Benzene	0.01681	119.059	0.033002
A26LSI	25559	100414	Ethyl benzene	0.00174	12.324	0.003416
A26LSI	25559	50000	Formaldehyde	0.1231	871.868	0.241672
A26LSI	25559	67561	Methanol	0.01805	127.841	0.035436
A26LSI	25559	108383	m-Xylene	0.00282	19.973	0.005536
A26LSI	25559	91203	Naphthalene	0.00541	38.317	0.010621
A26LSI	25559	95476	o-Xylene	0.00166	11.757	0.003259
A26LSI	25559	108952	Phenol	0.00726	51.420	0.014253
A26LSI	25559	123386	Propionaldehyde	0.00727	51.491	0.014273
A26LSI	25559	100425	Styrene	0.00309	21.885	0.006066
A26LSI	25559	108883	Toluene	0.00642	45.470	0.012604
A26LSI	603	7439921	Lead		0.711	0.000197
A26RSI	27122	106990	1,3-Butadiene	0.01687	126.790	0.035145
A26RSI	27122	75070	Acetaldehyde	0.04272	321.072	0.088997
A26RSI	27122	107028	Acrolein	0.02449	184.060	0.051019
A26RSI	27122	71432	Benzene	0.01681	126.339	0.035020
A26RSI	27122	100414	Ethyl benzene	0.00174	13.077	0.003625
A26RSI	27122	50000	Formaldehyde	0.1231	925.185	0.256450
A26RSI	27122	67561	Methanol	0.01805	135.659	0.037603
A26RSI	27122	108383	m-Xylene	0.00282	21.194	0.005875
A26RSI	27122	91203	Naphthalene	0.00541	40.660	0.011270

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26RSI	27122	95476	o-Xylene	0.00166	12.476	0.003458
A26RSI	27122	108952	Phenol	0.00726	54.564	0.015125
A26RSI	27122	123386	Propionaldehyde	0.00727	54.639	0.015145
A26RSI	27122	100425	Styrene	0.00309	23.224	0.006437
A26RSI	27122	108883	Toluene	0.00642	48.251	0.013375
A26RSI	640	7439921	Lead		0.755	0.000209
A08LGR	2801	106990	1,3-Butadiene	0.01687	17.537	0.004861
A08LGR	2801	75070	Acetaldehyde	0.04272	44.409	0.012310
A08LGR	2801	107028	Acrolein	0.02449	25.459	0.007057
A08LGR	2801	71432	Benzene	0.01681	17.475	0.004844
A08LGR	2801	100414	Ethyl benzene	0.00174	1.809	0.000501
A08LGR	2801	50000	Formaldehyde	0.1231	127.968	0.035471
A08LGR	2801	67561	Methanol	0.01805	18.764	0.005201
A08LGR	2801	108383	m-Xylene	0.00282	2.932	0.000813
A08LGR	2801	91203	Naphthalene	0.00541	5.624	0.001559
A08LGR	2801	95476	o-Xylene	0.00166	1.726	0.000478
A08LGR	2801	108952	Phenol	0.00726	7.547	0.002092
A08LGR	2801	123386	Propionaldehyde	0.00727	7.558	0.002095
A08LGR	2801	100425	Styrene	0.00309	3.212	0.000890
A08LGR	2801	108883	Toluene	0.00642	6.674	0.001850
A08LGR	66	7439921	Lead		0.064	0.000018
A08RGR	944	106990	1,3-Butadiene	0.01687	5.910	0.001638
A08RGR	944	75070	Acetaldehyde	0.04272	14.967	0.004149
A08RGR	944	107028	Acrolein	0.02449	8.580	0.002378
A08RGR	944	71432	Benzene	0.01681	5.889	0.001632
A08RGR	944	100414	Ethyl benzene	0.00174	0.610	0.000169
A08RGR	944	50000	Formaldehyde	0.1231	43.128	0.011955
A08RGR	944	67561	Methanol	0.01805	6.324	0.001753
A08RGR	944	108383	m-Xylene	0.00282	0.988	0.000274
A08RGR	944	91203	Naphthalene	0.00541	1.895	0.000525
A08RGR	944	95476	o-Xylene	0.00166	0.582	0.000161
A08RGR	944	108952	Phenol	0.00726	2.544	0.000705
A08RGR	944	123386	Propionaldehyde	0.00727	2.547	0.000706
A08RGR	944	100425	Styrene	0.00309	1.083	0.000300
A08RGR	944	108883	Toluene	0.00642	2.249	0.000623
A08RGR	22	7439921	Lead		0.022	0.000006
A26LGR	25559	106990	1,3-Butadiene	0.01687	160.026	0.044357
A26LGR	25559	75070	Acetaldehyde	0.04272	405.235	0.112326
A26LGR	25559	107028	Acrolein	0.02449	232.308	0.064393
A26LGR	25559	71432	Benzene	0.01681	159.457	0.044200
A26LGR	25559	100414	Ethyl benzene	0.00174	16.505	0.004575
A26LGR	25559	50000	Formaldehyde	0.1231	1167.706	0.323674
A26LGR	25559	67561	Methanol	0.01805	171.219	0.047460

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26LGR	25559	108383	m-Xylene	0.00282	26.750	0.007415
A26LGR	25559	91203	Naphthalene	0.00541	51.318	0.014225
A26LGR	25559	95476	o-Xylene	0.00166	15.746	0.004365
A26LGR	25559	108952	Phenol	0.00726	68.867	0.019089
A26LGR	25559	123386	Propionaldehyde	0.00727	68.962	0.019115
A26LGR	25559	100425	Styrene	0.00309	29.311	0.008125
A26LGR	25559	108883	Toluene	0.00642	60.899	0.016880
A26LGR	603	7439921	Lead		0.584	0.000162
A26RGR	27122	106990	1,3-Butadiene	0.01687	169.812	0.047070
A26RGR	27122	75070	Acetaldehyde	0.04272	430.016	0.119195
A26RGR	27122	107028	Acrolein	0.02449	246.514	0.068331
A26RGR	27122	71432	Benzene	0.01681	169.208	0.046902
A26RGR	27122	100414	Ethyl benzene	0.00174	17.515	0.004855
A26RGR	27122	50000	Formaldehyde	0.1231	1239.114	0.343468
A26RGR	27122	67561	Methanol	0.01805	181.690	0.050362
A26RGR	27122	108383	m-Xylene	0.00282	28.386	0.007868
A26RGR	27122	91203	Naphthalene	0.00541	54.457	0.015095
A26RGR	27122	95476	o-Xylene	0.00166	16.709	0.004632
A26RGR	27122	108952	Phenol	0.00726	73.079	0.020257
A26RGR	27122	123386	Propionaldehyde	0.00727	73.179	0.020284
A26RGR	27122	100425	Styrene	0.00309	31.104	0.008622
A26RGR	27122	108883	Toluene	0.00642	64.623	0.017913
A26RGR	640	7439921	Lead		0.620	0.000172
A08TX	3745	106990	1,3-Butadiene	0.01687	22.966	0.006366
A08TX	3745	75070	Acetaldehyde	0.04272	59.376	0.016458
A08TX	3745	107028	Acrolein	0.02449	34.039	0.009435
A08TX	3745	71432	Benzene	0.01681	23.364	0.006476
A08TX	3745	100414	Ethyl benzene	0.00174	2.418	0.000670
A08TX	3745	50000	Formaldehyde	0.1231	171.097	0.047426
A08TX	3745	67561	Methanol	0.01805	25.088	0.006954
A08TX	3745	108383	m-Xylene	0.00282	3.920	0.001086
A08TX	3745	91203	Naphthalene	0.00541	7.519	0.002084
A08TX	3745	95476	o-Xylene	0.00166	2.307	0.000640
A08TX	3745	108952	Phenol	0.00726	10.091	0.002797
A08TX	3745	123386	Propionaldehyde	0.00727	10.105	0.002801
A08TX	3745	100425	Styrene	0.00309	4.295	0.001190
A08TX	3745	108883	Toluene	0.00642	8.923	0.002473
A08TX	88	7439921	Lead		0.072	0.000020
A26TX	52681	106990	1,3-Butadiene	0.01687	323.060	0.089549
A26TX	52681	75070	Acetaldehyde	0.04272	835.251	0.231522
A26TX	52681	107028	Acrolein	0.02449	478.822	0.132724
A26TX	52681	71432	Benzene	0.01681	328.665	0.091102
A26TX	52681	100414	Ethyl benzene	0.00174	34.020	0.009430

2024 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26TX	52681	50000	Formaldehyde	0.1231	2406.820	0.667142
A26TX	52681	67561	Methanol	0.01805	352.909	0.097822
A26TX	52681	108383	m-Xylene	0.00282	55.136	0.015283
A26TX	52681	91203	Naphthalene	0.00541	105.775	0.029320
A26TX	52681	95476	o-Xylene	0.00166	32.456	0.008996
A26TX	52681	108952	Phenol	0.00726	141.946	0.039346
A26TX	52681	123386	Propionaldehyde	0.00727	142.141	0.039400
A26TX	52681	100425	Styrene	0.00309	60.415	0.016746
A26TX	52681	108883	Toluene	0.00642	125.522	0.034793
A26TX	1244	7439921	Lead		1.010	0.000280
2023EV		9901	DieselExhPM		0	0
2023PV		9901	DieselExhPM		0	0
2024RR		9901	DieselExhPM		0	0
2025PD		9901	DieselExhPM		0	0
Batch		7440382	Arsenic		0	0
Batch		7440417	Beryllium		0	0
Batch		7440439	Cadmium		0	0
Batch		18540299	Cr(VI)		0	0
Batch		7439921	Lead		0	0
Batch		7439965	Manganese		0	0
Batch		7440020	Nickel		0	0
Batch		7782492	Selenium		0	0

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2024 Project

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	112638	2659	2.36%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	56319	2.59593	16.00548	0.0284%
Ground Roll	93.5	56319	3.32037	16.00548	0.0284%
Climb to Mix	188	56319	6.67625	16.00548	0.0284%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from M	60.9	56319	0.77424	15.61096	0.0277%
Ground Roll	29.2	56319	1.03695	15.61096	0.0277%
Taxi In	28.6	56319	1.01564	15.61096	0.0277%

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	5371	106990	1,3-Butadiene	0.01687	235.214	0.066846
D08TX	5371	75070	Acetaldehyde	0.04272	595.633	0.169275
D08TX	5371	107028	Acrolein	0.02449	341.457	0.097040
D08TX	5371	71432	Benzene	0.01681	234.377	0.066608
D08TX	5371	100414	Ethyl benzene	0.00174	24.260	0.006895
D08TX	5371	50000	Formaldehyde	0.1231	1716.349	0.487775
D08TX	5371	67561	Methanol	0.01805	251.666	0.071522
D08TX	5371	108383	m-Xylene	0.00282	39.318	0.011174
D08TX	5371	91203	Naphthalene	0.00541	75.430	0.021437
D08TX	5371	95476	o-Xylene	0.00166	23.145	0.006578
D08TX	5371	108952	Phenol	0.00726	101.224	0.028767
D08TX	5371	123386	Propionaldehyde	0.00727	101.364	0.028807
D08TX	5371	100425	Styrene	0.00309	43.083	0.012244
D08TX	5371	108883	Toluene	0.00642	89.512	0.025439
D08TX	127	7439921	Lead		0.199	0.000056
D26TX	51055	106990	1,3-Butadiene	0.01687	2235.866	0.635418
D26TX	51055	75070	Acetaldehyde	0.04272	5661.897	1.609073
D26TX	51055	107028	Acrolein	0.02449	3245.783	0.922430
D26TX	51055	71432	Benzene	0.01681	2227.914	0.633158
D26TX	51055	100414	Ethyl benzene	0.00174	230.611	0.065538
D26TX	51055	50000	Formaldehyde	0.1231	16315.064	4.636631

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26TX	51055	67561	Methanol	0.01805	2392.257	0.679863
D26TX	51055	108383	m-Xylene	0.00282	373.749	0.106217
D26TX	51055	91203	Naphthalene	0.00541	717.015	0.203771
D26TX	51055	95476	o-Xylene	0.00166	220.008	0.062525
D26TX	51055	108952	Phenol	0.00726	962.204	0.273452
D26TX	51055	123386	Propionaldehyde	0.00727	963.530	0.273829
D26TX	51055	100425	Styrene	0.00309	409.533	0.116387
D26TX	51055	108883	Toluene	0.00642	850.875	0.241813
D26TX	1205	7439921	Lead		1.890	0.000537
D08LGR	3502	106990	1,3-Butadiene	0.01687	196.163	0.055748
D08LGR	3502	75070	Acetaldehyde	0.04272	496.746	0.141172
D08LGR	3502	107028	Acrolein	0.02449	284.768	0.080929
D08LGR	3502	71432	Benzene	0.01681	195.466	0.055550
D08LGR	3502	100414	Ethyl benzene	0.00174	20.233	0.005750
D08LGR	3502	50000	Formaldehyde	0.1231	1431.400	0.406794
D08LGR	3502	67561	Methanol	0.01805	209.884	0.059648
D08LGR	3502	108383	m-Xylene	0.00282	32.791	0.009319
D08LGR	3502	91203	Naphthalene	0.00541	62.907	0.017878
D08LGR	3502	95476	o-Xylene	0.00166	19.302	0.005486
D08LGR	3502	108952	Phenol	0.00726	84.419	0.023991
D08LGR	3502	123386	Propionaldehyde	0.00727	84.535	0.024024
D08LGR	3502	100425	Styrene	0.00309	35.930	0.010211
D08LGR	3502	108883	Toluene	0.00642	74.651	0.021215
D08LGR	83	7439921	Lead		0.214	0.000061
D08RGR	1869	106990	1,3-Butadiene	0.01687	104.691	0.029753
D08RGR	1869	75070	Acetaldehyde	0.04272	265.111	0.075343
D08RGR	1869	107028	Acrolein	0.02449	151.979	0.043192
D08RGR	1869	71432	Benzene	0.01681	104.319	0.029647
D08RGR	1869	100414	Ethyl benzene	0.00174	10.798	0.003069
D08RGR	1869	50000	Formaldehyde	0.1231	763.931	0.217104
D08RGR	1869	67561	Methanol	0.01805	112.014	0.031834
D08RGR	1869	108383	m-Xylene	0.00282	17.500	0.004973
D08RGR	1869	91203	Naphthalene	0.00541	33.573	0.009541
D08RGR	1869	95476	o-Xylene	0.00166	10.302	0.002928
D08RGR	1869	108952	Phenol	0.00726	45.054	0.012804
D08RGR	1869	123386	Propionaldehyde	0.00727	45.116	0.012822
D08RGR	1869	100425	Styrene	0.00309	19.176	0.005450
D08RGR	1869	108883	Toluene	0.00642	39.841	0.011323
D08RGR	44	7439921	Lead		0.114	0.000032
D26LGR	4189	106990	1,3-Butadiene	0.01687	234.645	0.066685
D26LGR	4189	75070	Acetaldehyde	0.04272	594.194	0.168866
D26LGR	4189	107028	Acrolein	0.02449	340.632	0.096805
D26LGR	4189	71432	Benzene	0.01681	233.811	0.066447

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LGR	4189	100414	Ethyl benzene	0.00174	24.202	0.006878
D26LGR	4189	50000	Formaldehyde	0.1231	1712.202	0.486596
D26LGR	4189	67561	Methanol	0.01805	251.058	0.071349
D26LGR	4189	108383	m-Xylene	0.00282	39.223	0.011147
D26LGR	4189	91203	Naphthalene	0.00541	75.248	0.021385
D26LGR	4189	95476	o-Xylene	0.00166	23.089	0.006562
D26LGR	4189	108952	Phenol	0.00726	100.980	0.028698
D26LGR	4189	123386	Propionaldehyde	0.00727	101.119	0.028737
D26LGR	4189	100425	Styrene	0.00309	42.979	0.012214
D26LGR	4189	108883	Toluene	0.00642	89.296	0.025377
D26LGR	99	7439921	Lead		0.255	0.000073
D26RGR	46866	106990	1,3-Butadiene	0.01687	2625.183	0.746059
D26RGR	46866	75070	Acetaldehyde	0.04272	6647.767	1.889251
D26RGR	46866	107028	Acrolein	0.02449	3810.951	1.083046
D26RGR	46866	71432	Benzene	0.01681	2615.847	0.743406
D26RGR	46866	100414	Ethyl benzene	0.00174	270.766	0.076950
D26RGR	46866	50000	Formaldehyde	0.1231	19155.902	5.443978
D26RGR	46866	67561	Methanol	0.01805	2808.806	0.798244
D26RGR	46866	108383	m-Xylene	0.00282	438.827	0.124712
D26RGR	46866	91203	Naphthalene	0.00541	841.864	0.239252
D26RGR	46866	95476	o-Xylene	0.00166	258.317	0.073412
D26RGR	46866	108952	Phenol	0.00726	1129.747	0.321066
D26RGR	46866	123386	Propionaldehyde	0.00727	1131.303	0.321509
D26RGR	46866	100425	Styrene	0.00309	480.843	0.136652
D26RGR	46866	108883	Toluene	0.00642	999.032	0.283918
D26RGR	1106	7439921	Lead		2.858	0.000812
D08LRC	3272	106990	1,3-Butadiene	0.01687	368.520	0.104731
D08LRC	3272	75070	Acetaldehyde	0.04272	933.206	0.265211
D08LRC	3272	107028	Acrolein	0.02449	534.977	0.152037
D08LRC	3272	71432	Benzene	0.01681	367.210	0.104358
D08LRC	3272	100414	Ethyl benzene	0.00174	38.010	0.010802
D08LRC	3272	50000	Formaldehyde	0.1231	2689.083	0.764219
D08LRC	3272	67561	Methanol	0.01805	394.297	0.112057
D08LRC	3272	108383	m-Xylene	0.00282	61.602	0.017507
D08LRC	3272	91203	Naphthalene	0.00541	118.180	0.033586
D08LRC	3272	95476	o-Xylene	0.00166	36.262	0.010305
D08LRC	3272	108952	Phenol	0.00726	158.593	0.045071
D08LRC	3272	123386	Propionaldehyde	0.00727	158.811	0.045133
D08LRC	3272	100425	Styrene	0.00309	67.500	0.019183
D08LRC	3272	108883	Toluene	0.00642	140.243	0.039856
D08LRC	77	7439921	Lead		0.537	0.000153
D08LSO	230	106990	1,3-Butadiene	0.01687	25.905	0.007362
D08LSO	230	75070	Acetaldehyde	0.04272	65.598	0.018643

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08LSO	230	107028	Acrolein	0.02449	37.605	0.010687
D08LSO	230	71432	Benzene	0.01681	25.812	0.007336
D08LSO	230	100414	Ethyl benzene	0.00174	2.672	0.000759
D08LSO	230	50000	Formaldehyde	0.1231	189.025	0.053720
D08LSO	230	67561	Methanol	0.01805	27.716	0.007877
D08LSO	230	108383	m-Xylene	0.00282	4.330	0.001231
D08LSO	230	91203	Naphthalene	0.00541	8.307	0.002361
D08LSO	230	95476	o-Xylene	0.00166	2.549	0.000724
D08LSO	230	108952	Phenol	0.00726	11.148	0.003168
D08LSO	230	123386	Propionaldehyde	0.00727	11.163	0.003173
D08LSO	230	100425	Styrene	0.00309	4.745	0.001348
D08LSO	230	108883	Toluene	0.00642	9.858	0.002802
D08LSO	5	7439921	Lead		0.038	0.000011
D08RRC	1869	106990	1,3-Butadiene	0.01687	210.503	0.059823
D08RRC	1869	75070	Acetaldehyde	0.04272	533.057	0.151491
D08RRC	1869	107028	Acrolein	0.02449	305.584	0.086845
D08RRC	1869	71432	Benzene	0.01681	209.754	0.059611
D08RRC	1869	100414	Ethyl benzene	0.00174	21.712	0.006170
D08RRC	1869	50000	Formaldehyde	0.1231	1536.032	0.436530
D08RRC	1869	67561	Methanol	0.01805	225.226	0.064008
D08RRC	1869	108383	m-Xylene	0.00282	35.188	0.010000
D08RRC	1869	91203	Naphthalene	0.00541	67.506	0.019185
D08RRC	1869	95476	o-Xylene	0.00166	20.713	0.005887
D08RRC	1869	108952	Phenol	0.00726	90.590	0.025745
D08RRC	1869	123386	Propionaldehyde	0.00727	90.714	0.025780
D08RRC	1869	100425	Styrene	0.00309	38.557	0.010958
D08RRC	1869	108883	Toluene	0.00642	80.108	0.022766
D08RRC	44	7439921	Lead		0.307	0.000087
D26LLC	1611	106990	1,3-Butadiene	0.01687	181.444	0.051565
D26LLC	1611	75070	Acetaldehyde	0.04272	459.473	0.130579
D26LLC	1611	107028	Acrolein	0.02449	263.401	0.074857
D26LLC	1611	71432	Benzene	0.01681	180.799	0.051382
D26LLC	1611	100414	Ethyl benzene	0.00174	18.714	0.005319
D26LLC	1611	50000	Formaldehyde	0.1231	1323.995	0.376271
D26LLC	1611	67561	Methanol	0.01805	194.136	0.055172
D26LLC	1611	108383	m-Xylene	0.00282	30.330	0.008620
D26LLC	1611	91203	Naphthalene	0.00541	58.187	0.016536
D26LLC	1611	95476	o-Xylene	0.00166	17.854	0.005074
D26LLC	1611	108952	Phenol	0.00726	78.085	0.022191
D26LLC	1611	123386	Propionaldehyde	0.00727	78.192	0.022222
D26LLC	1611	100425	Styrene	0.00309	33.234	0.009445
D26LLC	1611	108883	Toluene	0.00642	69.050	0.019624
D26LLC	38	7439921	Lead		0.265	0.000075

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LRT	151	106990	1,3-Butadiene	0.01687	17.007	0.004833
D26LRT	151	75070	Acetaldehyde	0.04272	43.067	0.012239
D26LRT	151	107028	Acrolein	0.02449	24.689	0.007016
D26LRT	151	71432	Benzene	0.01681	16.946	0.004816
D26LRT	151	100414	Ethyl benzene	0.00174	1.754	0.000499
D26LRT	151	50000	Formaldehyde	0.1231	124.099	0.035268
D26LRT	151	67561	Methanol	0.01805	18.196	0.005171
D26LRT	151	108383	m-Xylene	0.00282	2.843	0.000808
D26LRT	151	91203	Naphthalene	0.00541	5.454	0.001550
D26LRT	151	95476	o-Xylene	0.00166	1.673	0.000476
D26LRT	151	108952	Phenol	0.00726	7.319	0.002080
D26LRT	151	123386	Propionaldehyde	0.00727	7.329	0.002083
D26LRT	151	100425	Styrene	0.00309	3.115	0.000885
D26LRT	151	108883	Toluene	0.00642	6.472	0.001839
D26LRT	4	7439921	Lead		0.025	0.000007
D26LSO	2427	106990	1,3-Butadiene	0.01687	273.349	0.077684
D26LSO	2427	75070	Acetaldehyde	0.04272	692.204	0.196720
D26LSO	2427	107028	Acrolein	0.02449	396.818	0.112773
D26LSO	2427	71432	Benzene	0.01681	272.377	0.077408
D26LSO	2427	100414	Ethyl benzene	0.00174	28.194	0.008012
D26LSO	2427	50000	Formaldehyde	0.1231	1994.623	0.566858
D26LSO	2427	67561	Methanol	0.01805	292.469	0.083118
D26LSO	2427	108383	m-Xylene	0.00282	45.693	0.012986
D26LSO	2427	91203	Naphthalene	0.00541	87.660	0.024912
D26LSO	2427	95476	o-Xylene	0.00166	26.897	0.007644
D26LSO	2427	108952	Phenol	0.00726	117.636	0.033431
D26LSO	2427	123386	Propionaldehyde	0.00727	117.798	0.033477
D26LSO	2427	100425	Styrene	0.00309	50.068	0.014229
D26LSO	2427	108883	Toluene	0.00642	104.025	0.029563
D26LSO	57	7439921	Lead		0.399	0.000113
D26RLC	20179	106990	1,3-Butadiene	0.01687	2272.729	0.645894
D26RLC	20179	75070	Acetaldehyde	0.04272	5755.245	1.635602
D26RLC	20179	107028	Acrolein	0.02449	3299.296	0.937638
D26RLC	20179	71432	Benzene	0.01681	2264.646	0.643597
D26RLC	20179	100414	Ethyl benzene	0.00174	234.413	0.066619
D26RLC	20179	50000	Formaldehyde	0.1231	16584.050	4.713075
D26RLC	20179	67561	Methanol	0.01805	2431.699	0.691072
D26RLC	20179	108383	m-Xylene	0.00282	379.911	0.107968
D26RLC	20179	91203	Naphthalene	0.00541	728.836	0.207130
D26RLC	20179	95476	o-Xylene	0.00166	223.635	0.063556
D26RLC	20179	108952	Phenol	0.00726	978.068	0.277960
D26RLC	20179	123386	Propionaldehyde	0.00727	979.415	0.278343
D26RLC	20179	100425	Styrene	0.00309	416.285	0.118305

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26RLC	20179	108883	Toluene	0.00642	864.903	0.245800
D26RLC	476	7439921	Lead		3.314	0.000942
D26RRT	1412	106990	1,3-Butadiene	0.01687	159.031	0.045196
D26RRT	1412	75070	Acetaldehyde	0.04272	402.716	0.114449
D26RRT	1412	107028	Acrolein	0.02449	230.864	0.065610
D26RRT	1412	71432	Benzene	0.01681	158.466	0.045035
D26RRT	1412	100414	Ethyl benzene	0.00174	16.403	0.004662
D26RRT	1412	50000	Formaldehyde	0.1231	1160.448	0.329791
D26RRT	1412	67561	Methanol	0.01805	170.155	0.048357
D26RRT	1412	108383	m-Xylene	0.00282	26.584	0.007555
D26RRT	1412	91203	Naphthalene	0.00541	50.999	0.014494
D26RRT	1412	95476	o-Xylene	0.00166	15.649	0.004447
D26RRT	1412	108952	Phenol	0.00726	68.439	0.019450
D26RRT	1412	123386	Propionaldehyde	0.00727	68.533	0.019477
D26RRT	1412	100425	Styrene	0.00309	29.129	0.008278
D26RRT	1412	108883	Toluene	0.00642	60.521	0.017200
D26RRT	33	7439921	Lead		0.232	0.000066
D26RSO	25274	106990	1,3-Butadiene	0.01687	2846.571	0.808976
D26RSO	25274	75070	Acetaldehyde	0.04272	7208.388	2.048575
D26RSO	25274	107028	Acrolein	0.02449	4132.336	1.174382
D26RSO	25274	71432	Benzene	0.01681	2836.447	0.806099
D26RSO	25274	100414	Ethyl benzene	0.00174	293.600	0.083439
D26RSO	25274	50000	Formaldehyde	0.1231	20771.361	5.903080
D26RSO	25274	67561	Methanol	0.01805	3045.679	0.865561
D26RSO	25274	108383	m-Xylene	0.00282	475.835	0.135229
D26RSO	25274	91203	Naphthalene	0.00541	912.860	0.259429
D26RSO	25274	95476	o-Xylene	0.00166	280.101	0.079603
D26RSO	25274	108952	Phenol	0.00726	1225.021	0.348143
D26RSO	25274	123386	Propionaldehyde	0.00727	1226.708	0.348622
D26RSO	25274	100425	Styrene	0.00309	521.393	0.148176
D26RSO	25274	108883	Toluene	0.00642	1083.283	0.307862
D26RSO	597	7439921	Lead		4.151	0.001180
A08LSI	3155	106990	1,3-Butadiene	0.01687	14.749	0.004088
A08LSI	3155	75070	Acetaldehyde	0.04272	37.349	0.010353
A08LSI	3155	107028	Acrolein	0.02449	21.411	0.005935
A08LSI	3155	71432	Benzene	0.01681	14.697	0.004074
A08LSI	3155	100414	Ethyl benzene	0.00174	1.521	0.000422
A08LSI	3155	50000	Formaldehyde	0.1231	107.623	0.029832
A08LSI	3155	67561	Methanol	0.01805	15.781	0.004374
A08LSI	3155	108383	m-Xylene	0.00282	2.465	0.000683
A08LSI	3155	91203	Naphthalene	0.00541	4.730	0.001311
A08LSI	3155	95476	o-Xylene	0.00166	1.451	0.000402
A08LSI	3155	108952	Phenol	0.00726	6.347	0.001759

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A08LSI	3155	123386	Propionaldehyde	0.00727	6.356	0.001762
A08LSI	3155	100425	Styrene	0.00309	2.702	0.000749
A08LSI	3155	108883	Toluene	0.00642	5.613	0.001556
A08LSI	74	7439921	Lead		0.088	0.000024
A08RSI	236	106990	1,3-Butadiene	0.01687	1.103	0.000306
A08RSI	236	75070	Acetaldehyde	0.04272	2.794	0.000774
A08RSI	236	107028	Acrolein	0.02449	1.602	0.000444
A08RSI	236	71432	Benzene	0.01681	1.099	0.000305
A08RSI	236	100414	Ethyl benzene	0.00174	0.114	0.000032
A08RSI	236	50000	Formaldehyde	0.1231	8.050	0.002231
A08RSI	236	67561	Methanol	0.01805	1.180	0.000327
A08RSI	236	108383	m-Xylene	0.00282	0.184	0.000051
A08RSI	236	91203	Naphthalene	0.00541	0.354	0.000098
A08RSI	236	95476	o-Xylene	0.00166	0.109	0.000030
A08RSI	236	108952	Phenol	0.00726	0.475	0.000132
A08RSI	236	123386	Propionaldehyde	0.00727	0.475	0.000132
A08RSI	236	100425	Styrene	0.00309	0.202	0.000056
A08RSI	236	108883	Toluene	0.00642	0.420	0.000116
A08RSI	6	7439921	Lead		0.007	0.000002
A26LSI	6390	106990	1,3-Butadiene	0.01687	29.872	0.008280
A26LSI	6390	75070	Acetaldehyde	0.04272	75.645	0.020968
A26LSI	6390	107028	Acrolein	0.02449	43.365	0.012020
A26LSI	6390	71432	Benzene	0.01681	29.766	0.008251
A26LSI	6390	100414	Ethyl benzene	0.00174	3.081	0.000854
A26LSI	6390	50000	Formaldehyde	0.1231	217.976	0.060420
A26LSI	6390	67561	Methanol	0.01805	31.961	0.008859
A26LSI	6390	108383	m-Xylene	0.00282	4.993	0.001384
A26LSI	6390	91203	Naphthalene	0.00541	9.580	0.002655
A26LSI	6390	95476	o-Xylene	0.00166	2.939	0.000815
A26LSI	6390	108952	Phenol	0.00726	12.855	0.003563
A26LSI	6390	123386	Propionaldehyde	0.00727	12.873	0.003568
A26LSI	6390	100425	Styrene	0.00309	5.472	0.001517
A26LSI	6390	108883	Toluene	0.00642	11.368	0.003151
A26LSI	151	7439921	Lead		0.178	0.000049
A26RSI	46645	106990	1,3-Butadiene	0.01687	218.057	0.060443
A26RSI	46645	75070	Acetaldehyde	0.04272	552.186	0.153059
A26RSI	46645	107028	Acrolein	0.02449	316.550	0.087744
A26RSI	46645	71432	Benzene	0.01681	217.281	0.060228
A26RSI	46645	100414	Ethyl benzene	0.00174	22.491	0.006234
A26RSI	46645	50000	Formaldehyde	0.1231	1591.154	0.441049
A26RSI	46645	67561	Methanol	0.01805	233.309	0.064670
A26RSI	46645	108383	m-Xylene	0.00282	36.450	0.010104
A26RSI	46645	91203	Naphthalene	0.00541	69.928	0.019383

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26RSI	46645	95476	o-Xylene	0.00166	21.457	0.005948
A26RSI	46645	108952	Phenol	0.00726	93.841	0.026011
A26RSI	46645	123386	Propionaldehyde	0.00727	93.970	0.026047
A26RSI	46645	100425	Styrene	0.00309	39.940	0.011071
A26RSI	46645	108883	Toluene	0.00642	82.983	0.023002
A26RSI	1101	7439921	Lead		1.298	0.000360
A08LGR	3155	106990	1,3-Butadiene	0.01687	19.754	0.005475
A08LGR	3155	75070	Acetaldehyde	0.04272	50.022	0.013866
A08LGR	3155	107028	Acrolein	0.02449	28.676	0.007949
A08LGR	3155	71432	Benzene	0.01681	19.683	0.005456
A08LGR	3155	100414	Ethyl benzene	0.00174	2.037	0.000565
A08LGR	3155	50000	Formaldehyde	0.1231	144.141	0.039954
A08LGR	3155	67561	Methanol	0.01805	21.135	0.005858
A08LGR	3155	108383	m-Xylene	0.00282	3.302	0.000915
A08LGR	3155	91203	Naphthalene	0.00541	6.335	0.001756
A08LGR	3155	95476	o-Xylene	0.00166	1.944	0.000539
A08LGR	3155	108952	Phenol	0.00726	8.501	0.002356
A08LGR	3155	123386	Propionaldehyde	0.00727	8.513	0.002360
A08LGR	3155	100425	Styrene	0.00309	3.618	0.001003
A08LGR	3155	108883	Toluene	0.00642	7.517	0.002084
A08LGR	74	7439921	Lead		0.072	0.000020
A08RGR	236	106990	1,3-Butadiene	0.01687	1.478	0.000410
A08RGR	236	75070	Acetaldehyde	0.04272	3.742	0.001037
A08RGR	236	107028	Acrolein	0.02449	2.145	0.000595
A08RGR	236	71432	Benzene	0.01681	1.472	0.000408
A08RGR	236	100414	Ethyl benzene	0.00174	0.152	0.000042
A08RGR	236	50000	Formaldehyde	0.1231	10.782	0.002989
A08RGR	236	67561	Methanol	0.01805	1.581	0.000438
A08RGR	236	108383	m-Xylene	0.00282	0.247	0.000068
A08RGR	236	91203	Naphthalene	0.00541	0.474	0.000131
A08RGR	236	95476	o-Xylene	0.00166	0.145	0.000040
A08RGR	236	108952	Phenol	0.00726	0.636	0.000176
A08RGR	236	123386	Propionaldehyde	0.00727	0.637	0.000177
A08RGR	236	100425	Styrene	0.00309	0.271	0.000075
A08RGR	236	108883	Toluene	0.00642	0.562	0.000156
A08RGR	6	7439921	Lead		0.005	0.000001
A26LGR	6390	106990	1,3-Butadiene	0.01687	40.008	0.011090
A26LGR	6390	75070	Acetaldehyde	0.04272	101.313	0.028083
A26LGR	6390	107028	Acrolein	0.02449	58.079	0.016099
A26LGR	6390	71432	Benzene	0.01681	39.866	0.011050
A26LGR	6390	100414	Ethyl benzene	0.00174	4.126	0.001144
A26LGR	6390	50000	Formaldehyde	0.1231	291.938	0.080922
A26LGR	6390	67561	Methanol	0.01805	42.806	0.011865

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26LGR	6390	108383	m-Xylene	0.00282	6.688	0.001854
A26LGR	6390	91203	Naphthalene	0.00541	12.830	0.003556
A26LGR	6390	95476	o-Xylene	0.00166	3.937	0.001091
A26LGR	6390	108952	Phenol	0.00726	17.217	0.004772
A26LGR	6390	123386	Propionaldehyde	0.00727	17.241	0.004779
A26LGR	6390	100425	Styrene	0.00309	7.328	0.002031
A26LGR	6390	108883	Toluene	0.00642	15.225	0.004220
A26LGR	151	7439921	Lead		0.146	0.000040
A26RGR	46645	106990	1,3-Butadiene	0.01687	292.046	0.080952
A26RGR	46645	75070	Acetaldehyde	0.04272	739.551	0.204995
A26RGR	46645	107028	Acrolein	0.02449	423.960	0.117517
A26RGR	46645	71432	Benzene	0.01681	291.008	0.080664
A26RGR	46645	100414	Ethyl benzene	0.00174	30.122	0.008350
A26RGR	46645	50000	Formaldehyde	0.1231	2131.055	0.590703
A26RGR	46645	67561	Methanol	0.01805	312.474	0.086614
A26RGR	46645	108383	m-Xylene	0.00282	48.819	0.013532
A26RGR	46645	91203	Naphthalene	0.00541	93.656	0.025960
A26RGR	46645	95476	o-Xylene	0.00166	28.737	0.007966
A26RGR	46645	108952	Phenol	0.00726	125.682	0.034838
A26RGR	46645	123386	Propionaldehyde	0.00727	125.855	0.034886
A26RGR	46645	100425	Styrene	0.00309	53.493	0.014828
A26RGR	46645	108883	Toluene	0.00642	111.140	0.030807
A26RGR	1101	7439921	Lead		1.066	0.000295
A08TX	3391	106990	1,3-Butadiene	0.01687	20.795	0.005764
A08TX	3391	75070	Acetaldehyde	0.04272	53.764	0.014903
A08TX	3391	107028	Acrolein	0.02449	30.821	0.008543
A08TX	3391	71432	Benzene	0.01681	21.156	0.005864
A08TX	3391	100414	Ethyl benzene	0.00174	2.190	0.000607
A08TX	3391	50000	Formaldehyde	0.1231	154.924	0.042943
A08TX	3391	67561	Methanol	0.01805	22.716	0.006297
A08TX	3391	108383	m-Xylene	0.00282	3.549	0.000984
A08TX	3391	91203	Naphthalene	0.00541	6.809	0.001887
A08TX	3391	95476	o-Xylene	0.00166	2.089	0.000579
A08TX	3391	108952	Phenol	0.00726	9.137	0.002533
A08TX	3391	123386	Propionaldehyde	0.00727	9.149	0.002536
A08TX	3391	100425	Styrene	0.00309	3.889	0.001078
A08TX	3391	108883	Toluene	0.00642	8.080	0.002240
A08TX	80	7439921	Lead		0.065	0.000018
A26TX	53035	106990	1,3-Butadiene	0.01687	325.231	0.090150
A26TX	53035	75070	Acetaldehyde	0.04272	840.863	0.233077
A26TX	53035	107028	Acrolein	0.02449	482.040	0.133616
A26TX	53035	71432	Benzene	0.01681	330.873	0.091714
A26TX	53035	100414	Ethyl benzene	0.00174	34.249	0.009493

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26TX	53035	50000	Formaldehyde	0.1231	2422.993	0.671625
A26TX	53035	67561	Methanol	0.01805	355.280	0.098480
A26TX	53035	108383	m-Xylene	0.00282	55.506	0.015386
A26TX	53035	91203	Naphthalene	0.00541	106.486	0.029517
A26TX	53035	95476	o-Xylene	0.00166	32.674	0.009057
A26TX	53035	108952	Phenol	0.00726	142.899	0.039610
A26TX	53035	123386	Propionaldehyde	0.00727	143.096	0.039665
A26TX	53035	100425	Styrene	0.00309	60.821	0.016859
A26TX	53035	108883	Toluene	0.00642	126.366	0.035027
A26TX	1252	7439921	Lead		1.017	0.000282
2023EV		9901	DieselExhPM		0	0
2023PV		9901	DieselExhPM		0	0
2024RR		9901	DieselExhPM		89.8	0.0569375
2025PD		9901	DieselExhPM		0	0
Batch		7440382	Arsenic		0.13306	0.00008
Batch		7440417	Beryllium		0.01363	0.00001
Batch		7440439	Cadmium		0.01707	0.00001
Batch		18540299	Cr(VI)		0.38305	0.00024
Batch		7439921	Lead		0.14672	0.00009
Batch		7439965	Manganese		1.74548	0.00111
Batch		7440020	Nickel		0.51412	0.00033
Batch		7782492	Selenium		0.01297	0.00001

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2024 Project

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	112638	2659	2.36%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	56319	2.59593	16.00548	0.0284%
Ground Roll	93.5	56319	3.32037	16.00548	0.0284%
Climb to Mix	188	56319	6.67625	16.00548	0.0284%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from M	60.9	56319	0.77424	15.61096	0.0277%
Ground Roll	29.2	56319	1.03695	15.61096	0.0277%
Taxi In	28.6	56319	1.01564	15.61096	0.0277%

2024 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	5371	106990	1,3-Butadiene	0.01687	235.214	0.066846
D08TX	5371	75070	Acetaldehyde	0.04272	595.633	0.169275
D08TX	5371	107028	Acrolein	0.02449	341.457	0.097040
D08TX	5371	71432	Benzene	0.01681	234.377	0.066608
D08TX	5371	100414	Ethyl benzene	0.00174	24.260	0.006895
D08TX	5371	50000	Formaldehyde	0.1231	1716.349	0.487775
D08TX	5371	67561	Methanol	0.01805	251.666	0.071522
D08TX	5371	108383	m-Xylene	0.00282	39.318	0.011174
D08TX	5371	91203	Naphthalene	0.00541	75.430	0.021437
D08TX	5371	95476	o-Xylene	0.00166	23.145	0.006578
D08TX	5371	108952	Phenol	0.00726	101.224	0.028767
D08TX	5371	123386	Propionaldehyde	0.00727	101.364	0.028807
D08TX	5371	100425	Styrene	0.00309	43.083	0.012244
D08TX	5371	108883	Toluene	0.00642	89.512	0.025439
D08TX	127	7439921	Lead		0.199	0.000056
D26TX	51055	106990	1,3-Butadiene	0.01687	2235.866	0.635418
D26TX	51055	75070	Acetaldehyde	0.04272	5661.897	1.609073
D26TX	51055	107028	Acrolein	0.02449	3245.783	0.922430
D26TX	51055	71432	Benzene	0.01681	2227.914	0.633158
D26TX	51055	100414	Ethyl benzene	0.00174	230.611	0.065538
D26TX	51055	50000	Formaldehyde	0.1231	16315.064	4.636631

D26TX	51055	67561	Methanol	0.01805	2392.257	0.679863
D26TX	51055	108383	m-Xylene	0.00282	373.749	0.106217
D26TX	51055	91203	Naphthalene	0.00541	717.015	0.203771
D26TX	51055	95476	o-Xylene	0.00166	220.008	0.062525
D26TX	51055	108952	Phenol	0.00726	962.204	0.273452
D26TX	51055	123386	Propionaldehyde	0.00727	963.530	0.273829
D26TX	51055	100425	Styrene	0.00309	409.533	0.116387
D26TX	51055	108883	Toluene	0.00642	850.875	0.241813
D26TX	1205	7439921	Lead		1.890	0.000537
D08LGR	3502	106990	1,3-Butadiene	0.01687	196.163	0.055748
D08LGR	3502	75070	Acetaldehyde	0.04272	496.746	0.141172
D08LGR	3502	107028	Acrolein	0.02449	284.768	0.080929
D08LGR	3502	71432	Benzene	0.01681	195.466	0.055550
D08LGR	3502	100414	Ethyl benzene	0.00174	20.233	0.005750
D08LGR	3502	50000	Formaldehyde	0.1231	1431.400	0.406794
D08LGR	3502	67561	Methanol	0.01805	209.884	0.059648
D08LGR	3502	108383	m-Xylene	0.00282	32.791	0.009319
D08LGR	3502	91203	Naphthalene	0.00541	62.907	0.017878
D08LGR	3502	95476	o-Xylene	0.00166	19.302	0.005486
D08LGR	3502	108952	Phenol	0.00726	84.419	0.023991
D08LGR	3502	123386	Propionaldehyde	0.00727	84.535	0.024024
D08LGR	3502	100425	Styrene	0.00309	35.930	0.010211
D08LGR	3502	108883	Toluene	0.00642	74.651	0.021215
D08LGR	83	7439921	Lead		0.214	0.000061
D08RGR	1869	106990	1,3-Butadiene	0.01687	104.691	0.029753
D08RGR	1869	75070	Acetaldehyde	0.04272	265.111	0.075343
D08RGR	1869	107028	Acrolein	0.02449	151.979	0.043192
D08RGR	1869	71432	Benzene	0.01681	104.319	0.029647
D08RGR	1869	100414	Ethyl benzene	0.00174	10.798	0.003069
D08RGR	1869	50000	Formaldehyde	0.1231	763.931	0.217104
D08RGR	1869	67561	Methanol	0.01805	112.014	0.031834
D08RGR	1869	108383	m-Xylene	0.00282	17.500	0.004973
D08RGR	1869	91203	Naphthalene	0.00541	33.573	0.009541
D08RGR	1869	95476	o-Xylene	0.00166	10.302	0.002928
D08RGR	1869	108952	Phenol	0.00726	45.054	0.012804
D08RGR	1869	123386	Propionaldehyde	0.00727	45.116	0.012822
D08RGR	1869	100425	Styrene	0.00309	19.176	0.005450
D08RGR	1869	108883	Toluene	0.00642	39.841	0.011323
D08RGR	44	7439921	Lead		0.114	0.000032
D26LGR	4189	106990	1,3-Butadiene	0.01687	234.645	0.066685
D26LGR	4189	75070	Acetaldehyde	0.04272	594.194	0.168866
D26LGR	4189	107028	Acrolein	0.02449	340.632	0.096805
D26LGR	4189	71432	Benzene	0.01681	233.811	0.066447
D26LGR	4189	100414	Ethyl benzene	0.00174	24.202	0.006878
D26LGR	4189	50000	Formaldehyde	0.1231	1712.202	0.486596
D26LGR	4189	67561	Methanol	0.01805	251.058	0.071349
D26LGR	4189	108383	m-Xylene	0.00282	39.223	0.011147

D26LGR	4189	91203	Naphthalene	0.00541	75.248	0.021385
D26LGR	4189	95476	o-Xylene	0.00166	23.089	0.006562
D26LGR	4189	108952	Phenol	0.00726	100.980	0.028698
D26LGR	4189	123386	Propionaldehyde	0.00727	101.119	0.028737
D26LGR	4189	100425	Styrene	0.00309	42.979	0.012214
D26LGR	4189	108883	Toluene	0.00642	89.296	0.025377
D26LGR	99	7439921	Lead		0.255	0.000073
D26RGR	46866	106990	1,3-Butadiene	0.01687	2625.183	0.746059
D26RGR	46866	75070	Acetaldehyde	0.04272	6647.767	1.889251
D26RGR	46866	107028	Acrolein	0.02449	3810.951	1.083046
D26RGR	46866	71432	Benzene	0.01681	2615.847	0.743406
D26RGR	46866	100414	Ethyl benzene	0.00174	270.766	0.076950
D26RGR	46866	50000	Formaldehyde	0.1231	19155.902	5.443978
D26RGR	46866	67561	Methanol	0.01805	2808.806	0.798244
D26RGR	46866	108383	m-Xylene	0.00282	438.827	0.124712
D26RGR	46866	91203	Naphthalene	0.00541	841.864	0.239252
D26RGR	46866	95476	o-Xylene	0.00166	258.317	0.073412
D26RGR	46866	108952	Phenol	0.00726	1129.747	0.321066
D26RGR	46866	123386	Propionaldehyde	0.00727	1131.303	0.321509
D26RGR	46866	100425	Styrene	0.00309	480.843	0.136652
D26RGR	46866	108883	Toluene	0.00642	999.032	0.283918
D26RGR	1106	7439921	Lead		2.858	0.000812
D08LRC	3272	106990	1,3-Butadiene	0.01687	368.520	0.104731
D08LRC	3272	75070	Acetaldehyde	0.04272	933.206	0.265211
D08LRC	3272	107028	Acrolein	0.02449	534.977	0.152037
D08LRC	3272	71432	Benzene	0.01681	367.210	0.104358
D08LRC	3272	100414	Ethyl benzene	0.00174	38.010	0.010802
D08LRC	3272	50000	Formaldehyde	0.1231	2689.083	0.764219
D08LRC	3272	67561	Methanol	0.01805	394.297	0.112057
D08LRC	3272	108383	m-Xylene	0.00282	61.602	0.017507
D08LRC	3272	91203	Naphthalene	0.00541	118.180	0.033586
D08LRC	3272	95476	o-Xylene	0.00166	36.262	0.010305
D08LRC	3272	108952	Phenol	0.00726	158.593	0.045071
D08LRC	3272	123386	Propionaldehyde	0.00727	158.811	0.045133
D08LRC	3272	100425	Styrene	0.00309	67.500	0.019183
D08LRC	3272	108883	Toluene	0.00642	140.243	0.039856
D08LRC	77	7439921	Lead		0.537	0.000153
D08LSO	230	106990	1,3-Butadiene	0.01687	25.905	0.007362
D08LSO	230	75070	Acetaldehyde	0.04272	65.598	0.018643
D08LSO	230	107028	Acrolein	0.02449	37.605	0.010687
D08LSO	230	71432	Benzene	0.01681	25.812	0.007336
D08LSO	230	100414	Ethyl benzene	0.00174	2.672	0.000759
D08LSO	230	50000	Formaldehyde	0.1231	189.025	0.053720
D08LSO	230	67561	Methanol	0.01805	27.716	0.007877
D08LSO	230	108383	m-Xylene	0.00282	4.330	0.001231
D08LSO	230	91203	Naphthalene	0.00541	8.307	0.002361
D08LSO	230	95476	o-Xylene	0.00166	2.549	0.000724

D08LSO	230	108952	Phenol	0.00726	11.148	0.003168
D08LSO	230	123386	Propionaldehyde	0.00727	11.163	0.003173
D08LSO	230	100425	Styrene	0.00309	4.745	0.001348
D08LSO	230	108883	Toluene	0.00642	9.858	0.002802
D08LSO	5	7439921	Lead		0.038	0.000011
D08RRC	1869	106990	1,3-Butadiene	0.01687	210.503	0.059823
D08RRC	1869	75070	Acetaldehyde	0.04272	533.057	0.151491
D08RRC	1869	107028	Acrolein	0.02449	305.584	0.086845
D08RRC	1869	71432	Benzene	0.01681	209.754	0.059611
D08RRC	1869	100414	Ethyl benzene	0.00174	21.712	0.006170
D08RRC	1869	50000	Formaldehyde	0.1231	1536.032	0.436530
D08RRC	1869	67561	Methanol	0.01805	225.226	0.064008
D08RRC	1869	108383	m-Xylene	0.00282	35.188	0.010000
D08RRC	1869	91203	Naphthalene	0.00541	67.506	0.019185
D08RRC	1869	95476	o-Xylene	0.00166	20.713	0.005887
D08RRC	1869	108952	Phenol	0.00726	90.590	0.025745
D08RRC	1869	123386	Propionaldehyde	0.00727	90.714	0.025780
D08RRC	1869	100425	Styrene	0.00309	38.557	0.010958
D08RRC	1869	108883	Toluene	0.00642	80.108	0.022766
D08RRC	44	7439921	Lead		0.307	0.000087
D26LLC	1611	106990	1,3-Butadiene	0.01687	181.444	0.051565
D26LLC	1611	75070	Acetaldehyde	0.04272	459.473	0.130579
D26LLC	1611	107028	Acrolein	0.02449	263.401	0.074857
D26LLC	1611	71432	Benzene	0.01681	180.799	0.051382
D26LLC	1611	100414	Ethyl benzene	0.00174	18.714	0.005319
D26LLC	1611	50000	Formaldehyde	0.1231	1323.995	0.376271
D26LLC	1611	67561	Methanol	0.01805	194.136	0.055172
D26LLC	1611	108383	m-Xylene	0.00282	30.330	0.008620
D26LLC	1611	91203	Naphthalene	0.00541	58.187	0.016536
D26LLC	1611	95476	o-Xylene	0.00166	17.854	0.005074
D26LLC	1611	108952	Phenol	0.00726	78.085	0.022191
D26LLC	1611	123386	Propionaldehyde	0.00727	78.192	0.022222
D26LLC	1611	100425	Styrene	0.00309	33.234	0.009445
D26LLC	1611	108883	Toluene	0.00642	69.050	0.019624
D26LLC	38	7439921	Lead		0.265	0.000075
D26LRT	151	106990	1,3-Butadiene	0.01687	17.007	0.004833
D26LRT	151	75070	Acetaldehyde	0.04272	43.067	0.012239
D26LRT	151	107028	Acrolein	0.02449	24.689	0.007016
D26LRT	151	71432	Benzene	0.01681	16.946	0.004816
D26LRT	151	100414	Ethyl benzene	0.00174	1.754	0.000499
D26LRT	151	50000	Formaldehyde	0.1231	124.099	0.035268
D26LRT	151	67561	Methanol	0.01805	18.196	0.005171
D26LRT	151	108383	m-Xylene	0.00282	2.843	0.000808
D26LRT	151	91203	Naphthalene	0.00541	5.454	0.001550
D26LRT	151	95476	o-Xylene	0.00166	1.673	0.000476
D26LRT	151	108952	Phenol	0.00726	7.319	0.002080
D26LRT	151	123386	Propionaldehyde	0.00727	7.329	0.002083

D26LRT	151	100425	Styrene	0.00309	3.115	0.000885
D26LRT	151	108883	Toluene	0.00642	6.472	0.001839
D26LRT	4	7439921	Lead		0.025	0.000007
D26LSO	2427	106990	1,3-Butadiene	0.01687	273.349	0.077684
D26LSO	2427	75070	Acetaldehyde	0.04272	692.204	0.196720
D26LSO	2427	107028	Acrolein	0.02449	396.818	0.112773
D26LSO	2427	71432	Benzene	0.01681	272.377	0.077408
D26LSO	2427	100414	Ethyl benzene	0.00174	28.194	0.008012
D26LSO	2427	50000	Formaldehyde	0.1231	1994.623	0.566858
D26LSO	2427	67561	Methanol	0.01805	292.469	0.083118
D26LSO	2427	108383	m-Xylene	0.00282	45.693	0.012986
D26LSO	2427	91203	Naphthalene	0.00541	87.660	0.024912
D26LSO	2427	95476	o-Xylene	0.00166	26.897	0.007644
D26LSO	2427	108952	Phenol	0.00726	117.636	0.033431
D26LSO	2427	123386	Propionaldehyde	0.00727	117.798	0.033477
D26LSO	2427	100425	Styrene	0.00309	50.068	0.014229
D26LSO	2427	108883	Toluene	0.00642	104.025	0.029563
D26LSO	57	7439921	Lead		0.399	0.000113
D26RLC	20179	106990	1,3-Butadiene	0.01687	2272.729	0.645894
D26RLC	20179	75070	Acetaldehyde	0.04272	5755.245	1.635602
D26RLC	20179	107028	Acrolein	0.02449	3299.296	0.937638
D26RLC	20179	71432	Benzene	0.01681	2264.646	0.643597
D26RLC	20179	100414	Ethyl benzene	0.00174	234.413	0.066619
D26RLC	20179	50000	Formaldehyde	0.1231	16584.050	4.713075
D26RLC	20179	67561	Methanol	0.01805	2431.699	0.691072
D26RLC	20179	108383	m-Xylene	0.00282	379.911	0.107968
D26RLC	20179	91203	Naphthalene	0.00541	728.836	0.207130
D26RLC	20179	95476	o-Xylene	0.00166	223.635	0.063556
D26RLC	20179	108952	Phenol	0.00726	978.068	0.277960
D26RLC	20179	123386	Propionaldehyde	0.00727	979.415	0.278343
D26RLC	20179	100425	Styrene	0.00309	416.285	0.118305
D26RLC	20179	108883	Toluene	0.00642	864.903	0.245800
D26RLC	476	7439921	Lead		3.314	0.000942
D26RRT	1412	106990	1,3-Butadiene	0.01687	159.031	0.045196
D26RRT	1412	75070	Acetaldehyde	0.04272	402.716	0.114449
D26RRT	1412	107028	Acrolein	0.02449	230.864	0.065610
D26RRT	1412	71432	Benzene	0.01681	158.466	0.045035
D26RRT	1412	100414	Ethyl benzene	0.00174	16.403	0.004662
D26RRT	1412	50000	Formaldehyde	0.1231	1160.448	0.329791
D26RRT	1412	67561	Methanol	0.01805	170.155	0.048357
D26RRT	1412	108383	m-Xylene	0.00282	26.584	0.007555
D26RRT	1412	91203	Naphthalene	0.00541	50.999	0.014494
D26RRT	1412	95476	o-Xylene	0.00166	15.649	0.004447
D26RRT	1412	108952	Phenol	0.00726	68.439	0.019450
D26RRT	1412	123386	Propionaldehyde	0.00727	68.533	0.019477
D26RRT	1412	100425	Styrene	0.00309	29.129	0.008278
D26RRT	1412	108883	Toluene	0.00642	60.521	0.017200

D26RRT	33	7439921	Lead		0.232	0.000066
D26RSO	25274	106990	1,3-Butadiene	0.01687	2846.571	0.808976
D26RSO	25274	75070	Acetaldehyde	0.04272	7208.388	2.048575
D26RSO	25274	107028	Acrolein	0.02449	4132.336	1.174382
D26RSO	25274	71432	Benzene	0.01681	2836.447	0.806099
D26RSO	25274	100414	Ethyl benzene	0.00174	293.600	0.083439
D26RSO	25274	50000	Formaldehyde	0.1231	20771.361	5.903080
D26RSO	25274	67561	Methanol	0.01805	3045.679	0.865561
D26RSO	25274	108383	m-Xylene	0.00282	475.835	0.135229
D26RSO	25274	91203	Naphthalene	0.00541	912.860	0.259429
D26RSO	25274	95476	o-Xylene	0.00166	280.101	0.079603
D26RSO	25274	108952	Phenol	0.00726	1225.021	0.348143
D26RSO	25274	123386	Propionaldehyde	0.00727	1226.708	0.348622
D26RSO	25274	100425	Styrene	0.00309	521.393	0.148176
D26RSO	25274	108883	Toluene	0.00642	1083.283	0.307862
D26RSO	597	7439921	Lead		4.151	0.001180
A08LSI	3155	106990	1,3-Butadiene	0.01687	14.749	0.004088
A08LSI	3155	75070	Acetaldehyde	0.04272	37.349	0.010353
A08LSI	3155	107028	Acrolein	0.02449	21.411	0.005935
A08LSI	3155	71432	Benzene	0.01681	14.697	0.004074
A08LSI	3155	100414	Ethyl benzene	0.00174	1.521	0.000422
A08LSI	3155	50000	Formaldehyde	0.1231	107.623	0.029832
A08LSI	3155	67561	Methanol	0.01805	15.781	0.004374
A08LSI	3155	108383	m-Xylene	0.00282	2.465	0.000683
A08LSI	3155	91203	Naphthalene	0.00541	4.730	0.001311
A08LSI	3155	95476	o-Xylene	0.00166	1.451	0.000402
A08LSI	3155	108952	Phenol	0.00726	6.347	0.001759
A08LSI	3155	123386	Propionaldehyde	0.00727	6.356	0.001762
A08LSI	3155	100425	Styrene	0.00309	2.702	0.000749
A08LSI	3155	108883	Toluene	0.00642	5.613	0.001556
A08LSI	74	7439921	Lead		0.088	0.000024
A08RSI	236	106990	1,3-Butadiene	0.01687	1.103	0.000306
A08RSI	236	75070	Acetaldehyde	0.04272	2.794	0.000774
A08RSI	236	107028	Acrolein	0.02449	1.602	0.000444
A08RSI	236	71432	Benzene	0.01681	1.099	0.000305
A08RSI	236	100414	Ethyl benzene	0.00174	0.114	0.000032
A08RSI	236	50000	Formaldehyde	0.1231	8.050	0.002231
A08RSI	236	67561	Methanol	0.01805	1.180	0.000327
A08RSI	236	108383	m-Xylene	0.00282	0.184	0.000051
A08RSI	236	91203	Naphthalene	0.00541	0.354	0.000098
A08RSI	236	95476	o-Xylene	0.00166	0.109	0.000030
A08RSI	236	108952	Phenol	0.00726	0.475	0.000132
A08RSI	236	123386	Propionaldehyde	0.00727	0.475	0.000132
A08RSI	236	100425	Styrene	0.00309	0.202	0.000056
A08RSI	236	108883	Toluene	0.00642	0.420	0.000116
A08RSI	6	7439921	Lead		0.007	0.000002
A26LSI	6390	106990	1,3-Butadiene	0.01687	29.872	0.008280

A26LSI	6390	75070	Acetaldehyde	0.04272	75.645	0.020968
A26LSI	6390	107028	Acrolein	0.02449	43.365	0.012020
A26LSI	6390	71432	Benzene	0.01681	29.766	0.008251
A26LSI	6390	100414	Ethyl benzene	0.00174	3.081	0.000854
A26LSI	6390	50000	Formaldehyde	0.1231	217.976	0.060420
A26LSI	6390	67561	Methanol	0.01805	31.961	0.008859
A26LSI	6390	108383	m-Xylene	0.00282	4.993	0.001384
A26LSI	6390	91203	Naphthalene	0.00541	9.580	0.002655
A26LSI	6390	95476	o-Xylene	0.00166	2.939	0.000815
A26LSI	6390	108952	Phenol	0.00726	12.855	0.003563
A26LSI	6390	123386	Propionaldehyde	0.00727	12.873	0.003568
A26LSI	6390	100425	Styrene	0.00309	5.472	0.001517
A26LSI	6390	108883	Toluene	0.00642	11.368	0.003151
A26LSI	151	7439921	Lead		0.178	0.000049
A26RSI	46645	106990	1,3-Butadiene	0.01687	218.057	0.060443
A26RSI	46645	75070	Acetaldehyde	0.04272	552.186	0.153059
A26RSI	46645	107028	Acrolein	0.02449	316.550	0.087744
A26RSI	46645	71432	Benzene	0.01681	217.281	0.060228
A26RSI	46645	100414	Ethyl benzene	0.00174	22.491	0.006234
A26RSI	46645	50000	Formaldehyde	0.1231	1591.154	0.441049
A26RSI	46645	67561	Methanol	0.01805	233.309	0.064670
A26RSI	46645	108383	m-Xylene	0.00282	36.450	0.010104
A26RSI	46645	91203	Naphthalene	0.00541	69.928	0.019383
A26RSI	46645	95476	o-Xylene	0.00166	21.457	0.005948
A26RSI	46645	108952	Phenol	0.00726	93.841	0.026011
A26RSI	46645	123386	Propionaldehyde	0.00727	93.970	0.026047
A26RSI	46645	100425	Styrene	0.00309	39.940	0.011071
A26RSI	46645	108883	Toluene	0.00642	82.983	0.023002
A26RSI	1101	7439921	Lead		1.298	0.000360
A08LGR	3155	106990	1,3-Butadiene	0.01687	19.754	0.005475
A08LGR	3155	75070	Acetaldehyde	0.04272	50.022	0.013866
A08LGR	3155	107028	Acrolein	0.02449	28.676	0.007949
A08LGR	3155	71432	Benzene	0.01681	19.683	0.005456
A08LGR	3155	100414	Ethyl benzene	0.00174	2.037	0.000565
A08LGR	3155	50000	Formaldehyde	0.1231	144.141	0.039954
A08LGR	3155	67561	Methanol	0.01805	21.135	0.005858
A08LGR	3155	108383	m-Xylene	0.00282	3.302	0.000915
A08LGR	3155	91203	Naphthalene	0.00541	6.335	0.001756
A08LGR	3155	95476	o-Xylene	0.00166	1.944	0.000539
A08LGR	3155	108952	Phenol	0.00726	8.501	0.002356
A08LGR	3155	123386	Propionaldehyde	0.00727	8.513	0.002360
A08LGR	3155	100425	Styrene	0.00309	3.618	0.001003
A08LGR	3155	108883	Toluene	0.00642	7.517	0.002084
A08LGR	74	7439921	Lead		0.072	0.000020
A08RGR	236	106990	1,3-Butadiene	0.01687	1.478	0.000410
A08RGR	236	75070	Acetaldehyde	0.04272	3.742	0.001037
A08RGR	236	107028	Acrolein	0.02449	2.145	0.000595

A08RGR	236	71432	Benzene	0.01681	1.472	0.000408
A08RGR	236	100414	Ethyl benzene	0.00174	0.152	0.000042
A08RGR	236	50000	Formaldehyde	0.1231	10.782	0.002989
A08RGR	236	67561	Methanol	0.01805	1.581	0.000438
A08RGR	236	108383	m-Xylene	0.00282	0.247	0.000068
A08RGR	236	91203	Naphthalene	0.00541	0.474	0.000131
A08RGR	236	95476	o-Xylene	0.00166	0.145	0.000040
A08RGR	236	108952	Phenol	0.00726	0.636	0.000176
A08RGR	236	123386	Propionaldehyde	0.00727	0.637	0.000177
A08RGR	236	100425	Styrene	0.00309	0.271	0.000075
A08RGR	236	108883	Toluene	0.00642	0.562	0.000156
A08RGR	6	7439921	Lead		0.005	0.000001
A26LGR	6390	106990	1,3-Butadiene	0.01687	40.008	0.011090
A26LGR	6390	75070	Acetaldehyde	0.04272	101.313	0.028083
A26LGR	6390	107028	Acrolein	0.02449	58.079	0.016099
A26LGR	6390	71432	Benzene	0.01681	39.866	0.011050
A26LGR	6390	100414	Ethyl benzene	0.00174	4.126	0.001144
A26LGR	6390	50000	Formaldehyde	0.1231	291.938	0.080922
A26LGR	6390	67561	Methanol	0.01805	42.806	0.011865
A26LGR	6390	108383	m-Xylene	0.00282	6.688	0.001854
A26LGR	6390	91203	Naphthalene	0.00541	12.830	0.003556
A26LGR	6390	95476	o-Xylene	0.00166	3.937	0.001091
A26LGR	6390	108952	Phenol	0.00726	17.217	0.004772
A26LGR	6390	123386	Propionaldehyde	0.00727	17.241	0.004779
A26LGR	6390	100425	Styrene	0.00309	7.328	0.002031
A26LGR	6390	108883	Toluene	0.00642	15.225	0.004220
A26LGR	151	7439921	Lead		0.146	0.000040
A26RGR	46645	106990	1,3-Butadiene	0.01687	292.046	0.080952
A26RGR	46645	75070	Acetaldehyde	0.04272	739.551	0.204995
A26RGR	46645	107028	Acrolein	0.02449	423.960	0.117517
A26RGR	46645	71432	Benzene	0.01681	291.008	0.080664
A26RGR	46645	100414	Ethyl benzene	0.00174	30.122	0.008350
A26RGR	46645	50000	Formaldehyde	0.1231	2131.055	0.590703
A26RGR	46645	67561	Methanol	0.01805	312.474	0.086614
A26RGR	46645	108383	m-Xylene	0.00282	48.819	0.013532
A26RGR	46645	91203	Naphthalene	0.00541	93.656	0.025960
A26RGR	46645	95476	o-Xylene	0.00166	28.737	0.007966
A26RGR	46645	108952	Phenol	0.00726	125.682	0.034838
A26RGR	46645	123386	Propionaldehyde	0.00727	125.855	0.034886
A26RGR	46645	100425	Styrene	0.00309	53.493	0.014828
A26RGR	46645	108883	Toluene	0.00642	111.140	0.030807
A26RGR	1101	7439921	Lead		1.066	0.000295
A08TX	3391	106990	1,3-Butadiene	0.01687	20.795	0.005764
A08TX	3391	75070	Acetaldehyde	0.04272	53.764	0.014903
A08TX	3391	107028	Acrolein	0.02449	30.821	0.008543
A08TX	3391	71432	Benzene	0.01681	21.156	0.005864
A08TX	3391	100414	Ethyl benzene	0.00174	2.190	0.000607

A08TX	3391	50000	Formaldehyde	0.1231	154.924	0.042943
A08TX	3391	67561	Methanol	0.01805	22.716	0.006297
A08TX	3391	108383	m-Xylene	0.00282	3.549	0.000984
A08TX	3391	91203	Naphthalene	0.00541	6.809	0.001887
A08TX	3391	95476	o-Xylene	0.00166	2.089	0.000579
A08TX	3391	108952	Phenol	0.00726	9.137	0.002533
A08TX	3391	123386	Propionaldehyde	0.00727	9.149	0.002536
A08TX	3391	100425	Styrene	0.00309	3.889	0.001078
A08TX	3391	108883	Toluene	0.00642	8.080	0.002240
A08TX	80	7439921	Lead		0.065	0.000018
A26TX	53035	106990	1,3-Butadiene	0.01687	325.231	0.090150
A26TX	53035	75070	Acetaldehyde	0.04272	840.863	0.233077
A26TX	53035	107028	Acrolein	0.02449	482.040	0.133616
A26TX	53035	71432	Benzene	0.01681	330.873	0.091714
A26TX	53035	100414	Ethyl benzene	0.00174	34.249	0.009493
A26TX	53035	50000	Formaldehyde	0.1231	2422.993	0.671625
A26TX	53035	67561	Methanol	0.01805	355.280	0.098480
A26TX	53035	108383	m-Xylene	0.00282	55.506	0.015386
A26TX	53035	91203	Naphthalene	0.00541	106.486	0.029517
A26TX	53035	95476	o-Xylene	0.00166	32.674	0.009057
A26TX	53035	108952	Phenol	0.00726	142.899	0.039610
A26TX	53035	123386	Propionaldehyde	0.00727	143.096	0.039665
A26TX	53035	100425	Styrene	0.00309	60.821	0.016859
A26TX	53035	108883	Toluene	0.00642	126.366	0.035027
A26TX	1252	7439921	Lead		1.017	0.000282
2023EV		9901	DieselExhPM		0	0
2023PV		9901	DieselExhPM		0	0
2024RR		9901	DieselExhPM		89.8	0.0569375
2025PD		9901	DieselExhPM		0	0
Batch		7440382	Arsenic		0.20822	0.00013
Batch		7440417	Beryllium		0.02133	0.00001
Batch		7440439	Cadmium		0.02671	0.00002
Batch		18540299	Cr(VI)		0.59941	0.00038
Batch		7439921	Lead		0.22960	0.00015
Batch		7439965	Manganese		2.73140	0.00174
Batch		7440020	Nickel		0.80452	0.00051
Batch		7782492	Selenium		0.02029	0.00001

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2025 No Action

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	117625	2678	2.28%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	58813	2.48584	16.53973	0.0281%
Ground Roll	93.5	58813	3.17957	16.53973	0.0281%
Climb to Mix	188	58813	6.39314	16.53973	0.0281%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from M	60.9	58813	0.74141	16.13425	0.0274%
Ground Roll	29.2	58813	0.99298	16.13425	0.0274%
Taxi In	28.6	58813	0.97257	16.13425	0.0274%

2025 No Action Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	14797	106990	1,3-Butadiene	0.01687	620.530	0.174509
D08TX	14797	75070	Acetaldehyde	0.04272	1571.372	0.441910
D08TX	14797	107028	Acrolein	0.02449	900.817	0.253333
D08TX	14797	71432	Benzene	0.01681	618.323	0.173888
D08TX	14797	100414	Ethyl benzene	0.00174	64.003	0.017999
D08TX	14797	50000	Formaldehyde	0.1231	4527.993	1.273388
D08TX	14797	67561	Methanol	0.01805	663.934	0.186715
D08TX	14797	108383	m-Xylene	0.00282	103.728	0.029171
D08TX	14797	91203	Naphthalene	0.00541	198.996	0.055963
D08TX	14797	95476	o-Xylene	0.00166	61.060	0.017172
D08TX	14797	108952	Phenol	0.00726	267.045	0.075100
D08TX	14797	123386	Propionaldehyde	0.00727	267.413	0.075203
D08TX	14797	100425	Styrene	0.00309	113.660	0.031964
D08TX	14797	108883	Toluene	0.00642	236.147	0.066411
D08TX	337	7439921	Lead		0.528	0.000149
D26TX	43344	106990	1,3-Butadiene	0.01687	1817.683	0.511179
D26TX	43344	75070	Acetaldehyde	0.04272	4602.929	1.294462
D26TX	43344	107028	Acrolein	0.02449	2638.711	0.742073
D26TX	43344	71432	Benzene	0.01681	1811.218	0.509361
D26TX	43344	100414	Ethyl benzene	0.00174	187.479	0.052724
D26TX	43344	50000	Formaldehyde	0.1231	13263.590	3.730062

D26TX	43344	67561	Methanol	0.01805	1944.824	0.546934
D26TX	43344	108383	m-Xylene	0.00282	303.845	0.085449
D26TX	43344	91203	Naphthalene	0.00541	582.908	0.163929
D26TX	43344	95476	o-Xylene	0.00166	178.859	0.050300
D26TX	43344	108952	Phenol	0.00726	782.239	0.219986
D26TX	43344	123386	Propionaldehyde	0.00727	783.317	0.220289
D26TX	43344	100425	Styrene	0.00309	332.937	0.093630
D26TX	43344	108883	Toluene	0.00642	691.732	0.194533
D26TX	987	7439921	Lead		1.547	0.000435
D08LGR	7256	106990	1,3-Butadiene	0.01687	389.207	0.109455
D08LGR	7256	75070	Acetaldehyde	0.04272	985.591	0.277174
D08LGR	7256	107028	Acrolein	0.02449	565.008	0.158895
D08LGR	7256	71432	Benzene	0.01681	387.823	0.109066
D08LGR	7256	100414	Ethyl benzene	0.00174	40.143	0.011289
D08LGR	7256	50000	Formaldehyde	0.1231	2840.034	0.798691
D08LGR	7256	67561	Methanol	0.01805	416.431	0.117111
D08LGR	7256	108383	m-Xylene	0.00282	65.060	0.018297
D08LGR	7256	91203	Naphthalene	0.00541	124.814	0.035101
D08LGR	7256	95476	o-Xylene	0.00166	38.298	0.010770
D08LGR	7256	108952	Phenol	0.00726	167.495	0.047104
D08LGR	7256	123386	Propionaldehyde	0.00727	167.726	0.047169
D08LGR	7256	100425	Styrene	0.00309	71.289	0.020048
D08LGR	7256	108883	Toluene	0.00642	148.116	0.041654
D08LGR	165	7439921	Lead		0.427	0.000120
D08RGR	7723	106990	1,3-Butadiene	0.01687	414.257	0.116500
D08RGR	7723	75070	Acetaldehyde	0.04272	1049.024	0.295013
D08RGR	7723	107028	Acrolein	0.02449	601.372	0.169121
D08RGR	7723	71432	Benzene	0.01681	412.783	0.116085
D08RGR	7723	100414	Ethyl benzene	0.00174	42.727	0.012016
D08RGR	7723	50000	Formaldehyde	0.1231	3022.821	0.850095
D08RGR	7723	67561	Methanol	0.01805	443.232	0.124648
D08RGR	7723	108383	m-Xylene	0.00282	69.247	0.019474
D08RGR	7723	91203	Naphthalene	0.00541	132.847	0.037360
D08RGR	7723	95476	o-Xylene	0.00166	40.763	0.011464
D08RGR	7723	108952	Phenol	0.00726	178.275	0.050136
D08RGR	7723	123386	Propionaldehyde	0.00727	178.521	0.050205
D08RGR	7723	100425	Styrene	0.00309	75.877	0.021339
D08RGR	7723	108883	Toluene	0.00642	157.648	0.044335
D08RGR	176	7439921	Lead		0.454	0.000128
D26LGR	17191	106990	1,3-Butadiene	0.01687	922.114	0.259322
D26LGR	17191	75070	Acetaldehyde	0.04272	2335.074	0.656683
D26LGR	17191	107028	Acrolein	0.02449	1338.623	0.376455
D26LGR	17191	71432	Benzene	0.01681	918.834	0.258400
D26LGR	17191	100414	Ethyl benzene	0.00174	95.108	0.026747
D26LGR	17191	50000	Formaldehyde	0.1231	6728.643	1.892267
D26LGR	17191	67561	Methanol	0.01805	986.613	0.277461
D26LGR	17191	108383	m-Xylene	0.00282	154.141	0.043348

D26LGR	17191	91203	Naphthalene	0.00541	295.710	0.083161
D26LGR	17191	95476	o-Xylene	0.00166	90.736	0.025517
D26LGR	17191	108952	Phenol	0.00726	396.831	0.111599
D26LGR	17191	123386	Propionaldehyde	0.00727	397.378	0.111753
D26LGR	17191	100425	Styrene	0.00309	168.899	0.047499
D26LGR	17191	108883	Toluene	0.00642	350.917	0.098687
D26LGR	391	7439921	Lead		1.011	0.000284
D26RGR	26153	106990	1,3-Butadiene	0.01687	1402.829	0.394512
D26RGR	26153	75070	Acetaldehyde	0.04272	3552.393	0.999024
D26RGR	26153	107028	Acrolein	0.02449	2036.473	0.572708
D26RGR	26153	71432	Benzene	0.01681	1397.840	0.393109
D26RGR	26153	100414	Ethyl benzene	0.00174	144.690	0.040691
D26RGR	26153	50000	Formaldehyde	0.1231	10236.414	2.878742
D26RGR	26153	67561	Methanol	0.01805	1500.953	0.422106
D26RGR	26153	108383	m-Xylene	0.00282	234.498	0.065947
D26RGR	26153	91203	Naphthalene	0.00541	449.870	0.126515
D26RGR	26153	95476	o-Xylene	0.00166	138.038	0.038820
D26RGR	26153	108952	Phenol	0.00726	603.707	0.169778
D26RGR	26153	123386	Propionaldehyde	0.00727	604.539	0.170012
D26RGR	26153	100425	Styrene	0.00309	256.950	0.072261
D26RGR	26153	108883	Toluene	0.00642	533.857	0.150134
D26RGR	595	7439921	Lead		1.538	0.000433
D08LRC	7165	106990	1,3-Butadiene	0.01687	772.762	0.217321
D08LRC	7165	75070	Acetaldehyde	0.04272	1956.870	0.550322
D08LRC	7165	107028	Acrolein	0.02449	1121.810	0.315482
D08LRC	7165	71432	Benzene	0.01681	770.014	0.216548
D08LRC	7165	100414	Ethyl benzene	0.00174	79.704	0.022415
D08LRC	7165	50000	Formaldehyde	0.1231	5638.827	1.585783
D08LRC	7165	67561	Methanol	0.01805	826.814	0.232521
D08LRC	7165	108383	m-Xylene	0.00282	129.175	0.036327
D08LRC	7165	91203	Naphthalene	0.00541	247.815	0.069692
D08LRC	7165	95476	o-Xylene	0.00166	76.039	0.021384
D08LRC	7165	108952	Phenol	0.00726	332.558	0.093524
D08LRC	7165	123386	Propionaldehyde	0.00727	333.016	0.093653
D08LRC	7165	100425	Styrene	0.00309	141.543	0.039806
D08LRC	7165	108883	Toluene	0.00642	294.080	0.082703
D08LRC	163	7439921	Lead		1.135	0.000319
D08LSO	91	106990	1,3-Butadiene	0.01687	9.815	0.002760
D08LSO	91	75070	Acetaldehyde	0.04272	24.853	0.006989
D08LSO	91	107028	Acrolein	0.02449	14.248	0.004007
D08LSO	91	71432	Benzene	0.01681	9.780	0.002750
D08LSO	91	100414	Ethyl benzene	0.00174	1.012	0.000285
D08LSO	91	50000	Formaldehyde	0.1231	71.617	0.020140
D08LSO	91	67561	Methanol	0.01805	10.501	0.002953
D08LSO	91	108383	m-Xylene	0.00282	1.641	0.000461
D08LSO	91	91203	Naphthalene	0.00541	3.147	0.000885
D08LSO	91	95476	o-Xylene	0.00166	0.966	0.000272

D08LSO	91	108952	Phenol	0.00726	4.224	0.001188
D08LSO	91	123386	Propionaldehyde	0.00727	4.230	0.001189
D08LSO	91	100425	Styrene	0.00309	1.798	0.000506
D08LSO	91	108883	Toluene	0.00642	3.735	0.001050
D08LSO	2	7439921	Lead		0.014	0.000004
D08RRC	7723	106990	1,3-Butadiene	0.01687	832.944	0.234245
D08RRC	7723	75070	Acetaldehyde	0.04272	2109.268	0.593180
D08RRC	7723	107028	Acrolein	0.02449	1209.175	0.340051
D08RRC	7723	71432	Benzene	0.01681	829.981	0.233412
D08RRC	7723	100414	Ethyl benzene	0.00174	85.911	0.024160
D08RRC	7723	50000	Formaldehyde	0.1231	6077.971	1.709281
D08RRC	7723	67561	Methanol	0.01805	891.205	0.250630
D08RRC	7723	108383	m-Xylene	0.00282	139.235	0.039157
D08RRC	7723	91203	Naphthalene	0.00541	267.115	0.075120
D08RRC	7723	95476	o-Xylene	0.00166	81.961	0.023050
D08RRC	7723	108952	Phenol	0.00726	358.457	0.100807
D08RRC	7723	123386	Propionaldehyde	0.00727	358.951	0.100946
D08RRC	7723	100425	Styrene	0.00309	152.566	0.042906
D08RRC	7723	108883	Toluene	0.00642	316.983	0.089144
D08RRC	176	7439921	Lead		1.223	0.000344
D26LLC	6561	106990	1,3-Butadiene	0.01687	707.619	0.199001
D26LLC	6561	75070	Acetaldehyde	0.04272	1791.908	0.503931
D26LLC	6561	107028	Acrolein	0.02449	1027.243	0.288887
D26LLC	6561	71432	Benzene	0.01681	705.103	0.198293
D26LLC	6561	100414	Ethyl benzene	0.00174	72.985	0.020525
D26LLC	6561	50000	Formaldehyde	0.1231	5163.481	1.452104
D26LLC	6561	67561	Methanol	0.01805	757.115	0.212920
D26LLC	6561	108383	m-Xylene	0.00282	118.286	0.033265
D26LLC	6561	91203	Naphthalene	0.00541	226.925	0.063817
D26LLC	6561	95476	o-Xylene	0.00166	69.629	0.019582
D26LLC	6561	108952	Phenol	0.00726	304.524	0.085640
D26LLC	6561	123386	Propionaldehyde	0.00727	304.943	0.085758
D26LLC	6561	100425	Styrene	0.00309	129.611	0.036450
D26LLC	6561	108883	Toluene	0.00642	269.290	0.075731
D26LLC	149	7439921	Lead		1.039	0.000292
D26LRT	604	106990	1,3-Butadiene	0.01687	65.143	0.018320
D26LRT	604	75070	Acetaldehyde	0.04272	164.962	0.046391
D26LRT	604	107028	Acrolein	0.02449	94.567	0.026595
D26LRT	604	71432	Benzene	0.01681	64.911	0.018255
D26LRT	604	100414	Ethyl benzene	0.00174	6.719	0.001890
D26LRT	604	50000	Formaldehyde	0.1231	475.346	0.133679
D26LRT	604	67561	Methanol	0.01805	69.699	0.019601
D26LRT	604	108383	m-Xylene	0.00282	10.889	0.003062
D26LRT	604	91203	Naphthalene	0.00541	20.890	0.005875
D26LRT	604	95476	o-Xylene	0.00166	6.410	0.001803
D26LRT	604	108952	Phenol	0.00726	28.034	0.007884
D26LRT	604	123386	Propionaldehyde	0.00727	28.073	0.007895

D26LRT	604	100425	Styrene	0.00309	11.932	0.003356
D26LRT	604	108883	Toluene	0.00642	24.791	0.006972
D26LRT	14	7439921	Lead		0.096	0.000027
D26LSO	9936	106990	1,3-Butadiene	0.01687	1071.621	0.301367
D26LSO	9936	75070	Acetaldehyde	0.04272	2713.672	0.763154
D26LSO	9936	107028	Acrolein	0.02449	1555.661	0.437492
D26LSO	9936	71432	Benzene	0.01681	1067.810	0.300295
D26LSO	9936	100414	Ethyl benzene	0.00174	110.529	0.031084
D26LSO	9936	50000	Formaldehyde	0.1231	7819.593	2.199070
D26LSO	9936	67561	Methanol	0.01805	1146.577	0.322447
D26LSO	9936	108383	m-Xylene	0.00282	179.133	0.050377
D26LSO	9936	91203	Naphthalene	0.00541	343.656	0.096645
D26LSO	9936	95476	o-Xylene	0.00166	105.447	0.029654
D26LSO	9936	108952	Phenol	0.00726	461.172	0.129693
D26LSO	9936	123386	Propionaldehyde	0.00727	461.807	0.129872
D26LSO	9936	100425	Styrene	0.00309	196.284	0.055200
D26LSO	9936	108883	Toluene	0.00642	407.813	0.114688
D26LSO	226	7439921	Lead		1.574	0.000443
D26RLC	10288	106990	1,3-Butadiene	0.01687	1109.585	0.312044
D26RLC	10288	75070	Acetaldehyde	0.04272	2809.808	0.790190
D26RLC	10288	107028	Acrolein	0.02449	1610.773	0.452991
D26RLC	10288	71432	Benzene	0.01681	1105.639	0.310934
D26RLC	10288	100414	Ethyl benzene	0.00174	114.444	0.032185
D26RLC	10288	50000	Formaldehyde	0.1231	8096.616	2.276976
D26RLC	10288	67561	Methanol	0.01805	1187.197	0.333870
D26RLC	10288	108383	m-Xylene	0.00282	185.479	0.052161
D26RLC	10288	91203	Naphthalene	0.00541	355.830	0.100069
D26RLC	10288	95476	o-Xylene	0.00166	109.183	0.030705
D26RLC	10288	108952	Phenol	0.00726	477.510	0.134288
D26RLC	10288	123386	Propionaldehyde	0.00727	478.167	0.134473
D26RLC	10288	100425	Styrene	0.00309	203.238	0.057156
D26RLC	10288	108883	Toluene	0.00642	422.261	0.118751
D26RLC	234	7439921	Lead		1.629	0.000458
D26RRT	529	106990	1,3-Butadiene	0.01687	57.054	0.016045
D26RRT	529	75070	Acetaldehyde	0.04272	144.478	0.040631
D26RRT	529	107028	Acrolein	0.02449	82.825	0.023292
D26RRT	529	71432	Benzene	0.01681	56.851	0.015988
D26RRT	529	100414	Ethyl benzene	0.00174	5.885	0.001655
D26RRT	529	50000	Formaldehyde	0.1231	416.321	0.117080
D26RRT	529	67561	Methanol	0.01805	61.045	0.017167
D26RRT	529	108383	m-Xylene	0.00282	9.537	0.002682
D26RRT	529	91203	Naphthalene	0.00541	18.296	0.005145
D26RRT	529	95476	o-Xylene	0.00166	5.614	0.001579
D26RRT	529	108952	Phenol	0.00726	24.553	0.006905
D26RRT	529	123386	Propionaldehyde	0.00727	24.587	0.006914
D26RRT	529	100425	Styrene	0.00309	10.450	0.002939
D26RRT	529	108883	Toluene	0.00642	21.712	0.006106

D26RRT	12	7439921	Lead		0.084	0.000024
D26RSO	15337	106990	1,3-Butadiene	0.01687	1654.131	0.465184
D26RSO	15337	75070	Acetaldehyde	0.04272	4188.767	1.177989
D26RSO	15337	107028	Acrolein	0.02449	2401.285	0.675303
D26RSO	15337	71432	Benzene	0.01681	1648.248	0.463530
D26RSO	15337	100414	Ethyl benzene	0.00174	170.610	0.047980
D26RSO	15337	50000	Formaldehyde	0.1231	12070.159	3.394439
D26RSO	15337	67561	Methanol	0.01805	1769.832	0.497722
D26RSO	15337	108383	m-Xylene	0.00282	276.506	0.077760
D26RSO	15337	91203	Naphthalene	0.00541	530.459	0.149179
D26RSO	15337	95476	o-Xylene	0.00166	162.766	0.045774
D26RSO	15337	108952	Phenol	0.00726	711.855	0.200192
D26RSO	15337	123386	Propionaldehyde	0.00727	712.836	0.200468
D26RSO	15337	100425	Styrene	0.00309	302.980	0.085206
D26RSO	15337	108883	Toluene	0.00642	629.492	0.177029
D26RSO	349	7439921	Lead		2.429	0.000683
A08LSI	2904	106990	1,3-Butadiene	0.01687	13.000	0.003566
A08LSI	2904	75070	Acetaldehyde	0.04272	32.920	0.009031
A08LSI	2904	107028	Acrolein	0.02449	18.872	0.005177
A08LSI	2904	71432	Benzene	0.01681	12.954	0.003554
A08LSI	2904	100414	Ethyl benzene	0.00174	1.341	0.000368
A08LSI	2904	50000	Formaldehyde	0.1231	94.860	0.026023
A08LSI	2904	67561	Methanol	0.01805	13.909	0.003816
A08LSI	2904	108383	m-Xylene	0.00282	2.173	0.000596
A08LSI	2904	91203	Naphthalene	0.00541	4.169	0.001144
A08LSI	2904	95476	o-Xylene	0.00166	1.279	0.000351
A08LSI	2904	108952	Phenol	0.00726	5.595	0.001535
A08LSI	2904	123386	Propionaldehyde	0.00727	5.602	0.001537
A08LSI	2904	100425	Styrene	0.00309	2.381	0.000653
A08LSI	2904	108883	Toluene	0.00642	4.947	0.001357
A08LSI	66	7439921	Lead		0.078	0.000021
A08RSI	972	106990	1,3-Butadiene	0.01687	4.351	0.001194
A08RSI	972	75070	Acetaldehyde	0.04272	11.019	0.003023
A08RSI	972	107028	Acrolein	0.02449	6.317	0.001733
A08RSI	972	71432	Benzene	0.01681	4.336	0.001189
A08RSI	972	100414	Ethyl benzene	0.00174	0.449	0.000123
A08RSI	972	50000	Formaldehyde	0.1231	31.751	0.008710
A08RSI	972	67561	Methanol	0.01805	4.656	0.001277
A08RSI	972	108383	m-Xylene	0.00282	0.727	0.000200
A08RSI	972	91203	Naphthalene	0.00541	1.395	0.000383
A08RSI	972	95476	o-Xylene	0.00166	0.428	0.000117
A08RSI	972	108952	Phenol	0.00726	1.873	0.000514
A08RSI	972	123386	Propionaldehyde	0.00727	1.875	0.000514
A08RSI	972	100425	Styrene	0.00309	0.797	0.000219
A08RSI	972	108883	Toluene	0.00642	1.656	0.000454
A08RSI	22	7439921	Lead		0.026	0.000007
A26LSI	26248	106990	1,3-Butadiene	0.01687	117.501	0.032234

A26LSI	26248	75070	Acetaldehyde	0.04272	297.549	0.081627
A26LSI	26248	107028	Acrolein	0.02449	170.575	0.046794
A26LSI	26248	71432	Benzene	0.01681	117.083	0.032120
A26LSI	26248	100414	Ethyl benzene	0.00174	12.119	0.003325
A26LSI	26248	50000	Formaldehyde	0.1231	857.403	0.235212
A26LSI	26248	67561	Methanol	0.01805	125.720	0.034489
A26LSI	26248	108383	m-Xylene	0.00282	19.642	0.005388
A26LSI	26248	91203	Naphthalene	0.00541	37.681	0.010337
A26LSI	26248	95476	o-Xylene	0.00166	11.562	0.003172
A26LSI	26248	108952	Phenol	0.00726	50.567	0.013872
A26LSI	26248	123386	Propionaldehyde	0.00727	50.636	0.013891
A26LSI	26248	100425	Styrene	0.00309	21.522	0.005904
A26LSI	26248	108883	Toluene	0.00642	44.716	0.012267
A26LSI	598	7439921	Lead		0.705	0.000193
A26RSI	28198	106990	1,3-Butadiene	0.01687	126.230	0.034629
A26RSI	28198	75070	Acetaldehyde	0.04272	319.654	0.087691
A26RSI	28198	107028	Acrolein	0.02449	183.247	0.050270
A26RSI	28198	71432	Benzene	0.01681	125.781	0.034506
A26RSI	28198	100414	Ethyl benzene	0.00174	13.020	0.003572
A26RSI	28198	50000	Formaldehyde	0.1231	921.100	0.252687
A26RSI	28198	67561	Methanol	0.01805	135.060	0.037051
A26RSI	28198	108383	m-Xylene	0.00282	21.101	0.005789
A26RSI	28198	91203	Naphthalene	0.00541	40.481	0.011105
A26RSI	28198	95476	o-Xylene	0.00166	12.421	0.003407
A26RSI	28198	108952	Phenol	0.00726	54.323	0.014903
A26RSI	28198	123386	Propionaldehyde	0.00727	54.398	0.014923
A26RSI	28198	100425	Styrene	0.00309	23.121	0.006343
A26RSI	28198	108883	Toluene	0.00642	48.038	0.013178
A26RSI	642	7439921	Lead		0.757	0.000208
A08LGR	2904	106990	1,3-Butadiene	0.01687	17.411	0.004776
A08LGR	2904	75070	Acetaldehyde	0.04272	44.090	0.012095
A08LGR	2904	107028	Acrolein	0.02449	25.275	0.006934
A08LGR	2904	71432	Benzene	0.01681	17.349	0.004759
A08LGR	2904	100414	Ethyl benzene	0.00174	1.796	0.000493
A08LGR	2904	50000	Formaldehyde	0.1231	127.048	0.034853
A08LGR	2904	67561	Methanol	0.01805	18.629	0.005110
A08LGR	2904	108383	m-Xylene	0.00282	2.910	0.000798
A08LGR	2904	91203	Naphthalene	0.00541	5.584	0.001532
A08LGR	2904	95476	o-Xylene	0.00166	1.713	0.000470
A08LGR	2904	108952	Phenol	0.00726	7.493	0.002056
A08LGR	2904	123386	Propionaldehyde	0.00727	7.503	0.002058
A08LGR	2904	100425	Styrene	0.00309	3.189	0.000875
A08LGR	2904	108883	Toluene	0.00642	6.626	0.001818
A08LGR	66	7439921	Lead		0.064	0.000018
A08RGR	972	106990	1,3-Butadiene	0.01687	5.828	0.001599
A08RGR	972	75070	Acetaldehyde	0.04272	14.757	0.004048
A08RGR	972	107028	Acrolein	0.02449	8.460	0.002321

A08RGR	972	71432	Benzene	0.01681	5.807	0.001593
A08RGR	972	100414	Ethyl benzene	0.00174	0.601	0.000165
A08RGR	972	50000	Formaldehyde	0.1231	42.524	0.011666
A08RGR	972	67561	Methanol	0.01805	6.235	0.001711
A08RGR	972	108383	m-Xylene	0.00282	0.974	0.000267
A08RGR	972	91203	Naphthalene	0.00541	1.869	0.000513
A08RGR	972	95476	o-Xylene	0.00166	0.573	0.000157
A08RGR	972	108952	Phenol	0.00726	2.508	0.000688
A08RGR	972	123386	Propionaldehyde	0.00727	2.511	0.000689
A08RGR	972	100425	Styrene	0.00309	1.067	0.000293
A08RGR	972	108883	Toluene	0.00642	2.218	0.000608
A08RGR	22	7439921	Lead		0.021	0.000006
A26LGR	26248	106990	1,3-Butadiene	0.01687	157.371	0.043172
A26LGR	26248	75070	Acetaldehyde	0.04272	398.511	0.109324
A26LGR	26248	107028	Acrolein	0.02449	228.454	0.062672
A26LGR	26248	71432	Benzene	0.01681	156.811	0.043018
A26LGR	26248	100414	Ethyl benzene	0.00174	16.231	0.004453
A26LGR	26248	50000	Formaldehyde	0.1231	1148.332	0.315023
A26LGR	26248	67561	Methanol	0.01805	168.378	0.046191
A26LGR	26248	108383	m-Xylene	0.00282	26.306	0.007217
A26LGR	26248	91203	Naphthalene	0.00541	50.467	0.013845
A26LGR	26248	95476	o-Xylene	0.00166	15.485	0.004248
A26LGR	26248	108952	Phenol	0.00726	67.725	0.018579
A26LGR	26248	123386	Propionaldehyde	0.00727	67.818	0.018605
A26LGR	26248	100425	Styrene	0.00309	28.825	0.007908
A26LGR	26248	108883	Toluene	0.00642	59.889	0.016429
A26LGR	598	7439921	Lead		0.578	0.000159
A26RGR	28198	106990	1,3-Butadiene	0.01687	169.062	0.046379
A26RGR	28198	75070	Acetaldehyde	0.04272	428.117	0.117446
A26RGR	28198	107028	Acrolein	0.02449	245.426	0.067328
A26RGR	28198	71432	Benzene	0.01681	168.461	0.046214
A26RGR	28198	100414	Ethyl benzene	0.00174	17.437	0.004784
A26RGR	28198	50000	Formaldehyde	0.1231	1233.643	0.338427
A26RGR	28198	67561	Methanol	0.01805	180.888	0.049623
A26RGR	28198	108383	m-Xylene	0.00282	28.261	0.007753
A26RGR	28198	91203	Naphthalene	0.00541	54.216	0.014873
A26RGR	28198	95476	o-Xylene	0.00166	16.636	0.004564
A26RGR	28198	108952	Phenol	0.00726	72.756	0.019959
A26RGR	28198	123386	Propionaldehyde	0.00727	72.856	0.019987
A26RGR	28198	100425	Styrene	0.00309	30.966	0.008495
A26RGR	28198	108883	Toluene	0.00642	64.338	0.017650
A26RGR	642	7439921	Lead		0.621	0.000170
A08TX	3876	106990	1,3-Butadiene	0.01687	22.761	0.006244
A08TX	3876	75070	Acetaldehyde	0.04272	58.848	0.016144
A08TX	3876	107028	Acrolein	0.02449	33.735	0.009255
A08TX	3876	71432	Benzene	0.01681	23.156	0.006352
A08TX	3876	100414	Ethyl benzene	0.00174	2.397	0.000658

A08TX	3876	50000	Formaldehyde	0.1231	169.572	0.046519
A08TX	3876	67561	Methanol	0.01805	24.864	0.006821
A08TX	3876	108383	m-Xylene	0.00282	3.885	0.001066
A08TX	3876	91203	Naphthalene	0.00541	7.452	0.002044
A08TX	3876	95476	o-Xylene	0.00166	2.287	0.000627
A08TX	3876	108952	Phenol	0.00726	10.001	0.002744
A08TX	3876	123386	Propionaldehyde	0.00727	10.015	0.002747
A08TX	3876	100425	Styrene	0.00309	4.257	0.001168
A08TX	3876	108883	Toluene	0.00642	8.844	0.002426
A08TX	88	7439921	Lead		0.072	0.000020
A26TX	54476	106990	1,3-Butadiene	0.01687	319.902	0.087759
A26TX	54476	75070	Acetaldehyde	0.04272	827.084	0.226895
A26TX	54476	107028	Acrolein	0.02449	474.141	0.130072
A26TX	54476	71432	Benzene	0.01681	325.451	0.089281
A26TX	54476	100414	Ethyl benzene	0.00174	33.687	0.009242
A26TX	54476	50000	Formaldehyde	0.1231	2383.287	0.653810
A26TX	54476	67561	Methanol	0.01805	349.458	0.095867
A26TX	54476	108383	m-Xylene	0.00282	54.597	0.014978
A26TX	54476	91203	Naphthalene	0.00541	104.741	0.028734
A26TX	54476	95476	o-Xylene	0.00166	32.139	0.008817
A26TX	54476	108952	Phenol	0.00726	140.558	0.038559
A26TX	54476	123386	Propionaldehyde	0.00727	140.751	0.038613
A26TX	54476	100425	Styrene	0.00309	59.824	0.016412
A26TX	54476	108883	Toluene	0.00642	124.295	0.034098
A26TX	1240	7439921	Lead		1.008	0.000276
2023EV		9901	DieselExhPM		0	0
2023PV		9901	DieselExhPM		0	0
2024RR		9901	DieselExhPM		0	0
2025PD		9901	DieselExhPM		0	0
Batch		7440382	Arsenic		0	0
Batch		7440417	Beryllium		0	0
Batch		7440439	Cadmium		0	0
Batch		18540299	Cr(VI)		0	0
Batch		7439921	Lead		0	0
Batch		7439965	Manganese		0	0
Batch		7440020	Nickel		0	0
Batch		7782492	Selenium		0	0

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Emissions Inventory 2025 Project

Piston Operations

	Total Ops	Piston Ops	% Piston
Piston Ops	117626	2678	2.28%

Departures

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Taxi Out	73.1	58813	2.48584	16.53973	0.0281%
Ground Roll	93.5	58813	3.17957	16.53973	0.0281%
Climb to Mix	188	58813	6.39314	16.53973	0.0281%

Arrivals

	TOG (ST)	Ops	TOG (lb./op)	Peak hr. Ops	Pk hr. %
Descend from M	60.9	58813	0.74141	16.13425	0.0274%
Ground Roll	29.2	58813	0.99298	16.13425	0.0274%
Taxi In	28.6	58813	0.97257	16.13425	0.0274%

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08TX	9736	106990	1,3-Butadiene	0.01687	408.291	0.114822
D08TX	9736	75070	Acetaldehyde	0.04272	1033.917	0.290764
D08TX	9736	107028	Acrolein	0.02449	592.712	0.166686
D08TX	9736	71432	Benzene	0.01681	406.839	0.114414
D08TX	9736	100414	Ethyl benzene	0.00174	42.112	0.011843
D08TX	9736	50000	Formaldehyde	0.1231	2979.289	0.837853
D08TX	9736	67561	Methanol	0.01805	436.849	0.122853
D08TX	9736	108383	m-Xylene	0.00282	68.250	0.019194
D08TX	9736	91203	Naphthalene	0.00541	130.934	0.036822
D08TX	9736	95476	o-Xylene	0.00166	40.176	0.011298
D08TX	9736	108952	Phenol	0.00726	175.708	0.049414
D08TX	9736	123386	Propionaldehyde	0.00727	175.950	0.049482
D08TX	9736	100425	Styrene	0.00309	74.785	0.021031
D08TX	9736	108883	Toluene	0.00642	155.378	0.043696
D08TX	222	7439921	Lead		0.348	0.000098
D26TX	48587	106990	1,3-Butadiene	0.01687	2037.554	0.573013
D26TX	48587	75070	Acetaldehyde	0.04272	5159.711	1.451043
D26TX	48587	107028	Acrolein	0.02449	2957.896	0.831836
D26TX	48587	71432	Benzene	0.01681	2030.308	0.570975
D26TX	48587	100414	Ethyl benzene	0.00174	210.157	0.059101
D26TX	48587	50000	Formaldehyde	0.1231	14867.987	4.181260

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26TX	48587	67561	Methanol	0.01805	2180.074	0.613093
D26TX	48587	108383	m-Xylene	0.00282	340.599	0.095785
D26TX	48587	91203	Naphthalene	0.00541	653.418	0.183758
D26TX	48587	95476	o-Xylene	0.00166	200.494	0.056384
D26TX	48587	108952	Phenol	0.00726	876.861	0.246596
D26TX	48587	123386	Propionaldehyde	0.00727	878.069	0.246935
D26TX	48587	100425	Styrene	0.00309	373.209	0.104956
D26TX	48587	108883	Toluene	0.00642	775.406	0.218064
D26TX	1106	7439921	Lead		1.734	0.000488
D08LGR	4232	106990	1,3-Butadiene	0.01687	227.002	0.063839
D08LGR	4232	75070	Acetaldehyde	0.04272	574.838	0.161659
D08LGR	4232	107028	Acrolein	0.02449	329.536	0.092674
D08LGR	4232	71432	Benzene	0.01681	226.194	0.063612
D08LGR	4232	100414	Ethyl benzene	0.00174	23.413	0.006584
D08LGR	4232	50000	Formaldehyde	0.1231	1656.426	0.465829
D08LGR	4232	67561	Methanol	0.01805	242.880	0.068304
D08LGR	4232	108383	m-Xylene	0.00282	37.946	0.010671
D08LGR	4232	91203	Naphthalene	0.00541	72.797	0.020472
D08LGR	4232	95476	o-Xylene	0.00166	22.337	0.006282
D08LGR	4232	108952	Phenol	0.00726	97.690	0.027473
D08LGR	4232	123386	Propionaldehyde	0.00727	97.825	0.027511
D08LGR	4232	100425	Styrene	0.00309	41.579	0.011693
D08LGR	4232	108883	Toluene	0.00642	86.387	0.024294
D08LGR	96	7439921	Lead		0.249	0.000070
D08RGR	5504	106990	1,3-Butadiene	0.01687	295.231	0.083027
D08RGR	5504	75070	Acetaldehyde	0.04272	747.615	0.210249
D08RGR	5504	107028	Acrolein	0.02449	428.584	0.120529
D08RGR	5504	71432	Benzene	0.01681	294.181	0.082731
D08RGR	5504	100414	Ethyl benzene	0.00174	30.451	0.008563
D08RGR	5504	50000	Formaldehyde	0.1231	2154.293	0.605842
D08RGR	5504	67561	Methanol	0.01805	315.881	0.088834
D08RGR	5504	108383	m-Xylene	0.00282	49.351	0.013879
D08RGR	5504	91203	Naphthalene	0.00541	94.677	0.026626
D08RGR	5504	95476	o-Xylene	0.00166	29.051	0.008170
D08RGR	5504	108952	Phenol	0.00726	127.053	0.035730
D08RGR	5504	123386	Propionaldehyde	0.00727	127.228	0.035780
D08RGR	5504	100425	Styrene	0.00309	54.076	0.015208
D08RGR	5504	108883	Toluene	0.00642	112.352	0.031596
D08RGR	125	7439921	Lead		0.324	0.000091
D26LGR	33331	106990	1,3-Butadiene	0.01687	1787.853	0.502790
D26LGR	33331	75070	Acetaldehyde	0.04272	4527.390	1.273218
D26LGR	33331	107028	Acrolein	0.02449	2595.407	0.729895
D26LGR	33331	71432	Benzene	0.01681	1781.494	0.501002

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LGR	33331	100414	Ethyl benzene	0.00174	184.402	0.051859
D26LGR	33331	50000	Formaldehyde	0.1231	13045.919	3.668847
D26LGR	33331	67561	Methanol	0.01805	1912.907	0.537959
D26LGR	33331	108383	m-Xylene	0.00282	298.859	0.084047
D26LGR	33331	91203	Naphthalene	0.00541	573.342	0.161239
D26LGR	33331	95476	o-Xylene	0.00166	175.924	0.049474
D26LGR	33331	108952	Phenol	0.00726	769.402	0.216376
D26LGR	33331	123386	Propionaldehyde	0.00727	770.462	0.216674
D26LGR	33331	100425	Styrene	0.00309	327.473	0.092094
D26LGR	33331	108883	Toluene	0.00642	680.380	0.191340
D26LGR	759	7439921	Lead		1.961	0.000551
D26RGR	15256	106990	1,3-Butadiene	0.01687	818.322	0.230133
D26RGR	15256	75070	Acetaldehyde	0.04272	2072.241	0.582767
D26RGR	15256	107028	Acrolein	0.02449	1187.949	0.334082
D26RGR	15256	71432	Benzene	0.01681	815.411	0.229315
D26RGR	15256	100414	Ethyl benzene	0.00174	84.403	0.023736
D26RGR	15256	50000	Formaldehyde	0.1231	5971.274	1.679276
D26RGR	15256	67561	Methanol	0.01805	875.560	0.246230
D26RGR	15256	108383	m-Xylene	0.00282	136.791	0.038469
D26RGR	15256	91203	Naphthalene	0.00541	262.426	0.073801
D26RGR	15256	95476	o-Xylene	0.00166	80.522	0.022645
D26RGR	15256	108952	Phenol	0.00726	352.164	0.099038
D26RGR	15256	123386	Propionaldehyde	0.00727	352.650	0.099174
D26RGR	15256	100425	Styrene	0.00309	149.888	0.042152
D26RGR	15256	108883	Toluene	0.00642	311.418	0.087579
D26RGR	347	7439921	Lead		0.897	0.000252
D08LRC	4179	106990	1,3-Butadiene	0.01687	450.715	0.126753
D08LRC	4179	75070	Acetaldehyde	0.04272	1141.348	0.320976
D08LRC	4179	107028	Acrolein	0.02449	654.298	0.184005
D08LRC	4179	71432	Benzene	0.01681	449.112	0.126302
D08LRC	4179	100414	Ethyl benzene	0.00174	46.487	0.013073
D08LRC	4179	50000	Formaldehyde	0.1231	3288.857	0.924911
D08LRC	4179	67561	Methanol	0.01805	482.241	0.135619
D08LRC	4179	108383	m-Xylene	0.00282	75.342	0.021188
D08LRC	4179	91203	Naphthalene	0.00541	144.539	0.040648
D08LRC	4179	95476	o-Xylene	0.00166	44.350	0.012472
D08LRC	4179	108952	Phenol	0.00726	193.965	0.054548
D08LRC	4179	123386	Propionaldehyde	0.00727	194.232	0.054623
D08LRC	4179	100425	Styrene	0.00309	82.555	0.023217
D08LRC	4179	108883	Toluene	0.00642	171.523	0.048237
D08LRC	95	7439921	Lead		0.662	0.000186
D08LSO	53	106990	1,3-Butadiene	0.01687	5.716	0.001608
D08LSO	53	75070	Acetaldehyde	0.04272	14.475	0.004071

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D08LSO	53	107028	Acrolein	0.02449	8.298	0.002334
D08LSO	53	71432	Benzene	0.01681	5.696	0.001602
D08LSO	53	100414	Ethyl benzene	0.00174	0.590	0.000166
D08LSO	53	50000	Formaldehyde	0.1231	41.711	0.011730
D08LSO	53	67561	Methanol	0.01805	6.116	0.001720
D08LSO	53	108383	m-Xylene	0.00282	0.956	0.000269
D08LSO	53	91203	Naphthalene	0.00541	1.833	0.000516
D08LSO	53	95476	o-Xylene	0.00166	0.562	0.000158
D08LSO	53	108952	Phenol	0.00726	2.460	0.000692
D08LSO	53	123386	Propionaldehyde	0.00727	2.463	0.000693
D08LSO	53	100425	Styrene	0.00309	1.047	0.000294
D08LSO	53	108883	Toluene	0.00642	2.175	0.000612
D08LSO	1	7439921	Lead		0.008	0.000002
D08RRC	5504	106990	1,3-Butadiene	0.01687	593.619	0.166941
D08RRC	5504	75070	Acetaldehyde	0.04272	1503.226	0.422746
D08RRC	5504	107028	Acrolein	0.02449	861.751	0.242346
D08RRC	5504	71432	Benzene	0.01681	591.508	0.166347
D08RRC	5504	100414	Ethyl benzene	0.00174	61.227	0.017219
D08RRC	5504	50000	Formaldehyde	0.1231	4331.626	1.218165
D08RRC	5504	67561	Methanol	0.01805	635.141	0.178618
D08RRC	5504	108383	m-Xylene	0.00282	99.230	0.027906
D08RRC	5504	91203	Naphthalene	0.00541	190.366	0.053536
D08RRC	5504	95476	o-Xylene	0.00166	58.412	0.016427
D08RRC	5504	108952	Phenol	0.00726	255.464	0.071843
D08RRC	5504	123386	Propionaldehyde	0.00727	255.816	0.071942
D08RRC	5504	100425	Styrene	0.00309	108.731	0.030578
D08RRC	5504	108883	Toluene	0.00642	225.906	0.063531
D08RRC	125	7439921	Lead		0.872	0.000245
D26LLC	14649	106990	1,3-Butadiene	0.01687	1579.929	0.444317
D26LLC	14649	75070	Acetaldehyde	0.04272	4000.864	1.125146
D26LLC	14649	107028	Acrolein	0.02449	2293.566	0.645010
D26LLC	14649	71432	Benzene	0.01681	1574.310	0.442736
D26LLC	14649	100414	Ethyl benzene	0.00174	162.957	0.045828
D26LLC	14649	50000	Formaldehyde	0.1231	11528.705	3.242168
D26LLC	14649	67561	Methanol	0.01805	1690.440	0.475395
D26LLC	14649	108383	m-Xylene	0.00282	264.102	0.074272
D26LLC	14649	91203	Naphthalene	0.00541	506.664	0.142487
D26LLC	14649	95476	o-Xylene	0.00166	155.464	0.043721
D26LLC	14649	108952	Phenol	0.00726	679.922	0.191212
D26LLC	14649	123386	Propionaldehyde	0.00727	680.859	0.191475
D26LLC	14649	100425	Styrene	0.00309	289.388	0.081383
D26LLC	14649	108883	Toluene	0.00642	601.253	0.169088
D26LLC	334	7439921	Lead		2.320	0.000652

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26LRT	717	106990	1,3-Butadiene	0.01687	77.330	0.021747
D26LRT	717	75070	Acetaldehyde	0.04272	195.824	0.055071
D26LRT	717	107028	Acrolein	0.02449	112.259	0.031570
D26LRT	717	71432	Benzene	0.01681	77.055	0.021670
D26LRT	717	100414	Ethyl benzene	0.00174	7.976	0.002243
D26LRT	717	50000	Formaldehyde	0.1231	564.276	0.158689
D26LRT	717	67561	Methanol	0.01805	82.739	0.023268
D26LRT	717	108383	m-Xylene	0.00282	12.927	0.003635
D26LRT	717	91203	Naphthalene	0.00541	24.799	0.006974
D26LRT	717	95476	o-Xylene	0.00166	7.609	0.002140
D26LRT	717	108952	Phenol	0.00726	33.279	0.009359
D26LRT	717	123386	Propionaldehyde	0.00727	33.325	0.009372
D26LRT	717	100425	Styrene	0.00309	14.164	0.003983
D26LRT	717	108883	Toluene	0.00642	29.429	0.008276
D26LRT	16	7439921	Lead		0.114	0.000032
D26LSO	17965	106990	1,3-Butadiene	0.01687	1937.567	0.544894
D26LSO	17965	75070	Acetaldehyde	0.04272	4906.513	1.379838
D26LSO	17965	107028	Acrolein	0.02449	2812.746	0.791016
D26LSO	17965	71432	Benzene	0.01681	1930.676	0.542956
D26LSO	17965	100414	Ethyl benzene	0.00174	199.844	0.056201
D26LSO	17965	50000	Formaldehyde	0.1231	14138.384	3.976077
D26LSO	17965	67561	Methanol	0.01805	2073.094	0.583007
D26LSO	17965	108383	m-Xylene	0.00282	323.885	0.091085
D26LSO	17965	91203	Naphthalene	0.00541	621.354	0.174741
D26LSO	17965	95476	o-Xylene	0.00166	190.656	0.053617
D26LSO	17965	108952	Phenol	0.00726	833.832	0.234495
D26LSO	17965	123386	Propionaldehyde	0.00727	834.980	0.234818
D26LSO	17965	100425	Styrene	0.00309	354.895	0.099806
D26LSO	17965	108883	Toluene	0.00642	737.355	0.207363
D26LSO	409	7439921	Lead		2.845	0.000800
D26RLC	6001	106990	1,3-Butadiene	0.01687	647.222	0.182015
D26RLC	6001	75070	Acetaldehyde	0.04272	1638.964	0.460919
D26RLC	6001	107028	Acrolein	0.02449	939.565	0.264230
D26RLC	6001	71432	Benzene	0.01681	644.920	0.181368
D26RLC	6001	100414	Ethyl benzene	0.00174	66.756	0.018773
D26RLC	6001	50000	Formaldehyde	0.1231	4722.763	1.328162
D26RLC	6001	67561	Methanol	0.01805	692.493	0.194747
D26RLC	6001	108383	m-Xylene	0.00282	108.190	0.030426
D26RLC	6001	91203	Naphthalene	0.00541	207.556	0.058370
D26RLC	6001	95476	o-Xylene	0.00166	63.686	0.017910
D26RLC	6001	108952	Phenol	0.00726	278.532	0.078330
D26RLC	6001	123386	Propionaldehyde	0.00727	278.915	0.078438
D26RLC	6001	100425	Styrene	0.00309	118.549	0.033339

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
D26RLC	6001	108883	Toluene	0.00642	246.305	0.069267
D26RLC	137	7439921	Lead		0.950	0.000267
D26RRT	308	106990	1,3-Butadiene	0.01687	33.219	0.009342
D26RRT	308	75070	Acetaldehyde	0.04272	84.119	0.023657
D26RRT	308	107028	Acrolein	0.02449	48.223	0.013562
D26RRT	308	71432	Benzene	0.01681	33.100	0.009309
D26RRT	308	100414	Ethyl benzene	0.00174	3.426	0.000964
D26RRT	308	50000	Formaldehyde	0.1231	242.395	0.068168
D26RRT	308	67561	Methanol	0.01805	35.542	0.009995
D26RRT	308	108383	m-Xylene	0.00282	5.553	0.001562
D26RRT	308	91203	Naphthalene	0.00541	10.653	0.002996
D26RRT	308	95476	o-Xylene	0.00166	3.269	0.000919
D26RRT	308	108952	Phenol	0.00726	14.296	0.004020
D26RRT	308	123386	Propionaldehyde	0.00727	14.315	0.004026
D26RRT	308	100425	Styrene	0.00309	6.084	0.001711
D26RRT	308	108883	Toluene	0.00642	12.642	0.003555
D26RRT	7	7439921	Lead		0.049	0.000014
D26RSO	8947	106990	1,3-Butadiene	0.01687	964.955	0.271370
D26RSO	8947	75070	Acetaldehyde	0.04272	2443.561	0.687192
D26RSO	8947	107028	Acrolein	0.02449	1400.815	0.393945
D26RSO	8947	71432	Benzene	0.01681	961.523	0.270405
D26RSO	8947	100414	Ethyl benzene	0.00174	99.527	0.027990
D26RSO	8947	50000	Formaldehyde	0.1231	7041.254	1.980181
D26RSO	8947	67561	Methanol	0.01805	1032.450	0.290352
D26RSO	8947	108383	m-Xylene	0.00282	161.302	0.045362
D26RSO	8947	91203	Naphthalene	0.00541	309.449	0.087025
D26RSO	8947	95476	o-Xylene	0.00166	94.951	0.026703
D26RSO	8947	108952	Phenol	0.00726	415.268	0.116784
D26RSO	8947	123386	Propionaldehyde	0.00727	415.840	0.116945
D26RSO	8947	100425	Styrene	0.00309	176.746	0.049706
D26RSO	8947	108883	Toluene	0.00642	367.221	0.103272
D26RSO	204	7439921	Lead		1.417	0.000399
A08LSI	1694	106990	1,3-Butadiene	0.01687	7.583	0.002080
A08LSI	1694	75070	Acetaldehyde	0.04272	19.203	0.005268
A08LSI	1694	107028	Acrolein	0.02449	11.009	0.003020
A08LSI	1694	71432	Benzene	0.01681	7.556	0.002073
A08LSI	1694	100414	Ethyl benzene	0.00174	0.782	0.000215
A08LSI	1694	50000	Formaldehyde	0.1231	55.335	0.015180
A08LSI	1694	67561	Methanol	0.01805	8.114	0.002226
A08LSI	1694	108383	m-Xylene	0.00282	1.268	0.000348
A08LSI	1694	91203	Naphthalene	0.00541	2.432	0.000667
A08LSI	1694	95476	o-Xylene	0.00166	0.746	0.000205
A08LSI	1694	108952	Phenol	0.00726	3.263	0.000895

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A08LSI	1694	123386	Propionaldehyde	0.00727	3.268	0.000897
A08LSI	1694	100425	Styrene	0.00309	1.389	0.000381
A08LSI	1694	108883	Toluene	0.00642	2.886	0.000792
A08LSI	39	7439921	Lead		0.045	0.000012
A08RSI	1977	106990	1,3-Butadiene	0.01687	8.850	0.002428
A08RSI	1977	75070	Acetaldehyde	0.04272	22.411	0.006148
A08RSI	1977	107028	Acrolein	0.02449	12.848	0.003525
A08RSI	1977	71432	Benzene	0.01681	8.819	0.002419
A08RSI	1977	100414	Ethyl benzene	0.00174	0.913	0.000250
A08RSI	1977	50000	Formaldehyde	0.1231	64.580	0.017716
A08RSI	1977	67561	Methanol	0.01805	9.469	0.002598
A08RSI	1977	108383	m-Xylene	0.00282	1.479	0.000406
A08RSI	1977	91203	Naphthalene	0.00541	2.838	0.000779
A08RSI	1977	95476	o-Xylene	0.00166	0.871	0.000239
A08RSI	1977	108952	Phenol	0.00726	3.809	0.001045
A08RSI	1977	123386	Propionaldehyde	0.00727	3.814	0.001046
A08RSI	1977	100425	Styrene	0.00309	1.621	0.000445
A08RSI	1977	108883	Toluene	0.00642	3.368	0.000924
A08RSI	45	7439921	Lead		0.053	0.000015
A26LSI	38156	106990	1,3-Butadiene	0.01687	170.808	0.046858
A26LSI	38156	75070	Acetaldehyde	0.04272	432.538	0.118659
A26LSI	38156	107028	Acrolein	0.02449	247.960	0.068023
A26LSI	38156	71432	Benzene	0.01681	170.201	0.046691
A26LSI	38156	100414	Ethyl benzene	0.00174	17.617	0.004833
A26LSI	38156	50000	Formaldehyde	0.1231	1246.383	0.341922
A26LSI	38156	67561	Methanol	0.01805	182.756	0.050136
A26LSI	38156	108383	m-Xylene	0.00282	28.552	0.007833
A26LSI	38156	91203	Naphthalene	0.00541	54.776	0.015027
A26LSI	38156	95476	o-Xylene	0.00166	16.807	0.004611
A26LSI	38156	108952	Phenol	0.00726	73.507	0.020165
A26LSI	38156	123386	Propionaldehyde	0.00727	73.608	0.020193
A26LSI	38156	100425	Styrene	0.00309	31.286	0.008583
A26LSI	38156	108883	Toluene	0.00642	65.002	0.017832
A26LSI	869	7439921	Lead		1.024	0.000281
A26RSI	16496	106990	1,3-Butadiene	0.01687	73.846	0.020258
A26RSI	16496	75070	Acetaldehyde	0.04272	187.000	0.051300
A26RSI	16496	107028	Acrolein	0.02449	107.201	0.029409
A26RSI	16496	71432	Benzene	0.01681	73.583	0.020186
A26RSI	16496	100414	Ethyl benzene	0.00174	7.617	0.002089
A26RSI	16496	50000	Formaldehyde	0.1231	538.849	0.147823
A26RSI	16496	67561	Methanol	0.01805	79.011	0.021675
A26RSI	16496	108383	m-Xylene	0.00282	12.344	0.003386
A26RSI	16496	91203	Naphthalene	0.00541	23.681	0.006497

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26RSI	16496	95476	o-Xylene	0.00166	7.266	0.001993
A26RSI	16496	108952	Phenol	0.00726	31.779	0.008718
A26RSI	16496	123386	Propionaldehyde	0.00727	31.823	0.008730
A26RSI	16496	100425	Styrene	0.00309	13.526	0.003711
A26RSI	16496	108883	Toluene	0.00642	28.102	0.007709
A26RSI	376	7439921	Lead		0.443	0.000121
A08LGR	1694	106990	1,3-Butadiene	0.01687	10.156	0.002786
A08LGR	1694	75070	Acetaldehyde	0.04272	25.719	0.007056
A08LGR	1694	107028	Acrolein	0.02449	14.744	0.004045
A08LGR	1694	71432	Benzene	0.01681	10.120	0.002776
A08LGR	1694	100414	Ethyl benzene	0.00174	1.048	0.000287
A08LGR	1694	50000	Formaldehyde	0.1231	74.111	0.020331
A08LGR	1694	67561	Methanol	0.01805	10.867	0.002981
A08LGR	1694	108383	m-Xylene	0.00282	1.698	0.000466
A08LGR	1694	91203	Naphthalene	0.00541	3.257	0.000894
A08LGR	1694	95476	o-Xylene	0.00166	0.999	0.000274
A08LGR	1694	108952	Phenol	0.00726	4.371	0.001199
A08LGR	1694	123386	Propionaldehyde	0.00727	4.377	0.001201
A08LGR	1694	100425	Styrene	0.00309	1.860	0.000510
A08LGR	1694	108883	Toluene	0.00642	3.865	0.001060
A08LGR	39	7439921	Lead		0.037	0.000010
A08RGR	1977	106990	1,3-Butadiene	0.01687	11.853	0.003252
A08RGR	1977	75070	Acetaldehyde	0.04272	30.016	0.008234
A08RGR	1977	107028	Acrolein	0.02449	17.207	0.004720
A08RGR	1977	71432	Benzene	0.01681	11.811	0.003240
A08RGR	1977	100414	Ethyl benzene	0.00174	1.223	0.000335
A08RGR	1977	50000	Formaldehyde	0.1231	86.492	0.023728
A08RGR	1977	67561	Methanol	0.01805	12.682	0.003479
A08RGR	1977	108383	m-Xylene	0.00282	1.981	0.000544
A08RGR	1977	91203	Naphthalene	0.00541	3.801	0.001043
A08RGR	1977	95476	o-Xylene	0.00166	1.166	0.000320
A08RGR	1977	108952	Phenol	0.00726	5.101	0.001399
A08RGR	1977	123386	Propionaldehyde	0.00727	5.108	0.001401
A08RGR	1977	100425	Styrene	0.00309	2.171	0.000596
A08RGR	1977	108883	Toluene	0.00642	4.511	0.001237
A08RGR	45	7439921	Lead		0.044	0.000012
A26LGR	38156	106990	1,3-Butadiene	0.01687	228.766	0.062758
A26LGR	38156	75070	Acetaldehyde	0.04272	579.305	0.158921
A26LGR	38156	107028	Acrolein	0.02449	332.097	0.091105
A26LGR	38156	71432	Benzene	0.01681	227.952	0.062534
A26LGR	38156	100414	Ethyl benzene	0.00174	23.595	0.006473
A26LGR	38156	50000	Formaldehyde	0.1231	1669.299	0.457941
A26LGR	38156	67561	Methanol	0.01805	244.767	0.067147

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26LGR	38156	108383	m-Xylene	0.00282	38.241	0.010491
A26LGR	38156	91203	Naphthalene	0.00541	73.362	0.020126
A26LGR	38156	95476	o-Xylene	0.00166	22.510	0.006175
A26LGR	38156	108952	Phenol	0.00726	98.449	0.027008
A26LGR	38156	123386	Propionaldehyde	0.00727	98.585	0.027045
A26LGR	38156	100425	Styrene	0.00309	41.902	0.011495
A26LGR	38156	108883	Toluene	0.00642	87.058	0.023883
A26LGR	869	7439921	Lead		0.841	0.000231
A26RGR	16496	106990	1,3-Butadiene	0.01687	98.902	0.027132
A26RGR	16496	75070	Acetaldehyde	0.04272	250.451	0.068707
A26RGR	16496	107028	Acrolein	0.02449	143.576	0.039387
A26RGR	16496	71432	Benzene	0.01681	98.551	0.027036
A26RGR	16496	100414	Ethyl benzene	0.00174	10.201	0.002798
A26RGR	16496	50000	Formaldehyde	0.1231	721.689	0.197982
A26RGR	16496	67561	Methanol	0.01805	105.820	0.029030
A26RGR	16496	108383	m-Xylene	0.00282	16.533	0.004535
A26RGR	16496	91203	Naphthalene	0.00541	31.717	0.008701
A26RGR	16496	95476	o-Xylene	0.00166	9.732	0.002670
A26RGR	16496	108952	Phenol	0.00726	42.563	0.011676
A26RGR	16496	123386	Propionaldehyde	0.00727	42.621	0.011692
A26RGR	16496	100425	Styrene	0.00309	18.115	0.004970
A26RGR	16496	108883	Toluene	0.00642	37.638	0.010325
A26RGR	376	7439921	Lead		0.364	0.000100
A08TX	3671	106990	1,3-Butadiene	0.01687	21.557	0.005914
A08TX	3671	75070	Acetaldehyde	0.04272	55.735	0.015290
A08TX	3671	107028	Acrolein	0.02449	31.951	0.008765
A08TX	3671	71432	Benzene	0.01681	21.931	0.006016
A08TX	3671	100414	Ethyl benzene	0.00174	2.270	0.000623
A08TX	3671	50000	Formaldehyde	0.1231	160.604	0.044059
A08TX	3671	67561	Methanol	0.01805	23.549	0.006460
A08TX	3671	108383	m-Xylene	0.00282	3.679	0.001009
A08TX	3671	91203	Naphthalene	0.00541	7.058	0.001936
A08TX	3671	95476	o-Xylene	0.00166	2.166	0.000594
A08TX	3671	108952	Phenol	0.00726	9.472	0.002598
A08TX	3671	123386	Propionaldehyde	0.00727	9.485	0.002602
A08TX	3671	100425	Styrene	0.00309	4.031	0.001106
A08TX	3671	108883	Toluene	0.00642	8.376	0.002298
A08TX	84	7439921	Lead		0.068	0.000019
A26TX	54562	106990	1,3-Butadiene	0.01687	320.407	0.087898
A26TX	54562	75070	Acetaldehyde	0.04272	828.390	0.227253
A26TX	54562	107028	Acrolein	0.02449	474.889	0.130277
A26TX	54562	71432	Benzene	0.01681	325.965	0.089422
A26TX	54562	100414	Ethyl benzene	0.00174	33.741	0.009256

2025 Project Emissions by Source

Source ID	Ops	CAS	Desc.	Mass Fraction	lbs./yr.	lbs./hr.
A26TX	54562	50000	Formaldehyde	0.1231	2387.050	0.654842
A26TX	54562	67561	Methanol	0.01805	350.010	0.096019
A26TX	54562	108383	m-Xylene	0.00282	54.683	0.015001
A26TX	54562	91203	Naphthalene	0.00541	104.906	0.028779
A26TX	54562	95476	o-Xylene	0.00166	32.189	0.008831
A26TX	54562	108952	Phenol	0.00726	140.780	0.038620
A26TX	54562	123386	Propionaldehyde	0.00727	140.974	0.038673
A26TX	54562	100425	Styrene	0.00309	59.919	0.016438
A26TX	54562	108883	Toluene	0.00642	124.491	0.034152
A26TX	1242	7439921	Lead		1.009	0.000277
2023EV		9901	DieselExhPM		0	0
2023PV		9901	DieselExhPM		0	0
2024RR		9901	DieselExhPM		0	0
2025PD		9901	DieselExhPM		31.6	0.036675
Batch		7440382	Arsenic		0.07516	0.00005
Batch		7440417	Beryllium		0.00770	0.00000
Batch		7440439	Cadmium		0.00964	0.00001
Batch		18540299	Cr(VI)		0.21636	0.00014
Batch		7439921	Lead		0.08287	0.00005
Batch		7439965	Manganese		0.98592	0.00063
Batch		7440020	Nickel		0.29040	0.00019
Batch		7782492	Selenium		0.00733	0.00000

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Concrete Throughput

Year	CY	Days
2023	44,291	195
2024	36,272	197
2025	20,488	196

Batch Plant Emissions Calculations

1 CY Concrete (lbs.)	4024
Dry Material (lbs.)	3857
Tons loaded per CY	1.9285

	Emission Factor (lb./ton dry)	Emissions Factor (lb./CY Concrete)	2023 lbs./yr.	2023 lbs./hr.	2024 lbs./yr.	2024 lbs./hr.	2025 lbs./yr.	2025 lbs./hr.
Arsenic	1.90224E-06	3.66847E-06	0.16248	1.0415E-04	0.13306	8.4431E-05	0.07516	4.7933E-05
Beryllium	1.94886E-07	3.75838E-07	0.01665	1.0671E-05	0.01363	8.6500E-06	0.00770	4.9108E-06
Cadmium	2.43968E-07	4.70492E-07	0.02084	1.3358E-05	0.01707	1.0828E-05	0.00964	6.1476E-06
Cr(VI)	5.47600E-06	1.05605E-05	0.46773	2.9983E-04	0.38305	2.4305E-04	0.21636	1.3799E-04
Lead	2.09750E-06	4.04503E-06	0.17916	1.1485E-04	0.14672	9.3097E-05	0.08287	5.2854E-05
Manganese	2.49530E-05	4.81219E-05	2.13137	1.3663E-03	1.74548	1.1075E-03	0.98592	6.2878E-04
Nickel	7.34980E-06	1.41741E-05	0.62778	4.0243E-04	0.51412	3.2622E-04	0.29040	1.8520E-04
Selenium	1.85400E-07	3.57544E-07	0.01584	1.0151E-05	0.01297	8.2290E-06	0.00733	4.6718E-06

Notes:
1. Concrete throughput from HNTB.
2. Emissions factors (pounds per ton of loaded dry material) from U.S. EPA AP-42 Chapter 11.12, *Concrete Batching*, Table 11.12-8 *Concrete Batch Plant Metal Emissions Factors*. Loaded dry material includes course aggregate, sand, cement, cement supplement and the surface moisture associated with these materials.
3. Where data for controlled emissions was available, emissions factors assume fugitive dust control from fabric filters (e.g., baghouse).

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

	g/LTO	lb/LTO
Lead Emissions per LTO	7.34	0.01618

Aircraft Exhaust Lead Emissions Calculations

	Jet Fuel (tons)	% of total	Lead (lb/op)
Taxi Out	9795.93	9.69%	1.5679E-03
Dep Ground Roll	16141.06	15.97%	2.5835E-03
Climb Below 1000 ft AFE	18127.39	17.93%	
Climb Below Mixing Height	25335.82	25.06%	
Climb to mix subtotal		42.99%	6.9567E-03
Descend Below Mixing Height	14187.35	14.03%	
Descend Below 1000 ft AFE	6387.97	6.32%	
Descend from mix subtotal		20.35%	3.2933E-03
Descend from 5km (35.8% of mix)		7.29%	1.1790E-03
App Ground Roll	6047.74	5.98%	9.6800E-04
Taxi In	5075.53	5.02%	8.1238E-04
Total	101098.79		

Notes:
1. Lead emissions in aircraft pitson engine exhaust calculated from the U.S. EPA *Calculating Piston-Engine Aircraft Airport Inventories for Lead for the 2008 National Emissions Inventory* (USEPA 2010, p. 14): 7.34 grams of lead per landing takeoff operation (LTO).
2. Lead emissions per modeled source activity calcuated assuming leaded avgas comsumption per acttivity is proportional to the jet fuel burned. Jet fuel burned

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

On-site Construction Equipment DPM Emissions Calculations

Max Daily Emissions

	Exhaust PM10 (lb/day)
3.2 2023 - South Elec Vault, Scenario 5 - 2023	
On-Site	0.0212
3.3 2023 - Paving/Demo, Scenarios 1, 2, 3 and 4 - 2023	
On-Site	0.3222
3.4 2024- Runway Rehab, Service Road, NAVAID, Scenario 6 - 2024	
Total	0.4555
3.5 2025 - Paving/Demo, Scenario 7 & 8 - 2025	
On-Site	0.2934
3.2 2023 - South Elec Vault, Scenario 5 - 2023 - 2 YR Alt	
On-Site	0.0212
3.3 2023 - Paving/Demo, Scenarios 1, 2, 3 and 4 - 2023 - 2 YR Alt	
On-Site	0.3222
3.4 2023 - Paving/Demo, Scenario 7 & 8 - 2023 2 YR Alt	
On-Site	0.2934
3.5 2024- Runway Rehab, Service Road, NAVAID, Scenario 6 - 2024 2 YR Alt	
On-Site	0.4555

Annual Emissions

	Exhaust PM10 (tons/yr)
3.2 2023 - South Elec Vault, Scenario 5 - 2023	
On-Site	0.0021
3.3 2023 - Paving/Demo, Scenarios 1, 2, 3 and 4 - 2023	
On-Site	0.0314
3.4 2024- Runway Rehab, Service Road, NAVAID, Scenario 6 - 2024	
On-Site	0.0449
3.5 2025 - Paving/Demo, Scenario 7 & 8 - 2025	
On-Site	0.0158
3.2 2023 - South Elec Vault, Scenario 5 - 2023 - 2 YR Alt	
On-Site	0.0021
3.3 2023 - Paving/Demo, Scenarios 1, 2, 3 and 4 - 2023 - 2 YR Alt	
On-Site	0.0314
3.4 2023 - Paving/Demo, Scenario 7 & 8 - 2023 2 YR Alt	
On-Site	0.0158
3.5 2024- Runway Rehab, Service Road, NAVAID, Scenario 6 - 2024 2 YR Alt	
On-Site	0.0449

Notes:
1. Exhaust PM10 emissions reported from project CalEEMod runs provided by HNTB.

HARP Project Summary Report 4/21/2022 09:41:48 AM

PROJECT INFORMATION
HARP Version: 21081
Project Name: ONT RISK 2024PA
Project Output Directory: C:\Users\martinr\Desktop\ONT HRA\ONT RISK 2024PA
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

POLLUTANT HEALTH INFORMATION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
106990	1,3-Butadiene	0.6		660	2		9
75070	Acetaldehyde	0.01		470	140		300
107028	Acrolein			2.5 0.35 0.7			
71432	Benzene	0.1 27	3		3		
100414	Ethyl Benzene	0.0087			2000		
50000	Formaldehyde	0.021		55	9		9
67561	Methanol			28000	4000		
108383	m-Xylene	22000	700				
91203	Naphthalene	0.12			9		
95476	o-Xylene			22000	700		
108952	Phenol			5800	200		
123386	Propionaldehyde						
100425	Styrene			21000	900		
108883	Toluene			5000	420		830
7439921	Lead	0.042	0.0085				
9901	DieselExhPM	1.1			5		
7440382	Arsenic	12	1.5	0.2	0.015	3.50E-06	0.015
7440417	Beryllium	8.4			0.007	0.002	
7440439	Cadmium	15			0.02	0.0005	
18540299	Cr (VI)	510	0.5		0.2	0.02	
7439965	Manganese				0.09		0.17
7440020	Nickel	0.91		0.2	0.014	0.011	0.06
7782492	Selenium				20	0.005	

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Residential Cancer Risk

	UTM (m)			No Action				With Project				Net
ID	X	Y	SCENARIO	2023	2024	2025	Total	2023	2024	2025	Total	per million
H1	443818.03	3765934.14	1YrCancerRMP_InhSoilDermMMilkCrops	1.07E-06	9.96E-07	9.84E-07	3.05E-06	9.30E-07	9.79E-07	1.01E-06	2.92E-06	-0.13
R01	445946.84	3767789.93	1YrCancerRMP_InhSoilDermMMilkCrops	3.64E-06	3.40E-06	3.36E-06	1.04E-05	3.21E-06	3.25E-06	3.57E-06	1.00E-05	-0.36
R02	448001.77	3765079.22	1YrCancerRMP_InhSoilDermMMilkCrops	7.15E-07	6.68E-07	6.61E-07	2.04E-06	4.62E-07	5.04E-07	5.66E-07	1.53E-06	-0.51
R03	447122.94	3765379.32	1YrCancerRMP_InhSoilDermMMilkCrops	7.25E-07	6.78E-07	6.70E-07	2.07E-06	5.36E-07	5.77E-07	6.20E-07	1.73E-06	-0.34
R04	446042.57	3765649.63	1YrCancerRMP_InhSoilDermMMilkCrops	8.23E-07	7.68E-07	7.60E-07	2.35E-06	6.72E-07	7.14E-07	7.48E-07	2.13E-06	-0.22
R05	442937.76	3766057.37	1YrCancerRMP_InhSoilDermMMilkCrops	1.10E-06	1.02E-06	1.01E-06	3.13E-06	9.70E-07	1.02E-06	1.05E-06	3.04E-06	-0.09
R06	441491.30	3766217.18	1YrCancerRMP_InhSoilDermMMilkCrops	1.13E-06	1.06E-06	1.05E-06	3.24E-06	1.08E-06	1.09E-06	1.17E-06	3.33E-06	0.10
R07	440503.41	3767876.66	1YrCancerRMP_InhSoilDermMMilkCrops	5.28E-06	4.93E-06	4.88E-06	1.51E-05	5.62E-06	7.25E-06	4.78E-06	1.77E-05	2.57
R08	442036.65	3768089.20	1YrCancerRMP_InhSoilDermMMilkCrops	3.69E-06	3.44E-06	3.40E-06	1.05E-05	3.56E-06	3.38E-06	3.98E-06	1.09E-05	0.38
R09	441322.28	3768350.40	1YrCancerRMP_InhSoilDermMMilkCrops	8.10E-06	7.56E-06	7.45E-06	2.31E-05	8.79E-06	6.76E-06	1.05E-05	2.61E-05	2.96
R10	441344.10	3768445.29	1YrCancerRMP_InhSoilDermMMilkCrops	1.03E-05	9.60E-06	9.48E-06	2.94E-05	1.07E-05	1.01E-05	1.17E-05	3.24E-05	3.03
R11	441157.93	3769147.37	1YrCancerRMP_InhSoilDermMMilkCrops	2.42E-06	2.25E-06	2.22E-06	6.89E-06	2.34E-06	2.89E-06	2.14E-06	7.37E-06	0.49
R12	441198.12	3769179.74	1YrCancerRMP_InhSoilDermMMilkCrops	2.29E-06	2.14E-06	2.11E-06	6.54E-06	2.19E-06	2.64E-06	2.06E-06	6.89E-06	0.35
R13	441523.43	3769228.54	1YrCancerRMP_InhSoilDermMMilkCrops	2.25E-06	2.09E-06	2.07E-06	6.41E-06	2.11E-06	2.49E-06	2.04E-06	6.64E-06	0.23
R14	442119.99	3769274.66	1YrCancerRMP_InhSoilDermMMilkCrops	2.37E-06	2.21E-06	2.19E-06	6.78E-06	2.19E-06	2.58E-06	2.14E-06	6.91E-06	0.13
R15	442529.07	3769329.90	1YrCancerRMP_InhSoilDermMMilkCrops	2.48E-06	2.31E-06	2.28E-06	7.07E-06	2.22E-06	2.61E-06	2.21E-06	7.04E-06	-0.03
R16	443919.05	3769724.99	1YrCancerRMP_InhSoilDermMMilkCrops	2.24E-06	2.09E-06	2.06E-06	6.39E-06	1.93E-06	2.22E-06	1.99E-06	6.14E-06	-0.25
R17	444881.55	3770085.97	1YrCancerRMP_InhSoilDermMMilkCrops	1.88E-06	1.76E-06	1.74E-06	5.38E-06	1.63E-06	1.85E-06	1.70E-06	5.18E-06	-0.19
R18	446023.97	3770078.04	1YrCancerRMP_InhSoilDermMMilkCrops	2.10E-06	1.96E-06	1.94E-06	6.00E-06	1.81E-06	2.03E-06	1.89E-06	5.73E-06	-0.27
R19	447309.34	3770459.37	1YrCancerRMP_InhSoilDermMMilkCrops	1.59E-06	1.48E-06	1.47E-06	4.54E-06	1.37E-06	1.52E-06	1.43E-06	4.32E-06	-0.22
R20	441112.11	3768749.68	1YrCancerRMP_InhSoilDermMMilkCrops	4.96E-06	4.63E-06	4.59E-06	1.42E-05	4.76E-06	6.27E-06	4.14E-06	1.52E-05	0.99
R21	441900.00	3768900.00	1YrCancerRMP_InhSoilDermMMilkCrops	4.28E-06	3.99E-06	3.95E-06	1.22E-05	4.06E-06	5.08E-06	3.72E-06	1.29E-05	0.64
R22	442000.00	3769000.00	1YrCancerRMP_InhSoilDermMMilkCrops	3.50E-06	3.26E-06	3.23E-06	9.98E-06	3.28E-06	4.02E-06	3.08E-06	1.04E-05	0.40
S1	440398.94	3766842.56	1YrCancerRMP_InhSoilDermMMilkCrops	3.29E-06	3.07E-06	3.03E-06	9.39E-06	3.63E-06	3.72E-06	3.70E-06	1.10E-05	1.66
S2	440262.43	3766643.39	1YrCancerRMP_InhSoilDermMMilkCrops	2.99E-06	2.79E-06	2.76E-06	8.55E-06	3.23E-06	3.83E-06	2.97E-06	1.00E-05	1.48
S3	440295.60	3767639.22	1YrCancerRMP_InhSoilDermMMilkCrops	3.40E-06	3.17E-06	3.14E-06	9.71E-06	3.57E-06	4.54E-06	3.10E-06	1.12E-05	1.50
S4	440612.34	3769925.99	1YrCancerRMP_InhSoilDermMMilkCrops	9.68E-07	9.01E-07	8.89E-07	2.76E-06	8.97E-07	1.02E-06	8.98E-07	2.81E-06	0.06
S5	441198.61	3769729.73	1YrCancerRMP_InhSoilDermMMilkCrops	1.24E-06	1.16E-06	1.14E-06	3.55E-06	1.16E-06	1.34E-06	1.15E-06	3.64E-06	0.10

Residential Cancer Risk - 2-Year Alternate

	UTM (m)			No Action			With Project			Net
ID	X	Y	SCENARIO	2023	2024	Total	2023	2024	Total	per million
H1	443818.03	3765934.14	1YrCancerRMP_InhSoilDermMMilkCrops	1.07E-06	9.96E-07	2.06E-06	9.43E-07	9.80E-07	1.92E-06	-0.14
R01	445946.84	3767789.93	1YrCancerRMP_InhSoilDermMMilkCrops	3.64E-06	3.40E-06	7.03E-06	3.32E-06	3.26E-06	6.58E-06	-0.45
R02	448001.77	3765079.22	1YrCancerRMP_InhSoilDermMMilkCrops	7.15E-07	6.68E-07	1.38E-06	4.60E-07	5.05E-07	9.65E-07	-0.42
R03	447122.94	3765379.32	1YrCancerRMP_InhSoilDermMMilkCrops	7.25E-07	6.78E-07	1.40E-06	5.38E-07	5.78E-07	1.12E-06	-0.29
R04	446042.57	3765649.63	1YrCancerRMP_InhSoilDermMMilkCrops	8.23E-07	7.68E-07	1.59E-06	6.79E-07	7.15E-07	1.39E-06	-0.20
R05	442937.76	3766057.37	1YrCancerRMP_InhSoilDermMMilkCrops	1.10E-06	1.02E-06	2.12E-06	9.85E-07	1.02E-06	2.00E-06	-0.12
R06	441491.3	3766217.18	1YrCancerRMP_InhSoilDermMMilkCrops	1.13E-06	1.06E-06	2.19E-06	1.12E-06	1.09E-06	2.20E-06	0.01
R07	440503.41	3767876.66	1YrCancerRMP_InhSoilDermMMilkCrops	5.28E-06	4.93E-06	1.02E-05	5.11E-06	7.25E-06	1.24E-05	2.16
R08	442036.65	3768089.2	1YrCancerRMP_InhSoilDermMMilkCrops	3.69E-06	3.44E-06	7.14E-06	3.78E-06	3.38E-06	7.16E-06	0.03
R09	441322.28	3768350.4	1YrCancerRMP_InhSoilDermMMilkCrops	8.10E-06	7.56E-06	1.57E-05	1.01E-05	6.76E-06	1.68E-05	1.17
R10	441344.1	3768445.29	1YrCancerRMP_InhSoilDermMMilkCrops	1.03E-05	9.60E-06	1.99E-05	1.14E-05	1.01E-05	2.15E-05	1.56
R11	441157.93	3769147.37	1YrCancerRMP_InhSoilDermMMilkCrops	2.42E-06	2.25E-06	4.67E-06	2.18E-06	2.89E-06	5.07E-06	0.41
R12	441198.12	3769179.74	1YrCancerRMP_InhSoilDermMMilkCrops	2.29E-06	2.14E-06	4.43E-06	2.07E-06	2.64E-06	4.71E-06	0.28
R13	441523.43	3769228.54	1YrCancerRMP_InhSoilDermMMilkCrops	2.25E-06	2.09E-06	4.34E-06	2.02E-06	2.49E-06	4.51E-06	0.17
R14	442119.99	3769274.66	1YrCancerRMP_InhSoilDermMMilkCrops	2.37E-06	2.21E-06	4.59E-06	2.09E-06	2.58E-06	4.68E-06	0.09
R15	442529.07	3769329.9	1YrCancerRMP_InhSoilDermMMilkCrops	2.48E-06	2.31E-06	4.79E-06	2.13E-06	2.62E-06	4.75E-06	-0.04
R16	443919.05	3769724.99	1YrCancerRMP_InhSoilDermMMilkCrops	2.24E-06	2.09E-06	4.32E-06	1.88E-06	2.22E-06	4.10E-06	-0.23
R17	444881.55	3770085.97	1YrCancerRMP_InhSoilDermMMilkCrops	1.88E-06	1.76E-06	3.64E-06	1.60E-06	1.86E-06	3.46E-06	-0.18
R18	446023.97	3770078.04	1YrCancerRMP_InhSoilDermMMilkCrops	2.10E-06	1.96E-06	4.06E-06	1.77E-06	2.04E-06	3.81E-06	-0.25
R19	447309.34	3770459.37	1YrCancerRMP_InhSoilDermMMilkCrops	1.59E-06	1.48E-06	3.07E-06	1.34E-06	1.53E-06	2.87E-06	-0.21
R20	441112.11	3768749.68	1YrCancerRMP_InhSoilDermMMilkCrops	4.96E-06	4.63E-06	9.58E-06	4.26E-06	6.27E-06	1.05E-05	0.94
R21	441900	3768900	1YrCancerRMP_InhSoilDermMMilkCrops	4.28E-06	3.99E-06	8.27E-06	3.75E-06	5.08E-06	8.83E-06	0.56
R22	442000	3769000	1YrCancerRMP_InhSoilDermMMilkCrops	3.50E-06	3.26E-06	6.76E-06	3.07E-06	4.02E-06	7.09E-06	0.33
S1	440398.94	3766842.56	1YrCancerRMP_InhSoilDermMMilkCrops	3.29E-06	3.07E-06	6.36E-06	3.74E-06	3.72E-06	7.46E-06	1.10
S2	440262.43	3766643.39	1YrCancerRMP_InhSoilDermMMilkCrops	2.99E-06	2.79E-06	5.78E-06	3.10E-06	3.83E-06	6.92E-06	1.14
S3	440295.6	3767639.22	1YrCancerRMP_InhSoilDermMMilkCrops	3.40E-06	3.17E-06	6.57E-06	3.28E-06	4.54E-06	7.82E-06	1.25
S4	440612.34	3769925.99	1YrCancerRMP_InhSoilDermMMilkCrops	9.68E-07	9.01E-07	1.87E-06	8.76E-07	1.02E-06	1.90E-06	0.03
S5	441198.61	3769729.73	1YrCancerRMP_InhSoilDermMMilkCrops	1.24E-06	1.16E-06	2.40E-06	1.12E-06	1.34E-06	2.46E-06	0.06

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Worker Cancer Risk - Top 20 Receptors

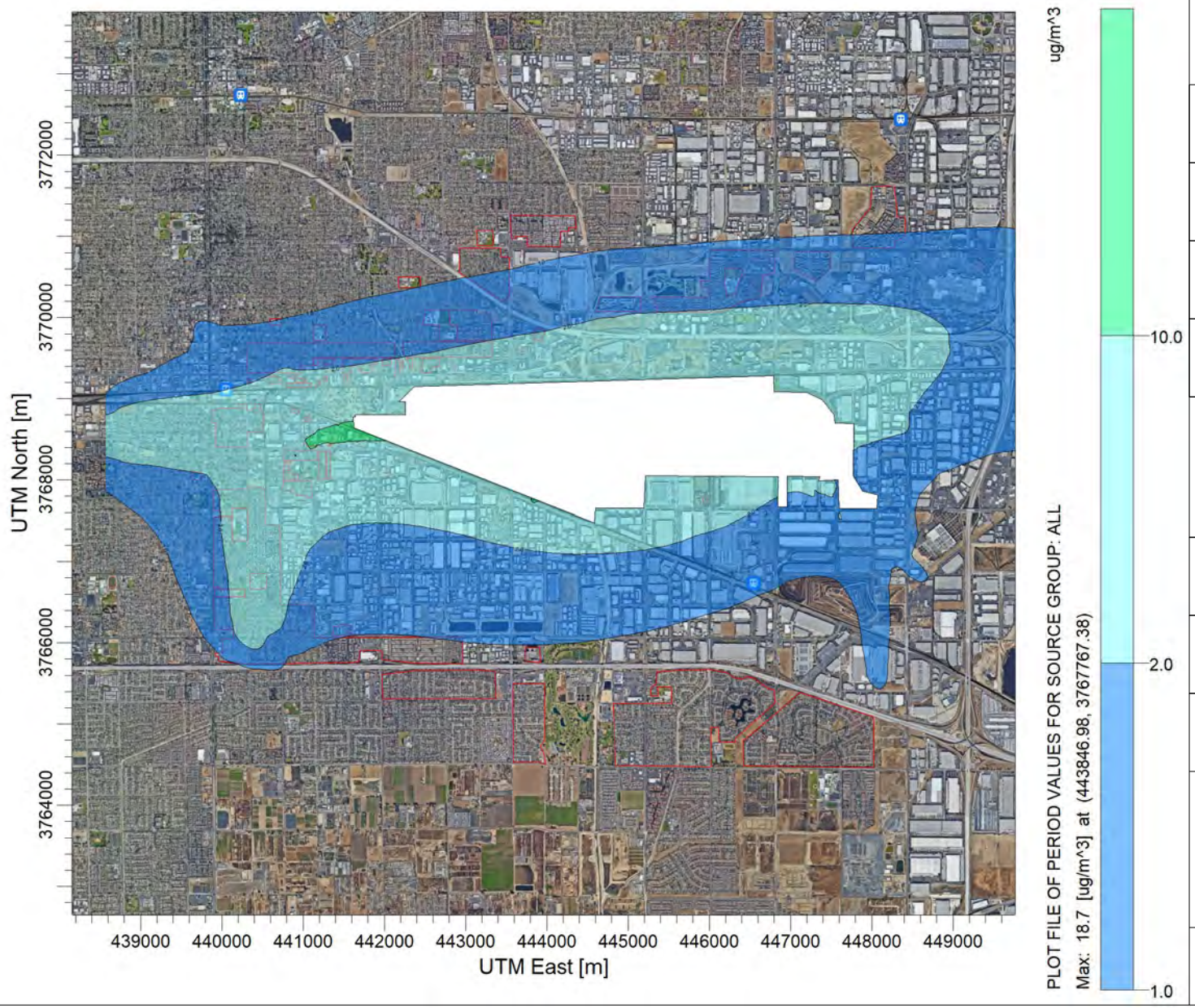
	UTM (m)			No Project				With Project				Net
ID	X	Y	SCENARIO	2023	2024	2025	Total	2023	2024	2025	Total	per million
2080	443847	3767767	1YrCancerDerived_InhSoilDerm	5.74E-08	5.80E-08	5.73E-08	1.73E-07	2.19E-07	1.92E-07	1.38E-07	5.49E-07	0.38
1433	440900	3768300	1YrCancerDerived_InhSoilDerm	1.23E-07	1.24E-07	1.23E-07	3.70E-07	1.28E-07	1.60E-07	1.32E-07	4.19E-07	0.05
1450	441100	3768400	1YrCancerDerived_InhSoilDerm	1.46E-07	1.47E-07	1.45E-07	4.39E-07	1.51E-07	1.66E-07	1.71E-07	4.88E-07	0.05
1879	441585	3768547	1YrCancerDerived_InhSoilDerm	1.47E-07	1.48E-07	1.47E-07	4.42E-07	1.47E-07	2.06E-07	1.38E-07	4.90E-07	0.05
1467	441400	3768500	1YrCancerDerived_InhSoilDerm	1.43E-07	1.44E-07	1.43E-07	4.30E-07	1.45E-07	1.88E-07	1.45E-07	4.78E-07	0.05
1468	441500	3768500	1YrCancerDerived_InhSoilDerm	1.44E-07	1.45E-07	1.44E-07	4.33E-07	1.46E-07	1.85E-07	1.50E-07	4.81E-07	0.05
1914	441522	3768637	1YrCancerDerived_InhSoilDerm	1.49E-07	1.51E-07	1.50E-07	4.49E-07	1.46E-07	2.29E-07	1.22E-07	4.97E-07	0.05
1434	441000	3768300	1YrCancerDerived_InhSoilDerm	1.21E-07	1.22E-07	1.20E-07	3.63E-07	1.27E-07	1.45E-07	1.39E-07	4.11E-07	0.05
1599	441344	3768445	1YrCancerDerived_InhSoilDerm	1.50E-07	1.51E-07	1.49E-07	4.49E-07	1.55E-07	1.58E-07	1.83E-07	4.97E-07	0.05
1878	441678	3768511	1YrCancerDerived_InhSoilDerm	1.47E-07	1.49E-07	1.47E-07	4.43E-07	1.49E-07	1.87E-07	1.54E-07	4.90E-07	0.05
1451	441200	3768400	1YrCancerDerived_InhSoilDerm	1.27E-07	1.28E-07	1.26E-07	3.81E-07	1.32E-07	1.48E-07	1.47E-07	4.28E-07	0.05
1480	441600	3768600	1YrCancerDerived_InhSoilDerm	1.40E-07	1.41E-07	1.40E-07	4.21E-07	1.38E-07	2.05E-07	1.23E-07	4.67E-07	0.05
1598	441322	3768350	1YrCancerDerived_InhSoilDerm	1.18E-07	1.19E-07	1.17E-07	3.54E-07	1.28E-07	1.06E-07	1.65E-07	3.99E-07	0.05
1452	441300	3768400	1YrCancerDerived_InhSoilDerm	1.23E-07	1.25E-07	1.23E-07	3.71E-07	1.31E-07	1.28E-07	1.57E-07	4.16E-07	0.05
734	441075	3768325	1YrCancerDerived_InhSoilDerm	1.20E-07	1.21E-07	1.20E-07	3.61E-07	1.27E-07	1.33E-07	1.47E-07	4.06E-07	0.05
1469	441600	3768500	1YrCancerDerived_InhSoilDerm	1.41E-07	1.42E-07	1.41E-07	4.24E-07	1.43E-07	1.73E-07	1.53E-07	4.69E-07	0.05
1470	441700	3768500	1YrCancerDerived_InhSoilDerm	1.42E-07	1.44E-07	1.42E-07	4.28E-07	1.45E-07	1.70E-07	1.58E-07	4.73E-07	0.05
1471	441800	3768500	1YrCancerDerived_InhSoilDerm	1.44E-07	1.46E-07	1.44E-07	4.34E-07	1.47E-07	1.70E-07	1.62E-07	4.78E-07	0.04
1877	441771	3768475	1YrCancerDerived_InhSoilDerm	1.43E-07	1.44E-07	1.42E-07	4.30E-07	1.48E-07	1.47E-07	1.79E-07	4.75E-07	0.04
1465	441200	3768500	1YrCancerDerived_InhSoilDerm	1.36E-07	1.37E-07	1.36E-07	4.09E-07	1.37E-07	1.83E-07	1.35E-07	4.54E-07	0.04

Worker Cancer Risk - 2-Year Alternate - Top 20 Receptors

	UTM (m)			No Project			With Project			Net
ID	X	Y	SCENARIO	2023	2024	Total	2023	2024	Total	per million
2080	443847	3767767	1YrCancerDerived_InhSoilDerm	5.74E-08	5.80E-08	1.15E-07	2.20E-07	2.71E-07	4.91E-07	0.38
1914	441522	3768637	1YrCancerDerived_InhSoilDerm	1.49E-07	1.51E-07	3.00E-07	1.22E-07	2.29E-07	3.51E-07	0.05
1480	441600	3768600	1YrCancerDerived_InhSoilDerm	1.40E-07	1.41E-07	2.81E-07	1.21E-07	2.05E-07	3.26E-07	0.04
1879	441585	3768547	1YrCancerDerived_InhSoilDerm	1.47E-07	1.48E-07	2.95E-07	1.33E-07	2.06E-07	3.39E-07	0.04
2079	443940	3767731	1YrCancerDerived_InhSoilDerm	5.60E-08	5.66E-08	1.13E-07	7.21E-08	8.12E-08	1.53E-07	0.04
1479	441500	3768600	1YrCancerDerived_InhSoilDerm	1.26E-07	1.27E-07	2.53E-07	1.10E-07	1.81E-07	2.91E-07	0.04
1467	441400	3768500	1YrCancerDerived_InhSoilDerm	1.43E-07	1.44E-07	2.87E-07	1.37E-07	1.88E-07	3.26E-07	0.04
1916	441440	3768580	1YrCancerDerived_InhSoilDerm	1.26E-07	1.27E-07	2.53E-07	1.12E-07	1.80E-07	2.91E-07	0.04
1478	441400	3768600	1YrCancerDerived_InhSoilDerm	1.26E-07	1.27E-07	2.53E-07	1.09E-07	1.83E-07	2.91E-07	0.04
2103	441715	3768604	1YrCancerDerived_InhSoilDerm	1.30E-07	1.31E-07	2.61E-07	1.15E-07	1.84E-07	2.99E-07	0.04
1953	441622	3768640	1YrCancerDerived_InhSoilDerm	1.23E-07	1.25E-07	2.48E-07	1.06E-07	1.80E-07	2.86E-07	0.04
1489	441600	3768700	1YrCancerDerived_InhSoilDerm	1.18E-07	1.19E-07	2.37E-07	9.79E-08	1.77E-07	2.75E-07	0.04
764	441325	3768575	1YrCancerDerived_InhSoilDerm	1.24E-07	1.26E-07	2.50E-07	1.10E-07	1.78E-07	2.88E-07	0.04
1481	441700	3768600	1YrCancerDerived_InhSoilDerm	1.29E-07	1.30E-07	2.59E-07	1.14E-07	1.82E-07	2.96E-07	0.04
1433	440900	3768300	1YrCancerDerived_InhSoilDerm	1.23E-07	1.24E-07	2.47E-07	1.24E-07	1.60E-07	2.84E-07	0.04
1465	441200	3768500	1YrCancerDerived_InhSoilDerm	1.36E-07	1.37E-07	2.73E-07	1.28E-07	1.83E-07	3.10E-07	0.04
765	441575	3768575	1YrCancerDerived_InhSoilDerm	1.27E-07	1.29E-07	2.56E-07	1.15E-07	1.77E-07	2.93E-07	0.04
1468	441500	3768500	1YrCancerDerived_InhSoilDerm	1.44E-07	1.45E-07	2.89E-07	1.41E-07	1.85E-07	3.25E-07	0.04
1477	441300	3768600	1YrCancerDerived_InhSoilDerm	1.19E-07	1.20E-07	2.39E-07	1.03E-07	1.72E-07	2.75E-07	0.04
1464	441100	3768500	1YrCancerDerived_InhSoilDerm	1.32E-07	1.34E-07	2.66E-07	1.23E-07	1.78E-07	3.02E-07	0.04

PROJECT TITLE:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements
Incremental Cancer Risk (chances per million)



COMMENTS:

Note:These isopleths are for total risk, the risks without implementation of the project have not been subtracted

SOURCES:

30

RECEPTORS:

2251

OUTPUT TYPE:

Concentration

MAX:

18.7 ug/m^3

COMPANY NAME:

HELIX Environmenal Planning

DATE:

4/21/2022

SCALE: 1:75,684

0 2 km

PROJECT NO.:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Residential Non-Cancer Chronic Maximum Hazard Index

	UTM (m)			2023			2024			2025			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
H1	443818	3765934.1	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.03	0.00	0.04	0.04	0.00	0.04	0.04	0.00	0.00
R01	445946.8	3767789.9	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.11	-0.01	0.12	0.12	-0.01	0.12	0.13	0.01	0.01
R02	448001.8	3765079.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.02	0.02	-0.01	0.02	0.02	-0.01	0.02	0.02	0.00	0.00
R03	447122.9	3765379.3	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.02	0.02	-0.01	0.02	0.02	0.00	0.02	0.02	0.00	0.00
R04	446042.6	3765649.6	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.03	0.02	-0.01	0.03	0.03	0.00	0.03	0.03	0.00	0.00
R05	442937.8	3766057.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.03	0.00	0.04	0.04	0.00	0.04	0.04	0.00	0.00
R06	441491.3	3766217.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.04	0.00	0.04	0.04	0.00	0.04	0.04	0.00	0.00
R07	440503.4	3767876.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.18	0.19	0.01	0.18	0.26	0.08	0.18	0.17	0.00	0.08
R08	442036.7	3768089.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.12	0.00	0.13	0.12	0.00	0.12	0.15	0.02	0.02
R09	441322.3	3768350.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.27	0.30	0.02	0.28	0.25	-0.03	0.27	0.38	0.11	0.11
R10	441344.1	3768445.3	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.35	0.36	0.01	0.35	0.37	0.02	0.35	0.43	0.08	0.08
R11	441157.9	3769147.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.08	0.00	0.08	0.11	0.02	0.08	0.08	0.00	0.02
R12	441198.1	3769179.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	0.00	0.08	0.10	0.02	0.08	0.08	0.00	0.02
R13	441523.4	3769228.5	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	0.00	0.08	0.09	0.01	0.08	0.07	0.00	0.01
R14	442120	3769274.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.09	0.01	0.08	0.08	0.00	0.01
R15	442529.1	3769329.9	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.08	-0.01	0.08	0.10	0.01	0.08	0.08	0.00	0.01
R16	443919.1	3769725	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.08	0.00	0.08	0.07	0.00	0.00
R17	444881.6	3770086	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.06	0.06	-0.01	0.06	0.07	0.00	0.06	0.06	0.00	0.00
R18	446024	3770078	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.07	0.06	-0.01	0.07	0.07	0.00	0.07	0.07	0.00	0.00
R19	447309.3	3770459.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.05	0.05	-0.01	0.05	0.06	0.00	0.05	0.05	0.00	0.00
R20	441112.1	3768749.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.17	0.16	-0.01	0.17	0.23	0.06	0.17	0.15	-0.02	0.06
R21	441900	3768900	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.14	0.14	-0.01	0.15	0.19	0.04	0.14	0.14	-0.01	0.04
R22	442000	3769000	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.11	-0.01	0.12	0.15	0.03	0.12	0.11	-0.01	0.03
S1	440398.9	3766842.6	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.11	0.12	0.01	0.11	0.14	0.02	0.11	0.14	0.02	0.02
S2	440262.4	3766643.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.10	0.11	0.01	0.10	0.14	0.04	0.10	0.11	0.01	0.04
S3	440295.6	3767639.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.11	0.12	0.01	0.12	0.17	0.05	0.11	0.11	0.00	0.05
S4	440612.3	3769926	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.03	0.03	0.00	0.03	0.04	0.00	0.03	0.03	0.00	0.00
S5	441198.6	3769729.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.04	0.00	0.04	0.05	0.01	0.04	0.04	0.00	0.01

Residential Non-Cancer Chronic Maximum Hazard Index 2-Year Alternative

	UTM (m)			2023			2024			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
H1	443818	3765934.1	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.03	0.00	0.04	0.04	0.00	0.00
R01	445946.8	3767789.9	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.11	-0.01	0.12	0.12	-0.01	-0.01
R02	448001.8	3765079.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.02	0.02	-0.01	0.02	0.02	-0.01	-0.01
R03	447122.9	3765379.3	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.02	0.02	-0.01	0.02	0.02	0.00	0.00
R04	446042.6	3765649.6	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.03	0.02	0.00	0.03	0.03	0.00	0.00
R05	442937.8	3766057.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.03	0.00	0.04	0.04	0.00	0.00
R06	441491.3	3766217.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.04	0.00	0.04	0.04	0.00	0.00
R07	440503.4	3767876.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.18	0.17	-0.01	0.18	0.26	0.08	0.08
R08	442036.7	3768089.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.13	0.00	0.13	0.12	0.00	0.00
R09	441322.3	3768350.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.27	0.34	0.07	0.28	0.25	-0.03	0.07
R10	441344.1	3768445.3	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.35	0.38	0.04	0.35	0.37	0.02	0.04
R11	441157.9	3769147.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.11	0.02	0.02
R12	441198.1	3769179.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.10	0.02	0.02
R13	441523.4	3769228.5	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.09	0.01	0.01
R14	442120	3769274.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.09	0.01	0.01
R15	442529.1	3769329.9	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.07	-0.01	0.08	0.10	0.01	0.01
R16	443919.1	3769725	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.08	0.06	-0.01	0.08	0.08	0.00	0.00
R17	444881.6	3770086	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.06	0.05	-0.01	0.06	0.07	0.00	0.00
R18	446024	3770078	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.07	0.06	-0.01	0.07	0.07	0.00	0.00
R19	447309.3	3770459.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.05	0.05	-0.01	0.05	0.06	0.00	0.00
R20	441112.1	3768749.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.17	0.14	-0.02	0.17	0.23	0.06	0.06
R21	441900	3768900	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.14	0.13	-0.02	0.15	0.19	0.04	0.04
R22	442000	3769000	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.12	0.10	-0.01	0.12	0.15	0.03	0.03
S1	440398.9	3766842.6	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.11	0.13	0.02	0.11	0.14	0.02	0.02
S2	440262.4	3766643.4	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.10	0.10	0.00	0.10	0.14	0.04	0.04
S3	440295.6	3767639.2	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.11	0.11	0.00	0.12	0.17	0.05	0.05
S4	440612.3	3769926	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.03	0.03	0.00	0.03	0.04	0.00	0.00
S5	441198.6	3769729.7	NonCancerChronicDerived_InhSoilDermMMilkCrops	0.04	0.04	0.00	0.04	0.05	0.01	0.01

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Worker Non-Cancer Chronic Maximum Hazard Index - Top 20 Receptors

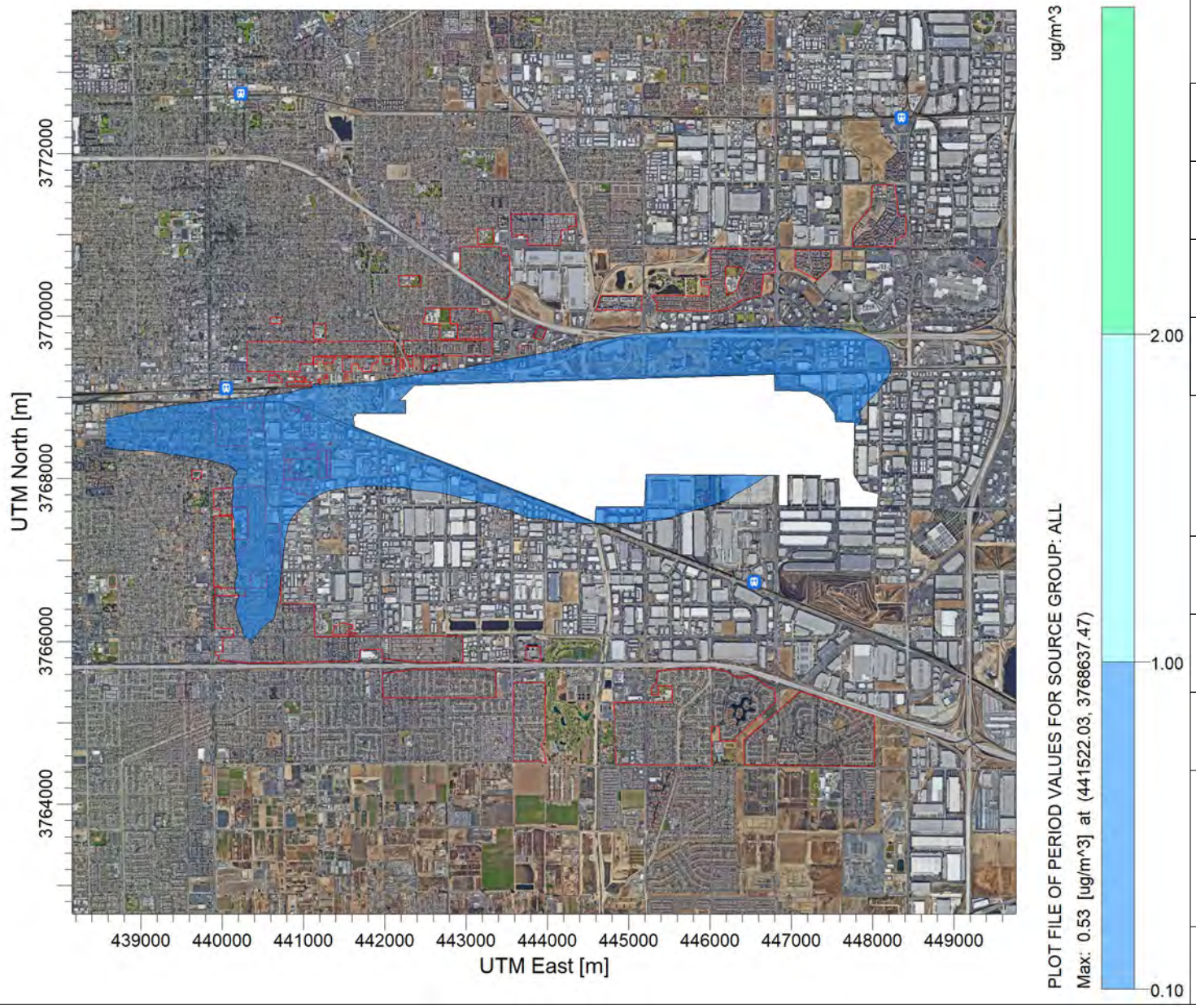
	UTM (m)			2023			2024			2025			Overall
ID	X	Y	SCENARIO	No Project	Project	Max HI	No Project	Project	Max HI	No Project	Project	Max HI	MAX HI
1914	441522	3768637	NonCancerChronicDerived_InhSoilDerm	0.35	0.34	-0.01	0.35	0.53	0.18	0.35	0.28	-0.06	0.18
1480	441600	3768600	NonCancerChronicDerived_InhSoilDerm	0.32	0.32	0.00	0.33	0.48	0.15	0.33	0.29	-0.04	0.15
1489	441600	3768700	NonCancerChronicDerived_InhSoilDerm	0.27	0.27	-0.01	0.28	0.41	0.13	0.27	0.23	-0.04	0.13
1879	441585	3768547	NonCancerChronicDerived_InhSoilDerm	0.34	0.34	0.00	0.34	0.48	0.13	0.34	0.32	-0.02	0.13
1953	441622	3768640	NonCancerChronicDerived_InhSoilDerm	0.29	0.28	0.00	0.29	0.42	0.13	0.29	0.25	-0.04	0.13
1478	441400	3768600	NonCancerChronicDerived_InhSoilDerm	0.29	0.29	0.00	0.30	0.42	0.13	0.29	0.26	-0.03	0.13
1479	441500	3768600	NonCancerChronicDerived_InhSoilDerm	0.29	0.29	0.00	0.30	0.42	0.13	0.29	0.26	-0.03	0.13
2103	441715	3768604	NonCancerChronicDerived_InhSoilDerm	0.30	0.30	0.00	0.31	0.43	0.12	0.30	0.28	-0.03	0.12
2104	441620	3768710	NonCancerChronicDerived_InhSoilDerm	0.26	0.25	-0.01	0.26	0.38	0.12	0.26	0.22	-0.04	0.12
1916	441440	3768580	NonCancerChronicDerived_InhSoilDerm	0.29	0.29	0.00	0.30	0.42	0.12	0.29	0.27	-0.02	0.12
1488	441500	3768700	NonCancerChronicDerived_InhSoilDerm	0.26	0.25	-0.01	0.26	0.38	0.12	0.26	0.22	-0.04	0.12
2099	442086	3768459	NonCancerChronicDerived_InhSoilDerm	0.36	0.37	0.01	0.36	0.32	-0.04	0.36	0.48	0.12	0.12
764	441325	3768575	NonCancerChronicDerived_InhSoilDerm	0.29	0.29	0.00	0.29	0.41	0.12	0.29	0.26	-0.03	0.12
1477	441300	3768600	NonCancerChronicDerived_InhSoilDerm	0.28	0.27	0.00	0.28	0.40	0.12	0.28	0.25	-0.03	0.12
1481	441700	3768600	NonCancerChronicDerived_InhSoilDerm	0.30	0.30	0.00	0.30	0.42	0.12	0.30	0.28	-0.02	0.12
1457	441800	3768400	NonCancerChronicDerived_InhSoilDerm	0.29	0.31	0.02	0.30	0.25	-0.04	0.29	0.41	0.12	0.12
1876	441864	3768438	NonCancerChronicDerived_InhSoilDerm	0.32	0.34	0.02	0.33	0.29	-0.04	0.32	0.44	0.12	0.12
1438	441400	3768300	NonCancerChronicDerived_InhSoilDerm	0.25	0.27	0.02	0.26	0.21	-0.05	0.25	0.37	0.12	0.12
1461	442200	3768400	NonCancerChronicDerived_InhSoilDerm	0.32	0.32	0.00	0.32	0.26	-0.06	0.32	0.43	0.11	0.11
765	441575	3768575	NonCancerChronicDerived_InhSoilDerm	0.30	0.30	0.00	0.30	0.41	0.11	0.30	0.28	-0.02	0.11

Worker Non-Cancer Chronic Maximum Hazard Index 2-Year Alternative - Top 20 Receptors

	UTM (m)			2023			2024			Overall
ID	X	Y	SCENARIO	No Project	Project	Max HI	No Project	Project	Max HI	MAX HI
2080	443847	3767767	NonCancerChronicDerived_InhSoilDerm	0.13	0.40	0.27	0.13	0.25	0.12	0.27
1914	441522	3768637	NonCancerChronicDerived_InhSoilDerm	0.35	0.28	-0.06	0.35	0.53	0.18	0.18
1480	441600	3768600	NonCancerChronicDerived_InhSoilDerm	0.32	0.28	-0.04	0.33	0.48	0.15	0.15
1489	441600	3768700	NonCancerChronicDerived_InhSoilDerm	0.27	0.23	-0.05	0.28	0.41	0.13	0.13
1879	441585	3768547	NonCancerChronicDerived_InhSoilDerm	0.34	0.31	-0.03	0.34	0.48	0.13	0.13
1953	441622	3768640	NonCancerChronicDerived_InhSoilDerm	0.29	0.25	-0.04	0.29	0.42	0.13	0.13
1478	441400	3768600	NonCancerChronicDerived_InhSoilDerm	0.29	0.25	-0.04	0.30	0.42	0.13	0.13
1479	441500	3768600	NonCancerChronicDerived_InhSoilDerm	0.29	0.26	-0.04	0.30	0.42	0.13	0.13
2103	441715	3768604	NonCancerChronicDerived_InhSoilDerm	0.30	0.27	-0.04	0.31	0.43	0.12	0.12
2104	441620	3768710	NonCancerChronicDerived_InhSoilDerm	0.26	0.22	-0.04	0.26	0.38	0.12	0.12
1916	441440	3768580	NonCancerChronicDerived_InhSoilDerm	0.29	0.26	-0.03	0.30	0.42	0.12	0.12
1488	441500	3768700	NonCancerChronicDerived_InhSoilDerm	0.26	0.21	-0.04	0.26	0.38	0.12	0.12
764	441325	3768575	NonCancerChronicDerived_InhSoilDerm	0.29	0.26	-0.03	0.29	0.41	0.12	0.12
1477	441300	3768600	NonCancerChronicDerived_InhSoilDerm	0.28	0.24	-0.04	0.28	0.40	0.12	0.12
1481	441700	3768600	NonCancerChronicDerived_InhSoilDerm	0.30	0.27	-0.03	0.30	0.42	0.12	0.12
765	441575	3768575	NonCancerChronicDerived_InhSoilDerm	0.30	0.27	-0.03	0.30	0.41	0.11	0.11
1476	441200	3768600	NonCancerChronicDerived_InhSoilDerm	0.27	0.23	-0.04	0.27	0.38	0.11	0.11
1487	441400	3768700	NonCancerChronicDerived_InhSoilDerm	0.24	0.20	-0.04	0.24	0.35	0.11	0.11
1917	441420	3768704	NonCancerChronicDerived_InhSoilDerm	0.24	0.20	-0.04	0.24	0.35	0.11	0.11
1465	441200	3768500	NonCancerChronicDerived_InhSoilDerm	0.32	0.30	-0.02	0.32	0.42	0.10	0.10

PROJECT TITLE:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements
Non- Cancer Chronic Risk (maximum HI)



COMMENTS:

Note:These isopleths are for total risk, the risks without implementation of the project have not been subtracted

SOURCES:

30

RECEPTORS:

2251

OUTPUT TYPE:

Concentration

MAX:

0.53 ug/m^3

COMPANY NAME:

HELIX Environmenal Planning

DATE:

4/21/2022

SCALE: 1:75,684

0 2 km

PROJECT NO.:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Residential Non-Cancer Acute Maximum Hazard Index

	UTM (m)			2023			2024			2025			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
H1	443818.03	3765934.14	NonCancerAcute	0.45	0.40	-0.05	0.46	0.46	0.00	0.45	0.46	0.01	0.01
R01	445946.84	3767789.93	NonCancerAcute	1.29	1.16	-0.14	1.32	1.29	-0.03	1.29	1.37	0.07	0.07
R02	448001.77	3765079.22	NonCancerAcute	0.49	0.36	-0.14	0.51	0.43	-0.07	0.49	0.45	-0.05	-0.05
R03	447122.94	3765379.32	NonCancerAcute	0.41	0.35	-0.06	0.42	0.41	-0.01	0.41	0.41	0.00	0.00
R04	446042.57	3765649.63	NonCancerAcute	0.42	0.37	-0.05	0.43	0.43	0.00	0.42	0.42	0.01	0.01
R05	442937.76	3766057.37	NonCancerAcute	0.49	0.44	-0.05	0.50	0.50	0.00	0.49	0.50	0.01	0.01
R06	441491.3	3766217.18	NonCancerAcute	0.47	0.42	-0.06	0.48	0.49	0.00	0.47	0.48	0.01	0.01
R07	440503.41	3767876.66	NonCancerAcute	1.16	1.13	-0.02	1.18	1.32	0.14	1.15	1.26	0.11	0.14
R08	442036.65	3768089.2	NonCancerAcute	1.20	1.03	-0.18	1.23	1.12	-0.11	1.20	1.25	0.05	0.05
R09	441322.28	3768350.4	NonCancerAcute	1.71	1.63	-0.07	1.74	1.43	-0.31	1.70	2.15	0.45	0.45
R10	441344.1	3768445.29	NonCancerAcute	1.88	1.77	-0.11	1.92	1.85	-0.07	1.88	2.15	0.27	0.27
R11	441157.93	3769147.37	NonCancerAcute	1.50	1.26	-0.24	1.53	1.53	0.00	1.49	1.45	-0.05	0.00
R12	441198.12	3769179.74	NonCancerAcute	1.47	1.23	-0.24	1.50	1.48	-0.03	1.47	1.43	-0.04	-0.03
R13	441523.43	3769228.54	NonCancerAcute	1.50	1.28	-0.22	1.53	1.53	0.00	1.49	1.48	-0.02	0.00
R14	442119.99	3769274.66	NonCancerAcute	1.55	1.35	-0.20	1.58	1.63	0.05	1.55	1.52	-0.03	0.05
R15	442529.07	3769329.9	NonCancerAcute	1.61	1.42	-0.19	1.64	1.70	0.05	1.61	1.60	-0.01	0.05
R16	443919.05	3769724.99	NonCancerAcute	1.39	1.26	-0.13	1.42	1.52	0.10	1.39	1.40	0.01	0.10
R17	444881.55	3770085.97	NonCancerAcute	1.13	1.01	-0.12	1.15	1.21	0.05	1.13	1.13	0.01	0.05
R18	446023.97	3770078.04	NonCancerAcute	1.26	1.10	-0.16	1.29	1.31	0.03	1.26	1.25	-0.01	0.03
R19	447309.34	3770459.37	NonCancerAcute	0.95	0.84	-0.11	0.97	1.00	0.03	0.95	0.95	0.00	0.03
R20	441112.11	3768749.68	NonCancerAcute	1.56	1.37	-0.19	1.59	1.74	0.15	1.56	1.49	-0.06	0.15
R21	441900	3768900	NonCancerAcute	1.66	1.37	-0.29	1.69	1.66	-0.03	1.66	1.59	-0.06	-0.03
R22	442000	3769000	NonCancerAcute	1.60	1.33	-0.26	1.63	1.57	-0.06	1.59	1.57	-0.03	-0.03
S1	440398.94	3766842.56	NonCancerAcute	1.02	1.06	0.03	1.05	1.17	0.13	1.02	1.19	0.17	0.17
S2	440262.43	3766643.39	NonCancerAcute	0.85	0.85	0.00	0.87	1.05	0.18	0.85	0.90	0.05	0.18
S3	440295.6	3767639.22	NonCancerAcute	1.03	0.99	-0.04	1.05	1.27	0.22	1.03	1.03	0.00	0.22
S4	440612.34	3769925.99	NonCancerAcute	1.14	1.00	-0.14	1.16	1.17	0.01	1.14	1.15	0.01	0.01
S5	441198.61	3769729.73	NonCancerAcute	1.28	1.13	-0.15	1.30	1.33	0.02	1.28	1.29	0.01	0.02

Residential Non-Cancer Acute Maximum Hazard Index 2-Year Alternative

	UTM (m)			2023			2024			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
H1	443818.03	3765934.14	NonCancerAcute	0.45	0.40	-0.05	0.46	0.46	0.00	0.00
R01	445946.84	3767789.93	NonCancerAcute	1.29	1.19	-0.11	1.32	1.29	-0.03	-0.03
R02	448001.77	3765079.22	NonCancerAcute	0.49	0.36	-0.14	0.51	0.43	-0.07	-0.07
R03	447122.94	3765379.32	NonCancerAcute	0.41	0.36	-0.06	0.42	0.41	-0.01	-0.01
R04	446042.57	3765649.63	NonCancerAcute	0.42	0.37	-0.05	0.43	0.43	0.00	0.00
R05	442937.76	3766057.37	NonCancerAcute	0.49	0.44	-0.05	0.50	0.50	0.00	0.00
R06	441491.3	3766217.18	NonCancerAcute	0.47	0.42	-0.05	0.48	0.49	0.00	0.00
R07	440503.41	3767876.66	NonCancerAcute	1.16	1.14	-0.01	1.18	1.32	0.14	0.14
R08	442036.65	3768089.2	NonCancerAcute	1.20	1.06	-0.14	1.23	1.12	-0.11	-0.11
R09	441322.28	3768350.4	NonCancerAcute	1.71	1.84	0.14	1.74	1.43	-0.31	0.14
R10	441344.1	3768445.29	NonCancerAcute	1.88	1.88	0.00	1.92	1.85	-0.07	0.00
R11	441157.93	3769147.37	NonCancerAcute	1.50	1.24	-0.26	1.53	1.53	0.00	0.00
R12	441198.12	3769179.74	NonCancerAcute	1.47	1.22	-0.25	1.50	1.48	-0.03	-0.03
R13	441523.43	3769228.54	NonCancerAcute	1.50	1.27	-0.22	1.53	1.53	0.00	0.00
R14	442119.99	3769274.66	NonCancerAcute	1.55	1.33	-0.22	1.58	1.63	0.05	0.05
R15	442529.07	3769329.9	NonCancerAcute	1.61	1.41	-0.20	1.64	1.70	0.05	0.05
R16	443919.05	3769724.99	NonCancerAcute	1.39	1.25	-0.15	1.42	1.52	0.10	0.10
R17	444881.55	3770085.97	NonCancerAcute	1.13	1.00	-0.13	1.15	1.21	0.05	0.05
R18	446023.97	3770078.04	NonCancerAcute	1.26	1.09	-0.17	1.29	1.31	0.03	0.03
R19	447309.34	3770459.37	NonCancerAcute	0.95	0.83	-0.12	0.97	1.00	0.03	0.03
R20	441112.11	3768749.68	NonCancerAcute	1.56	1.32	-0.24	1.59	1.74	0.15	0.15
R21	441900	3768900	NonCancerAcute	1.66	1.36	-0.30	1.69	1.66	-0.03	-0.03
R22	442000	3769000	NonCancerAcute	1.60	1.33	-0.26	1.63	1.57	-0.06	-0.06
S1	440398.94	3766842.56	NonCancerAcute	1.02	1.09	0.06	1.05	1.17	0.13	0.13
S2	440262.43	3766643.39	NonCancerAcute	0.85	0.84	-0.02	0.87	1.05	0.18	0.18
S3	440295.6	3767639.22	NonCancerAcute	1.03	0.94	-0.09	1.05	1.27	0.22	0.22
S4	440612.34	3769925.99	NonCancerAcute	1.14	1.00	-0.14	1.16	1.17	0.01	0.01
S5	441198.61	3769729.73	NonCancerAcute	1.28	1.12	-0.15	1.30	1.33	0.02	0.02

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements

Worker Non-Cancer Acute Maximum Hazard Index - Top 20 Receptors

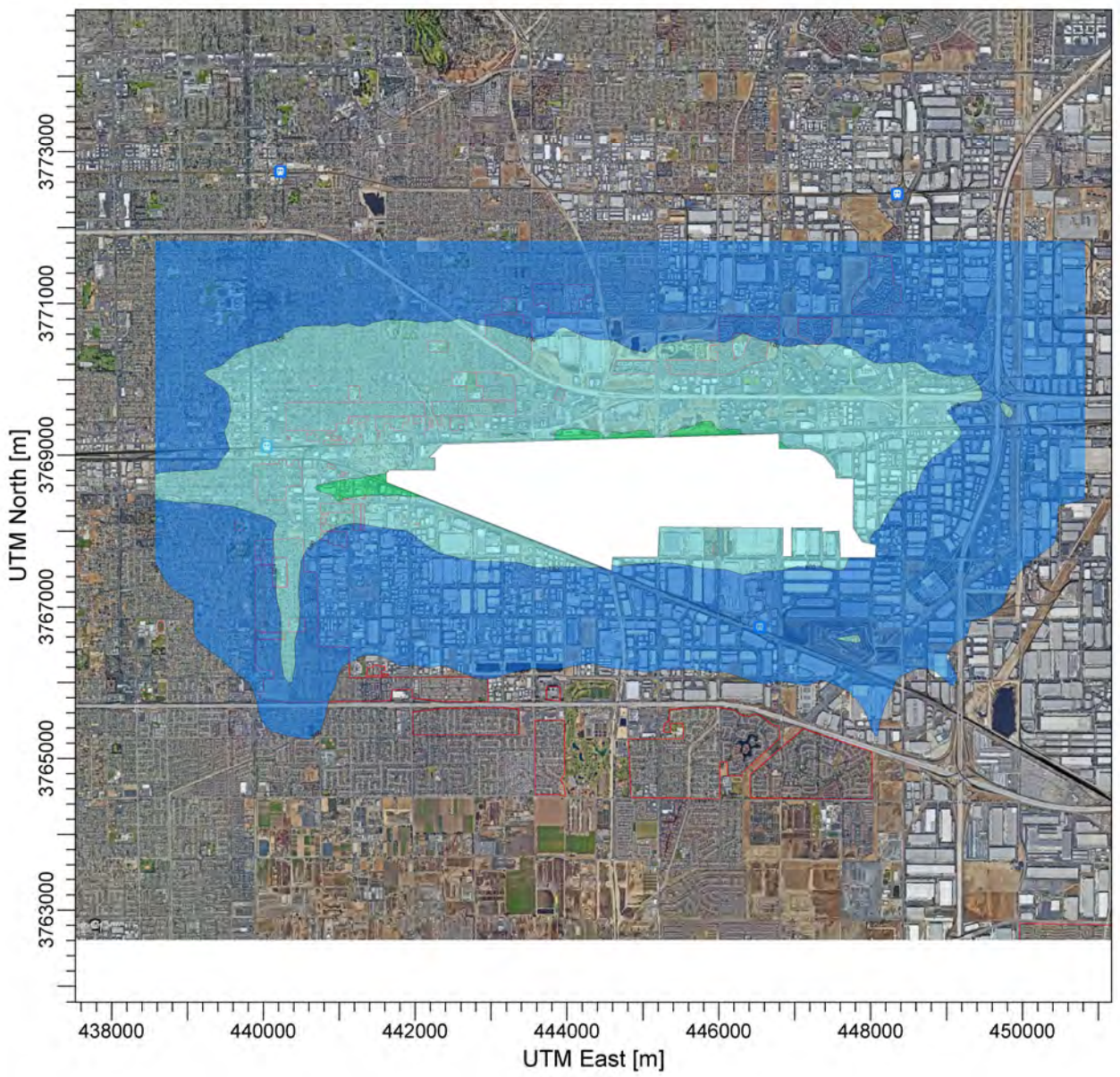
	UTM (m)			2023.00			2024.00			2025.00			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
1914	441522	3768637	NonCancerAcute	2.18	1.98	-0.20	2.23	2.77	0.54	2.18	1.96	-0.23	0.54
1916	441440.3	3768580	NonCancerAcute	2.15	1.97	-0.18	2.19	2.73	0.53	2.15	1.96	-0.19	0.53
1480	441600	3768600	NonCancerAcute	2.19	1.98	-0.21	2.24	2.77	0.53	2.19	1.97	-0.23	0.53
1478	441400	3768600	NonCancerAcute	2.09	1.91	-0.19	2.14	2.66	0.52	2.10	1.89	-0.20	0.52
1479	441500	3768600	NonCancerAcute	2.12	1.93	-0.19	2.17	2.67	0.50	2.12	1.93	-0.19	0.50
2103	441714.7	3768604	NonCancerAcute	2.18	1.96	-0.22	2.23	2.73	0.50	2.19	1.96	-0.23	0.50
764	441325	3768575	NonCancerAcute	2.07	1.90	-0.18	2.12	2.61	0.49	2.08	1.90	-0.17	0.49
1481	441700	3768600	NonCancerAcute	2.18	1.96	-0.22	2.23	2.72	0.49	2.18	1.96	-0.22	0.49
765	441575	3768575	NonCancerAcute	2.15	1.96	-0.19	2.20	2.69	0.49	2.15	1.97	-0.19	0.49
1477	441300	3768600	NonCancerAcute	2.03	1.86	-0.17	2.08	2.56	0.48	2.04	1.86	-0.17	0.48
1476	441200	3768600	NonCancerAcute	2.05	1.87	-0.18	2.09	2.57	0.48	2.05	1.87	-0.18	0.48
1473	440900	3768600	NonCancerAcute	1.84	1.66	-0.17	1.88	2.34	0.46	1.84	1.64	-0.20	0.46
1598	441322.3	3768350	NonCancerAcute	1.71	1.63	-0.07	1.74	1.43	-0.31	1.70	2.15	0.45	0.45
735	441325	3768325	NonCancerAcute	1.64	1.56	-0.07	1.67	1.35	-0.32	1.63	2.08	0.45	0.45
1911	441734.4	3768382	NonCancerAcute	1.91	1.78	-0.14	1.95	1.58	-0.38	1.91	2.36	0.45	0.45
1879	441585.5	3768547	NonCancerAcute	2.16	1.96	-0.20	2.21	2.66	0.45	2.16	2.00	-0.16	0.45
1457	441800	3768400	NonCancerAcute	1.98	1.83	-0.15	2.02	1.66	-0.37	1.97	2.41	0.44	0.44
1953	441622	3768640	NonCancerAcute	2.03	1.82	-0.20	2.07	2.50	0.43	2.03	1.85	-0.18	0.43
1455	441600	3768400	NonCancerAcute	1.89	1.76	-0.12	1.93	1.63	-0.30	1.88	2.29	0.41	0.41
1461	442200	3768400	NonCancerAcute	2.24	1.99	-0.25	2.28	1.83	-0.45	2.23	2.63	0.40	0.40

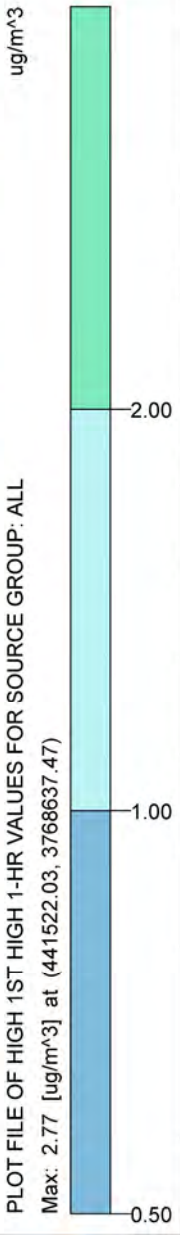
Worker Non-Cancer Acute Maximum Hazard Index 2-Year Alternative - Top 20 Receptors

	UTM (m)			2023.00			2024.00			Overall
ID	X	Y	SCENARIO	No Action	Project	Max HI	No Action	Project	Max HI	MAX HI
1914	441522	3768637	NonCancerAcute	2.18	1.80	-0.38	2.23	2.77	0.54	0.54
1916	441440	3768580	NonCancerAcute	2.15	1.80	-0.35	2.19	2.73	0.53	0.53
1480	441600	3768600	NonCancerAcute	2.19	1.81	-0.39	2.24	2.77	0.53	0.53
1478	441400	3768600	NonCancerAcute	2.09	1.74	-0.35	2.14	2.66	0.52	0.52
1479	441500	3768600	NonCancerAcute	2.12	1.77	-0.35	2.17	2.67	0.50	0.50
2103	441715	3768604	NonCancerAcute	2.18	1.79	-0.39	2.23	2.73	0.50	0.50
764	441325	3768575	NonCancerAcute	2.07	1.75	-0.33	2.12	2.61	0.49	0.49
1481	441700	3768600	NonCancerAcute	2.18	1.79	-0.39	2.23	2.72	0.49	0.49
765	441575	3768575	NonCancerAcute	2.15	1.80	-0.35	2.20	2.69	0.49	0.49
1477	441300	3768600	NonCancerAcute	2.03	1.71	-0.32	2.08	2.56	0.48	0.48
1476	441200	3768600	NonCancerAcute	2.05	1.71	-0.34	2.09	2.57	0.48	0.48
1473	440900	3768600	NonCancerAcute	1.84	1.51	-0.33	1.88	2.34	0.46	0.46
1879	441585	3768547	NonCancerAcute	2.16	1.82	-0.34	2.21	2.66	0.45	0.45
1953	441622	3768640	NonCancerAcute	2.03	1.68	-0.35	2.07	2.50	0.43	0.43
1475	441100	3768600	NonCancerAcute	1.93	1.63	-0.30	1.97	2.37	0.40	0.40
763	441075	3768575	NonCancerAcute	1.87	1.60	-0.27	1.91	2.30	0.39	0.39
1474	441000	3768600	NonCancerAcute	1.84	1.54	-0.30	1.88	2.27	0.39	0.39
2102	441807	3768568	NonCancerAcute	2.20	1.81	-0.38	2.25	2.63	0.39	0.39
1464	441100	3768500	NonCancerAcute	1.91	1.69	-0.22	1.95	2.33	0.38	0.38
762	440825	3768575	NonCancerAcute	1.77	1.48	-0.29	1.81	2.17	0.36	0.36

PROJECT TITLE:

ONT Rehabilitation of Runway 8R-26L and Associated Airfield Improvements
Non- Cancer Acute Risk (maximum HI)





COMMENTS:

Note:These isopleths are for total risk, the risks without implementation of the project have not been subtracted

SOURCES:

30

RECEPTORS:

2251

OUTPUT TYPE:

Concentration

MAX:

2.77 ug/m^3

COMPANY NAME:

HELIX Environmenal Planning

DATE:

4/21/2022

SCALE: 1:89,054

0 2 km

PROJECT NO.: