



**Rincon Consultants, Inc.**

99 South Almaden Boulevard  
San José, California 95113

408-557 3008 Office

info@rinconconsultants.com  
www.rinconconsultants.com

May 3, 2024  
Project No: 23-15088

Kara Hawkins, Environmental Planner III  
City of San José  
Department of Planning, Building and Code Enforcement  
200 East Santa Clara Street, 3<sup>rd</sup> Floor  
San José, California 95113

Submitted via email: Kara.Hawkins@sanjoseca.gov

**Subject: 2470 Alvin Avenue Project Construction Health Risk Assessment**

Dear Ms. Hawkins:

This memorandum assesses construction-related air emissions associated with the development of the Senter Road Residential Project (project). A health risk assessment (HRA) was prepared by Rincon Consultants, Inc. (Rincon), under contract with AMG & Associates, LLC. The purpose of this HRA is to determine the potential for construction to pose health risks to nearby sensitive receptors. Construction health risks associated with the project would be compared to Bay Area Air Quality Management District's (BAAQMD) cancer and hazard risk thresholds.

## Project Description

The project site is located at 2470 Alvin Avenue in the City of San José on the western edge of the East San José neighborhood, encompassing approximately 0.93 acres at Assessor's Parcel Number (APN) 670-02-02. The project site is located approximately 1,200 feet east of the interchange of Bayshore Freeway (US 101) and Tully Road and is situated directly north of the intersection of Alvin Avenue and Burdette Drive.

The project would include demolition of the existing onsite building and associated infrastructure (existing parking lot, utilities, internal pedestrian sidewalks, and landscaping and trees) and construction of an eight-story mixed-use building containing approximately 4,992 square feet of commercial/retail space, a leasing office and lobby, utility and storage rooms, a trash room, and a bike storage and repair area on Floor 1 and a total of 138 residential units (consisting of a mix of studio, one-bedroom, and two-bedroom layouts) on Floors 2–8. The proposed building would also include an attached parking structure on Floors 1–3, accessible on the ground floor via Burdette Drive. Amenity spaces would be located on Floors 2–3.

Private open space would be provided via private balconies, while common open space would be provided via outdoor deck areas on Floors 4 and 8. Landscaping would consist of trees and shrubs in planters and be provided on the ground floor along Alvin Avenue and Burdette Drive and on the outdoor deck areas on Floors 4 and 8. The project would have a density of 5.36 dwelling units per acre.



Construction activities include demolition, site preparation, grading, building construction, paving, and architectural coating. Construction of the project is anticipated to take approximately one year, beginning in June 2024 and ending in June 2025. Construction would primarily take place five days a week, occurring between the hours of 7:00 a.m. to 4:00 p.m. Monday through Friday. No blasting or pile driving activities would be performed.

## Methodology

### **Air Dispersion Modeling**

The analysis contained herein was conducted in accordance with BAAQMD and OEHHA recommended procedures. Site-specific air dispersion modeling was conducted using the Lakes Environmental American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) View model (version 12.0.0). Dispersion modeling was used to characterize DPM emissions and ground-level concentrations associated with on-site construction activities over the approximately 13-month construction period. Emissions rates input in AERMOD were based on anticipated annual emissions modeled using the California Emissions Estimator Model (CalEEMod) version 2022.1.1.22. CalEEMod differentiates between particulate matter emitted from engine exhaust (i.e., DPM) and particulate matter emitted from ground disturbing activities (i.e., fugitive dust, which does not constitute DPM) (California Air Pollution Control Officers Association [CAPCOA] 2021). DPM concentration was estimated based on the  $PM_{10}$  exhaust emissions (not including fugitive  $PM_{10}$ ) provided by CalEEMod, which are DPM emissions resulting from combustion of diesel-fueled vehicles and off-road equipment during construction. In addition,  $PM_{2.5}$  emissions from both engine exhaust and fugitive sources were multiplied by AERMOD average concentration output to determine ground-level concentrations at nearby receptors for comparison to BAAQMD's  $PM_{2.5}$  thresholds. Annual and maximum hourly emissions were calculated by using the annual emissions reported by CalEEMod for each calendar year of construction based on BAAQMD guidelines (BAAQMD 2020). Hourly emissions were determined based on the anticipated 350 total days of construction, averaged for an exposure duration, and an assumed 10-hour construction workday.

The construction site was modeled as an area source in AERMOD with an assumed release height of 16 feet (approximately 5 meters), corresponding to the approximate height of off-road equipment mufflers from which exhaust emissions would be released. For all emissions sources, AERMOD's variable emissions rate function was applied, based on construction activity to occur Monday through Friday between 7 a.m. to 5 p.m. This construction duration is consistent with San José Municipal Code Section 20.100.450 and the provided project construction information.

To characterize health risk at nearby sensitive receptors, 368 existing residential and worker receptors were selected in AERMOD. Sensitive receptors were selected at single family and multi-family residential units approximately within ~1,000 feet of the project site. In addition, worker sensitive receptors were selected for the non-residential/school receptors within ~1,000 feet of the project site. The receptor grid was designed as a 50 meter by 50-meter grid then converted to discrete receptors to provide for uniform coverage of the area. The nearest sensitive receptors to the project site are a nursing home approximately 220 feet south of the site and multi-family residential units approximately 500 feet south of the site.



The AERMOD model requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Specific meteorology and terrain for the site were input to the model using the nearest available meteorological data set, San José International Airport (approximately 3.3 miles northwest of the project site), and two 30-meter Digital Elevation Model (DEM) data for the San José East and West Quadrangle. AERMOD's urban option was applied using the most recent United States Census Bureau population estimate for San José, to capture the urban heat island of adjacent urban areas (United States Census Bureau 2021).

The presence of buildings and other structures disturbs downwind air flow. However, building downwash is only calculated for point sources and not appropriate to include in AERMOD for this HRA because there are no point sources in the analysis. AERMOD provides the concentration estimated by the air quality model based on an emission rate of one gram per second (BAAQMD 2020). Emissions sources (project construction, roadways, and stationary sources) and receptors (MEIR, cumulative analysis receptor, worker receptor, and sensitive receptors), including receptor grid areas, are shown in Figure 1

### **Risk Analysis**

Rincon's in-house risk spreadsheet was used to calculate potential risk values associated with the worst-case toxic emission concentrations at surrounding receptors. Risk was assessed by including all mandatory minimum pathways and using the RMP and the Derived Method in the risk analysis. This analysis conservatively applies the residential exposure to all receptors, including worker receptor sites. Applying residential exposure to worker receptors sites increases the exposure time from eight hours to 24 hours a day, resulting in a more conservative health risk outcome. A third trimester start age was applied for the health risk for residential receptors and a 16 year start age was assumed for worker receptors. In addition, the fraction of time at residences was applied for to age bins equal to or greater than 16 years. Following completion of construction of the proposed project, construction emissions would cease.





### **Cumulative Analysis**

The cumulative impact of the proposed project was further assessed by evaluating all current and proposed substantial sources of TACs within 1,000 feet of the identified construction MEIR, which is surrounded by other sensitive receptors. There are no rail sources within 1,000 feet of the project site, therefore, rail was excluded from this analysis. Roadway sources within 1,000 feet of the construction MEIR, single- and multi-family residents includes the 101 freeway and Tully Road. The stationary sources near the MEIR include four gas dispensing facilities and a generator. Cumulative risk impacts to the MEIR from these sources were estimated as described below following BAAQMD's *CEQA Air Quality Guidelines* (BAAQMD 2017). In addition, cumulative risk impacts were evaluated for additional residential receptors and the maximally exposed worker receptor.

Figure 1 Emission Sources and Receptors



Legend:

-  Project Site/Area Sources
-  Haul Sources
-  Maximally Exposed Individual Receptor
-  Maximally Exposed Worker





## Highway/Roadway TAC Impacts

The 101 Freeway, Tully Street, and S. King Road are considered significant sources of mobile TAC emissions due to the high level of daily traffic (i.e., greater than 10,000 average daily trips [ADT]) (City of San José 2021). Health risk at the MEIR, neighboring residents, and worker sensitive receptors from the roadway sources were based on risk and PM<sub>2.5</sub> concentrations obtained from the BAAQMD's Mobile Source Screening Map (BAAQMD 2022).

## Stationary Source TAC Impacts

The BAAQMD's *Stationary Sources Screening Map* website provides screening level health risk and PM<sub>2.5</sub> risk values associated with permitted stationary sources within 1,000 feet of points of interest. Stationary source screening levels for the MEIR, neighboring residents, and worker sensitive receptors were obtained. The MEIR is within 1,000 feet of all stationary sources.

## Significance Threshold

Depending on the risk levels, emitting facilities are required to implement varying levels of risk reduction measures. BAAQMD strongly recommends that impacted communities develop and adopt Community Risk Reduction Plan. The City of San José does not currently have a qualified Community Risk Reduction Plan. In the absence of a qualified Community Risk Reduction Plan, BAAQMD has established the following thresholds of significance for local community risks and hazards associated with TACs and PM<sub>2.5</sub> for assessing individual project-level impacts at a local level (BAAQMD 2022):

- Not to exceed an increased cancer risk of >10 in one million
- Not to exceed increased non-cancer (i.e., Chronic or Acute) risk of >1.0 Hazard Index
- Not to exceed ambient PM<sub>2.5</sub> concentration increase >0.3 µg/m<sup>3</sup> annual average

A project would have a cumulatively considerable impact if the aggregate total of current and proposed TAC sources within a 1,000 feet radius of the project fence line in addition to the proposed project would exceed the following thresholds of significance:

- Not to exceed an increased cancer risk of >100 in one million
- Not to exceed increased non-cancer (i.e., Chronic or Acute) risk of >10 Hazard Index
- Not to exceed ambient PM<sub>2.5</sub> concentration increase >0.8 µg/m<sup>3</sup> annual average

To provide a perspective on risk, the American Cancer Society (2018) reports that in the United States, men have about a 40 in 100 chance (0.40 probability) and women about a 38 in 100 chance (0.38) of developing cancer during a lifetime. Based on this background cancer risk level in the general population, application of a  $1.0 \times 10^{-5}$  excess risk limit means that the contribution from a toxic hazard should not cause the resultant cancer risk for the exposed population to exceed 0.40001 for men or 0.38001 for women. Neither DPM nor PM<sub>2.5</sub> is associated with acute health risks (OEHHA 2019); therefore, acute risk was not evaluated.



## Results

### Air Dispersion Modeling and Risk Analysis Results

Maximum cancer risks are presented in Table 1. The MEIR is the modeled receptor experiencing the highest incremental excess cancer risk under the total exposure duration and is located at the Woodside Apartments approximately 480 feet south of the site.<sup>1</sup> In addition, Table 1 also presents the maximally exposed worker receptor located at the Tafatolu Christian Church located south west of the project site directly across Burdette Drive. The MEIR and maximally exposed worker receptor were determined through an iterative process evaluating potential receptors based on model-generated risk contours to ensure the maximum incremental excess cancer risk is captured. Both the MEIR and maximally exposed worker receptor are indicated in Figure 1, above.

The model outputs are available in Appendix B. As shown in Table 1, incremental excess cancer risks resulting from construction activities would not exceed BAAQMD thresholds not mitigation is required. As shown in Table 1, the chronic hazard index at the MEIR and maximally exposed worker receptor is less than 1. Additionally, PM<sub>2.5</sub> concentrations are below the 0.3 µg/m<sup>3</sup> threshold.

**Table 1 Unmitigated Health Risks Associated with Construction Activity**

Scenario	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> annual average
Maximally Exposed Individual Receptor (MEIR)	5.29	0.057	0.04
BAAQMD Significance Threshold	>10	>1	>0.3
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>
Maximally Exposed Worker Receptor	1.26	0.603	0.296
BAAQMD Significance Threshold	>10	>1	>0.3
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>No</b>

µg/m<sup>3</sup> = micrograms per cubic meter; BAAQMD = Bay Area Air Quality Management District

<sup>1</sup>Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

For model outputs, see Appendix B.

### Combined Sources

The MEIR is a multi-family residential development (Woodside Apartments) south of the project site along Alvin Avenue. Construction-related health risk, as well as health risk from existing major roadways

<sup>1</sup> There is a nursing home located between the Woodside Apartments and the project site. The nursing home is also considered a sensitive receptor. However the way the air dispersion occurs, concentrations are highest at the northern edges of the property and are higher at the northern most apartments on the Woodside site than they are at the nursing home building which is located at the southern portion of the site with a large parking lot between the building and Alvin Avenue.



and highways and stationary sources within 1,000 feet of the MEIR, and maximally exposed worker receptor, are summarized in Table 2. As shown in Table 2, cumulative sources of TACs would result in an exceedance of annual PM<sub>2.5</sub> concentrations for the cumulative receptor at both the MEIR and maximally exposed work receptor. However, the background PM<sub>2.5</sub> concentrations are above the cumulative threshold without the addition of the project. Therefore, since the risk from the project activities itself are below the project thresholds, the project would not be cumulatively considerable. The risks and concentrations from the roadway represent the maximum for that area from the screening maps. Due to proximity, the actual risk and PM<sub>2.5</sub> concentrations would be reduced from what is reported.

**Table 2 Cumulative Health Risks Associated with Unmitigated Construction Activity**

Source	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> Annual Average
<b>Maximally Exposed Individual Receptor</b>			
Unmitigated Project Construction	5.29	0.057	0.04
Highway/Roadways (101 Freeway and Tully Street) <sup>2</sup>	58.99	0.16	1.14
Verizon Wireless (Tully Road)	0.05	0.00	0.00
Reco Gas and Minimart	0.15	0.00	0.00
Tully Valero	0.26	0.00	0.00
Vo Gas Station	0.27	0.00	0.00
King Tully Shell #135986	0.45	0.00	0.00
Cumulative Total	65.47	0.22	1.18
BAAQMD Significance Threshold	>100	>10	>0.8
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>Yes</b>
<b>Maximally Exposed Worker Receptor</b>			
Unmitigated Project Construction	1.26	0.603	0.296
Highway/Roadways (101 Freeway and Tully Street) <sup>2</sup>	58.99	0.16	1.14
Verizon Wireless (Tully Road)	0.14	0.00	0.00
Reco Gas and Minimart	0.20	0.00	0.00
Tully Valero	0.44	0.00	0.00
Vo Gas Station	0.32	0.00	0.00
King Tully Shell #135986	1.26	0.01	0.00
Cumulative Total	62.61	0.77	1.44
BAAQMD Significance Threshold	>100	>10	>0.8
<b>Threshold Exceeded?</b>	<b>No</b>	<b>No</b>	<b>Yes</b>

<sup>1</sup>Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>2</sup>Based on health risk screening data for Highways/Roadways provided by BAAQMD (BAAQMD 2022).

For model outputs, see Appendix B.

The project would incorporate the Standard Permit Conditions required for all construction activities pursuant to City of San José General Plan Policy MS-13.1.

### Recommended Measures

Mitigation is not required to reduce project impacts, however given the level of PM<sub>2.5</sub> emissions from the project and the standard 2 waterings per day considered in the modeling. It is recommended that



watering be increased to 3 times per day or chemical stabilizers be used during ground disturbance and demolition activities to reduce PM emissions.





## References

---

- American Cancer Society (ACS). 2018. Cancer Facts & Figures 2018.  
<https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2018/cancer-facts-and-figures-2018.pdf>.
- Bay Area Air Quality Management District (BAAQMD). 2022. CEQA Thresholds and Guidelines Update. May 2017. <https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines>
- \_\_\_\_\_. 2020. BAAQMD Health Risk Assessment Modeling Protocol. December 2020.  
[https://www.baaqmd.gov/~media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd\\_hra\\_modeling\\_protocol-pdf.pdf?la=en](https://www.baaqmd.gov/~media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd_hra_modeling_protocol-pdf.pdf?la=en)
- \_\_\_\_\_. 2021. BAAQMD Air Toxics Control Programs Health Risk Assessment Guidelines. December 2021. [https://www.baaqmd.gov/~media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20211215\\_hraguidelines-pdf.pdf?la=en](https://www.baaqmd.gov/~media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20211215_hraguidelines-pdf.pdf?la=en)
- \_\_\_\_\_. 2022. Highway/Roadway Raster. Provided by Alison Kirk, CEQA Staff, BAAQMD via e-mail. December 15, 2022
- California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model User's Guide, Appendix A: Calculation Details for CalEEMod. May 2021.  
[http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/01\\_user-39-s-guide2020-4-0.pdf?sfvrsn=6](http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/01_user-39-s-guide2020-4-0.pdf?sfvrsn=6).
- Office of Environmental Health Hazard Assessment (OEHHA). 2019. Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values. Last updated: October 2, 2020.  
<https://ww3.arb.ca.gov/toxics/healthval/contable.pdf>
- San Jose, City of. 2021. Average Dail Traffic: <https://data.sanjoseca.gov/dataset/average-daily-traffic> (Accessed May 2024)
- United States (U.S.) Census Bureau. 2022. San José Quick Facts. Last modified: July 1, 2022.  
<https://www.census.gov/quickfacts/fact/table/sanjosecitycalifornia/PST045221> (accessed April 2024).

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

### Health Risk Assessment Results Summary

#### Project

Scenario	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> annual average
Residences	5.29	0.057	0.04
BAAQMD Significance Threshold	>10	>1	>0.3
Threshold Exceeded?	No	No	No

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size; µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk. Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

Source: BAAQMD 2024, Rincon Consultants 2024. For health risk calculations, see Appendix A.

#### Cumulative

Scenario	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> annual average
Unmitigated Project	5.29	0.057	0.04
Verizon Wireless (Tully Road)	0.05	0.00	0.00
Reco Gas and Minimart	0.15	0.00	0.00
Tully Valero	0.26	0.00	0.00
Vo Gas Station	0.27	0.00	0.00
King Tully Shell #135986	0.45	0.00	0.00
Roadways	58.99	0.16	1.14
Total	65.47	0.22	1.18
BAAQMD Significance Threshold	>100	>10	>0.8
Threshold Exceeded?	No	No	Yes

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size; µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated.

<sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk.

Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

Source: BAAQMD 2024, Rincon Consultants 2024. For health risk calculations, see Appendix A.

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

Construction Modeling Assumptions

Note: there are schools, but residences closer, impacts would be lesser there

**OB Whaley Elementary School** 300 m

AERMOD Sources

<u>PolyArea [1]</u>		
<b>Offroad Construction Exhaust</b>		
Release Height	5	m
Emissions rate	1	g/s
Init Vert Dimension	1.4	m
SCAQMD LST Guidance, 2008		
<u>Line Volume [2]</u>		
<b>Onroad Hauling Exhaust</b>		
Plume Height	7.315	m
Plume Width	15;25	m
Release Height	3.66; 0	m
Emissions rate	1	g/s

[\[1\] SCAQMD, Final Localized Significance Threshold Methodology](#)

[\[2\] BAAQMD, CEQA AQ Guidelines, Appendix E, Table 11, Recommended Volume Source Configuration for Construction Projects](#)

Meteorology:

San Jose Int'l Airport

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment

Residential Receptors

Start Date 6/1/2024 8/31/2024  
End Date 8/30/2024 8/31/2026

		6/1/2024	7/3/2025	Days	90	730
Phase		Start Date	End Date	Duration (days)	3rd Tri	0<2
Demolition	3.1. Demolition (2024) - Unmitigated	6/1/2024	6/29/2024	29	29	0
Site Preparation	3.3. Site Preparation (2024) - Unmitigated	6/30/2024	7/7/2024	8	8	0
Grading	3.5. Grading (2024) - Unmitigated	7/8/2024	7/19/2024	12	12	0
Building Construction	3.7. Building Construction (2024) - Unmitigated	7/20/2024	12/31/2024	165	42	123
Building Construction	3.9. Building Construction (2025) - Unmitigated	1/1/2025	6/7/2025	158	0	158
Paving	3.11. Paving (2025) - Unmitigated	6/8/2025	7/3/2025	26	0	26
Architectural Coating	3.13. Architectural Coating (2025) - Unmitigated	3/25/2025	6/7/2025	75	0	75
				1	0	0
				1	0	0

Intake Factor for Inhalation, IF (m<sup>3</sup>/kg-day)

Phase		Year	Equation	3rd Trimester	0<2
Demolition	3.1. Demolition (2024) - Unmitigated	2024		0.003929067	0
Site Preparation	3.3. Site Preparation (2024) - Unmitigated	2024	$DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1$	0.001083881	0
Grading	3.5. Grading (2024) - Unmitigated	2024	$AT$	0.001625821	0
Building Construction	3.7. Building Construction (2024) - Unmitigated	2024		0.005690373	0.050317133
Building Construction	3.9. Building Construction (2025) - Unmitigated	2025		0	0.064635016
Paving	3.11. Paving (2025) - Unmitigated	2025		0	0.010636142
Architectural Coating	3.13. Architectural Coating (2025) - Unmitigated	2025		0	0.030681178
0	0	1900		0	0
0	0	1900		0	0

Risk Calculation Part 1, R1

Equation	3rd Trimester	0<2
	4.32197E-06	0
	1.19227E-06	0
$IF \cdot CPF \cdot CF_2$	1.7884E-06	0
	6.25941E-06	5.535E-05
	0	7.11E-05
	0	1.17E-05
	0	3.375E-05
	0	0
	0	0

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)
Demolition	3.1. Demolition (2024)	0.004	10	4.48007E-05
Site Preparation	3.3. Site Preparatic	0.002	10	2.24004E-05
Grading	3.5. Grading (2024)	0.002	10	2.24004E-05
Building Construction	3.7. Building Const	0.004	10	4.48007E-05
Building Construction	3.9. Building Const	0.004	10	4.48007E-05
Paving	3.11. Paving (2025)	0.000	10	0
Architectural Coating	3.13. Architectural	0.000	10	0
0	0	1900	10	0
0	0	1900	10	0

<b>Max Haul Cancer Risk</b>
0.10

AERMOD Column Identifier: 7 7 7 7 7 7 7

MAX: 0.098448

Unique Identifier	X (UTM)	Y (UTM)	Demolition	Site Preparation	Grading	Building Construction	Building Construction	Paving	Architectu	Child Risk		Total	per million
			2024	2024	2024	2024	2025	ral Coating	3rd Trimester	0<2			
6039014130542	603901	4130542	1.29057E-05	6.45287E-06	6.45287E-06	1.29057E-05	1.29057E-05	0	0	1.55795E-10	1.6319E-09	1.78769E-09	0.0017877
6039514130542	603951	4130542	1.40898E-05	7.04491E-06	7.04491E-06	1.40898E-05	1.40898E-05	0	0	1.70088E-10	1.78162E-09	1.95171E-09	0.0019517
6040014130542	604001	4130542	1.55557E-05	7.77785E-06	7.77785E-06	1.55557E-05	1.55557E-05	0	0	1.87784E-10	1.96698E-09	2.15476E-09	0.0021548
6040514130542	604051	4130542	1.73612E-05	8.68059E-06	8.68059E-06	1.73612E-05	1.73612E-05	0	0	2.09579E-10	2.19528E-09	2.40485E-09	0.0024049
6041014130542	604101	4130542	1.95035E-05	9.75177E-06	9.75177E-06	1.95035E-05	1.95035E-05	0	0	2.35441E-10	2.46617E-09	2.70161E-09	0.0027016
6041514130542	604151	4130542	2.17861E-05	1.08931E-05	1.08931E-05	2.17861E-05	2.17861E-05	0	0	2.62996E-10	2.7548E-09	3.0178E-09	0.0030178
6042014130542	604201	4130542	2.38788E-05	1.19394E-05	1.19394E-05	2.38788E-05	2.38788E-05	0	0	2.88258E-10	3.01941E-09	3.30767E-09	0.0033077
6042514130542	604251	4130542	2.53993E-05	1.26997E-05	1.26997E-05	2.53993E-05	2.53993E-05	0	0	3.06614E-10	3.21168E-09	3.51829E-09	0.0035183
6043014130542	604301	4130542	2.61735E-05	1.30867E-05	1.30867E-05	2.61735E-05	2.61735E-05	0	0	3.15959E-10	3.30957E-09	3.62553E-09	0.0036255
6043514130542	604351	4130542	2.61403E-05	1.30702E-05	1.30702E-05	2.61403E-05	2.61403E-05	0	0	3.15559E-10	3.30538E-09	3.62093E-09	0.0036209
6044014130542	604401	4130542	2.53742E-05	1.26871E-05	1.26871E-05	2.53742E-05	2.53742E-05	0	0	3.06311E-10	3.20851E-09	3.51482E-09	0.0035148
6044514130542	604451	4130542	2.40172E-05	1.20086E-05	1.20086E-05	2.40172E-05	2.40172E-05	0	0	2.89929E-10	3.03691E-09	3.32684E-09	0.0033268
6039514130592	603951	4130592	1.86129E-05	9.30645E-06	9.30645E-06	1.86129E-05	1.86129E-05	0	0	2.2469E-10	2.35355E-09	2.57824E-09	0.0025782
6040014130592	604001	4130592	2.10339E-05	1.0517E-05	1.0517E-05	2.10339E-05	2.10339E-05	0	0	2.53916E-10	2.65969E-09	2.9136E-09	0.0029136
6040514130592	604051	4130592	2.39823E-05	1.19911E-05	1.19911E-05	2.39823E-05	2.39823E-05	0	0	2.89507E-10	3.0325E-09	3.322E-09	0.003322
6041014130592	604101	4130592	2.73562E-05	1.36781E-05	1.36781E-05	2.73562E-05	2.73562E-05	0	0	3.30237E-10	3.45912E-09	3.78936E-09	0.0037894
6041514130592	604151	4130592	3.0495E-05	1.52475E-05	1.52475E-05	3.0495E-05	3.0495E-05	0	0	3.68127E-10	3.85601E-09	4.22413E-09	0.0042241
6042014130592	604201	4130592	3.27946E-05	1.63973E-05	1.63973E-05	3.27946E-05	3.27946E-05	0	0	3.95887E-10	4.14679E-09	4.54268E-09	0.0045427
6042514130592	604251	4130592	3.3795E-05	1.68975E-05	1.68975E-05	3.3795E-05	3.3795E-05	0	0	4.07964E-10	4.27329E-09	4.68125E-09	0.0046812
6043014130592	604301	4130592	3.3485E-05	1.67425E-05	1.67425E-05	3.3485E-05	3.3485E-05	0	0	4.04221E-10	4.23408E-09	4.63831E-09	0.0046383
6043514130592	604351	4130592	3.20424E-05	1.60212E-05	1.60212E-05	3.20424E-05	3.20424E-05	0	0	3.86807E-10	4.05167E-09	4.43848E-09	0.0044385
6044014130592	604401	4130592	2.97898E-05	1.48949E-05	1.48949E-05	2.97898E-05	2.97898E-05	0	0	3.59614E-10	3.76684E-09	4.12646E-09	0.0041265
6044514130592	604451	4130592	2.70583E-05	1.35291E-05	1.35291E-05	2.70583E-05	2.70583E-05	0	0	3.2664E-10	3.42145E-09	3.74809E-09	0.0037481
6040014130642	604001	4130642	3.01437E-05	1.50719E-05	1.50719E-05	3.01437E-05	3.01437E-05	0	0	3.63887E-10	3.81159E-09	4.17548E-09	0.0041755
6040514130642	604051	4130642	3.52846E-05	1.76423E-05	1.76423E-05	3.52846E-05	3.52846E-05	0	0	4.25946E-10	4.46165E-09	4.88759E-09	0.0048876
6041014130642	604101	4130642	4.02382E-05	2.01191E-05	2.01191E-05	4.02382E-05	4.02382E-05	0	0	4.85745E-10	5.08802E-09	5.57376E-09	0.0055738
6041514130642	604151	4130642	4.38684E-05	2.19342E-05	2.19342E-05	4.38684E-05	4.38684E-05	0	0	5.29567E-10	5.54705E-09	6.07661E-09	0.0060766



6042014130642	604201	4130642	4.52277E-05	2.26138E-05	2.26138E-05	4.52277E-05	4.52277E-05	0	0	5.45976E-10	5.71892E-09	6.2649E-09	0.0062649
6042514130642	604251	4130642	4.42967E-05	2.21484E-05	2.21484E-05	4.42967E-05	4.42967E-05	0	0	5.34738E-10	5.6012E-09	6.13594E-09	0.0061359
6043014130642	604301	4130642	4.15141E-05	2.07571E-05	2.07571E-05	4.15141E-05	4.15141E-05	0	0	5.01147E-10	5.24935E-09	5.7505E-09	0.0057505
6043514130642	604351	4130642	3.76174E-05	1.88087E-05	1.88087E-05	3.76174E-05	3.76174E-05	0	0	4.54106E-10	4.75662E-09	5.21072E-09	0.0052107
6044014130642	604401	4130642	3.32645E-05	1.66323E-05	1.66323E-05	3.32645E-05	3.32645E-05	0	0	4.01566E-10	4.20621E-09	4.60777E-09	0.0046078
6044514130642	604451	4130642	2.89175E-05	1.44588E-05	1.44588E-05	2.89175E-05	2.89175E-05	0	0	3.49084E-10	3.65654E-09	4.00563E-09	0.0040056
6040014130692	604001	4130692	4.69749E-05	2.34875E-05	2.34875E-05	4.69749E-05	4.69749E-05	0	0	5.67068E-10	5.93985E-09	6.50692E-09	0.0065069
6040514130692	604051	4130692	5.54068E-05	2.77034E-05	2.77034E-05	5.54068E-05	5.54068E-05	0	0	6.68856E-10	7.00605E-09	7.67491E-09	0.0076749
6041014130692	604101	4130692	6.16337E-05	3.08169E-05	3.08169E-05	6.16337E-05	6.16337E-05	0	0	7.44025E-10	7.79342E-09	8.53744E-09	0.0085374
6041514130692	604151	4130692	6.34154E-05	3.17077E-05	3.17077E-05	6.34154E-05	6.34154E-05	0	0	7.65533E-10	8.01871E-09	8.78425E-09	0.0087842
6042014130692	604201	4130692	6.09698E-05	3.04849E-05	3.04849E-05	6.09698E-05	6.09698E-05	0	0	7.3601E-10	7.70946E-09	8.44547E-09	0.0084455
6042514130692	604251	4130692	5.54449E-05	2.77225E-05	2.77225E-05	5.54449E-05	5.54449E-05	0	0	6.69316E-10	7.01087E-09	7.68018E-09	0.0076802
6043014130692	604301	4130692	4.84798E-05	2.42399E-05	2.42399E-05	4.84798E-05	4.84798E-05	0	0	5.85234E-10	6.13014E-09	6.71537E-09	0.0067154
6043514130692	604351	4130692	4.13623E-05	2.06811E-05	2.06811E-05	4.13623E-05	4.13623E-05	0	0	4.99314E-10	5.23015E-09	5.72946E-09	0.0057295
6044014130692	604401	4130692	3.47053E-05	1.73527E-05	1.73527E-05	3.47053E-05	3.47053E-05	0	0	4.18953E-10	4.3884E-09	4.80735E-09	0.0048074
6044514130692	604451	4130692	2.89363E-05	1.44682E-05	1.44682E-05	2.89363E-05	2.89363E-05	0	0	3.49311E-10	3.65892E-09	4.00824E-09	0.0040082
6039514130742	603951	4130742	6.45023E-05	3.22511E-05	3.22511E-05	6.45023E-05	6.45023E-05	0	0	7.78654E-10	8.15614E-09	8.9348E-09	0.0089348
6040014130742	604001	4130742	8.01342E-05	4.00671E-05	4.00671E-05	8.01342E-05	8.01342E-05	0	0	9.67357E-10	1.01328E-08	1.11001E-08	0.0111001
6040514130742	604051	4130742	9.2126E-05	4.6063E-05	4.6063E-05	9.2126E-05	9.2126E-05	0	0	1.11212E-09	1.16491E-08	1.27612E-08	0.0127612
6041014130742	604101	4130742	9.4715E-05	4.73575E-05	4.73575E-05	9.4715E-05	9.4715E-05	0	0	1.14337E-09	1.19765E-08	1.31198E-08	0.0131198
6041514130742	604151	4130742	8.81701E-05	4.4085E-05	4.4085E-05	8.81701E-05	8.81701E-05	0	0	1.06436E-09	1.11489E-08	1.22132E-08	0.0122132
6042014130742	604201	4130742	7.6646E-05	3.8323E-05	3.8323E-05	7.6646E-05	7.6646E-05	0	0	9.25249E-10	9.69168E-09	1.06169E-08	0.0106169
6042514130742	604251	4130742	6.3742E-05	3.1871E-05	3.1871E-05	6.3742E-05	6.3742E-05	0	0	7.69476E-10	8.06001E-09	8.82949E-09	0.0088295
6043014130742	604301	4130742	5.17534E-05	2.58767E-05	2.58767E-05	5.17534E-05	5.17534E-05	0	0	6.24752E-10	6.54407E-09	7.16883E-09	0.0071688
6043514130742	604351	4130742	4.15948E-05	2.07974E-05	2.07974E-05	4.15948E-05	4.15948E-05	0	0	5.02121E-10	5.25955E-09	5.76167E-09	0.0057617
6044014130742	604401	4130742	3.34307E-05	1.67154E-05	1.67154E-05	3.34307E-05	3.34307E-05	0	0	4.03567E-10	4.22723E-09	4.6308E-09	0.0046308
6044514130742	604451	4130742	2.69261E-05	1.34631E-05	1.34631E-05	2.69261E-05	2.69261E-05	0	0	3.25045E-10	3.40474E-09	3.72978E-09	0.0037298
6039014130792	603901	4130792	9.20691E-05	4.60345E-05	4.60345E-05	9.20691E-05	9.20691E-05	0	0	1.11143E-09	1.16419E-08	1.27533E-08	0.0127533
6039514130792	603951	4130792	0.000123832	6.19162E-05	6.19162E-05	0.000123832	0.000123832	0	0	1.49487E-09	1.56583E-08	1.71531E-08	0.0171531
6040014130792	604001	4130792	0.000150853	7.54263E-05	7.54263E-05	0.000150853	0.000150853	0	0	1.82105E-09	1.90749E-08	2.0896E-08	0.020896
6040514130792	604051	4130792	0.0001543	7.71502E-05	7.71502E-05	0.0001543	0.0001543	0	0	1.86267E-09	1.95109E-08	2.13736E-08	0.0213736
6041014130792	604101	4130792	0.0001363	6.815E-05	6.815E-05	0.0001363	0.0001363	0	0	1.64537E-09	1.72348E-08	1.88801E-08	0.0188801
6042014130792	604201	4130792	8.51527E-05	4.25764E-05	4.25764E-05	8.51527E-05	8.51527E-05	0	0	1.02794E-09	1.07673E-08	1.17953E-08	0.0117953
6042514130792	604251	4130792	6.48002E-05	3.24001E-05	3.24001E-05	6.48002E-05	6.48002E-05	0	0	7.8225E-10	8.19382E-09	8.97607E-09	0.0089761
6043014130792	604301	4130792	4.93408E-05	2.46704E-05	2.46704E-05	4.93408E-05	4.93408E-05	0	0	5.95629E-10	6.23902E-09	6.83465E-09	0.0068346
6043514130792	604351	4130792	3.79247E-05	1.89624E-05	1.89624E-05	3.79247E-05	3.79247E-05	0	0	4.57817E-10	4.79548E-09	5.2533E-09	0.0052533
6044014130792	604401	4130792	2.956E-05	1.478E-05	1.478E-05	2.956E-05	2.956E-05	0	0	3.5684E-10	3.73778E-09	4.09462E-09	0.0040946
6044514130792	604451	4130792	2.33994E-05	1.16997E-05	1.16997E-05	2.33994E-05	2.33994E-05	0	0	2.82471E-10	2.95879E-09	3.24127E-09	0.0032413
6039014130842	603901	4130842	0.000208179	0.000104089	0.000104089	0.000208179	0.000208179	0	0	2.51307E-09	2.63236E-08	2.88367E-08	0.0288367
6039514130842	603951	4130842	0.000284744	0.000142372	0.000142372	0.000284744	0.000284744	0	0	3.43735E-09	3.60051E-08	3.94425E-08	0.0394425
6040014130842	604001	4130842	0.000289784	0.000144892	0.000144892	0.000289784	0.000289784	0	0	3.49819E-09	3.66424E-08	4.01406E-08	0.0401406
6040514130842	604051	4130842	0.000230716	0.000115358	0.000115358	0.000230716	0.000230716	0	0	2.78514E-09	2.91734E-08	3.19585E-08	0.0319585
6043014130842	604301	4130842	4.1869E-05	2.09345E-05	2.09345E-05	4.1869E-05	4.1869E-05	0	0	5.0543E-10	5.29422E-09	5.79965E-09	0.0057997
6043514130842	604351	4130842	3.15751E-05	1.57876E-05	1.57876E-05	3.15751E-05	3.15751E-05	0	0	3.81166E-10	3.99259E-09	4.37375E-09	0.0043738
6044014130842	604401	4130842	2.43909E-05	1.21954E-05	1.21954E-05	2.43909E-05	2.43909E-05	0	0	2.9444E-10	3.08416E-09	3.3786E-09	0.0033786
6044514130842	604451	4130842	1.93297E-05	9.66486E-06	9.66486E-06	1.93297E-05	1.93297E-05	0	0	2.33343E-10	2.44419E-09	2.67754E-09	0.0026775
6039514130892	603951	4130892	0.000710716	0.000355358	0.000355358	0.000710716	0.000710716	0	0	8.57957E-09	8.98682E-08	9.84477E-08	0.0984477
6043514130892	604351	4130892	2.47623E-05	1.23811E-05	1.23811E-05	2.47623E-05	2.47623E-05	0	0	2.98923E-10	3.13112E-09	3.43005E-09	0.00343
6044014130892	604401	4130892	1.94386E-05	9.71929E-06	9.71929E-06	1.94386E-05	1.94386E-05	0	0	2.34657E-10	2.45796E-09	2.69262E-09	0.0026926
6044514130892	604451	4130892	1.56619E-05	7.83094E-06	7.83094E-06	1.56619E-05	1.56619E-05	0	0	1.89066E-10	1.9804E-09	2.16947E-09	0.0021695
6043014130942	604301	4130942	2.46592E-05	1.23296E-05	1.23296E-05	2.46592E-05	2.46592E-05	0	0	2.97679E-10	3.11809E-09	3.41577E-09	0.0034158

6043514130942	604351	4130942	1.93458E-05	9.67292E-06	9.67292E-06	1.93458E-05	1.93458E-05	0	0	2.33538E-10	2.44623E-09	2.67977E-09	0.0026798
6044014130942	604401	4130942	1.56005E-05	7.80025E-06	7.80025E-06	1.56005E-05	1.56005E-05	0	0	1.88325E-10	1.97264E-09	2.16097E-09	0.002161
6044514130942	604451	4130942	1.28686E-05	6.43428E-06	6.43428E-06	1.28686E-05	1.28686E-05	0	0	1.55346E-10	1.6272E-09	1.78254E-09	0.0017825
6042514130992	604251	4130992	2.45777E-05	1.22888E-05	1.22888E-05	2.45777E-05	2.45777E-05	0	0	2.96695E-10	3.10778E-09	3.40448E-09	0.0034045
6043014130992	604301	4130992	1.93978E-05	9.69891E-06	9.69891E-06	1.93978E-05	1.93978E-05	0	0	2.34165E-10	2.4528E-09	2.68697E-09	0.002687
6043514130992	604351	4130992	1.57197E-05	7.85984E-06	7.85984E-06	1.57197E-05	1.57197E-05	0	0	1.89764E-10	1.98771E-09	2.17748E-09	0.0021775
6044014130992	604401	4130992	1.30052E-05	6.5026E-06	6.5026E-06	1.30052E-05	1.30052E-05	0	0	1.56995E-10	1.64447E-09	1.80147E-09	0.0018015
6044514130992	604451	4130992	1.09551E-05	5.47756E-06	5.47756E-06	1.09551E-05	1.09551E-05	0	0	1.32247E-10	1.38525E-09	1.51749E-09	0.0015175
6034514131042	603451	4131042	3.14806E-05	1.57403E-05	1.57403E-05	3.14806E-05	3.14806E-05	0	0	3.80025E-10	3.98064E-09	4.36066E-09	0.0043607
6035014131042	603501	4131042	4.38075E-05	2.19037E-05	2.19037E-05	4.38075E-05	4.38075E-05	0	0	5.28832E-10	5.53934E-09	6.06817E-09	0.0060682
6035514131042	603551	4131042	6.51093E-05	3.25547E-05	3.25547E-05	6.51093E-05	6.51093E-05	0	0	7.85982E-10	8.2329E-09	9.01889E-09	0.0090189
6036014131042	603601	4131042	0.000106115	5.30575E-05	5.30575E-05	0.000106115	0.000106115	0	0	1.28099E-09	1.3418E-08	1.4699E-08	0.014699
6042514131042	604251	4131042	2.0017E-05	1.00085E-05	1.00085E-05	2.0017E-05	2.0017E-05	0	0	2.41639E-10	2.53109E-09	2.77273E-09	0.0027727
6043014131042	604301	4131042	1.62111E-05	8.10557E-06	8.10557E-06	1.62111E-05	1.62111E-05	0	0	1.95696E-10	2.04986E-09	2.24555E-09	0.0022456
6043514131042	604351	4131042	1.34192E-05	6.70958E-06	6.70958E-06	1.34192E-05	1.34192E-05	0	0	1.61992E-10	1.69682E-09	1.85881E-09	0.0018588
6044014131042	604401	4131042	1.13014E-05	5.65072E-06	5.65072E-06	1.13014E-05	1.13014E-05	0	0	1.36428E-10	1.42904E-09	1.56546E-09	0.0015655
6044514131042	604451	4131042	9.67024E-06	4.83512E-06	4.83512E-06	9.67024E-06	9.67024E-06	0	0	1.16736E-10	1.22278E-09	1.33951E-09	0.0013395
6034514131092	603451	4131092	4.09026E-05	2.04513E-05	2.04513E-05	4.09026E-05	4.09026E-05	0	0	4.93765E-10	5.17203E-09	5.66579E-09	0.0056658
6035014131092	603501	4131092	5.8641E-05	2.93205E-05	2.93205E-05	5.8641E-05	5.8641E-05	0	0	7.07898E-10	7.415E-09	8.1229E-09	0.0081229
6035514131092	603551	4131092	8.92269E-05	4.46135E-05	4.46135E-05	8.92269E-05	8.92269E-05	0	0	1.07712E-09	1.12825E-08	1.23596E-08	0.0123596
6036014131092	603601	4131092	0.000145386	7.26928E-05	7.26928E-05	0.000145386	0.000145386	0	0	1.75505E-09	1.83836E-08	2.01387E-08	0.0201387
6036514131092	603651	4131092	0.000254228	0.000127114	0.000127114	0.000254228	0.000254228	0	0	3.06896E-09	3.21464E-08	3.52154E-08	0.0352154
6042514131092	604251	4131092	1.71685E-05	8.58427E-06	8.58427E-06	1.71685E-05	1.71685E-05	0	0	2.07254E-10	2.17092E-09	2.37817E-09	0.0023782
6043014131092	604301	4131092	1.41624E-05	7.0812E-06	7.0812E-06	1.41624E-05	1.41624E-05	0	0	1.70965E-10	1.7908E-09	1.96176E-09	0.0019618
6043514131092	604351	4131092	1.18901E-05	5.94506E-06	5.94506E-06	1.18901E-05	1.18901E-05	0	0	1.43534E-10	1.50347E-09	1.64701E-09	0.001647
6044014131092	604401	4131092	1.01442E-05	5.07211E-06	5.07211E-06	1.01442E-05	1.01442E-05	0	0	1.22458E-10	1.28271E-09	1.40517E-09	0.0014052
6044514131092	604451	4131092	8.7675E-06	4.38375E-06	4.38375E-06	8.7675E-06	8.7675E-06	0	0	1.05839E-10	1.10863E-09	1.21447E-09	0.0012145
6034514131142	603451	4131142	5.11042E-05	2.55521E-05	2.55521E-05	5.11042E-05	5.11042E-05	0	0	6.16915E-10	6.46199E-09	7.07891E-09	0.0070789
6035014131142	603501	4131142	7.18541E-05	3.5927E-05	3.5927E-05	7.18541E-05	7.18541E-05	0	0	8.67403E-10	9.08576E-09	9.95316E-09	0.0099532
6035514131142	603551	4131142	0.000103403	5.17014E-05	5.17014E-05	0.000103403	0.000103403	0	0	1.24825E-09	1.3075E-08	1.43233E-08	0.0143233
6036014131142	603601	4131142	0.000149293	7.46465E-05	7.46465E-05	0.000149293	0.000149293	0	0	1.80222E-09	1.88777E-08	2.06799E-08	0.0206799
6036514131142	603651	4131142	0.000205619	0.00010281	0.00010281	0.000205619	0.000205619	0	0	2.48218E-09	2.6E-08	2.84822E-08	0.0284822
6037014131142	603701	4131142	0.000246261	0.000123131	0.000123131	0.000246261	0.000246261	0	0	2.97279E-09	3.11391E-08	3.41119E-08	0.0341119
6037514131142	603751	4131142	0.00023671	0.000118355	0.000118355	0.00023671	0.00023671	0	0	2.8575E-09	2.99314E-08	3.27889E-08	0.0327889
6043014131142	604301	4131142	1.26472E-05	6.32362E-06	6.32362E-06	1.26472E-05	1.26472E-05	0	0	1.52674E-10	1.59921E-09	1.75188E-09	0.0017519
6043514131142	604351	4131142	1.07513E-05	5.37564E-06	5.37564E-06	1.07513E-05	1.07513E-05	0	0	1.29786E-10	1.35947E-09	1.48926E-09	0.0014893
6044014131142	604401	4131142	9.26972E-06	4.63486E-06	4.63486E-06	9.26972E-06	9.26972E-06	0	0	1.11901E-10	1.17213E-09	1.28403E-09	0.001284
6044514131142	604451	4131142	8.07578E-06	4.03789E-06	4.03789E-06	8.07578E-06	8.07578E-06	0	0	9.74885E-11	1.02116E-09	1.11865E-09	0.0011186
6034514131192	603451	4131192	5.69095E-05	2.84547E-05	2.84547E-05	5.69095E-05	5.69095E-05	0	0	6.86995E-10	7.19605E-09	7.88305E-09	0.007883
6035014131192	603501	4131192	7.47581E-05	3.7379E-05	3.7379E-05	7.47581E-05	7.47581E-05	0	0	9.02459E-10	9.45296E-09	1.03554E-08	0.0103554
6035514131192	603551	4131192	9.67785E-05	4.83893E-05	4.83893E-05	9.67785E-05	9.67785E-05	0	0	1.16828E-09	1.22374E-08	1.34057E-08	0.0134057
6036014131192	603601	4131192	0.000119453	5.97263E-05	5.97263E-05	0.000119453	0.000119453	0	0	1.442E-09	1.51045E-08	1.65465E-08	0.0165465
6036514131192	603651	4131192	0.000135097	6.75483E-05	6.75483E-05	0.000135097	0.000135097	0	0	1.63085E-09	1.70826E-08	1.87135E-08	0.0187135
6037014131192	603701	4131192	0.00013606	6.80301E-05	6.80301E-05	0.00013606	0.00013606	0	0	1.64248E-09	1.72045E-08	1.88469E-08	0.0188469
6037514131192	603751	4131192	0.000123831	6.19155E-05	6.19155E-05	0.000123831	0.000123831	0	0	1.49485E-09	1.56581E-08	1.7153E-08	0.017153
6038014131192	603801	4131192	0.00010218	5.10899E-05	5.10899E-05	0.00010218	0.00010218	0	0	1.23348E-09	1.29204E-08	1.41538E-08	0.0141538
6043514131192	604351	4131192	9.79881E-06	4.89941E-06	4.89941E-06	9.79881E-06	9.79881E-06	0	0	1.18289E-10	1.23903E-09	1.35732E-09	0.0013573
6044014131192	604401	4131192	8.53051E-06	4.26525E-06	4.26525E-06	8.53051E-06	8.53051E-06	0	0	1.02978E-10	1.07866E-09	1.18164E-09	0.0011816
6044514131192	604451	4131192	7.4983E-06	3.74915E-06	3.74915E-06	7.4983E-06	7.4983E-06	0	0	9.05174E-11	9.4814E-10	1.03866E-09	0.0010387
6034514131242	603451	4131242	5.59458E-05	2.79729E-05	2.79729E-05	5.59458E-05	5.59458E-05	0	0	6.75362E-10	7.0742E-09	7.74956E-09	0.0077496
6035014131242	603501	4131242	6.77329E-05	3.38664E-05	3.38664E-05	6.77329E-05	6.77329E-05	0	0	8.17652E-10	8.56464E-09	9.3823E-09	0.0093823

6035514131242	603551	4131242	7.89465E-05	3.94732E-05	3.94732E-05	7.89465E-05	7.89465E-05	0	0	9.5302E-10	9.98258E-09	1.09356E-08	0.0109356
6036014131242	603601	4131242	8.6611E-05	4.33055E-05	4.33055E-05	8.6611E-05	8.6611E-05	0	0	1.04554E-09	1.09517E-08	1.19973E-08	0.0119973
6036514131242	603651	4131242	8.82185E-05	4.41092E-05	4.41092E-05	8.82185E-05	8.82185E-05	0	0	1.06495E-09	1.1155E-08	1.22199E-08	0.0122199
6037014131242	603701	4131242	8.41752E-05	4.20876E-05	4.20876E-05	8.41752E-05	8.41752E-05	0	0	1.01614E-09	1.06437E-08	1.16599E-08	0.0116599
6037514131242	603751	4131242	7.59964E-05	3.79982E-05	3.79982E-05	7.59964E-05	7.59964E-05	0	0	9.17407E-10	9.60954E-09	1.05269E-08	0.0105269
6038014131242	603801	4131242	6.46004E-05	3.23002E-05	3.23002E-05	6.46004E-05	6.46004E-05	0	0	7.79838E-10	8.16855E-09	8.94839E-09	0.0089484
6043014131242	604301	4131242	1.02016E-05	5.10079E-06	5.10079E-06	1.02016E-05	1.02016E-05	0	0	1.23151E-10	1.28996E-09	1.41311E-09	0.0014131
6043514131242	604351	4131242	8.9243E-06	4.46215E-06	4.46215E-06	8.9243E-06	8.9243E-06	0	0	1.07732E-10	1.12845E-09	1.23619E-09	0.0012362
6044014131242	604401	4131242	7.85939E-06	3.9297E-06	3.9297E-06	7.85939E-06	7.85939E-06	0	0	9.48764E-11	9.93799E-10	1.08868E-09	0.0010887
6044514131242	604451	4131242	6.97816E-06	3.48908E-06	3.48908E-06	6.97816E-06	6.97816E-06	0	0	8.42384E-11	8.8237E-10	9.66608E-10	0.0009666
6034514131292	603451	4131292	5.02377E-05	2.51189E-05	2.51189E-05	5.02377E-05	5.02377E-05	0	0	6.06456E-10	6.35243E-09	6.95889E-09	0.0069589
6035014131292	603501	4131292	5.64897E-05	2.82448E-05	2.82448E-05	5.64897E-05	5.64897E-05	0	0	6.81928E-10	7.14297E-09	7.82497E-09	0.0078249
6035514131292	603551	4131292	6.07973E-05	3.03986E-05	3.03986E-05	6.07973E-05	6.07973E-05	0	0	7.33928E-10	7.68765E-09	8.42158E-09	0.0084216
6036014131292	603601	4131292	6.21529E-05	3.10765E-05	3.10765E-05	6.21529E-05	6.21529E-05	0	0	7.50293E-10	7.85908E-09	8.60937E-09	0.0086094
6036514131292	603651	4131292	6.05217E-05	3.02609E-05	3.02609E-05	6.05217E-05	6.05217E-05	0	0	7.30602E-10	7.65282E-09	8.38342E-09	0.0083834
6037014131292	603701	4131292	5.68105E-05	2.84052E-05	2.84052E-05	5.68105E-05	5.68105E-05	0	0	6.858E-10	7.18353E-09	7.86933E-09	0.0078693
6037514131292	603751	4131292	5.14048E-05	2.57024E-05	2.57024E-05	5.14048E-05	5.14048E-05	0	0	6.20544E-10	6.5E-09	7.12055E-09	0.0071205
6043014131292	604301	4131292	9.13128E-06	4.56564E-06	4.56564E-06	9.13128E-06	9.13128E-06	0	0	1.1023E-10	1.15463E-09	1.26486E-09	0.0012649
6043514131292	604351	4131292	8.10042E-06	4.05021E-06	4.05021E-06	8.10042E-06	8.10042E-06	0	0	9.7786E-11	1.02428E-09	1.12206E-09	0.0011221
6044014131292	604401	4131292	7.2277E-06	3.61385E-06	3.61385E-06	7.2277E-06	7.2277E-06	0	0	8.72508E-11	9.13924E-10	1.00117E-09	0.0010012
6044514131292	604451	4131292	6.47729E-06	3.23864E-06	3.23864E-06	6.47729E-06	6.47729E-06	0	0	7.8192E-11	8.19036E-10	8.97228E-10	0.0008972
6034514131342	603451	4131342	4.27547E-05	2.13773E-05	2.13773E-05	4.27547E-05	4.27547E-05	0	0	5.16123E-10	5.40622E-09	5.92234E-09	0.0059223
6035014131342	603501	4131342	4.53769E-05	2.26884E-05	2.26884E-05	4.53769E-05	4.53769E-05	0	0	5.47777E-10	5.73778E-09	6.28556E-09	0.0062856
6035514131342	603551	4131342	4.6375E-05	2.31875E-05	2.31875E-05	4.6375E-05	4.6375E-05	0	0	5.59826E-10	5.864E-09	6.42383E-09	0.0064238
6036014131342	603601	4131342	4.56663E-05	2.28331E-05	2.28331E-05	4.56663E-05	4.56663E-05	0	0	5.51271E-10	5.77438E-09	6.32565E-09	0.0063257
6036514131342	603651	4131342	4.36897E-05	2.18448E-05	2.18448E-05	4.36897E-05	4.36897E-05	0	0	5.27409E-10	5.52444E-09	6.05185E-09	0.0060519
6037014131342	603701	4131342	4.08457E-05	2.04229E-05	2.04229E-05	4.08457E-05	4.08457E-05	0	0	4.93078E-10	5.16483E-09	5.65791E-09	0.0056579
6037514131342	603751	4131342	3.71049E-05	1.85524E-05	1.85524E-05	3.71049E-05	3.71049E-05	0	0	4.47919E-10	4.69181E-09	5.13973E-09	0.0051397
6042514131342	604251	4131342	9.13352E-06	4.56676E-06	4.56676E-06	9.13352E-06	9.13352E-06	0	0	1.10257E-10	1.15491E-09	1.26517E-09	0.0012652
6043014131342	604301	4131342	8.16404E-06	4.08202E-06	4.08202E-06	8.16404E-06	8.16404E-06	0	0	9.8554E-11	1.03232E-09	1.13087E-09	0.0011309
6043514131342	604351	4131342	7.33567E-06	3.66784E-06	3.66784E-06	7.33567E-06	7.33567E-06	0	0	8.85542E-11	9.27576E-10	1.01613E-09	0.0010161
6044014131342	604401	4131342	6.61886E-06	3.30943E-06	3.30943E-06	6.61886E-06	6.61886E-06	0	0	7.9901E-11	8.36937E-10	9.16838E-10	0.0009168
6044514131342	604451	4131342	5.99479E-06	2.99739E-06	2.99739E-06	5.99479E-06	5.99479E-06	0	0	7.23674E-11	7.58025E-10	8.30392E-10	0.0008304
6034514131392	603451	4131392	3.54006E-05	1.77003E-05	1.77003E-05	3.54006E-05	3.54006E-05	0	0	4.27347E-10	4.47632E-09	4.90366E-09	0.0049037
6035014131392	603501	4131392	3.61309E-05	1.80654E-05	1.80654E-05	3.61309E-05	3.61309E-05	0	0	4.36162E-10	4.56866E-09	5.00482E-09	0.0050048
6035514131392	603551	4131392	3.57994E-05	1.78997E-05	1.78997E-05	3.57994E-05	3.57994E-05	0	0	4.3216E-10	4.52674E-09	4.9589E-09	0.0049589
6036014131392	603601	4131392	3.46543E-05	1.73271E-05	1.73271E-05	3.46543E-05	3.46543E-05	0	0	4.18337E-10	4.38194E-09	4.80028E-09	0.0048003
6036514131392	603651	4131392	3.29612E-05	1.64806E-05	1.64806E-05	3.29612E-05	3.29612E-05	0	0	3.97899E-10	4.16786E-09	4.56576E-09	0.0045658
6037014131392	603701	4131392	3.07781E-05	1.5389E-05	1.5389E-05	3.07781E-05	3.07781E-05	0	0	3.71545E-10	3.89181E-09	4.26335E-09	0.0042634
6037514131392	603751	4131392	2.80878E-05	1.40439E-05	1.40439E-05	2.80878E-05	2.80878E-05	0	0	3.39068E-10	3.55163E-09	3.8907E-09	0.0038907
6039514131392	603951	4131392	1.64562E-05	8.2281E-06	8.2281E-06	1.64562E-05	1.64562E-05	0	0	1.98655E-10	2.08084E-09	2.2795E-09	0.0022795
6040014131392	604001	4131392	1.44218E-05	7.2109E-06	7.2109E-06	1.44218E-05	1.44218E-05	0	0	1.74096E-10	1.8236E-09	1.99769E-09	0.0019977
6040514131392	604051	4131392	1.27404E-05	6.37022E-06	6.37022E-06	1.27404E-05	1.27404E-05	0	0	1.53799E-10	1.61099E-09	1.76479E-09	0.0017648
6042014131392	604201	4131392	9.00629E-06	4.50314E-06	4.50314E-06	9.00629E-06	9.00629E-06	0	0	1.08721E-10	1.13882E-09	1.24754E-09	0.0012475
6042514131392	604251	4131392	8.0928E-06	4.0464E-06	4.0464E-06	8.0928E-06	8.0928E-06	0	0	9.76941E-11	1.02331E-09	1.12101E-09	0.001121
6043014131392	604301	4131392	7.31148E-06	3.65574E-06	3.65574E-06	7.31148E-06	7.31148E-06	0	0	8.82621E-11	9.24517E-10	1.01278E-09	0.0010128
6043514131392	604351	4131392	6.63768E-06	3.31884E-06	3.31884E-06	6.63768E-06	6.63768E-06	0	0	8.01282E-11	8.39317E-10	9.19445E-10	0.0009194
6044014131392	604401	4131392	6.04944E-06	3.02472E-06	3.02472E-06	6.04944E-06	6.04944E-06	0	0	7.30272E-11	7.64936E-10	8.37963E-10	0.000838
6044514131392	604451	4131392	5.52931E-06	2.76465E-06	2.76465E-06	5.52931E-06	5.52931E-06	0	0	6.67482E-11	6.99166E-10	7.65914E-10	0.0007659
6034514131442	603451	4131442	2.90748E-05	1.45374E-05	1.45374E-05	2.90748E-05	2.90748E-05	0	0	3.50983E-10	3.67643E-09	4.02741E-09	0.0040274
6035014131442	603501	4131442	2.89319E-05	1.44659E-05	1.44659E-05	2.89319E-05	2.89319E-05	0	0	3.49257E-10	3.65836E-09	4.00761E-09	0.0040076

6035514131442	603551	4131442	2.82083E-05	1.41042E-05	1.41042E-05	2.82083E-05	2.82083E-05	0	0	3.40523E-10	3.56687E-09	3.90739E-09	0.0039074
6036014131442	603601	4131442	2.71089E-05	1.35545E-05	1.35545E-05	2.71089E-05	2.71089E-05	0	0	3.27251E-10	3.42785E-09	3.7551E-09	0.0037551
6036514131442	603651	4131442	2.57353E-05	1.28677E-05	1.28677E-05	2.57353E-05	2.57353E-05	0	0	3.1067E-10	3.25416E-09	3.56483E-09	0.0035648
6037014131442	603701	4131442	2.40508E-05	1.20254E-05	1.20254E-05	2.40508E-05	2.40508E-05	0	0	2.90335E-10	3.04116E-09	3.3315E-09	0.0033315
6037514131442	603751	4131442	2.20446E-05	1.10223E-05	1.10223E-05	2.20446E-05	2.20446E-05	0	0	2.66117E-10	2.78749E-09	3.0536E-09	0.0030536
6038014131442	603801	4131442	1.98288E-05	9.9144E-06	9.9144E-06	1.98288E-05	1.98288E-05	0	0	2.39368E-10	2.5073E-09	2.74667E-09	0.0027467
6038514131442	603851	4131442	1.75794E-05	8.78968E-06	8.78968E-06	1.75794E-05	1.75794E-05	0	0	2.12213E-10	2.22286E-09	2.43508E-09	0.0024351
6039014131442	603901	4131442	1.54625E-05	7.73126E-06	7.73126E-06	1.54625E-05	1.54625E-05	0	0	1.86659E-10	1.9552E-09	2.14185E-09	0.0021419
6039514131442	603951	4131442	1.3627E-05	6.81352E-06	6.81352E-06	1.3627E-05	1.3627E-05	0	0	1.64502E-10	1.7231E-09	1.8876E-09	0.0018876
6040014131442	604001	4131442	1.21043E-05	6.05213E-06	6.05213E-06	1.21043E-05	1.21043E-05	0	0	1.46119E-10	1.53055E-09	1.67667E-09	0.0016767
6040514131442	604051	4131442	1.08418E-05	5.42089E-06	5.42089E-06	1.08418E-05	1.08418E-05	0	0	1.30879E-10	1.37091E-09	1.50179E-09	0.0015018
6041014131442	604101	4131442	9.7567E-06	4.87835E-06	4.87835E-06	9.7567E-06	9.7567E-06	0	0	1.1778E-10	1.25371E-09	1.35149E-09	0.0013515
6042514131442	604251	4131442	7.21471E-06	3.60735E-06	3.60735E-06	7.21471E-06	7.21471E-06	0	0	8.7094E-11	9.12281E-10	9.99375E-10	0.0009994
6043014131442	604301	4131442	6.57316E-06	3.28658E-06	3.28658E-06	6.57316E-06	6.57316E-06	0	0	7.93494E-11	8.31159E-10	9.10508E-10	0.0009105
6043514131442	604351	4131442	6.01674E-06	3.00837E-06	3.00837E-06	6.01674E-06	6.01674E-06	0	0	7.26324E-11	7.60801E-10	8.33433E-10	0.0008334
6044014131442	604401	4131442	5.52841E-06	2.7642E-06	2.7642E-06	5.52841E-06	5.52841E-06	0	0	6.67374E-11	6.99053E-10	7.6579E-10	0.0007658
6034514131492	603451	4131492	2.39464E-05	1.19732E-05	1.19732E-05	2.39464E-05	2.39464E-05	0	0	2.89075E-10	3.02796E-09	3.31704E-09	0.003317
6035014131492	603501	4131492	2.3481E-05	1.17405E-05	1.17405E-05	2.3481E-05	2.3481E-05	0	0	2.83456E-10	2.96911E-09	3.25256E-09	0.0032526
6035514131492	603551	4131492	2.27283E-05	1.13642E-05	1.13642E-05	2.27283E-05	2.27283E-05	0	0	2.7437E-10	2.87393E-09	3.1483E-09	0.0031483
6036014131492	603601	4131492	2.17897E-05	1.08949E-05	1.08949E-05	2.17897E-05	2.17897E-05	0	0	2.6304E-10	2.75525E-09	3.01829E-09	0.0030183
6036514131492	603651	4131492	2.0676E-05	1.0338E-05	1.0338E-05	2.0676E-05	2.0676E-05	0	0	2.49595E-10	2.61442E-09	2.86402E-09	0.002864
6037014131492	603701	4131492	1.93355E-05	9.66777E-06	9.66777E-06	1.93355E-05	1.93355E-05	0	0	2.33413E-10	2.44493E-09	2.67834E-09	0.0026783
6037514131492	603751	4131492	1.77957E-05	8.89787E-06	8.89787E-06	1.77957E-05	1.77957E-05	0	0	2.14825E-10	2.25022E-09	2.46505E-09	0.0024651
6038014131492	603801	4131492	1.61493E-05	8.07466E-06	8.07466E-06	1.61493E-05	1.61493E-05	0	0	1.9495E-10	2.04204E-09	2.23699E-09	0.002237
6038514131492	603851	4131492	1.44868E-05	7.24338E-06	7.24338E-06	1.44868E-05	1.44868E-05	0	0	1.7488E-10	1.83181E-09	2.00669E-09	0.0020067
6039014131492	603901	4131492	1.29053E-05	6.45265E-06	6.45265E-06	1.29053E-05	1.29053E-05	0	0	1.55789E-10	1.63184E-09	1.78763E-09	0.0017876
6039514131492	603951	4131492	1.1503E-05	5.75152E-06	5.75152E-06	1.1503E-05	1.1503E-05	0	0	1.38861E-10	1.45453E-09	1.59339E-09	0.0015934
6040014131492	604001	4131492	1.03248E-05	5.16239E-06	5.16239E-06	1.03248E-05	1.03248E-05	0	0	1.24638E-10	1.30554E-09	1.43018E-09	0.0014302
6040514131492	604051	4131492	9.34588E-06	4.67294E-06	4.67294E-06	9.34588E-06	9.34588E-06	0	0	1.12821E-10	1.18176E-09	1.29458E-09	0.0012946
6041014131492	604101	4131492	8.50676E-06	4.25338E-06	4.25338E-06	8.50676E-06	8.50676E-06	0	0	1.02691E-10	1.07566E-09	1.17835E-09	0.0011783
6041514131492	604151	4131492	7.75769E-06	3.87885E-06	3.87885E-06	7.75769E-06	7.75769E-06	0	0	9.36487E-11	9.8094E-10	1.07459E-09	0.0010746
6043014131492	604301	4131492	5.94058E-06	2.97029E-06	2.97029E-06	5.94058E-06	5.94058E-06	0	0	7.1713E-11	7.5117E-10	8.22883E-10	0.0008229
6043514131492	604351	4131492	5.47286E-06	2.73643E-06	2.73643E-06	5.47286E-06	5.47286E-06	0	0	6.60668E-11	6.92028E-10	7.58095E-10	0.0007581
6034514131542	603451	4131542	1.98982E-05	9.94912E-06	9.94912E-06	1.98982E-05	1.98982E-05	0	0	2.40206E-10	2.51608E-09	2.75629E-09	0.0027563
6035014131542	603501	4131542	1.93665E-05	9.68323E-06	9.68323E-06	1.93665E-05	1.93665E-05	0	0	2.33786E-10	2.44884E-09	2.68262E-09	0.0026826
6035514131542	603551	4131542	1.86909E-05	9.34543E-06	9.34543E-06	1.86909E-05	1.86909E-05	0	0	2.25631E-10	2.36341E-09	2.58904E-09	0.002589
6036014131542	603601	4131542	1.79104E-05	8.95522E-06	8.95522E-06	1.79104E-05	1.79104E-05	0	0	2.1621E-10	2.26473E-09	2.48094E-09	0.0024809
6036514131542	603651	4131542	1.69911E-05	8.49556E-06	8.49556E-06	1.69911E-05	1.69911E-05	0	0	2.05112E-10	2.14848E-09	2.35359E-09	0.0023536
6037014131542	603701	4131542	1.59056E-05	7.9528E-06	7.9528E-06	1.59056E-05	1.59056E-05	0	0	1.92008E-10	2.01122E-09	2.20323E-09	0.0022032
6037514131542	603751	4131542	1.47005E-05	7.35023E-06	7.35023E-06	1.47005E-05	1.47005E-05	0	0	1.7746E-10	1.85883E-09	2.03629E-09	0.0020363
6038014131542	603801	4131542	1.34411E-05	6.72056E-06	6.72056E-06	1.34411E-05	1.34411E-05	0	0	1.62257E-10	1.69959E-09	1.86185E-09	0.0018619
6038514131542	603851	4131542	1.21764E-05	6.08819E-06	6.08819E-06	1.21764E-05	1.21764E-05	0	0	1.4699E-10	1.53967E-09	1.68666E-09	0.0016867
6039014131542	603901	4131542	1.09623E-05	5.48114E-06	5.48114E-06	1.09623E-05	1.09623E-05	0	0	1.32334E-10	1.38615E-09	1.51849E-09	0.0015185
6039514131542	603951	4131542	9.86422E-06	4.93211E-06	4.93211E-06	9.86422E-06	9.86422E-06	0	0	1.19078E-10	1.24731E-09	1.36638E-09	0.0013664
6040014131542	604001	4131542	8.93058E-06	4.46529E-06	4.46529E-06	8.93058E-06	8.93058E-06	0	0	1.07807E-10	1.12925E-09	1.23706E-09	0.0012371
6040514131542	604051	4131542	8.15104E-06	4.07552E-06	4.07552E-06	8.15104E-06	8.15104E-06	0	0	9.83971E-11	1.03068E-09	1.12908E-09	0.0011291
6041014131542	604101	4131542	7.48665E-06	3.74332E-06	3.74332E-06	7.48665E-06	7.48665E-06	0	0	9.03767E-11	9.46667E-10	1.03704E-09	0.001037
6041514131542	604151	4131542	6.89349E-06	3.44674E-06	3.44674E-06	6.89349E-06	6.89349E-06	0	0	8.32163E-11	8.71663E-10	9.5488E-10	0.0009549
603878.014130524.31	603878.01	4130524.3	1.14811E-05	5.74054E-06	5.74054E-06	1.14811E-05	1.14811E-05	0	0	1.38596E-10	1.45175E-09	1.59035E-09	0.0015903
603920.264130511.38	603920.26	4130511.4	1.15581E-05	5.77907E-06	5.77907E-06	1.15581E-05	1.15581E-05	0	0	1.39527E-10	1.4615E-09	1.60102E-09	0.001601
6039894130534	603989	4130534	1.45432E-05	7.27161E-06	7.27161E-06	1.45432E-05	1.45432E-05	0	0	1.75562E-10	1.83895E-09	2.01451E-09	0.0020145

6038394130584	603839	4130584	1.43524E-05	7.17618E-06	7.17618E-06	1.43524E-05	1.43524E-05	0	0	1.73258E-10	1.81482E-09	1.98808E-09	0.0019881
6038894130584	603889	4130584	1.56547E-05	7.82736E-06	7.82736E-06	1.56547E-05	1.56547E-05	0	0	1.88979E-10	1.9795E-09	2.16848E-09	0.0021685
603929.954130570.43	603929.95	4130570.4	1.5726E-05	7.86298E-06	7.86298E-06	1.5726E-05	1.5726E-05	0	0	1.89839E-10	1.98851E-09	2.17834E-09	0.0021783
6037894130634	603789	4130634	1.7242E-05	8.621E-06	8.621E-06	1.7242E-05	1.7242E-05	0	0	2.08141E-10	2.18021E-09	2.38835E-09	0.0023883
6038394130634	603839	4130634	1.89117E-05	9.45587E-06	9.45587E-06	1.89117E-05	1.89117E-05	0	0	2.28297E-10	2.39134E-09	2.61964E-09	0.0026196
6038894130634	603889	4130634	2.09623E-05	1.04811E-05	1.04811E-05	2.09623E-05	2.09623E-05	0	0	2.53051E-10	2.65062E-09	2.90367E-09	0.0029037
6039394130634	603939	4130634	2.36512E-05	1.18256E-05	1.18256E-05	2.36512E-05	2.36512E-05	0	0	2.85511E-10	2.99063E-09	3.27614E-09	0.0032761
6039894130634	603989	4130634	2.72774E-05	1.36387E-05	1.36387E-05	2.72774E-05	2.72774E-05	0	0	3.29285E-10	3.44915E-09	3.77844E-09	0.0037784
6038394130684	603839	4130684	2.60082E-05	1.30041E-05	1.30041E-05	2.60082E-05	2.60082E-05	0	0	3.13963E-10	3.28866E-09	3.60263E-09	0.0036026
6038894130684	603889	4130684	2.95904E-05	1.47952E-05	1.47952E-05	2.95904E-05	2.95904E-05	0	0	3.57207E-10	3.74163E-09	4.09884E-09	0.0040988
6039394130684	603939	4130684	3.4656E-05	1.7328E-05	1.7328E-05	3.4656E-05	3.4656E-05	0	0	4.18358E-10	4.38217E-09	4.80052E-09	0.0048005
6039894130684	603989	4130684	4.16158E-05	2.08079E-05	2.08079E-05	4.16158E-05	4.16158E-05	0	0	5.02375E-10	5.26221E-09	5.76459E-09	0.0057646
6037394130734	603739	4130734	2.84189E-05	1.42094E-05	1.42094E-05	2.84189E-05	2.84189E-05	0	0	3.43065E-10	3.59349E-09	3.93656E-09	0.0039366
6038894130734	603889	4130734	4.51466E-05	2.25733E-05	2.25733E-05	4.51466E-05	4.51466E-05	0	0	5.44997E-10	5.70867E-09	6.25366E-09	0.0062537
6039394130734	603939	4130734	5.57688E-05	2.78844E-05	2.78844E-05	5.57688E-05	5.57688E-05	0	0	6.73226E-10	7.05182E-09	7.72505E-09	0.007725
6039894130734	603989	4130734	6.96212E-05	3.48106E-05	3.48106E-05	6.96212E-05	6.96212E-05	0	0	8.40448E-10	8.80342E-09	9.64387E-09	0.0096439



**2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School**

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)
Demolition	3.1. Demolition (2024)	0.006	10	8.11965E-05
Site Preparation	3.3. Site Preparatic	0.003	10	4.05982E-05
Grading	3.5. Grading (2024)	0.003	10	4.05982E-05
Building Construction	3.7. Building Const	0.006	10	8.11965E-05
Building Construction	3.9. Building Const	0.006	10	8.11965E-05
Paving	3.11. Paving (2025)	0.000	10	0
Architectural Coating	3.13. Architectural	0.000	10	0
0	0	1900	0.000	0
0	0	1900	0.000	0

<b>Max Haul Cancer Risk</b>
0.08

AERMOD Column Identifier: 8 8 8 8 8 8 8

MAX: 0.080333

Unique Identifier	X (UTM)	Y (UTM)	Demolition	Site Preparation	Grading	Building Construction	Building Construction	Paving	Architectural	Child Risk		Total	per million
			2024	2024	2024	2024	2025		Coating	3rd Trimester	0<2		
6039014130542	603901	4130542	5.56228E-05	2.78114E-05	2.78114E-05	5.56228E-05	5.56228E-05	0	0	6.71463E-10	7.03336E-09	7.70483E-09	0.0077048
6039514130542	603951	4130542	5.70876E-05	2.85438E-05	2.85438E-05	5.70876E-05	5.70876E-05	0	0	6.89146E-10	7.21858E-09	7.90773E-09	0.0079077
6040014130542	604001	4130542	5.70917E-05	2.85458E-05	2.85458E-05	5.70917E-05	5.70917E-05	0	0	6.89195E-10	7.21909E-09	7.90829E-09	0.0079083
6040514130542	604051	4130542	5.58729E-05	2.79365E-05	2.79365E-05	5.58729E-05	5.58729E-05	0	0	6.74482E-10	7.06499E-09	7.73947E-09	0.0077395
6041014130542	604101	4130542	5.36758E-05	2.68379E-05	2.68379E-05	5.36758E-05	5.36758E-05	0	0	6.47959E-10	6.78716E-09	7.43512E-09	0.0074351
6041514130542	604151	4130542	5.07356E-05	2.53678E-05	2.53678E-05	5.07356E-05	5.07356E-05	0	0	6.12466E-10	6.41539E-09	7.02785E-09	0.0070279
6042014130542	604201	4130542	4.73181E-05	2.3659E-05	2.3659E-05	4.73181E-05	4.73181E-05	0	0	5.71211E-10	5.98325E-09	6.55446E-09	0.0065545
6042514130542	604251	4130542	4.35871E-05	2.17935E-05	2.17935E-05	4.35871E-05	4.35871E-05	0	0	5.26171E-10	5.51147E-09	6.03764E-09	0.0060376
6043014130542	604301	4130542	3.97644E-05	1.98822E-05	1.98822E-05	3.97644E-05	3.97644E-05	0	0	4.80024E-10	5.0281E-09	5.50812E-09	0.0055081
6043514130542	604351	4130542	3.59798E-05	1.79899E-05	1.79899E-05	3.59798E-05	3.59798E-05	0	0	4.34338E-10	4.54955E-09	4.98389E-09	0.0049839
6044014130542	604401	4130542	3.23389E-05	1.61695E-05	1.61695E-05	3.23389E-05	3.23389E-05	0	0	3.90387E-10	4.08917E-09	4.47956E-09	0.0044796
6044514130542	604451	4130542	2.88986E-05	1.44493E-05	1.44493E-05	2.88986E-05	2.88986E-05	0	0	3.48856E-10	3.65416E-09	4.00301E-09	0.004003
6039514130592	603951	4130592	7.5084E-05	3.7542E-05	3.7542E-05	7.5084E-05	7.5084E-05	0	0	9.06393E-10	9.49418E-09	1.04006E-08	0.0104006
6040014130592	604001	4130592	7.22641E-05	3.6132E-05	3.6132E-05	7.22641E-05	7.22641E-05	0	0	8.72352E-10	9.1376E-09	1.001E-08	0.01001
6040514130592	604051	4130592	6.81604E-05	3.40802E-05	3.40802E-05	6.81604E-05	6.81604E-05	0	0	8.22813E-10	8.6187E-09	9.44152E-09	0.0094415
6041014130592	604101	4130592	6.33852E-05	3.16926E-05	3.16926E-05	6.33852E-05	6.33852E-05	0	0	7.65169E-10	8.0149E-09	8.78006E-09	0.0087801
6041514130592	604151	4130592	5.81156E-05	2.90578E-05	2.90578E-05	5.81156E-05	5.81156E-05	0	0	7.01555E-10	7.34856E-09	8.05012E-09	0.0080501
6042014130592	604201	4130592	5.26779E-05	2.63389E-05	2.63389E-05	5.26779E-05	5.26779E-05	0	0	6.35912E-10	6.66098E-09	7.29689E-09	0.0072969
6042514130592	604251	4130592	4.72344E-05	2.36172E-05	2.36172E-05	4.72344E-05	4.72344E-05	0	0	5.70201E-10	5.97267E-09	6.54287E-09	0.0065429
6043014130592	604301	4130592	4.20241E-05	2.1012E-05	2.1012E-05	4.20241E-05	4.20241E-05	0	0	5.07303E-10	5.31383E-09	5.82113E-09	0.0058211
6043514130592	604351	4130592	3.71523E-05	1.85761E-05	1.85761E-05	3.71523E-05	3.71523E-05	0	0	4.48492E-10	4.69781E-09	5.1463E-09	0.0051463
6044014130592	604401	4130592	3.2693E-05	1.63465E-05	1.63465E-05	3.2693E-05	3.2693E-05	0	0	3.9466E-10	4.13394E-09	4.5286E-09	0.0045286
6044514130592	604451	4130592	2.86656E-05	1.43328E-05	1.43328E-05	2.86656E-05	2.86656E-05	0	0	3.46043E-10	3.62469E-09	3.97073E-09	0.0039707
6040014130642	604001	4130642	8.87445E-05	4.43723E-05	4.43723E-05	8.87445E-05	8.87445E-05	0	0	1.0713E-09	1.12215E-08	1.22928E-08	0.0122928
6040514130642	604051	4130642	8.08189E-05	4.04095E-05	4.04095E-05	8.08189E-05	8.08189E-05	0	0	9.75624E-10	1.02193E-08	1.1195E-08	0.011195
6041014130642	604101	4130642	7.25807E-05	3.62904E-05	3.62904E-05	7.25807E-05	7.25807E-05	0	0	8.76174E-10	9.17764E-09	1.00538E-08	0.0100538
6041514130642	604151	4130642	6.45001E-05	3.225E-05	3.225E-05	6.45001E-05	6.45001E-05	0	0	7.78627E-10	8.15586E-09	8.93449E-09	0.0089345
6042014130642	604201	4130642	5.67206E-05	2.83603E-05	2.83603E-05	5.67206E-05	5.67206E-05	0	0	6.84716E-10	7.17217E-09	7.85689E-09	0.0078569

6042514130642	604251	4130642	4.94941E-05	2.47471E-05	2.47471E-05	4.94941E-05	4.94941E-05	0	0	5.97479E-10	6.2584E-09	6.85588E-09	0.0068559
6043014130642	604301	4130642	4.29091E-05	2.14546E-05	2.14546E-05	4.29091E-05	4.29091E-05	0	0	5.17987E-10	5.42574E-09	5.94373E-09	0.0059437
6043514130642	604351	4130642	3.70573E-05	1.85286E-05	1.85286E-05	3.70573E-05	3.70573E-05	0	0	4.47345E-10	4.68579E-09	5.13314E-09	0.0051331
6044014130642	604401	4130642	3.19492E-05	1.59746E-05	1.59746E-05	3.19492E-05	3.19492E-05	0	0	3.85682E-10	4.03989E-09	4.42557E-09	0.0044256
6044514130642	604451	4130642	2.75386E-05	1.37693E-05	1.37693E-05	2.75386E-05	2.75386E-05	0	0	3.32438E-10	3.48218E-09	3.81462E-09	0.0038146
6040014130692	604001	4130692	0.000105555	5.27777E-05	5.27777E-05	0.000105555	0.000105555	0	0	1.27424E-09	1.33472E-08	1.46214E-08	0.0146214
6040514130692	604051	4130692	9.25396E-05	4.62698E-05	4.62698E-05	9.25396E-05	9.25396E-05	0	0	1.11711E-09	1.17014E-08	1.28185E-08	0.0128185
6041014130692	604101	4130692	8.03545E-05	4.01772E-05	4.01772E-05	8.03545E-05	8.03545E-05	0	0	9.70017E-10	1.01606E-08	1.11306E-08	0.0111306
6041514130692	604151	4130692	6.8991E-05	3.44955E-05	3.44955E-05	6.8991E-05	6.8991E-05	0	0	8.32841E-10	8.72373E-09	9.55658E-09	0.0095566
6042014130692	604201	4130692	5.88301E-05	2.94151E-05	2.94151E-05	5.88301E-05	5.88301E-05	0	0	7.10181E-10	7.43891E-09	8.14909E-09	0.0081491
6042514130692	604251	4130692	4.98538E-05	2.49269E-05	2.49269E-05	4.98538E-05	4.98538E-05	0	0	6.01822E-10	6.30389E-09	6.90571E-09	0.0069057
6043014130692	604301	4130692	4.21166E-05	2.10583E-05	2.10583E-05	4.21166E-05	4.21166E-05	0	0	5.0842E-10	5.32554E-09	5.83396E-09	0.005834
6043514130692	604351	4130692	3.56103E-05	1.78052E-05	1.78052E-05	3.56103E-05	3.56103E-05	0	0	4.29878E-10	4.50283E-09	4.93271E-09	0.0049327
6044014130692	604401	4130692	3.01166E-05	1.50583E-05	1.50583E-05	3.01166E-05	3.01166E-05	0	0	3.63559E-10	3.80816E-09	4.17172E-09	0.0041717
6044514130692	604451	4130692	2.55972E-05	1.27986E-05	1.27986E-05	2.55972E-05	2.55972E-05	0	0	3.09002E-10	3.2367E-09	3.5457E-09	0.0035457
6039514130742	603951	4130742	0.00014181	7.09048E-05	7.09048E-05	0.00014181	0.00014181	0	0	1.71189E-09	1.79315E-08	1.96433E-08	0.0196433
6040014130742	604001	4130742	0.000120828	6.04138E-05	6.04138E-05	0.000120828	0.000120828	0	0	1.4586E-09	1.52783E-08	1.67369E-08	0.0167369
6040514130742	604051	4130742	0.000102058	5.10288E-05	5.10288E-05	0.000102058	0.000102058	0	0	1.23201E-09	1.29049E-08	1.41369E-08	0.0141369
6041014130742	604101	4130742	8.52953E-05	4.26476E-05	4.26476E-05	8.52953E-05	8.52953E-05	0	0	1.02966E-09	1.07854E-08	1.1815E-08	0.011815
6041514130742	604151	4130742	7.06142E-05	3.53071E-05	3.53071E-05	7.06142E-05	7.06142E-05	0	0	8.52434E-10	8.92897E-09	9.78141E-09	0.0097814
6042014130742	604201	4130742	5.82544E-05	2.91272E-05	2.91272E-05	5.82544E-05	5.82544E-05	0	0	7.03231E-10	7.36612E-09	8.06935E-09	0.0080693
6042514130742	604251	4130742	4.79636E-05	2.39818E-05	2.39818E-05	4.79636E-05	4.79636E-05	0	0	5.79003E-10	6.06487E-09	6.64387E-09	0.0066439
6043014130742	604301	4130742	3.95654E-05	1.97827E-05	1.97827E-05	3.95654E-05	3.95654E-05	0	0	4.77623E-10	5.00294E-09	5.48057E-09	0.0054806
6043514130742	604351	4130742	3.28009E-05	1.64005E-05	1.64005E-05	3.28009E-05	3.28009E-05	0	0	3.95964E-10	4.14759E-09	4.54356E-09	0.0045436
6044014130742	604401	4130742	2.74184E-05	1.37092E-05	1.37092E-05	2.74184E-05	2.74184E-05	0	0	3.30988E-10	3.46699E-09	3.79798E-09	0.003798
6044514130742	604451	4130742	2.30566E-05	1.15283E-05	1.15283E-05	2.30566E-05	2.30566E-05	0	0	2.78332E-10	2.91544E-09	3.19377E-09	0.0031938
6039014130792	603901	4130792	0.000198309	9.91547E-05	9.91547E-05	0.000198309	0.000198309	0	0	2.39394E-09	2.50757E-08	2.74696E-08	0.0274696
6039514130792	603951	4130792	0.000163456	8.17279E-05	8.17279E-05	0.000163456	0.000163456	0	0	1.97319E-09	2.06686E-08	2.26418E-08	0.0226418
6040014130792	604001	4130792	0.000133369	6.66847E-05	6.66847E-05	0.000133369	0.000133369	0	0	1.61E-09	1.68642E-08	1.84742E-08	0.0184742
6040514130792	604051	4130792	0.00010748	5.37399E-05	5.37399E-05	0.00010748	0.00010748	0	0	1.29747E-09	1.35905E-08	1.4888E-08	0.014888
6041014130792	604101	4130792	8.59189E-05	4.29594E-05	4.29594E-05	8.59189E-05	8.59189E-05	0	0	1.03719E-09	1.08642E-08	1.19014E-08	0.0119014
6042014130792	604201	4130792	5.4642E-05	2.7321E-05	2.7321E-05	5.4642E-05	5.4642E-05	0	0	6.59623E-10	6.90934E-09	7.56896E-09	0.007569
6042514130792	604251	4130792	4.38437E-05	2.19218E-05	2.19218E-05	4.38437E-05	4.38437E-05	0	0	5.29269E-10	5.54392E-09	6.07319E-09	0.0060732
6043014130792	604301	4130792	3.55064E-05	1.77532E-05	1.77532E-05	3.55064E-05	3.55064E-05	0	0	4.28624E-10	4.48969E-09	4.91832E-09	0.0049183
6043514130792	604351	4130792	2.90821E-05	1.45411E-05	1.45411E-05	2.90821E-05	2.90821E-05	0	0	3.51072E-10	3.67736E-09	4.02843E-09	0.0040284
6044014130792	604401	4130792	2.4117E-05	1.20585E-05	1.20585E-05	2.4117E-05	2.4117E-05	0	0	2.91133E-10	3.04953E-09	3.34066E-09	0.0033407
6044514130792	604451	4130792	2.02472E-05	1.01236E-05	1.01236E-05	2.02472E-05	2.02472E-05	0	0	2.44418E-10	2.5602E-09	2.80462E-09	0.0028046
6039014130842	603901	4130842	0.000233101	0.000116551	0.000233101	0.000233101	0.000233101	0	0	2.81393E-09	2.9475E-08	3.2289E-08	0.032289
6039514130842	603951	4130842	0.000181665	9.08325E-05	9.08325E-05	0.000181665	0.000181665	0	0	2.19301E-09	2.29711E-08	2.51641E-08	0.0251641
6040014130842	604001	4130842	0.000139648	6.98241E-05	6.98241E-05	0.000139648	0.000139648	0	0	1.68579E-09	1.76582E-08	1.93439E-08	0.0193439
6040514130842	604051	4130842	0.000106391	5.31955E-05	5.31955E-05	0.000106391	0.000106391	0	0	1.28432E-09	1.34529E-08	1.47372E-08	0.0147372
6043014130842	604301	4130842	3.05818E-05	1.52909E-05	1.52909E-05	3.05818E-05	3.05818E-05	0	0	3.69176E-10	3.86699E-09	4.23617E-09	0.0042362
6043514130842	604351	4130842	2.49931E-05	1.24965E-05	1.24965E-05	2.49931E-05	2.49931E-05	0	0	3.0171E-10	3.16031E-09	3.46202E-09	0.003462
6044014130842	604401	4130842	2.07449E-05	1.03724E-05	1.03724E-05	2.07449E-05	2.07449E-05	0	0	2.50427E-10	2.62314E-09	2.87356E-09	0.0028736
6044514130842	604451	4130842	1.75173E-05	8.75867E-06	8.75867E-06	1.75173E-05	1.75173E-05	0	0	2.11464E-10	2.21502E-09	2.42648E-09	0.0024265
6039514130892	603951	4130892	0.000190007	9.50036E-05	9.50036E-05	0.000190007	0.000190007	0	0	2.29371E-09	2.40259E-08	2.63196E-08	0.0263196
6043514130892	604351	4130892	2.11168E-05	1.05584E-05	1.05584E-05	2.11168E-05	2.11168E-05	0	0	2.54916E-10	2.67016E-09	2.92508E-09	0.0029251
6044014130892	604401	4130892	1.77398E-05	8.86991E-06	8.86991E-06	1.77398E-05	1.77398E-05	0	0	2.1415E-10	2.24315E-09	2.4573E-09	0.0024573
6044514130892	604451	4130892	1.51545E-05	7.57726E-06	7.57726E-06	1.51545E-05	1.51545E-05	0	0	1.82941E-10	1.91625E-09	2.09919E-09	0.0020992
6043014130942	604301	4130942	2.14058E-05	1.07029E-05	1.07029E-05	2.14058E-05	2.14058E-05	0	0	2.58405E-10	2.70671E-09	2.96512E-09	0.0029651
6043514130942	604351	4130942	1.79493E-05	8.97465E-06	8.97465E-06	1.79493E-05	1.79493E-05	0	0	2.16679E-10	2.26964E-09	2.48632E-09	0.0024863

6044014130942	604401	4130942	1.53234E-05	7.6617E-06	7.6617E-06	1.53234E-05	1.53234E-05	0	0	1.8498E-10	1.9376E-09	2.12258E-09	0.0021226
6044514130942	604451	4130942	1.32797E-05	6.63984E-06	6.63984E-06	1.32797E-05	1.32797E-05	0	0	1.60309E-10	1.67918E-09	1.83949E-09	0.0018395
6042514130992	604251	4130992	2.1686E-05	1.0843E-05	1.0843E-05	2.1686E-05	2.1686E-05	0	0	2.61787E-10	2.74213E-09	3.00392E-09	0.0030039
6043014130992	604301	4130992	1.82246E-05	9.11228E-06	9.11228E-06	1.82246E-05	1.82246E-05	0	0	2.20002E-10	2.30445E-09	2.52445E-09	0.0025244
6043514130992	604351	4130992	1.55914E-05	7.79568E-06	7.79568E-06	1.55914E-05	1.55914E-05	0	0	1.88214E-10	1.97149E-09	2.1597E-09	0.0021597
6044014130992	604401	4130992	1.35257E-05	6.76286E-06	6.76286E-06	1.35257E-05	1.35257E-05	0	0	1.63279E-10	1.71029E-09	1.87357E-09	0.0018736
6044514130992	604451	4130992	1.1879E-05	5.93952E-06	5.93952E-06	1.1879E-05	1.1879E-05	0	0	1.43401E-10	1.50207E-09	1.64547E-09	0.0016455
6034514131042	603451	4131042	0.000242587	0.000121293	0.000121293	0.000242587	0.000242587	0	0	2.92844E-09	3.06745E-08	3.36029E-08	0.0336029
6035014131042	603501	4131042	0.000317031	0.000158515	0.000158515	0.000317031	0.000317031	0	0	3.82711E-09	4.00877E-08	4.39148E-08	0.0439148
6035514131042	603551	4131042	0.000420055	0.000210027	0.000210027	0.000420055	0.000420055	0	0	5.07078E-09	5.31148E-08	5.81856E-08	0.0581856
6036014131042	603601	4131042	0.000579944	0.000289972	0.000289972	0.000579944	0.000579944	0	0	7.00093E-09	7.33324E-08	8.03334E-08	0.0803334
6042514131042	604251	4131042	1.87288E-05	9.36439E-06	9.36439E-06	1.87288E-05	1.87288E-05	0	0	2.26089E-10	2.36821E-09	2.59429E-09	0.0025943
6043014131042	604301	4131042	1.60233E-05	8.01166E-06	8.01166E-06	1.60233E-05	1.60233E-05	0	0	1.93429E-10	2.02611E-09	2.21954E-09	0.0022195
6043514131042	604351	4131042	1.39146E-05	6.95732E-06	6.95732E-06	1.39146E-05	1.39146E-05	0	0	1.67974E-10	1.75947E-09	1.92744E-09	0.0019274
6044014131042	604401	4131042	1.22217E-05	6.11085E-06	6.11085E-06	1.22217E-05	1.22217E-05	0	0	1.47537E-10	1.5454E-09	1.69294E-09	0.0016929
6044514131042	604451	4131042	1.08511E-05	5.42555E-06	5.42555E-06	1.08511E-05	1.08511E-05	0	0	1.30991E-10	1.37209E-09	1.50308E-09	0.0015031
6034514131092	603451	4131092	0.000202231	0.000101116	0.000101116	0.000202231	0.000202231	0	0	2.44128E-09	2.55716E-08	2.80129E-08	0.0280129
6035014131092	603501	4131092	0.000249831	0.000124916	0.000124916	0.000249831	0.000249831	0	0	3.01589E-09	3.15905E-08	3.46064E-08	0.0346064
6035514131092	603551	4131092	0.000310438	0.000155219	0.000155219	0.000310438	0.000310438	0	0	3.74752E-09	3.9254E-08	4.30016E-08	0.0430016
6036014131092	603601	4131092	0.000390757	0.000195379	0.000195379	0.000390757	0.000390757	0	0	4.71711E-09	4.94102E-08	5.41273E-08	0.0541273
6036514131092	603651	4131092	0.000502883	0.000251442	0.000251442	0.000502883	0.000502883	0	0	6.07067E-09	6.35883E-08	6.96589E-08	0.0696589
6042514131092	604251	4131092	1.67175E-05	8.35877E-06	8.35877E-06	1.67175E-05	1.67175E-05	0	0	2.0181E-10	2.11389E-09	2.3157E-09	0.0023157
6043014131092	604301	4131092	1.44968E-05	7.24841E-06	7.24841E-06	1.44968E-05	1.44968E-05	0	0	1.75002E-10	1.83308E-09	2.00809E-09	0.0020081
6043514131092	604351	4131092	1.2717E-05	6.3585E-06	6.3585E-06	1.2717E-05	1.2717E-05	0	0	1.53516E-10	1.60803E-09	1.76155E-09	0.0017615
6044014131092	604401	4131092	1.12758E-05	5.63788E-06	5.63788E-06	1.12758E-05	1.12758E-05	0	0	1.36118E-10	1.42579E-09	1.56191E-09	0.0015619
6044514131092	604451	4131092	1.00838E-05	5.0419E-06	5.0419E-06	1.00838E-05	1.00838E-05	0	0	1.21729E-10	1.27507E-09	1.3968E-09	0.0013968
6034514131142	603451	4131142	0.000167443	8.37213E-05	8.37213E-05	0.000167443	0.000167443	0	0	2.02132E-09	2.11772E-08	2.3194E-08	0.023194
6035014131142	603501	4131142	0.000196463	9.82315E-05	9.82315E-05	0.000196463	0.000196463	0	0	2.37165E-09	2.48422E-08	2.72139E-08	0.0272139
6035514131142	603551	4131142	0.000228172	0.000114086	0.000114086	0.000228172	0.000228172	0	0	2.75443E-09	2.88517E-08	3.16062E-08	0.0316062
6036014131142	603601	4131142	0.000259843	0.000129922	0.000129922	0.000259843	0.000259843	0	0	3.13676E-09	3.28565E-08	3.59933E-08	0.0359933
6036514131142	603651	4131142	0.000281914	0.000140957	0.000140957	0.000281914	0.000281914	0	0	3.40319E-09	3.56473E-08	3.90505E-08	0.0390505
6037014131142	603701	4131142	0.000271505	0.000135752	0.000135752	0.000271505	0.000271505	0	0	3.27753E-09	3.43311E-08	3.76086E-08	0.0376086
6037514131142	603751	4131142	0.000206532	0.000103266	0.000103266	0.000206532	0.000206532	0	0	2.4932E-09	2.61155E-08	2.86087E-08	0.0286087
6043014131142	604301	4131142	1.33536E-05	6.67679E-06	6.67679E-06	1.33536E-05	1.33536E-05	0	0	1.61201E-10	1.68852E-09	1.84973E-09	0.0018497
6043514131142	604351	4131142	1.18027E-05	5.90136E-06	5.90136E-06	1.18027E-05	1.18027E-05	0	0	1.42479E-10	1.49242E-09	1.6349E-09	0.0016349
6044014131142	604401	4131142	1.05377E-05	5.26884E-06	5.26884E-06	1.05377E-05	1.05377E-05	0	0	1.27208E-10	1.33246E-09	1.45967E-09	0.0014597
6044514131142	604451	4131142	9.47482E-06	4.73741E-06	4.73741E-06	9.47482E-06	9.47482E-06	0	0	1.14377E-10	1.19807E-09	1.31244E-09	0.0013124
6034514131192	603451	4131192	0.000135709	6.78543E-05	6.78543E-05	0.000135709	0.000135709	0	0	1.63824E-09	1.716E-08	1.87982E-08	0.0187982
6035014131192	603501	4131192	0.000150402	7.52009E-05	7.52009E-05	0.000150402	0.000150402	0	0	1.81561E-09	1.90179E-08	2.08335E-08	0.0208335
6035514131192	603551	4131192	0.000162473	8.12363E-05	8.12363E-05	0.000162473	0.000162473	0	0	1.96132E-09	2.05442E-08	2.25056E-08	0.0225056
6036014131192	603601	4131192	0.000167442	8.37209E-05	8.37209E-05	0.000167442	0.000167442	0	0	2.02131E-09	2.11726E-08	2.31939E-08	0.0231939
6036514131192	603651	4131192	0.000160508	8.02538E-05	8.02538E-05	0.000160508	0.000160508	0	0	1.9376E-09	2.02958E-08	2.22334E-08	0.0222334
6037014131192	603701	4131192	0.000139389	6.96946E-05	6.96946E-05	0.000139389	0.000139389	0	0	1.68267E-09	1.76254E-08	1.93081E-08	0.0193081
6037514131192	603751	4131192	0.000109608	5.4804E-05	5.4804E-05	0.000109608	0.000109608	0	0	1.32316E-09	1.38596E-08	1.51828E-08	0.0151828
6038014131192	603801	4131192	8.16179E-05	4.0809E-05	4.0809E-05	8.16179E-05	8.16179E-05	0	0	9.85269E-10	1.03204E-08	1.13056E-08	0.0113056
6043514131192	604351	4131192	1.10476E-05	5.5238E-06	5.5238E-06	1.10476E-05	1.10476E-05	0	0	1.33363E-10	1.39694E-09	1.5303E-09	0.0015303
6044014131192	604401	4131192	9.91409E-06	4.95705E-06	4.95705E-06	9.91409E-06	9.91409E-06	0	0	1.1968E-10	1.25361E-09	1.37329E-09	0.0013733
6044514131192	604451	4131192	8.96166E-06	4.48083E-06	4.48083E-06	8.96166E-06	8.96166E-06	0	0	1.08183E-10	1.13318E-09	1.24136E-09	0.0012414
6034514131242	603451	4131242	0.000107191	5.35954E-05	5.35954E-05	0.000107191	0.000107191	0	0	1.29398E-09	1.3554E-08	1.4848E-08	0.014848
6035014131242	603501	4131242	0.000112608	5.63041E-05	5.63041E-05	0.000112608	0.000112608	0	0	1.35937E-09	1.4239E-08	1.55984E-08	0.0155984
6035514131242	603551	4131242	0.000114126	5.70629E-05	5.70629E-05	0.000114126	0.000114126	0	0	1.37769E-09	1.44309E-08	1.58086E-08	0.0158086

6036014131242	603601	4131242	0.000110098	5.50492E-05	5.50492E-05	0.000110098	0.000110098	0	0	1.32908E-09	1.39217E-08	1.52507E-08	0.0152507
6036514131242	603651	4131242	0.0001003	5.01502E-05	5.01502E-05	0.0001003	0.0001003	0	0	1.2108E-09	1.26827E-08	1.38935E-08	0.0138935
6037014131242	603701	4131242	8.63955E-05	4.31978E-05	4.31978E-05	8.63955E-05	8.63955E-05	0	0	1.04294E-09	1.09245E-08	1.19674E-08	0.0119674
6037514131242	603751	4131242	7.07205E-05	3.53603E-05	3.53603E-05	7.07205E-05	7.07205E-05	0	0	8.53718E-10	8.94242E-09	9.79614E-09	0.0097961
6038014131242	603801	4131242	5.64665E-05	2.82332E-05	2.82332E-05	5.64665E-05	5.64665E-05	0	0	6.81648E-10	7.14004E-09	7.82169E-09	0.0078217
6043014131242	604301	4131242	1.15494E-05	5.77469E-06	5.77469E-06	1.15494E-05	1.15494E-05	0	0	1.39421E-10	1.46039E-09	1.59981E-09	0.0015998
6043514131242	604351	4131242	1.03639E-05	5.18196E-06	5.18196E-06	1.03639E-05	1.03639E-05	0	0	1.2511E-10	1.31049E-09	1.4356E-09	0.0014356
6044014131242	604401	4131242	9.35546E-06	4.67773E-06	4.67773E-06	9.35546E-06	9.35546E-06	0	0	1.12937E-10	1.18297E-09	1.29591E-09	0.0012959
6044514131242	604451	4131242	8.50371E-06	4.25185E-06	4.25185E-06	8.50371E-06	8.50371E-06	0	0	1.02654E-10	1.07527E-09	1.17793E-09	0.0011779
6034514131292	603451	4131292	8.34838E-05	4.17419E-05	4.17419E-05	8.34838E-05	8.34838E-05	0	0	1.00779E-09	1.05563E-08	1.15641E-08	0.0115641
6035014131292	603501	4131292	8.39523E-05	4.19762E-05	4.19762E-05	8.39523E-05	8.39523E-05	0	0	1.01345E-09	1.06155E-08	1.16297E-08	0.0116297
6035514131292	603551	4131292	8.15554E-05	4.07777E-05	4.07777E-05	8.15554E-05	8.15554E-05	0	0	9.84514E-10	1.03125E-08	1.1297E-08	0.011297
6036014131292	603601	4131292	7.63003E-05	3.81502E-05	3.81502E-05	7.63003E-05	7.63003E-05	0	0	9.21076E-10	9.64798E-09	1.05691E-08	0.0105691
6036514131292	603651	4131292	6.87353E-05	3.43676E-05	3.43676E-05	6.87353E-05	6.87353E-05	0	0	8.29753E-10	8.69139E-09	9.52115E-09	0.0095211
6037014131292	603701	4131292	5.97785E-05	2.98892E-05	2.98892E-05	5.97785E-05	5.97785E-05	0	0	7.21629E-10	7.55883E-09	8.28046E-09	0.0082805
6037514131292	603751	4131292	5.04084E-05	2.52042E-05	2.52042E-05	5.04084E-05	5.04084E-05	0	0	6.08516E-10	6.37401E-09	6.98253E-09	0.0069825
6043014131292	604301	4131292	1.07317E-05	5.36587E-06	5.36587E-06	1.07317E-05	1.07317E-05	0	0	1.29551E-10	1.357E-09	1.48655E-09	0.0014866
6043514131292	604351	4131292	9.70948E-06	4.85474E-06	4.85474E-06	9.70948E-06	9.70948E-06	0	0	1.1721E-10	1.22774E-09	1.34495E-09	0.0013449
6044014131292	604401	4131292	8.83174E-06	4.41587E-06	4.41587E-06	8.83174E-06	8.83174E-06	0	0	1.06614E-10	1.11675E-09	1.22336E-09	0.0012234
6044514131292	604451	4131292	8.06606E-06	4.03303E-06	4.03303E-06	8.06606E-06	8.06606E-06	0	0	9.73712E-11	1.01993E-09	1.1173E-09	0.0011173
6034514131342	603451	4131342	6.50311E-05	3.25155E-05	3.25155E-05	6.50311E-05	6.50311E-05	0	0	7.85037E-10	8.22301E-09	9.00805E-09	0.009008
6035014131342	603501	4131342	6.34672E-05	3.17336E-05	3.17336E-05	6.34672E-05	6.34672E-05	0	0	7.66159E-10	8.02527E-09	8.79142E-09	0.0087914
6035514131342	603551	4131342	6.03306E-05	3.01653E-05	3.01653E-05	6.03306E-05	6.03306E-05	0	0	7.28294E-10	7.62863E-09	8.35694E-09	0.0083569
6036014131342	603601	4131342	5.5838E-05	2.7919E-05	2.7919E-05	5.5838E-05	5.5838E-05	0	0	6.74061E-10	7.06057E-09	7.73463E-09	0.0077346
6036514131342	603651	4131342	5.03638E-05	2.51819E-05	2.51819E-05	5.03638E-05	5.03638E-05	0	0	6.07977E-10	6.36836E-09	6.97634E-09	0.0069763
6037014131342	603701	4131342	4.43195E-05	2.21597E-05	2.21597E-05	4.43195E-05	4.43195E-05	0	0	5.35012E-10	5.60408E-09	6.13909E-09	0.0061391
6037514131342	603751	4131342	3.81973E-05	1.90986E-05	1.90986E-05	3.81973E-05	3.81973E-05	0	0	4.61107E-10	4.82994E-09	5.29105E-09	0.0052911
6042514131342	604251	4131342	1.09209E-05	5.46046E-06	5.46046E-06	1.09209E-05	1.09209E-05	0	0	1.31834E-10	1.38092E-09	1.51276E-09	0.0015128
6043014131342	604301	4131342	9.93602E-06	4.96801E-06	4.96801E-06	9.93602E-06	9.93602E-06	0	0	1.19945E-10	1.25638E-09	1.37633E-09	0.0013763
6043514131342	604351	4131342	9.07208E-06	4.53604E-06	4.53604E-06	9.07208E-06	9.07208E-06	0	0	1.09516E-10	1.14714E-09	1.25666E-09	0.0012567
6044014131342	604401	4131342	8.31046E-06	4.15523E-06	4.15523E-06	8.31046E-06	8.31046E-06	0	0	1.00322E-10	1.05084E-09	1.15116E-09	0.0011512
6044514131342	604451	4131342	7.63897E-06	3.81948E-06	3.81948E-06	7.63897E-06	7.63897E-06	0	0	9.22155E-11	9.65927E-10	1.05814E-09	0.0010581
6034514131392	603451	4131392	5.11684E-05	2.55842E-05	2.55842E-05	5.11684E-05	5.11684E-05	0	0	6.17691E-10	6.47011E-09	7.0878E-09	0.0070878
6035014131392	603501	4131392	4.91466E-05	2.45733E-05	2.45733E-05	4.91466E-05	4.91466E-05	0	0	5.93284E-10	6.21446E-09	6.80774E-09	0.0068077
6035514131392	603551	4131392	4.62674E-05	2.31337E-05	2.31337E-05	4.62674E-05	4.62674E-05	0	0	5.58527E-10	5.85039E-09	6.40892E-09	0.0064089
6036014131392	603601	4131392	4.2754E-05	2.1377E-05	2.1377E-05	4.2754E-05	4.2754E-05	0	0	5.16115E-10	5.40613E-09	5.92225E-09	0.0059222
6036514131392	603651	4131392	3.8751E-05	1.93755E-05	1.93755E-05	3.8751E-05	3.8751E-05	0	0	4.67792E-10	4.89997E-09	5.36776E-09	0.0053678
6037014131392	603701	4131392	3.44549E-05	1.72275E-05	1.72275E-05	3.44549E-05	3.44549E-05	0	0	4.1593E-10	4.35673E-09	4.77266E-09	0.0047727
6037514131392	603751	4131392	3.02051E-05	1.51025E-05	1.51025E-05	3.02051E-05	3.02051E-05	0	0	3.64627E-10	3.81935E-09	4.18398E-09	0.004184
6039514131392	603951	4131392	1.82773E-05	9.13867E-06	9.13867E-06	1.82773E-05	1.82773E-05	0	0	2.20639E-10	2.31112E-09	2.53176E-09	0.0025318
6040014131392	604001	4131392	1.63148E-05	8.15741E-06	8.15741E-06	1.63148E-05	1.63148E-05	0	0	1.96948E-10	2.06296E-09	2.25991E-09	0.0022599
6040514131392	604051	4131392	1.4617E-05	7.3085E-06	7.3085E-06	1.4617E-05	1.4617E-05	0	0	1.76452E-10	1.84828E-09	2.02473E-09	0.0020247
6042014131392	604201	4131392	1.09055E-05	5.45275E-06	5.45275E-06	1.09055E-05	1.09055E-05	0	0	1.31648E-10	1.37897E-09	1.51062E-09	0.0015106
6042514131392	604251	4131392	9.98636E-06	4.99318E-06	4.99318E-06	9.98636E-06	9.98636E-06	0	0	1.20553E-10	1.26275E-09	1.3833E-09	0.0013833
6043014131392	604301	4131392	9.17277E-06	4.58638E-06	4.58638E-06	9.17277E-06	9.17277E-06	0	0	1.10731E-10	1.15987E-09	1.2706E-09	0.0012706
6043514131392	604351	4131392	8.44768E-06	4.22384E-06	4.22384E-06	8.44768E-06	8.44768E-06	0	0	1.01978E-10	1.06819E-09	1.17017E-09	0.0011702
6044014131392	604401	4131392	7.79649E-06	3.89824E-06	3.89824E-06	7.79649E-06	7.79649E-06	0	0	9.4117E-11	9.85845E-10	1.07996E-09	0.00108
6044514131392	604451	4131392	7.21187E-06	3.60594E-06	3.60594E-06	7.21187E-06	7.21187E-06	0	0	8.70597E-11	9.11922E-10	9.98982E-10	0.000999
6034514131442	603451	4131442	4.09661E-05	2.0483E-05	2.0483E-05	4.09661E-05	4.09661E-05	0	0	4.94531E-10	5.18005E-09	5.67458E-09	0.0056746
6035014131442	603501	4131442	3.90287E-05	1.95144E-05	1.95144E-05	3.90287E-05	3.90287E-05	0	0	4.71144E-10	4.93508E-09	5.40622E-09	0.0054062
6035514131442	603551	4131442	3.66367E-05	1.83183E-05	1.83183E-05	3.66367E-05	3.66367E-05	0	0	4.42268E-10	4.63261E-09	5.07488E-09	0.0050749

6036014131442	603601	4131442	3.38995E-05	1.69498E-05	1.69498E-05	3.38995E-05	3.38995E-05	0	0	4.09226E-10	4.28651E-09	4.69573E-09	0.0046957
6036514131442	603651	4131442	3.08912E-05	1.54456E-05	1.54456E-05	3.08912E-05	3.08912E-05	0	0	3.7291E-10	3.90611E-09	4.27902E-09	0.004279
6037014131442	603701	4131442	2.774E-05	1.387E-05	1.387E-05	2.774E-05	2.774E-05	0	0	3.34869E-10	3.50765E-09	3.84252E-09	0.0038425
6037514131442	603751	4131442	2.46496E-05	1.23248E-05	1.23248E-05	2.46496E-05	2.46496E-05	0	0	2.97563E-10	3.11688E-09	3.41444E-09	0.0034144
6038014131442	603801	4131442	2.18329E-05	1.09165E-05	1.09165E-05	2.18329E-05	2.18329E-05	0	0	2.63561E-10	2.76072E-09	3.02428E-09	0.0030243
6038514131442	603851	4131442	1.94482E-05	9.72409E-06	9.72409E-06	1.94482E-05	1.94482E-05	0	0	2.34773E-10	2.45917E-09	2.69394E-09	0.0026939
6039014131442	603901	4131442	1.74792E-05	8.73958E-06	8.73958E-06	1.74792E-05	1.74792E-05	0	0	2.11004E-10	2.21019E-09	2.4212E-09	0.0024212
6039514131442	603951	4131442	1.57976E-05	7.8988E-06	7.8988E-06	1.57976E-05	1.57976E-05	0	0	1.90704E-10	1.99756E-09	2.18827E-09	0.0021883
6040014131442	604001	4131442	1.42938E-05	7.14692E-06	7.14692E-06	1.42938E-05	1.42938E-05	0	0	1.72551E-10	1.80742E-09	1.97997E-09	0.00198
6040514131442	604051	4131442	1.29508E-05	6.47542E-06	6.47542E-06	1.29508E-05	1.29508E-05	0	0	1.56339E-10	1.6376E-09	1.79394E-09	0.0017939
6041014131442	604101	4131442	1.17759E-05	5.88796E-06	5.88796E-06	1.17759E-05	1.17759E-05	0	0	1.42156E-10	1.48904E-09	1.63119E-09	0.0016312
6042514131442	604251	4131442	9.13379E-06	4.5669E-06	4.5669E-06	9.13379E-06	9.13379E-06	0	0	1.10261E-10	1.15494E-09	1.2652E-09	0.0012652
6043014131442	604301	4131442	8.45662E-06	4.22831E-06	4.22831E-06	8.45662E-06	8.45662E-06	0	0	1.02086E-10	1.06932E-09	1.1714E-09	0.0011714
6043514131442	604351	4131442	7.84845E-06	3.92423E-06	3.92423E-06	7.84845E-06	7.84845E-06	0	0	9.47443E-11	9.92416E-10	1.08716E-09	0.0010872
6044014131442	604401	4131442	7.29632E-06	3.64816E-06	3.64816E-06	7.29632E-06	7.29632E-06	0	0	8.80791E-11	9.226E-10	1.01068E-09	0.0010107
6034514131492	603451	4131492	3.34262E-05	1.67131E-05	1.67131E-05	3.34262E-05	3.34262E-05	0	0	4.03511E-10	4.22665E-09	4.63016E-09	0.0046302
6035014131492	603501	4131492	3.17405E-05	1.58703E-05	1.58703E-05	3.17405E-05	3.17405E-05	0	0	3.83163E-10	4.01351E-09	4.39667E-09	0.0043967
6035514131492	603551	4131492	2.97983E-05	1.48992E-05	1.48992E-05	2.97983E-05	2.97983E-05	0	0	3.59717E-10	3.76792E-09	4.12763E-09	0.0041276
6036014131492	603601	4131492	2.76433E-05	1.38217E-05	1.38217E-05	2.76433E-05	2.76433E-05	0	0	3.33703E-10	3.49543E-09	3.82913E-09	0.0038291
6036514131492	603651	4131492	2.53284E-05	1.26642E-05	1.26642E-05	2.53284E-05	2.53284E-05	0	0	3.05758E-10	3.20271E-09	3.50847E-09	0.0035085
6037014131492	603701	4131492	2.29364E-05	1.14682E-05	1.14682E-05	2.29364E-05	2.29364E-05	0	0	2.76882E-10	2.90025E-09	3.17713E-09	0.0031771
6037514131492	603751	4131492	2.0606E-05	1.0303E-05	1.0303E-05	2.0606E-05	2.0606E-05	0	0	2.4875E-10	2.60558E-09	2.85433E-09	0.0028543
6038014131492	603801	4131492	1.84738E-05	9.23691E-06	9.23691E-06	1.84738E-05	1.84738E-05	0	0	2.23011E-10	2.33597E-09	2.55898E-09	0.002559
6038514131492	603851	4131492	1.66355E-05	8.31777E-06	8.31777E-06	1.66355E-05	1.66355E-05	0	0	2.0082E-10	2.10352E-09	2.30434E-09	0.0023043
6039014131492	603901	4131492	1.51099E-05	7.55493E-06	7.55493E-06	1.51099E-05	1.51099E-05	0	0	1.82402E-10	1.9106E-09	2.093E-09	0.002093
6039514131492	603951	4131492	1.38115E-05	6.90576E-06	6.90576E-06	1.38115E-05	1.38115E-05	0	0	1.66729E-10	1.74643E-09	1.91316E-09	0.0019132
6040014131492	604001	4131492	1.26439E-05	6.32196E-06	6.32196E-06	1.26439E-05	1.26439E-05	0	0	1.52634E-10	1.59879E-09	1.75142E-09	0.0017514
6040514131492	604051	4131492	1.15721E-05	5.78606E-06	5.78606E-06	1.15721E-05	1.15721E-05	0	0	1.39695E-10	1.46326E-09	1.60296E-09	0.001603
6041014131492	604101	4131492	1.06067E-05	5.30335E-06	5.30335E-06	1.06067E-05	1.06067E-05	0	0	1.28041E-10	1.34119E-09	1.46923E-09	0.0014692
6041514131492	604151	4131492	9.75576E-06	4.87788E-06	4.87788E-06	9.75576E-06	9.75576E-06	0	0	1.17769E-10	1.23359E-09	1.35136E-09	0.0013514
6043014131492	604301	4131492	7.80136E-06	3.90068E-06	3.90068E-06	7.80136E-06	7.80136E-06	0	0	9.41758E-11	9.86461E-10	1.08064E-09	0.0010806
6043514131492	604351	4131492	7.28739E-06	3.64369E-06	3.64369E-06	7.28739E-06	7.28739E-06	0	0	8.79713E-11	9.21471E-10	1.00944E-09	0.0010094
6034514131542	603451	4131542	2.77749E-05	1.38874E-05	1.38874E-05	2.77749E-05	2.77749E-05	0	0	3.35291E-10	3.51206E-09	3.84735E-09	0.0038474
6035014131542	603501	4131542	2.63539E-05	1.3177E-05	1.3177E-05	2.63539E-05	2.63539E-05	0	0	3.18137E-10	3.33239E-09	3.65052E-09	0.0036505
6035514131542	603551	4131542	2.47666E-05	1.23833E-05	1.23833E-05	2.47666E-05	2.47666E-05	0	0	2.98975E-10	3.13167E-09	3.43064E-09	0.0034306
6036014131542	603601	4131542	2.30484E-05	1.15242E-05	1.15242E-05	2.30484E-05	2.30484E-05	0	0	2.78234E-10	2.91441E-09	3.19265E-09	0.0031926
6036514131542	603651	4131542	2.1228E-05	1.0614E-05	1.0614E-05	2.1228E-05	2.1228E-05	0	0	2.56259E-10	2.68423E-09	2.94048E-09	0.0029405
6037014131542	603701	4131542	1.93678E-05	9.6839E-06	9.6839E-06	1.93678E-05	1.93678E-05	0	0	2.33803E-10	2.44901E-09	2.68281E-09	0.0026828
6037514131542	603751	4131542	1.75636E-05	8.78181E-06	8.78181E-06	1.75636E-05	1.75636E-05	0	0	2.12023E-10	2.22087E-09	2.42329E-09	0.0024329
6038014131542	603801	4131542	1.58991E-05	7.94954E-06	7.94954E-06	1.58991E-05	1.58991E-05	0	0	1.91929E-10	2.0104E-09	2.20233E-09	0.0022023
6038514131542	603851	4131542	1.44416E-05	7.2208E-06	7.2208E-06	1.44416E-05	1.44416E-05	0	0	1.74335E-10	1.8261E-09	2.00044E-09	0.0020004
6039014131542	603901	4131542	1.3222E-05	6.61102E-06	6.61102E-06	1.3222E-05	1.3222E-05	0	0	1.59613E-10	1.67189E-09	1.8315E-09	0.0018315
6039514131542	603951	4131542	1.21917E-05	6.09583E-06	6.09583E-06	1.21917E-05	1.21917E-05	0	0	1.47174E-10	1.5416E-09	1.68878E-09	0.0016888
6040014131542	604001	4131542	1.12733E-05	5.63666E-06	5.63666E-06	1.12733E-05	1.12733E-05	0	0	1.36088E-10	1.42548E-09	1.56157E-09	0.0015616
6040514131542	604051	4131542	1.04151E-05	5.20754E-06	5.20754E-06	1.04151E-05	1.04151E-05	0	0	1.25728E-10	1.31696E-09	1.44269E-09	0.0014427
6041014131542	604101	4131542	9.61854E-06	4.80927E-06	4.80927E-06	9.61854E-06	9.61854E-06	0	0	1.16112E-10	1.21624E-09	1.33235E-09	0.0013324
6041514131542	604151	4131542	8.89832E-06	4.44916E-06	4.44916E-06	8.89832E-06	8.89832E-06	0	0	1.07418E-10	1.12517E-09	1.23259E-09	0.0012326
603878.014130524.31	603878.01	4130524.3	4.84142E-05	2.42071E-05	2.42071E-05	4.84142E-05	4.84142E-05	0	0	5.84443E-10	6.12185E-09	6.70629E-09	0.0067063
603920.264130511.38	603920.26	4130511.4	4.68715E-05	2.34357E-05	2.34357E-05	4.68715E-05	4.68715E-05	0	0	5.6582E-10	5.92678E-09	6.4926E-09	0.0064926
6039894130534	603989	4130534	5.49246E-05	2.74623E-05	2.74623E-05	5.49246E-05	5.49246E-05	0	0	6.63034E-10	6.94507E-09	7.6081E-09	0.0076081
6038394130584	603839	4130584	6.99678E-05	3.49839E-05	3.49839E-05	6.99678E-05	6.99678E-05	0	0	8.44632E-10	8.84725E-09	9.69188E-09	0.0096919



6038894130584	603889	4130584	7.2355E-05	3.61775E-05	3.61775E-05	7.2355E-05	7.2355E-05	0	0	8.73449E-10	9.1491E-09	1.00225E-08	0.0100225
603929.954130570.43	603929.95	4130570.4	6.69895E-05	3.34948E-05	3.34948E-05	6.69895E-05	6.69895E-05	0	0	8.08679E-10	8.47065E-09	9.27933E-09	0.0092793
6037894130634	603789	4130634	9.93756E-05	4.96878E-05	4.96878E-05	9.93756E-05	9.93756E-05	0	0	1.19963E-09	1.25658E-08	1.37654E-08	0.0137654
6038394130634	603839	4130634	0.000101042	5.05209E-05	5.05209E-05	0.000101042	0.000101042	0	0	1.21975E-09	1.27765E-08	1.39962E-08	0.0139962
6038894130634	603889	4130634	9.88145E-05	4.94073E-05	4.94073E-05	9.88145E-05	9.88145E-05	0	0	1.19286E-09	1.24948E-08	1.36877E-08	0.0136877
6039394130634	603939	4130634	9.39557E-05	4.69779E-05	4.69779E-05	9.39557E-05	9.39557E-05	0	0	1.13421E-09	1.18805E-08	1.30147E-08	0.0130147
6039894130634	603989	4130634	8.76719E-05	4.3836E-05	4.3836E-05	8.76719E-05	8.76719E-05	0	0	1.05835E-09	1.10859E-08	1.21442E-08	0.0121442
6038394130684	603839	4130684	0.000141381	7.06905E-05	7.06905E-05	0.000141381	0.000141381	0	0	1.70671E-09	1.78773E-08	1.9584E-08	0.019584
6038894130684	603889	4130684	0.000130298	6.51492E-05	6.51492E-05	0.000130298	0.000130298	0	0	1.57293E-09	1.64759E-08	1.80488E-08	0.0180488
6039394130684	603939	4130684	0.000118167	5.90834E-05	5.90834E-05	0.000118167	0.000118167	0	0	1.42648E-09	1.49419E-08	1.63684E-08	0.0163684
6039894130684	603989	4130684	0.000105869	5.29344E-05	5.29344E-05	0.000105869	0.000105869	0	0	1.27802E-09	1.33868E-08	1.46649E-08	0.0146649
6037394130734	603739	4130734	0.000241676	0.000120838	0.000120838	0.000241676	0.000241676	0	0	2.91745E-09	3.05594E-08	3.34768E-08	0.0334768
6038894130734	603889	4130734	0.000164924	8.24619E-05	8.24619E-05	0.000164924	0.000164924	0	0	1.99092E-09	2.08542E-08	2.28451E-08	0.0228451
6039394130734	603939	4130734	0.000143089	7.15443E-05	7.15443E-05	0.000143089	0.000143089	0	0	1.72732E-09	1.80932E-08	1.98205E-08	0.0198205
6039894130734	603989	4130734	0.000123044	6.15218E-05	6.15218E-05	0.000123044	0.000123044	0	0	1.48535E-09	1.55585E-08	1.70439E-08	0.0170439

# 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Notes Unmitigated

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)	
Demolition	3.1. Demolition (2024)	2024	1.060	10	0.013355706
Site Preparation	3.3. Site Preparation (2024)	2024	1.600	10	0.020159556
Grading	3.5. Grading (2024) - Ur	2024	0.840	10	0.010583767
Building Construction	3.7. Building Constructi	2024	0.500	10	0.006299861
Building Construction	3.9. Building Constructi	2025	0.430	10	0.005417881
Paving	3.11. Paving (2025) - Ur	2025	0.290	10	0.003653919
Architectural Coating	3.13. Architectural Coat	2025	0.030	10	0.000377992
0	0	1900	0.000	10	0
0	0	1900	0.000	10	0

Max Offroad Risk
5.2

AERMOD Column Identifier: 4 4 4 4 4 5 4

Unique Identifier	X (UTM)	Y (UTM)	Demolition	Site Preparation	Grading	Building Construction	Building Construction	Paving	Architectural Coating	Child Risk			
			2024	2024	2024	2024	2025	2025	2025	2025	3rd Trimester	0<2	Total
6039014130542	603901	4130542	0.001256772	0.001897014	0.000995932	0.000592817	0.000509823	0.000332616	3.5569E-05	1.31853E-08	7.41513E-08	8.73366E-08	0.087337
6039514130542	603951	4130542	0.001500246	0.002264523	0.001188875	0.000707663	0.000608591	0.00039561	4.24598E-05	1.57397E-08	8.84998E-08	1.04239E-07	0.104239
6040014130542	604001	4130542	0.001878881	0.002836046	0.001488924	0.000886264	0.000762187	0.000492987	5.31759E-05	1.97121E-08	1.10807E-07	1.30519E-07	0.130519
6040514130542	604051	4130542	0.002413376	0.003642832	0.001912487	0.001138385	0.000979011	0.000630155	6.83031E-05	2.53197E-08	1.42292E-07	1.67612E-07	0.167612
6041014130542	604101	4130542	0.00308637	0.004658672	0.002445803	0.001455835	0.001252018	0.000802693	8.73501E-05	3.23803E-08	1.81935E-07	2.14315E-07	0.214315
6041514130542	604151	4130542	0.003875024	0.005849093	0.003070774	0.001827842	0.001571944	0.001004499	0.000109671	4.06544E-08	2.28386E-07	2.6904E-07	0.26904
6042014130542	604201	4130542	0.004765716	0.007193534	0.003776605	0.002247979	0.001933262	0.001232467	0.000134879	4.99999E-08	2.80847E-07	3.30846E-07	0.330846
6042514130542	604251	4130542	0.005692736	0.008592809	0.004511225	0.002685253	0.002309317	0.001471799	0.000161115	5.97248E-08	3.35472E-07	3.95197E-07	0.395197
6043014130542	604301	4130542	0.006563528	0.009907212	0.005201286	0.003096004	0.002662563	0.001700936	0.00018576	6.88606E-08	3.86834E-07	4.55695E-07	0.455695
6043514130542	604351	4130542	0.007258826	0.010956718	0.005752277	0.003423975	0.002944618	0.001889551	0.000205438	7.61553E-08	4.27912E-07	5.04067E-07	0.504067
6044014130542	604401	4130542	0.007697561	0.011618874	0.006099954	0.003630925	0.003122595	0.002015502	0.000217855	8.07582E-08	4.53913E-07	5.34671E-07	0.534671
6044514130542	604451	4130542	0.007843272	0.011838901	0.006215423	0.003699656	0.003181705	0.002067132	0.000221979	8.22869E-08	4.62663E-07	5.4495E-07	0.54495
6039514130592	603951	4130592	0.001966227	0.00296789	0.001558142	0.000927466	0.00079762	0.000515751	5.56479E-05	2.06285E-08	1.15956E-07	1.36584E-07	0.136584
6040014130592	604001	4130592	0.002550005	0.003849064	0.002020759	0.001202832	0.001034436	0.000664684	7.21699E-05	2.67531E-08	1.50335E-07	1.77088E-07	0.177088
6040514130592	604051	4130592	0.003374987	0.00509432	0.002674518	0.001591975	0.001369098	0.000874566	9.55185E-05	3.54083E-08	1.98911E-07	2.34319E-07	0.234319
6041014130592	604101	4130592	0.004440104	0.006702044	0.003518573	0.002094389	0.001801174	0.001144919	0.000125663	4.65829E-08	2.61619E-07	3.08202E-07	0.308202
6041514130592	604151	4130592	0.005693137	0.008593414	0.004511542	0.002685442	0.00230948	0.001462627	0.000161127	5.9729E-08	3.35387E-07	3.95116E-07	0.395116
6042014130592	604201	4130592	0.007063432	0.010661784	0.005597437	0.003331808	0.002865354	0.001812234	0.000199908	7.41053E-08	4.16084E-07	4.90189E-07	0.490189
6042514130592	604251	4130592	0.008360004	0.012618874	0.006624909	0.003943398	0.003391322	0.00214971	0.000236604	8.77082E-08	4.92517E-07	5.80225E-07	0.580225
6043014130592	604301	4130592	0.009395071	0.014181239	0.007445151	0.004431637	0.003811208	0.002428979	0.000265898	9.85675E-08	5.5365E-07	6.52217E-07	0.652217
6043514130592	604351	4130592	0.01001304	0.015114022	0.007934862	0.004723132	0.004061893	0.002608058	0.000283388	1.05051E-07	5.90292E-07	6.95343E-07	0.695343
6044014130592	604401	4130592	0.010165695	0.015344446	0.008055834	0.004795139	0.00412382	0.002670029	0.000287708	1.06652E-07	5.99552E-07	7.06204E-07	0.706204
6044514130592	604451	4130592	0.009891903	0.014931175	0.007838867	0.004665992	0.004012753	0.002620372	0.00027996	1.0378E-07	5.83664E-07	6.87444E-07	0.687444
6040014130642	604001	4130642	0.00363342	0.005484407	0.002879314	0.001713877	0.001473934	0.00093935	0.000102833	3.81197E-08	2.14116E-07	2.52236E-07	0.252236
6040514130642	604051	4130642	0.005032029	0.007595516	0.003987646	0.002373599	0.002041295	0.001290857	0.000142416	5.2793E-08	2.96418E-07	3.49211E-07	0.349211
6041014130642	604101	4130642	0.006818221	0.010291655	0.005403119	0.003216142	0.002765882	0.001738498	0.000192969	7.15327E-08	4.01512E-07	4.73045E-07	0.473045
6041514130642	604151	4130642	0.008901444	0.013436142	0.007053975	0.004198794	0.003610963	0.002262324	0.000251928	9.33886E-08	5.24104E-07	6.17492E-07	0.617492
6042014130642	604201	4130642	0.010957822	0.016540109	0.008683557	0.005168784	0.004445154	0.002789548	0.000310127	1.14963E-07	6.45234E-07	7.60197E-07	0.760197
6042514130642	604251	4130642	0.012604046	0.019024976	0.009988112	0.005945305	0.005112962	0.003229736	0.000356718	1.32234E-07	7.42416E-07	8.7465E-07	0.87465
6043014130642	604301	4130642	0.013508495	0.020390181	0.010704845	0.006371932	0.005479861	0.00349523	0.000382316	1.41723E-07	7.96085E-07	9.37808E-07	0.937808

















Unique Identifier	X (UTM)	Y (UTM)	Demolition		Site Preparation		Grading		Building Construction		Building Construction		Paving		Architectural Coating		Demolition		Site Preparation		Grading		Building Construction		Building Construction		Paving		Architectural Coating		Annual PM2.5 (ug/m3)			
			Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	Offroad	2024	2025
			2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2024	2025
6039514131542	603951	4131542	0.000248747	0.000282202	0.000202766	0.000627088	0.000501671	4.29323E-05	2.09029E-05	1.16787E-05	1.16787E-05	1.16787E-05	6.5651E-05	5.89044E-05	3.37327E-06	6.74654E-06	2.34321E-05	2.34321E-05	2.34321E-05	0.000162122	0.000144786	8.66813E-06	1.73363E-05	0.00169391								0.00080532		
6040014131542	604001	4131542	0.000211074	0.000242153	0.000173578	0.00053036	0.000424288	3.62444E-05	1.76787E-05	1.07504E-05	1.07504E-05	1.07504E-05	6.10311E-05	5.4746E-05	3.14255E-06	6.28509E-06	2.1362E-05	2.1362E-05	2.1362E-05	0.000147165	0.000131439	7.86266E-06	1.57253E-05	0.0014617								0.000697412		
6040514131542	604051	4131542	0.000175575	0.000199321	0.000143195	0.000442534	0.000354027	3.01751E-05	1.47511E-05	9.80553E-06	9.80553E-06	9.80553E-06	5.56456E-05	4.99156E-05	2.86501E-06	5.73001E-06	1.97596E-05	1.97596E-05	1.97596E-05	0.000136176	0.000121624	7.27602E-06	1.4552E-05	0.00124114								0.000600916		
6041014131542	604101	4131542	0.000145295	0.000161725	0.000116678	0.000368315	0.000294652	2.50621E-05	1.22772E-05	8.92722E-06	8.92722E-06	8.92722E-06	5.03984E-05	4.52145E-05	2.59195E-06	5.18389E-06	1.83439E-05	1.83439E-05	1.83439E-05	0.000126621	0.000113086	6.76732E-06	1.35346E-05	0.00105085								0.00051837		
6041514131542	604151	4131542	0.000121919	0.000132941	9.63438E-05	0.00031086	0.000248688	2.11184E-05	1.0362E-05	8.188E-06	8.188E-06	8.188E-06	4.61181E-05	4.13768E-05	2.37063E-06	4.74126E-06	1.6951E-05	1.6951E-05	1.6951E-05	0.000116966	0.000104464	6.25091E-06	1.25018E-05	0.00090056								0.000451874		
603878.014130524.31	603878.01	4130524.31	6.1406E-05	7.02976E-05	5.04127E-05	0.000154991	0.000123513	9.98276E-06	5.14636E-06	3.08195E-05	3.08195E-05	3.08195E-05	0.000231452	0.000206373	1.25395E-05	2.5079E-05	4.40109E-05	4.40109E-05	4.40109E-05	0.000202442	0.000182638	9.90191E-06	1.98038E-05	0.00099489								0.000594976		
603920.264130511.38	603920.26	4130511.38	6.52351E-05	7.29247E-05	5.25635E-05	0.000165163	0.000132151	1.06657E-05	5.50545E-06	3.04244E-05	3.04244E-05	3.04244E-05	0.000227587	0.000202942	1.23227E-05	2.46453E-05	4.319E-05	4.319E-05	4.319E-05	0.000201224	0.00018147	9.87715E-06	1.97543E-05	0.00100554								0.000599313		
6039894130534	603989	4130534	9.34408E-05	9.85865E-05	7.19734E-05	0.000240403	0.000192322	1.54032E-05	8.01342E-06	3.77957E-05	3.77957E-05	3.77957E-05	0.000281988	0.000251464	1.5262E-05	3.05241E-05	5.19308E-05	5.19308E-05	5.19308E-05	0.000247679	0.000223211	1.22343E-05	2.44686E-05	0.00130325								0.000772903		
6038394130584	603839	4130584	7.15185E-05	8.17092E-05	5.86215E-05	0.000179924	0.000149399	1.16018E-05	5.99747E-06	4.43263E-05	4.43263E-05	4.43263E-05	0.000341527	0.000304377	1.85751E-05	3.71501E-05	6.00891E-05	6.00891E-05	6.00891E-05	0.00026093	0.000235825	1.25526E-05	2.51051E-05	0.00130748								0.000795123		
6038894130584	603889	4130584	8.28747E-05	9.40935E-05	6.75962E-05	0.000208878	0.000167103	1.34313E-05	6.96261E-06	4.75109E-05	4.75109E-05	4.75109E-05	0.00036498	0.000325296	1.98418E-05	3.96836E-05	6.29699E-05	6.29699E-05	6.29699E-05	0.000277309	0.000250517	1.33675E-05	2.67924E-05	0.00142717								0.000863023		
603929.954130570.43	603929.95	4130570.43	8.88595E-05	9.81972E-05	7.09566E-05	0.000225718	0.000180574	1.44922E-05	7.52392E-06	4.50185E-05	4.50185E-05	4.50185E-05	0.000342262	0.000305107	1.85777E-05	3.71555E-05	6.01897E-05	6.01897E-05	6.01897E-05	0.00027375	0.000247055	1.33475E-05	2.6695E-05	0.00141537								0.000850527		
6037894130634	603789	4130634	7.72325E-05	8.41976E-05	6.10217E-05	0.000196934	0.000157547	1.26841E-05	6.56446E-06	6.21619E-05	6.21619E-05	6.21619E-05	0.000490489	0.000436948	2.67704E-05	5.35409E-05	8.03931E-05	8.03931E-05	8.03931E-05	0.000326035	0.00029533	1.53526E-05	3.07053E-05	0.00166357								0.001035443		
6038394130634	603839	4130634	9.08906E-05	0.000102412	7.3692E-05	0.000229592	0.000183674	1.47366E-05	7.65307E-06	6.56517E-05	6.56517E-05	6.56517E-05	0.000515218	0.000459022	2.80979E-05	6.51958E-05	8.35037E-05	8.35037E-05	8.35037E-05	0.000347366	0.000314383	1.64914E-05	3.29828E-05	0.00180664								0.001113237		

# 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

## Health Risk Assessment Results Summary

### Project

Scenario	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> annual average
Residences	1.26	0.603	0.296
BAAQMD Significance Threshold	>10	>1	>0.3
Threshold Exceeded?	No	No	No

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size; µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk. Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

Source: BAAQMD 2024, Rincon Consultants 2024. For health risk calculations, see Appendix A.

### Cumulative

Scenario	Excess Cancer Risk (per million)	Chronic Health Risk <sup>1</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup> annual average	
Unmitigated Project	1.26	0.603	0.296	
Verizon Wireless (Tully Road)	0.14	0.00	0.00	
Reco Gas and Minimart	0.20	0.00	0.00	
Tully Valero	0.44	0.00	0.00	
Vo Gas Station	0.32	0.00	0.00	
King Tully Shell #135986	1.26	0.01	0.00	
Roadways	58.99	0.16	1.14	0.419
Total	62.61	0.77	1.44	0.716
BAAQMD Significance Threshold	>100	>10	>0.8	
Threshold Exceeded?	No	No	Yes	

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size; µg/m<sup>3</sup> = micrograms per cubic meter

<sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk.

Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

Source: BAAQMD 2024, Rincon Consultants 2024. For health risk calculations, see Appendix A.

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

Construction Modeling Assumptions

Note: there are schools, but residences closer, impacts would be lesser there  
**OB Whaley Elementary School** 300 m

AERMOD Sources

<u>PolyArea [1]</u>		
<b>Offroad Construction Exhaust</b>		
Release Height	5	m
Emissions rate	1	g/s
Init Vert Dimension	1.4	m
SCAQMD LST Guidance, 2008		
<u>Line Volume [2]</u>		
<b>Onroad Hauling Exhaust</b>		
Plume Height	7.315	m
Plume Width	15;25	m
Release Height	3.66; 0	m
Emissions rate	1	g/s

[\[1\] SCAQMD, Final Localized Significance Threshold Methodology](#)

[\[2\] BAAQMD, CEQA AQ Guidelines, Appendix E, Table 11, Recommended Volume Source Configuration for Construction Projects](#)

Meteorology:

San Jose Int'l Airport





6040174131201	604017	4131201	0.026189274	0.000172026	0.0263613	6040174131201	604017	4131201	0.0621706	0.0119424	0
6040674131201	604067	4131201	0.017618594	0.000141107	0.017759702	6040674131201	604067	4131201	0.0418517	0.0080115	0
6041674131201	604167	4131201	0.010150103	9.91102E-05	0.010249213	6041674131201	604167	4131201	0.0241277	0.004601	0
6042174131201	604217	4131201	0.008200218	8.47078E-05	0.008284926	6042174131201	604217	4131201	0.0194972	0.0037121	0
6042674131201	604267	4131201	0.006764569	7.31993E-05	0.006837768	6042674131201	604267	4131201	0.0160872	0.0030582	0
6043174131201	604317	4131201	0.00566133	6.39219E-05	0.005725251	6043174131201	604317	4131201	0.0134662	0.0025561	0
6038674131251	603867	4131251	0.04257418	0.000246898	0.042821079	6038674131251	603867	4131251	0.1010499	0.0194055	0
6039174131251	603917	4131251	0.035501388	0.000201747	0.035703134	6039174131251	603917	4131251	0.0842551	0.0161876	0
6040174131251	604017	4131251	0.018838169	0.000139254	0.018977423	6040174131251	604017	4131251	0.044741	0.008563	0
6040674131251	604067	4131251	0.013341942	0.000117842	0.013459784	6040674131251	604067	4131251	0.031705	0.0060522	0
6041174131251	604117	4131251	0.010095983	0.000100704	0.010196687	6041174131251	604117	4131251	0.0240007	0.004574	0
6041674131251	604167	4131251	0.008077576	8.68785E-05	0.008164454	6041674131251	604167	4131251	0.0192075	0.0036558	0
6042174131251	604217	4131251	0.006670688	7.56286E-05	0.006746317	6042174131251	604217	4131251	0.0158653	0.0030162	0
6042674131251	604267	4131251	0.005624203	6.6384E-05	0.005690587	6042674131251	604267	4131251	0.0133786	0.0025409	0
6038174131301	603817	4131301	0.032859988	0.000221278	0.033081267	6038174131301	603817	4131301	0.0780362	0.0149266	0
6038674131301	603867	4131301	0.029422594	0.000186397	0.029608992	6038674131301	603867	4131301	0.0698617	0.0133711	0
6039174131301	603917	4131301	0.024706254	0.000157347	0.024863601	6039174131301	603917	4131301	0.0586616	0.0112294	0
6039674131301	603967	4131301	0.019277911	0.000133713	0.019411624	6039674131301	603967	4131301	0.0457818	0.0087559	0
6040174131301	604017	4131301	0.014254082	0.000114722	0.014368804	6040174131301	604017	4131301	0.0338654	0.006464	0
6041174131301	604117	4131301	0.008141158	8.67493E-05	0.008227907	6041174131301	604117	4131301	0.0193586	0.0036827	0
6041674131301	604167	4131301	0.006621185	7.62444E-05	0.006697429	6041674131301	604167	4131301	0.0157483	0.0029929	0
6042174131301	604217	4131301	0.005559498	6.74657E-05	0.005626963	6042174131301	604217	4131301	0.0132255	0.0025112	0
6037674131351	603767	4131351	0.025936927	0.000195582	0.026132747	6037674131351	603767	4131351	0.0616196	0.0117526	0
6038174131351	603817	4131351	0.02408624	0.00016975	0.02425599	6038174131351	603817	4131351	0.0572141	0.0109182	0
6038674131351	603867	4131351	0.021490722	0.000146404	0.021637126	6038674131351	603867	4131351	0.0510436	0.0097443	0
6039174131351	603917	4131351	0.018208119	0.000126597	0.018334716	6039174131351	603917	4131351	0.0432473	0.0082563	0
6040174131351	604017	4131351	0.011214979	9.62462E-05	0.011311226	6040174131351	604017	4131351	0.026652	0.0050765	0
6040674131351	604067	4131351	0.008562272	8.48347E-05	0.008647107	6040674131351	604067	4131351	0.0203565	0.0038713	0
6041674131351	604167	4131351	0.00555997	6.71528E-05	0.005627122	6041674131351	604167	4131351	0.0132266	0.0025106	0
6038174131401	603817	4131401	0.01837454	0.000135051	0.018509591	6038174131401	603817	4131401	0.0436554	0.008315	0
6038674131401	603867	4131401	0.016395048	0.000118604	0.016513652	6038674131401	603867	4131401	0.03895	0.0074209	0
6041174131401	604117	4131401	0.005720818	6.59016E-05	0.005786719	6041174131401	604117	4131401	0.0136078	0.002582	0
6044674131401	604467	4131401	0.002320448	3.49678E-05	0.002355416	6044674131401	604467	4131401	0.0055245	0.0010446	0
6038674131451	603867	4131451	0.012931953	9.8445E-05	0.013030398	6038674131451	603867	4131451	0.0307287	0.0058452	0
6041674131451	604167	4131451	0.004141377	5.30665E-05	0.004194443	6041674131451	604167	4131451	0.0098543	0.001867	0
6044674131451	604467	4131451	0.002105739	3.26871E-05	0.002138426	6044674131451	604467	4131451	0.0050137	0.0009477	0
6042174131501	604217	4131501	0.003178036	4.39267E-05	0.003221962	6042174131501	604217	4131501	0.0075639	0.0014315	0
6044174131501	604417	4131501	0.002098275	3.26746E-05	0.002130949	6044174131501	604417	4131501	0.004996	0.0009441	0
6044674131501	604467	4131501	0.001923735	3.05223E-05	0.001954257	6044674131501	604467	4131501	0.0045807	0.0008655	0
6040674131551	604067	4131551	0.004578344	5.05158E-05	0.00462886	6040674131551	604067	4131551	0.0108897	0.0020624	0
6041174131551	604117	4131551	0.003829144	4.66359E-05	0.00387578	6041174131551	604117	4131551	0.0091103	0.0017244	0
6041674131551	604167	4131551	0.003259718	4.31362E-05	0.003302854	6041674131551	604167	4131551	0.0077575	0.0014677	0
6042174131551	604217	4131551	0.002847303	3.99801E-05	0.002887283	6042174131551	604217	4131551	0.0067772	0.0012819	0
6042674131551	604267	4131551	0.002543403	3.71585E-05	0.002580561	6042674131551	604267	4131551	0.0060546	0.0011449	0
6043674131551	604367	4131551	0.002099109	3.23887E-05	0.002131497	6043674131551	604367	4131551	0.0049979	0.0009444	0
6044174131551	604417	4131551	0.001922644	3.03665E-05	0.001953011	6044174131551	604417	4131551	0.0045781	0.0008648	0
6044674131551	604467	4131551	0.001769754	2.8507E-05	0.001798261	6044674131551	604467	4131551	0.0042143	0.0007959	0

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

Health Risk Assessment Exposure Duration Assumptions for Offroad Equipment

Residential Receptors

Start Date 6/1/2024  
End Date 5/29/2038

		6/1/2024	7/3/2025	Days	5110
Phase		Start Date	End Date	Duration (days)	16<30
Demolition	3.1. Demolition (2024) - Unmitigated	6/1/2024	6/29/2024	29	29
Site Preparation	3.3. Site Preparation (2024) - Unmitigated	6/30/2024	7/7/2024	8	8
Grading	3.5. Grading (2024) - Unmitigated	7/8/2024	7/19/2024	12	12
Building Construction	3.7. Building Construction (2024) - Unmitigated	7/20/2024	12/31/2024	165	165
Building Construction	3.9. Building Construction (2025) - Unmitigated	1/1/2025	6/7/2025	158	158
Paving	3.11. Paving (2025) - Unmitigated	6/8/2025	7/3/2025	26	26
Architectural Coating	3.13. Architectural Coating (2025) - Unmitigated	3/25/2025	6/7/2025	75	75
				1	0
				1	0

		Intake Factor for Inhalation, IF (m <sup>3</sup> /kg-day)		
Phase	Year	Equation	16<30	
Demolition	3.1. Demolition (2024) - Unmitigated	2024		0.000207607
Site Preparation	3.3. Site Preparation (2024) - Unmitigated	2024	$DBR \cdot FAH \cdot EF \cdot ED \cdot ASF \cdot A \cdot CF_1$	5.72709E-05
Grading	3.5. Grading (2024) - Unmitigated	2024	$AT$	8.59063E-05
Building Construction	3.7. Building Construction (2024) - Unmitigated	2024		0.001181211
Building Construction	3.9. Building Construction (2025) - Unmitigated	2025		0.001131099
Paving	3.11. Paving (2025) - Unmitigated	2025		0.00018613
Architectural Coating	3.13. Architectural Coating (2025) - Unmitigated	2025		0.000536914
0	0	1900		
0	0	1900		

Risk Calculation Part 1, R1

Equation	2<16
	2.28368E-07
$IF \cdot CPF \cdot CF_2$	6.29979E-08
	9.44969E-08
	1.29933E-06
	1.24421E-06
	2.04743E-07
	5.90606E-07
	0
	0

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)	
Demolition	3.1. Demolition (2024)	2024	0.004	10	4.48007E-05
Site Preparation	3.3. Site Preparatic	2024	0.002	10	2.24004E-05
Grading	3.5. Grading (2024)	2024	0.002	10	2.24004E-05
Building Construction	3.7. Building Const	2024	0.004	10	4.48007E-05
Building Construction	3.9. Building Const	2025	0.004	10	4.48007E-05
Paving	3.11. Paving (2025)	2025	0.000	10	0
Architectural Coating	3.13. Architectural	2025	0.000	10	0
0	0	1900	0.000	10	0
0	0	1900	0.000	10	0

Max Haul Cancer Risk

0.005

AERMOD Column Identifier:

7

7

7

7

7

7

7

MAX: 0.004742

Unique Identifier	X (UTM)	Y (UTM)	Demolition 2024	Site Preparation 2024	Grading 2024	Building Construction 2024	Building Construction 2025	Paving 2025	Architectu ral Coating 2025	Worker Risk		
										16>30	Total	per million
6037674130701	603767	4130701	2.46471E-05	1.23236E-05	1.23236E-05	2.46471E-05	2.46471E-05	0	0	7.02605E-11	7.02605E-11	7.026E-05
6038174130701	603817	4130701	2.78351E-05	1.39176E-05	1.39176E-05	2.78351E-05	2.78351E-05	0	0	7.93484E-11	7.93484E-11	7.935E-05
6037174130751	603717	4130751	2.96133E-05	1.48066E-05	1.48066E-05	2.96133E-05	2.96133E-05	0	0	8.44173E-11	8.44173E-11	8.442E-05
6037674130751	603767	4130751	3.513E-05	1.7565E-05	1.7565E-05	3.513E-05	3.513E-05	0	0	1.00144E-10	1.00144E-10	0.0001001
6038174130751	603817	4130751	4.11938E-05	2.05969E-05	2.05969E-05	4.11938E-05	4.11938E-05	0	0	1.17429E-10	1.17429E-10	0.0001174
6038674130751	603867	4130751	4.89009E-05	2.44504E-05	2.44504E-05	4.89009E-05	4.89009E-05	0	0	1.394E-10	1.394E-10	0.0001394
6037174130801	603717	4130801	4.25414E-05	2.12707E-05	2.12707E-05	4.25414E-05	4.25414E-05	0	0	1.21271E-10	1.21271E-10	0.0001213
6037674130801	603767	4130801	5.36816E-05	2.68408E-05	2.68408E-05	5.36816E-05	5.36816E-05	0	0	1.53028E-10	1.53028E-10	0.000153
6038174130801	603817	4130801	6.69144E-05	3.34572E-05	3.34572E-05	6.69144E-05	6.69144E-05	0	0	1.9075E-10	1.9075E-10	0.0001907
6038674130801	603867	4130801	8.53333E-05	4.26666E-05	4.26666E-05	8.53333E-05	8.53333E-05	0	0	2.43256E-10	2.43256E-10	0.0002433
6041174130801	604117	4130801	0.000133551	6.67753E-05	6.67753E-05	0.000133551	0.000133551	0	0	3.80707E-10	3.80707E-10	0.0003807
6037174130851	603717	4130851	6.47886E-05	3.23943E-05	3.23943E-05	6.47886E-05	6.47886E-05	0	0	1.8469E-10	1.8469E-10	0.0001847
6037674130851	603767	4130851	9.02161E-05	4.51081E-05	4.51081E-05	9.02161E-05	9.02161E-05	0	0	2.57175E-10	2.57175E-10	0.0002572
6038174130851	603817	4130851	0.000126258	6.31292E-05	6.31292E-05	0.000126258	0.000126258	0	0	3.59919E-10	3.59919E-10	0.0003599
6038674130851	603867	4130851	0.000185853	9.29263E-05	9.29263E-05	0.000185853	0.000185853	0	0	5.29802E-10	5.29802E-10	0.0005298
6040674130851	604067	4130851	0.000214851	0.000107425	0.000107425	0.000214851	0.000214851	0	0	6.12466E-10	6.12466E-10	0.0006125
6041174130851	604117	4130851	0.000145908	7.2954E-05	7.2954E-05	0.000145908	0.000145908	0	0	4.15933E-10	4.15933E-10	0.0004159
6041674130851	604167	4130851	9.92103E-05	4.96052E-05	4.96052E-05	9.92103E-05	9.92103E-05	0	0	2.82815E-10	2.82815E-10	0.0002828
6037174130901	603717	4130901	0.000105723	5.28613E-05	5.28613E-05	0.000105723	0.000105723	0	0	3.01379E-10	3.01379E-10	0.0003014
6037674130901	603767	4130901	0.000173948	8.69741E-05	8.69741E-05	0.000173948	0.000173948	0	0	4.95867E-10	4.95867E-10	0.0004959
6038174130901	603817	4130901	0.00031172	0.00015586	0.00015586	0.00031172	0.00031172	0	0	8.88606E-10	8.88606E-10	0.0008886
6038674130901	603867	4130901	0.000641703	0.000320851	0.000320851	0.000641703	0.000641703	0	0	1.82927E-09	1.82927E-09	0.0018293

6039174130901	603917	4130901	0.000959	0.0004795	0.0004795	0.000959	0.000959	0	0	2.73378E-09	2.73378E-09	0.0027338
6040174130901	604017	4130901	0.000366031	0.000183015	0.000183015	0.000366031	0.000366031	0	0	1.04343E-09	1.04343E-09	0.0010434
6040674130901	604067	4130901	0.000201143	0.000100571	0.000100571	0.000201143	0.000201143	0	0	5.73389E-10	5.73389E-10	0.0005734
6041174130901	604117	4130901	0.000120106	6.00531E-05	6.00531E-05	0.000120106	0.000120106	0	0	3.42382E-10	3.42382E-10	0.0003424
6041674130901	604167	4130901	7.72799E-05	3.864E-05	3.864E-05	7.72799E-05	7.72799E-05	0	0	2.20299E-10	2.20299E-10	0.0002203
6042174130901	604217	4130901	5.27511E-05	2.63755E-05	2.63755E-05	5.27511E-05	5.27511E-05	0	0	1.50375E-10	1.50375E-10	0.0001504
6042674130901	604267	4130901	3.79216E-05	1.89608E-05	1.89608E-05	3.79216E-05	3.79216E-05	0	0	1.08101E-10	1.08101E-10	0.0001081
6037174130951	603717	4130951	0.00018775	9.38752E-05	9.38752E-05	0.00018775	0.00018775	0	0	5.35212E-10	5.35212E-10	0.0005352
6037674130951	603767	4130951	0.000419045	0.000209523	0.000209523	0.000419045	0.000419045	0	0	1.19455E-09	1.19455E-09	0.0011946
6038174130951	603817	4130951	0.000986861	0.00049343	0.00049343	0.000986861	0.000986861	0	0	2.8132E-09	2.8132E-09	0.0028132
6040174130951	604017	4130951	0.000240748	0.000120374	0.000120374	0.000240748	0.000240748	0	0	6.8629E-10	6.8629E-10	0.0006863
6040674130951	604067	4130951	0.000129335	6.46674E-05	6.46674E-05	0.000129335	0.000129335	0	0	3.68689E-10	3.68689E-10	0.0003687
6041174130951	604117	4130951	7.93089E-05	3.96545E-05	3.96545E-05	7.93089E-05	7.93089E-05	0	0	2.26083E-10	2.26083E-10	0.0002261
6041674130951	604167	4130951	5.30333E-05	2.65167E-05	2.65167E-05	5.30333E-05	5.30333E-05	0	0	1.5118E-10	1.5118E-10	0.0001512
6042174130951	604217	4130951	3.77392E-05	1.88696E-05	1.88696E-05	3.77392E-05	3.77392E-05	0	0	1.07582E-10	1.07582E-10	0.0001076
6042674130951	604267	4130951	2.80977E-05	1.40488E-05	1.40488E-05	2.80977E-05	2.80977E-05	0	0	8.00968E-11	8.00968E-11	8.01E-05
6037674131001	603767	4131001	0.001072379	0.00053619	0.00053619	0.001072379	0.001072379	0	0	3.05699E-09	3.05699E-09	0.003057
6038674131001	603867	4131001	0.001663352	0.000831676	0.000831676	0.001663352	0.001663352	0	0	4.74165E-09	4.74165E-09	0.0047416
6039174131001	603917	4131001	0.000575735	0.000287868	0.000287868	0.000575735	0.000575735	0	0	1.64122E-09	1.64122E-09	0.0016412
6040174131001	604017	4131001	0.000128041	6.40207E-05	6.40207E-05	0.000128041	0.000128041	0	0	3.65002E-10	3.65002E-10	0.000365
6040674131001	604067	4131001	7.82933E-05	3.91467E-05	3.91467E-05	7.82933E-05	7.82933E-05	0	0	2.23187E-10	2.23187E-10	0.0002232
6041174131001	604117	4131001	5.24195E-05	2.62098E-05	2.62098E-05	5.24195E-05	5.24195E-05	0	0	1.4943E-10	1.4943E-10	0.0001494
6041674131001	604167	4131001	3.74655E-05	1.87328E-05	1.87328E-05	3.74655E-05	3.74655E-05	0	0	1.06801E-10	1.06801E-10	0.0001068
6042174131001	604217	4131001	2.80892E-05	1.40446E-05	1.40446E-05	2.80892E-05	2.80892E-05	0	0	8.00726E-11	8.00726E-11	8.007E-05
6038174131051	603817	4131051	0.001076244	0.000538122	0.000538122	0.001076244	0.001076244	0	0	3.068E-09	3.068E-09	0.003068
6038674131051	603867	4131051	0.000450608	0.000225304	0.000225304	0.000450608	0.000450608	0	0	1.28453E-09	1.28453E-09	0.0012845
6039174131051	603917	4131051	0.000228766	0.000114383	0.000114383	0.000228766	0.000228766	0	0	6.52135E-10	6.52135E-10	0.0006521
6039674131051	603967	4131051	0.000129542	6.47709E-05	6.47709E-05	0.000129542	0.000129542	0	0	3.69279E-10	3.69279E-10	0.0003693
6040174131051	604017	4131051	8.09012E-05	4.04506E-05	4.04506E-05	8.09012E-05	8.09012E-05	0	0	2.30621E-10	2.30621E-10	0.0002306
6040674131051	604067	4131051	5.45135E-05	2.72568E-05	2.72568E-05	5.45135E-05	5.45135E-05	0	0	1.55399E-10	1.55399E-10	0.0001554
6041174131051	604117	4131051	3.89717E-05	1.94859E-05	1.94859E-05	3.89717E-05	3.89717E-05	0	0	1.11095E-10	1.11095E-10	0.0001111
6041674131051	604167	4131051	2.9163E-05	1.45815E-05	1.45815E-05	2.9163E-05	2.9163E-05	0	0	8.31338E-11	8.31338E-11	8.313E-05
6038674131101	603867	4131101	0.000195708	9.78542E-05	9.78542E-05	0.000195708	0.000195708	0	0	5.57897E-10	5.57897E-10	0.0005579
6039174131101	603917	4131101	0.00012371	6.18552E-05	6.18552E-05	0.00012371	0.00012371	0	0	3.52656E-10	3.52656E-10	0.0003527
6039674131101	603967	4131101	8.1876E-05	4.0938E-05	4.0938E-05	8.1876E-05	8.1876E-05	0	0	2.334E-10	2.334E-10	0.0002334
6040174131101	604017	4131101	5.69995E-05	2.84998E-05	2.84998E-05	5.69995E-05	5.69995E-05	0	0	1.62486E-10	1.62486E-10	0.0001625
6040674131101	604067	4131101	4.13605E-05	2.06802E-05	2.06802E-05	4.13605E-05	4.13605E-05	0	0	1.17905E-10	1.17905E-10	0.0001179
6041174131101	604117	4131101	3.11334E-05	1.55667E-05	1.55667E-05	3.11334E-05	3.11334E-05	0	0	8.87506E-11	8.87506E-11	8.875E-05
6041674131101	604167	4131101	2.41794E-05	1.20897E-05	1.20897E-05	2.41794E-05	2.41794E-05	0	0	6.89272E-11	6.89272E-11	6.893E-05
6042174131101	604217	4131101	1.92791E-05	9.63955E-06	9.63955E-06	1.92791E-05	1.92791E-05	0	0	5.49581E-11	5.49581E-11	5.496E-05
6039174131151	603917	4131151	7.69623E-05	3.84811E-05	3.84811E-05	7.69623E-05	7.69623E-05	0	0	2.19393E-10	2.19393E-10	0.0002194
6039674131151	603967	4131151	5.61326E-05	2.80663E-05	2.80663E-05	5.61326E-05	5.61326E-05	0	0	1.60015E-10	1.60015E-10	0.00016
6040174131151	604017	4131151	4.21127E-05	2.10563E-05	2.10563E-05	4.21127E-05	4.21127E-05	0	0	1.20049E-10	1.20049E-10	0.00012
6040674131151	604067	4131151	3.23667E-05	1.61834E-05	1.61834E-05	3.23667E-05	3.23667E-05	0	0	9.22664E-11	9.22664E-11	9.227E-05
6041174131151	604117	4131151	2.54562E-05	1.27281E-05	1.27281E-05	2.54562E-05	2.54562E-05	0	0	7.2567E-11	7.2567E-11	7.257E-05
6041674131151	604167	4131151	2.04529E-05	1.02264E-05	1.02264E-05	2.04529E-05	2.04529E-05	0	0	5.83041E-11	5.83041E-11	5.83E-05
6042174131151	604217	4131151	1.67429E-05	8.37146E-06	8.37146E-06	1.67429E-05	1.67429E-05	0	0	4.77283E-11	4.77283E-11	4.773E-05

6042674131151	604267	4131151	1.39308E-05	6.96539E-06	6.96539E-06	1.39308E-05	1.39308E-05	0	0	3.97119E-11	3.97119E-11	3.971E-05
6038674131201	603867	4131201	6.72262E-05	3.36131E-05	3.36131E-05	6.72262E-05	6.72262E-05	0	0	1.91639E-10	1.91639E-10	0.0001916
6039674131201	603967	4131201	4.03072E-05	2.01536E-05	2.01536E-05	4.03072E-05	4.03072E-05	0	0	1.14902E-10	1.14902E-10	0.0001149
6040174131201	604017	4131201	3.19393E-05	1.59697E-05	1.59697E-05	3.19393E-05	3.19393E-05	0	0	9.10481E-11	9.10481E-11	9.105E-05
6040674131201	604067	4131201	2.56964E-05	1.28482E-05	1.28482E-05	2.56964E-05	2.56964E-05	0	0	7.32515E-11	7.32515E-11	7.325E-05
6041174131201	604117	4131201	2.09735E-05	1.04867E-05	1.04867E-05	2.09735E-05	2.09735E-05	0	0	5.97881E-11	5.97881E-11	5.979E-05
6041674131201	604167	4131201	1.73679E-05	8.68395E-06	8.68395E-06	1.73679E-05	1.73679E-05	0	0	4.95099E-11	4.95099E-11	4.951E-05
6042174131201	604217	4131201	1.45777E-05	7.28885E-06	7.28885E-06	1.45777E-05	1.45777E-05	0	0	4.1556E-11	4.1556E-11	4.156E-05
6042674131201	604267	4131201	1.23789E-05	6.18944E-06	6.18944E-06	1.23789E-05	1.23789E-05	0	0	3.5288E-11	3.5288E-11	3.529E-05
6043174131201	604317	4131201	1.0629E-05	5.31449E-06	5.31449E-06	1.0629E-05	1.0629E-05	0	0	3.02996E-11	3.02996E-11	3.03E-05
6038674131251	603867	4131251	4.58983E-05	2.29492E-05	2.29492E-05	4.58983E-05	4.58983E-05	0	0	1.3084E-10	1.3084E-10	0.0001308
6039174131251	603917	4131251	3.70511E-05	1.85255E-05	1.85255E-05	3.70511E-05	3.70511E-05	0	0	1.0562E-10	1.0562E-10	0.0001056
6040174131251	604017	4131251	2.48344E-05	1.24172E-05	1.24172E-05	2.48344E-05	2.48344E-05	0	0	7.07943E-11	7.07943E-11	7.079E-05
6040674131251	604067	4131251	2.06894E-05	1.03447E-05	1.03447E-05	2.06894E-05	2.06894E-05	0	0	5.89784E-11	5.89784E-11	5.898E-05
6041174131251	604117	4131251	1.73984E-05	8.69918E-06	8.69918E-06	1.73984E-05	1.73984E-05	0	0	4.95968E-11	4.95968E-11	4.96E-05
6041674131251	604167	4131251	1.47798E-05	7.38988E-06	7.38988E-06	1.47798E-05	1.47798E-05	0	0	4.2132E-11	4.2132E-11	4.213E-05
6042174131251	604217	4131251	1.26822E-05	6.34109E-06	6.34109E-06	1.26822E-05	1.26822E-05	0	0	3.61526E-11	3.61526E-11	3.615E-05
6042674131251	604267	4131251	1.09811E-05	5.49055E-06	5.49055E-06	1.09811E-05	1.09811E-05	0	0	3.13034E-11	3.13034E-11	3.13E-05
6038174131301	603817	4131301	3.98283E-05	1.99141E-05	1.99141E-05	3.98283E-05	3.98283E-05	0	0	1.13537E-10	1.13537E-10	0.0001135
6038674131301	603867	4131301	3.33685E-05	1.66842E-05	1.66842E-05	3.33685E-05	3.33685E-05	0	0	9.51221E-11	9.51221E-11	9.512E-05
6039174131301	603917	4131301	2.78181E-05	1.39091E-05	1.39091E-05	2.78181E-05	2.78181E-05	0	0	7.92999E-11	7.92999E-11	7.93E-05
6039674131301	603967	4131301	2.33443E-05	1.16722E-05	1.16722E-05	2.33443E-05	2.33443E-05	0	0	6.65466E-11	6.65466E-11	6.655E-05
6040174131301	604017	4131301	1.97907E-05	9.89536E-06	9.89536E-06	1.97907E-05	1.97907E-05	0	0	5.64166E-11	5.64166E-11	5.642E-05
6041174131301	604117	4131301	1.45777E-05	7.28885E-06	7.28885E-06	1.45777E-05	1.45777E-05	0	0	4.1556E-11	4.1556E-11	4.156E-05
6041674131301	604167	4131301	1.26392E-05	6.31959E-06	6.31959E-06	1.26392E-05	1.26392E-05	0	0	3.603E-11	3.603E-11	3.603E-05
6042174131301	604217	4131301	1.10447E-05	5.52236E-06	5.52236E-06	1.10447E-05	1.10447E-05	0	0	3.14847E-11	3.14847E-11	3.148E-05
6037674131351	603767	4131351	3.39092E-05	1.69546E-05	1.69546E-05	3.39092E-05	3.39092E-05	0	0	9.66636E-11	9.66636E-11	9.666E-05
6038174131351	603817	4131351	2.96455E-05	1.48228E-05	1.48228E-05	2.96455E-05	2.96455E-05	0	0	8.45093E-11	8.45093E-11	8.451E-05
6038674131351	603867	4131351	2.54083E-05	1.27041E-05	1.27041E-05	2.54083E-05	2.54083E-05	0	0	7.24303E-11	7.24303E-11	7.243E-05
6039174131351	603917	4131351	2.16885E-05	1.08442E-05	1.08442E-05	2.16885E-05	2.16885E-05	0	0	6.18264E-11	6.18264E-11	6.183E-05
6040174131351	604017	4131351	1.61359E-05	8.06794E-06	8.06794E-06	1.61359E-05	1.61359E-05	0	0	4.59979E-11	4.59979E-11	4.6E-05
6040674131351	604067	4131351	1.40871E-05	7.04357E-06	7.04357E-06	1.40871E-05	1.40871E-05	0	0	4.01576E-11	4.01576E-11	4.016E-05
6041674131351	604167	4131351	1.0896E-05	5.44799E-06	5.44799E-06	1.0896E-05	1.0896E-05	0	0	3.10607E-11	3.10607E-11	3.106E-05
6038174131401	603817	4131401	2.29823E-05	1.14912E-05	1.14912E-05	2.29823E-05	2.29823E-05	0	0	6.55147E-11	6.55147E-11	6.551E-05
6038674131401	603867	4131401	2.00573E-05	1.00286E-05	1.00286E-05	2.00573E-05	2.00573E-05	0	0	5.71764E-11	5.71764E-11	5.718E-05
6041174131401	604117	4131401	1.06097E-05	5.30485E-06	5.30485E-06	1.06097E-05	1.06097E-05	0	0	3.02446E-11	3.02446E-11	3.024E-05
6044674131401	604467	4131401	5.29993E-06	2.64996E-06	2.64996E-06	5.29993E-06	5.29993E-06	0	0	1.51083E-11	1.51083E-11	1.511E-05
6038674131451	603867	4131451	1.62869E-05	8.14343E-06	8.14343E-06	1.62869E-05	1.62869E-05	0	0	4.64282E-11	4.64282E-11	4.643E-05
6041674131451	604167	4131451	8.32711E-06	4.16356E-06	4.16356E-06	8.32711E-06	8.32711E-06	0	0	2.37377E-11	2.37377E-11	2.374E-05
6044674131451	604467	4131451	4.89448E-06	2.44724E-06	2.44724E-06	4.89448E-06	4.89448E-06	0	0	1.39525E-11	1.39525E-11	1.395E-05
6042174131501	604217	4131501	6.74565E-06	3.37282E-06	3.37282E-06	6.74565E-06	6.74565E-06	0	0	1.92295E-11	1.92295E-11	1.923E-05
6044174131501	604417	4131501	4.86491E-06	2.43246E-06	2.43246E-06	4.86491E-06	4.86491E-06	0	0	1.38682E-11	1.38682E-11	1.387E-05
6044674131501	604467	4131501	4.51995E-06	2.25997E-06	2.25997E-06	4.51995E-06	4.51995E-06	0	0	1.28848E-11	1.28848E-11	1.288E-05
6040674131551	604067	4131551	7.74739E-06	3.87369E-06	3.87369E-06	7.74739E-06	7.74739E-06	0	0	2.20851E-11	2.20851E-11	2.209E-05
6041174131551	604117	4131551	7.13496E-06	3.56748E-06	3.56748E-06	7.13496E-06	7.13496E-06	0	0	2.03393E-11	2.03393E-11	2.034E-05
6041674131551	604167	4131551	6.58123E-06	3.29061E-06	3.29061E-06	6.58123E-06	6.58123E-06	0	0	1.87608E-11	1.87608E-11	1.876E-05
6042174131551	604217	4131551	6.07005E-06	3.03503E-06	3.03503E-06	6.07005E-06	6.07005E-06	0	0	1.73036E-11	1.73036E-11	1.73E-05

6042674131551	604267	4131551	5.60233E-06	2.80117E-06	2.80117E-06	5.60233E-06	5.60233E-06	0	0	1.59703E-11	1.59703E-11	1.597E-05
6043674131551	604367	4131551	4.80846E-06	2.40423E-06	2.40423E-06	4.80846E-06	4.80846E-06	0	0	1.37073E-11	1.37073E-11	1.371E-05
6044174131551	604417	4131551	4.47828E-06	2.23914E-06	2.23914E-06	4.47828E-06	4.47828E-06	0	0	1.2766E-11	1.2766E-11	1.277E-05
6044674131551	604467	4131551	4.1808E-06	2.0904E-06	2.0904E-06	4.1808E-06	4.1808E-06	0	0	1.1918E-11	1.1918E-11	1.192E-05

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)	
Demolition	3.1. Demolition (20	2024	0.006	10	8.11965E-05
Site Preparation	3.3. Site Preparatio	2024	0.003	10	4.05982E-05
Grading	3.5. Grading (2024)	2024	0.003	10	4.05982E-05
Building Construction	3.7. Building Const	2024	0.006	10	8.11965E-05
Building Construction	3.9. Building Const	2025	0.006	10	8.11965E-05
Paving	3.11. Paving (2025)	2025	0.000	10	0
Architectural Coating	3.13. Architectural	2025	0.000	10	0
0	0	1900	0.000	10	0
0	0	1900	0.000	10	0

<b>Max Haul Cancer Risk</b>
0.003

AERMOD Column Identifier:

8

8

8

8

8

8

8

MAX: 0.002845

Unique Identifier	X (UTM)	Y (UTM)	Demolition	Site Preparation	Grading	Building Construction	Building Construction	Paving	Architectural Coating	Worker Risk		
			2024	2024	2024	2024	2025	2025	2025	16>30	Total	per million
6037674130701	603767	4130701	0.000175314	8.76569E-05	8.76569E-05	0.000175314	0.000175314	0	0	4.99759E-10	4.99759E-10	0.0004998
6038174130701	603817	4130701	0.000163272	8.16358E-05	8.16358E-05	0.000163272	0.000163272	0	0	4.65431E-10	4.65431E-10	0.0004654
6037174130751	603717	4130751	0.000295623	0.000147811	0.000147811	0.000295623	0.000295623	0	0	8.42719E-10	8.42719E-10	0.0008427
6037674130751	603767	4130751	0.000256266	0.000128133	0.000128133	0.000256266	0.000256266	0	0	7.30526E-10	7.30526E-10	0.0007305
6038174130751	603817	4130751	0.000220587	0.000110293	0.000110293	0.000220587	0.000220587	0	0	6.28816E-10	6.28816E-10	0.0006288
6038674130751	603867	4130751	0.00018955	9.4775E-05	9.4775E-05	0.00018955	0.00018955	0	0	5.40342E-10	5.40342E-10	0.0005403
6037174130801	603717	4130801	0.000446123	0.000223061	0.000223061	0.000446123	0.000446123	0	0	1.27174E-09	1.27174E-09	0.0012717
6037674130801	603767	4130801	0.000353181	0.000176591	0.000176591	0.000353181	0.000353181	0	0	1.0068E-09	1.0068E-09	0.0010068
6038174130801	603817	4130801	0.000285534	0.000142767	0.000142767	0.000285534	0.000285534	0	0	8.13959E-10	8.13959E-10	0.000814
6038674130801	603867	4130801	0.000233839	0.00011692	0.00011692	0.000233839	0.000233839	0	0	6.66596E-10	6.66596E-10	0.0006666
6041174130801	604117	4130801	7.92933E-05	3.96466E-05	3.96466E-05	7.92933E-05	7.92933E-05	0	0	2.26038E-10	2.26038E-10	0.000226
6037174130851	603717	4130851	0.000649862	0.000324931	0.000324931	0.000649862	0.000649862	0	0	1.85253E-09	1.85253E-09	0.0018525
6037674130851	603767	4130851	0.000477375	0.000238688	0.000238688	0.000477375	0.000477375	0	0	1.36083E-09	1.36083E-09	0.0013608
6038174130851	603817	4130851	0.000365035	0.000182518	0.000182518	0.000365035	0.000365035	0	0	1.04059E-09	1.04059E-09	0.0010406
6038674130851	603867	4130851	0.000284082	0.000142041	0.000142041	0.000284082	0.000284082	0	0	8.09821E-10	8.09821E-10	0.0008098
6040674130851	604067	4130851	9.61456E-05	4.80728E-05	4.80728E-05	9.61456E-05	9.61456E-05	0	0	2.74078E-10	2.74078E-10	0.0002741
6041174130851	604117	4130851	7.27496E-05	3.63748E-05	3.63748E-05	7.27496E-05	7.27496E-05	0	0	2.07384E-10	2.07384E-10	0.0002074
6041674130851	604167	4130851	5.56691E-05	2.78346E-05	2.78346E-05	5.56691E-05	5.56691E-05	0	0	1.58694E-10	1.58694E-10	0.0001587
6037174130901	603717	4130901	0.000994245	0.000497122	0.000497122	0.000994245	0.000994245	0	0	2.83425E-09	2.83425E-09	0.0028343
6037674130901	603767	4130901	0.000665118	0.000332559	0.000332559	0.000665118	0.000665118	0	0	1.89602E-09	1.89602E-09	0.001896
6038174130901	603817	4130901	0.000472285	0.000236143	0.000236143	0.000472285	0.000472285	0	0	1.34632E-09	1.34632E-09	0.0013463
6038674130901	603867	4130901	0.000340571	0.000170285	0.000170285	0.000340571	0.000340571	0	0	9.7085E-10	9.7085E-10	0.0009708
6039174130901	603917	4130901	0.000241697	0.000120848	0.000120848	0.000241697	0.000241697	0	0	6.88995E-10	6.88995E-10	0.0006889
6040174130901	604017	4130901	0.000117985	5.89925E-05	5.89925E-05	0.000117985	0.000117985	0	0	3.36335E-10	3.36335E-10	0.0003363

6040674130901	604067	4130901	8.40359E-05	4.2018E-05	4.2018E-05	8.40359E-05	8.40359E-05	0	0	2.39558E-10	2.39558E-10	0.0002396
6041174130901	604117	4130901	6.14885E-05	3.07442E-05	3.07442E-05	6.14885E-05	6.14885E-05	0	0	1.75283E-10	1.75283E-10	0.0001753
6041674130901	604167	4130901	4.63397E-05	2.31698E-05	2.31698E-05	4.63397E-05	4.63397E-05	0	0	1.32098E-10	1.32098E-10	0.0001321
6042174130901	604217	4130901	3.58848E-05	1.79424E-05	1.79424E-05	3.58848E-05	3.58848E-05	0	0	1.02295E-10	1.02295E-10	0.0001023
6042674130901	604267	4130901	2.85982E-05	1.42991E-05	1.42991E-05	2.85982E-05	2.85982E-05	0	0	8.15237E-11	8.15237E-11	8.152E-05
6037174130951	603717	4130951	0.000766894	0.000383447	0.000383447	0.000766894	0.000766894	0	0	2.18615E-09	2.18615E-09	0.0021862
6037674130951	603767	4130951	0.00099798	0.00049899	0.00049899	0.00099798	0.00099798	0	0	2.8449E-09	2.8449E-09	0.0028449
6038174130951	603817	4130951	0.000624677	0.000312339	0.000312339	0.000624677	0.000624677	0	0	1.78074E-09	1.78074E-09	0.0017807
6040174130951	604017	4130951	9.59239E-05	4.7962E-05	4.7962E-05	9.59239E-05	9.59239E-05	0	0	2.73446E-10	2.73446E-10	0.0002734
6040674130951	604067	4130951	6.6435E-05	3.32175E-05	3.32175E-05	6.6435E-05	6.6435E-05	0	0	1.89383E-10	1.89383E-10	0.0001894
6041174130951	604117	4130951	4.84711E-05	2.42355E-05	2.42355E-05	4.84711E-05	4.84711E-05	0	0	1.38174E-10	1.38174E-10	0.0001382
6041674130951	604167	4130951	3.69168E-05	1.84584E-05	1.84584E-05	3.69168E-05	3.69168E-05	0	0	1.05237E-10	1.05237E-10	0.0001052
6042174130951	604217	4130951	2.91163E-05	1.45581E-05	1.45581E-05	2.91163E-05	2.91163E-05	0	0	8.30004E-11	8.30004E-11	8.3E-05
6042674130951	604267	4130951	2.35941E-05	1.1797E-05	1.1797E-05	2.35941E-05	2.35941E-05	0	0	6.72586E-11	6.72586E-11	6.726E-05
6037674131001	603767	4131001	0.000940082	0.000470041	0.000470041	0.000940082	0.000940082	0	0	2.67985E-09	2.67985E-09	0.0026799
6038674131001	603867	4131001	0.000350726	0.000175363	0.000175363	0.000350726	0.000350726	0	0	9.99799E-10	9.99799E-10	0.0009998
6039174131001	603917	4131001	0.000178981	8.94907E-05	8.94907E-05	0.000178981	0.000178981	0	0	5.10215E-10	5.10215E-10	0.0005102
6040174131001	604017	4131001	6.96406E-05	3.48203E-05	3.48203E-05	6.96406E-05	6.96406E-05	0	0	1.98521E-10	1.98521E-10	0.0001985
6040674131001	604067	4131001	4.96914E-05	2.48457E-05	2.48457E-05	4.96914E-05	4.96914E-05	0	0	1.41653E-10	1.41653E-10	0.0001417
6041174131001	604117	4131001	3.74722E-05	1.87361E-05	1.87361E-05	3.74722E-05	3.74722E-05	0	0	1.0682E-10	1.0682E-10	0.0001068
6041674131001	604167	4131001	2.94906E-05	1.47453E-05	1.47453E-05	2.94906E-05	2.94906E-05	0	0	8.40675E-11	8.40675E-11	8.407E-05
6042174131001	604217	4131001	2.39505E-05	1.19753E-05	1.19753E-05	2.39505E-05	2.39505E-05	0	0	6.82747E-11	6.82747E-11	6.827E-05
6038174131051	603817	4131051	0.000528831	0.000264416	0.000264416	0.000528831	0.000528831	0	0	1.50752E-09	1.50752E-09	0.0015075
6038674131051	603867	4131051	0.000200283	0.000100141	0.000100141	0.000200283	0.000200283	0	0	5.70937E-10	5.70937E-10	0.0005709
6039174131051	603917	4131051	0.0001093	5.46501E-05	5.46501E-05	0.0001093	0.0001093	0	0	3.11577E-10	3.11577E-10	0.0003116
6039674131051	603967	4131051	7.09308E-05	3.54654E-05	3.54654E-05	7.09308E-05	7.09308E-05	0	0	2.02199E-10	2.02199E-10	0.0002022
6040174131051	604017	4131051	5.05952E-05	2.52976E-05	2.52976E-05	5.05952E-05	5.05952E-05	0	0	1.44229E-10	1.44229E-10	0.0001442
6040674131051	604067	4131051	3.83093E-05	1.91547E-05	1.91547E-05	3.83093E-05	3.83093E-05	0	0	1.09207E-10	1.09207E-10	0.0001092
6041174131051	604117	4131051	3.02351E-05	1.51176E-05	1.51176E-05	3.02351E-05	3.02351E-05	0	0	8.619E-11	8.619E-11	8.619E-05
6041674131051	604167	4131051	2.45855E-05	1.22927E-05	1.22927E-05	2.45855E-05	2.45855E-05	0	0	7.00848E-11	7.00848E-11	7.008E-05
6038674131101	603867	4131101	0.000110502	5.5251E-05	5.5251E-05	0.000110502	0.000110502	0	0	3.15003E-10	3.15003E-10	0.000315
6039174131101	603917	4131101	7.33919E-05	3.66959E-05	3.66959E-05	7.33919E-05	7.33919E-05	0	0	2.09215E-10	2.09215E-10	0.0002092
6039674131101	603967	4131101	5.28768E-05	2.64384E-05	2.64384E-05	5.28768E-05	5.28768E-05	0	0	1.50734E-10	1.50734E-10	0.0001507
6040174131101	604017	4131101	4.01866E-05	2.00933E-05	2.00933E-05	4.01866E-05	4.01866E-05	0	0	1.14558E-10	1.14558E-10	0.0001146
6040674131101	604067	4131101	3.17397E-05	1.58699E-05	1.58699E-05	3.17397E-05	3.17397E-05	0	0	9.0479E-11	9.0479E-11	9.048E-05
6041174131101	604117	4131101	2.58132E-05	1.29066E-05	1.29066E-05	2.58132E-05	2.58132E-05	0	0	7.35845E-11	7.35845E-11	7.358E-05
6041674131101	604167	4131101	2.14846E-05	1.07423E-05	1.07423E-05	2.14846E-05	2.14846E-05	0	0	6.12452E-11	6.12452E-11	6.125E-05
6042174131101	604217	4131101	1.82067E-05	9.10335E-06	9.10335E-06	1.82067E-05	1.82067E-05	0	0	5.1901E-11	5.1901E-11	5.19E-05
6039174131151	603917	4131151	5.51958E-05	2.75979E-05	2.75979E-05	5.51958E-05	5.51958E-05	0	0	1.57344E-10	1.57344E-10	0.0001573
6039674131151	603967	4131151	4.24138E-05	2.12069E-05	2.12069E-05	4.24138E-05	4.24138E-05	0	0	1.20907E-10	1.20907E-10	0.0001209
6040174131151	604017	4131151	3.3647E-05	1.68235E-05	1.68235E-05	3.3647E-05	3.3647E-05	0	0	9.59161E-11	9.59161E-11	9.592E-05
6040674131151	604067	4131151	2.73827E-05	1.36914E-05	1.36914E-05	2.73827E-05	2.73827E-05	0	0	7.80587E-11	7.80587E-11	7.806E-05
6041174131151	604117	4131151	2.27602E-05	1.13801E-05	1.13801E-05	2.27602E-05	2.27602E-05	0	0	6.48815E-11	6.48815E-11	6.488E-05
6041674131151	604167	4131151	1.92566E-05	9.62828E-06	9.62828E-06	1.92566E-05	1.92566E-05	0	0	5.48938E-11	5.48938E-11	5.489E-05
6042174131151	604217	4131151	1.65405E-05	8.27027E-06	8.27027E-06	1.65405E-05	1.65405E-05	0	0	4.71514E-11	4.71514E-11	4.715E-05
6042674131151	604267	4131151	1.43848E-05	7.19239E-06	7.19239E-06	1.43848E-05	1.43848E-05	0	0	4.1006E-11	4.1006E-11	4.101E-05
6038674131201	603867	4131201	5.38292E-05	2.69146E-05	2.69146E-05	5.38292E-05	5.38292E-05	0	0	1.53449E-10	1.53449E-10	0.0001534



6039674131201	603967	4131201	3.44565E-05	1.72283E-05	1.72283E-05	3.44565E-05	3.44565E-05	0	0	9.82238E-11	9.82238E-11	9.822E-05
6040174131201	604017	4131201	2.84066E-05	1.42033E-05	1.42033E-05	2.84066E-05	2.84066E-05	0	0	8.09775E-11	8.09775E-11	8.098E-05
6040674131201	604067	4131201	2.38036E-05	1.19018E-05	1.19018E-05	2.38036E-05	2.38036E-05	0	0	6.78558E-11	6.78558E-11	6.786E-05
6041174131201	604117	4131201	2.02252E-05	1.01126E-05	1.01126E-05	2.02252E-05	2.02252E-05	0	0	5.76552E-11	5.76552E-11	5.766E-05
6041674131201	604167	4131201	1.73996E-05	8.6998E-06	8.6998E-06	1.73996E-05	1.73996E-05	0	0	4.96003E-11	4.96003E-11	4.96E-05
6042174131201	604217	4131201	1.51375E-05	7.56873E-06	7.56873E-06	1.51375E-05	1.51375E-05	0	0	4.31517E-11	4.31517E-11	4.315E-05
6042674131201	604267	4131201	1.32992E-05	6.64959E-06	6.64959E-06	1.32992E-05	1.32992E-05	0	0	3.79114E-11	3.79114E-11	3.791E-05
6043174131201	604317	4131201	1.17946E-05	5.8973E-06	5.8973E-06	1.17946E-05	1.17946E-05	0	0	3.36224E-11	3.36224E-11	3.362E-05
6038674131251	603867	4131251	4.07127E-05	2.03564E-05	2.03564E-05	4.07127E-05	4.07127E-05	0	0	1.16058E-10	1.16058E-10	0.0001161
6039174131251	603917	4131251	3.37209E-05	1.68605E-05	1.68605E-05	3.37209E-05	3.37209E-05	0	0	9.61267E-11	9.61267E-11	9.613E-05
6040174131251	604017	4131251	2.40155E-05	1.20077E-05	1.20077E-05	2.40155E-05	2.40155E-05	0	0	6.84599E-11	6.84599E-11	6.846E-05
6040674131251	604067	4131251	2.06491E-05	1.03245E-05	1.03245E-05	2.06491E-05	2.06491E-05	0	0	5.88634E-11	5.88634E-11	5.886E-05
6041174131251	604117	4131251	1.79282E-05	8.96409E-06	8.96409E-06	1.79282E-05	1.79282E-05	0	0	5.11071E-11	5.11071E-11	5.111E-05
6041674131251	604167	4131251	1.56969E-05	7.84845E-06	7.84845E-06	1.56969E-05	1.56969E-05	0	0	4.47465E-11	4.47465E-11	4.475E-05
6042174131251	604217	4131251	1.38481E-05	6.92403E-06	6.92403E-06	1.38481E-05	1.38481E-05	0	0	3.94761E-11	3.94761E-11	3.948E-05
6042674131251	604267	4131251	1.23061E-05	6.15307E-06	6.15307E-06	1.23061E-05	1.23061E-05	0	0	3.50806E-11	3.50806E-11	3.508E-05
6038174131301	603817	4131301	3.77953E-05	1.88977E-05	1.88977E-05	3.77953E-05	3.77953E-05	0	0	1.07742E-10	1.07742E-10	0.0001077
6038674131301	603867	4131301	3.2019E-05	1.60095E-05	1.60095E-05	3.2019E-05	3.2019E-05	0	0	9.12753E-11	9.12753E-11	9.128E-05
6039174131301	603917	4131301	2.73786E-05	1.36893E-05	1.36893E-05	2.73786E-05	2.73786E-05	0	0	7.80471E-11	7.80471E-11	7.805E-05
6039674131301	603967	4131301	2.35616E-05	1.17808E-05	1.17808E-05	2.35616E-05	2.35616E-05	0	0	6.7166E-11	6.7166E-11	6.717E-05
6040174131301	604017	4131301	2.04534E-05	1.02267E-05	1.02267E-05	2.04534E-05	2.04534E-05	0	0	5.83056E-11	5.83056E-11	5.831E-05
6041174131301	604117	4131301	1.58536E-05	7.92681E-06	7.92681E-06	1.58536E-05	1.58536E-05	0	0	4.51932E-11	4.51932E-11	4.519E-05
6041674131301	604167	4131301	1.41071E-05	7.05354E-06	7.05354E-06	1.41071E-05	1.41071E-05	0	0	4.02144E-11	4.02144E-11	4.021E-05
6042174131301	604217	4131301	1.2622E-05	6.311E-06	6.311E-06	1.2622E-05	1.2622E-05	0	0	3.5981E-11	3.5981E-11	3.598E-05
6037674131351	603767	4131351	3.47838E-05	1.73919E-05	1.73919E-05	3.47838E-05	3.47838E-05	0	0	9.91566E-11	9.91566E-11	9.916E-05
6038174131351	603817	4131351	2.99022E-05	1.49511E-05	1.49511E-05	2.99022E-05	2.99022E-05	0	0	8.5241E-11	8.5241E-11	8.524E-05
6038674131351	603867	4131351	2.59496E-05	1.29748E-05	1.29748E-05	2.59496E-05	2.59496E-05	0	0	7.39734E-11	7.39734E-11	7.397E-05
6039174131351	603917	4131351	2.27212E-05	1.13606E-05	1.13606E-05	2.27212E-05	2.27212E-05	0	0	6.47704E-11	6.47704E-11	6.477E-05
6040174131351	604017	4131351	1.76269E-05	8.81347E-06	8.81347E-06	1.76269E-05	1.76269E-05	0	0	5.02484E-11	5.02484E-11	5.025E-05
6040674131351	604067	4131351	1.56725E-05	7.83627E-06	7.83627E-06	1.56725E-05	1.56725E-05	0	0	4.46771E-11	4.46771E-11	4.468E-05
6041674131351	604167	4131351	1.2661E-05	6.33048E-06	6.33048E-06	1.2661E-05	1.2661E-05	0	0	3.60921E-11	3.60921E-11	3.609E-05
6038174131401	603817	4131401	2.43931E-05	1.21965E-05	1.21965E-05	2.43931E-05	2.43931E-05	0	0	6.95362E-11	6.95362E-11	6.954E-05
6038674131401	603867	4131401	2.15487E-05	1.07744E-05	1.07744E-05	2.15487E-05	2.15487E-05	0	0	6.14281E-11	6.14281E-11	6.143E-05
6041174131401	604117	4131401	1.25083E-05	6.25416E-06	6.25416E-06	1.25083E-05	1.25083E-05	0	0	3.56569E-11	3.56569E-11	3.566E-05
6044674131401	604467	4131401	6.96666E-06	3.48333E-06	3.48333E-06	6.96666E-06	6.96666E-06	0	0	1.98596E-11	1.98596E-11	1.986E-05
6038674131451	603867	4131451	1.82473E-05	9.12364E-06	9.12364E-06	1.82473E-05	1.82473E-05	0	0	5.20168E-11	5.20168E-11	5.202E-05
6041674131451	604167	4131451	1.02884E-05	5.1442E-06	5.1442E-06	1.02884E-05	1.02884E-05	0	0	2.93287E-11	2.93287E-11	2.933E-05
6044674131451	604467	4131451	6.57204E-06	3.28602E-06	3.28602E-06	6.57204E-06	6.57204E-06	0	0	1.87346E-11	1.87346E-11	1.873E-05
6042174131501	604217	4131501	8.66367E-06	4.33183E-06	4.33183E-06	8.66367E-06	8.66367E-06	0	0	2.46971E-11	2.46971E-11	2.47E-05
6044174131501	604417	4131501	6.59722E-06	3.29861E-06	3.29861E-06	6.59722E-06	6.59722E-06	0	0	1.88064E-11	1.88064E-11	1.881E-05
6044674131501	604467	4131501	6.18717E-06	3.09359E-06	3.09359E-06	6.18717E-06	6.18717E-06	0	0	1.76375E-11	1.76375E-11	1.764E-05
6040674131551	604067	4131551	9.97337E-06	4.98668E-06	4.98668E-06	9.97337E-06	9.97337E-06	0	0	2.84306E-11	2.84306E-11	2.843E-05
6041174131551	604117	4131551	9.22473E-06	4.61237E-06	4.61237E-06	9.22473E-06	9.22473E-06	0	0	2.62966E-11	2.62966E-11	2.63E-05
6041674131551	604167	4131551	8.5508E-06	4.2754E-06	4.2754E-06	8.5508E-06	8.5508E-06	0	0	2.43754E-11	2.43754E-11	2.438E-05
6042174131551	604217	4131551	7.95482E-06	3.97741E-06	3.97741E-06	7.95482E-06	7.95482E-06	0	0	2.26765E-11	2.26765E-11	2.268E-05
6042674131551	604267	4131551	7.43273E-06	3.71636E-06	3.71636E-06	7.43273E-06	7.43273E-06	0	0	2.11882E-11	2.11882E-11	2.119E-05
6043674131551	604367	4131551	6.55337E-06	3.27668E-06	3.27668E-06	6.55337E-06	6.55337E-06	0	0	1.86814E-11	1.86814E-11	1.868E-05

6044174131551	604417	4131551	6.17418E-06	3.08709E-06	3.08709E-06	6.17418E-06	6.17418E-06	0	0	1.76005E-11	1.76005E-11	1.76E-05
6044674131551	604467	4131551	5.81935E-06	2.90968E-06	2.90968E-06	5.81935E-06	5.81935E-06	0	0	1.6589E-11	1.6589E-11	1.659E-05

## 2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Worker

Offroad DPM Emissions, Ground Level Concentrations and Health Risk Calculations  
Residential Receptors

Notes Unmitigated

Phase	Year	Emissions (lbs/day)	Work Hours Per Day	Emissions (g/s)
Demolition	2024	1.060	10	0.013355706
Site Preparation	2024	1.600	10	0.020159556
Grading	2024	0.840	10	0.010583767
Building Construction	2024	0.500	10	0.006299861
Building Construction	2025	0.430	10	0.005417881
Paving	2025	0.290	10	0.003653919
Architectural Coating	2025	0.030	10	0.000377992
0	1900	0.000	10	0
0	1900	0.000	10	0

Max Offroad Risk
1.3

AERMOD Column Identifier: 4 4 4 4 4 5 4

Unique Identifier	X (UTM)	Y (UTM)	Building Construction							Architectural Coating		Worker	
			Demolition 2024	Site Preparation 2024	Grading 2024	Building Construction 2024	Building Construction 2025	Paving 2025	Architectural Coating 2025	3rd Trimester	16<30	Total	per million
6037674130701	603767	4130701	0.001800349	0.002717508	0.001426692	0.000849221	0.00073033	0.000473767	5.09533E-05	0	2.85636E-09	2.85636E-09	0.002856
6038174130701	603817	4130701	0.002165361	0.003268469	0.001715946	0.001021396	0.000878401	0.000567527	6.12838E-05	0	3.435E-09	3.435E-09	0.003435
6037174130751	603717	4130751	0.002018715	0.003047117	0.001599736	0.000952224	0.000818913	0.000526786	5.71334E-05	0	3.20189E-09	3.20189E-09	0.003202
6037674130751	603767	4130751	0.002387065	0.003603117	0.001891637	0.001125974	0.000968338	0.000623359	6.75585E-05	0	3.78623E-09	3.78623E-09	0.003786
6038174130751	603817	4130751	0.002947204	0.004448609	0.00233552	0.00139019	0.001195564	0.000767469	8.34114E-05	0	4.67425E-09	4.67425E-09	0.004674
6038674130751	603867	4130751	0.003755624	0.005668867	0.002976155	0.001771521	0.001523508	0.000972016	0.000106291	0	5.95517E-09	5.95517E-09	0.005955
6037174130801	603717	4130801	0.002895383	0.00437039	0.002294455	0.001365747	0.001174542	0.000744742	8.19448E-05	0	4.59017E-09	4.59017E-09	0.00459
6037674130801	603767	4130801	0.003400363	0.005132623	0.002694627	0.001603945	0.001379392	0.000875443	9.62367E-05	0	5.3909E-09	5.3909E-09	0.005391
6038174130801	603817	4130801	0.004255261	0.006423036	0.003372094	0.002007199	0.001726191	0.001096176	0.000120432	0	6.74638E-09	6.74638E-09	0.006746
6038674130801	603867	4130801	0.005688996	0.008587164	0.004508261	0.002683489	0.0023078	0.001457439	0.000161009	0	9.0178E-09	9.0178E-09	0.009018
6041174130801	604117	4130801	0.050718693	0.076556517	0.040192171	0.023923912	0.020574564	0.012355802	0.001435435	0	8.02652E-08	8.02652E-08	0.080265
6037174130851	603717	4130851	0.00457473	0.006905253	0.003625258	0.002157891	0.001855787	0.001162787	0.000129473	0	7.24966E-09	7.24966E-09	0.00725
6037674130851	603767	4130851	0.005456607	0.008236388	0.004324104	0.002573871	0.002213529	0.001377235	0.000154432	0	8.6452E-09	8.6452E-09	0.008645
6038174130851	603817	4130851	0.006854682	0.01034669	0.005432012	0.003233341	0.002780673	0.0017275	0.000194	0	1.08597E-08	1.08597E-08	0.01086
6038674130851	603867	4130851	0.009554271	0.014421541	0.007571309	0.004506732	0.003875789	0.00240691	0.000270404	0	1.51364E-08	1.51364E-08	0.015136
6040674130851	604067	4130851	0.097740659	0.147533071	0.077454862	0.046104085	0.039649513	0.022676663	0.002766245	0	1.54448E-07	1.54448E-07	0.154448
6041174130851	604117	4130851	0.09760777	0.147332483	0.077349554	0.046041401	0.039595605	0.024187631	0.002762484	0	1.54553E-07	1.54553E-07	0.154553
6041674130851	604167	4130851	0.077243925	0.116594604	0.061212167	0.036435814	0.0313348	0.020282432	0.002186149	0	1.22543E-07	1.22543E-07	0.122543
6037174130901	603717	4130901	0.007617827	0.011498607	0.006036769	0.003593315	0.003090251	0.001935298	0.000215599	0	1.20719E-08	1.20719E-08	0.012072
6037674130901	603767	4130901	0.009894574	0.014935207	0.007840984	0.004667252	0.004013837	0.002473046	0.000280035	0	1.56715E-08	1.56715E-08	0.015672
6038174130901	603817	4130901	0.013343953	0.020141815	0.010574453	0.006294317	0.005413113	0.003272377	0.000377659	0	2.1122E-08	2.1122E-08	0.021122
6038674130901	603867	4130901	0.019759366	0.029825458	0.015658365	0.009320456	0.008015592	0.004795696	0.000559227	0	3.12666E-08	3.12666E-08	0.031267
6039174130901	603917	4130901	0.040347052	0.060901211	0.031973136	0.019031628	0.0163672	0.009918455	0.001141898	0	6.38698E-08	6.38698E-08	0.06387
6040174130901	604017	4130901	0.241869958	0.365086729	0.191670533	0.114089603	0.098117058	0.050088841	0.006845376	0	3.80964E-07	3.80964E-07	0.380964
6040674130901	604067	4130901	0.231827001	0.349927549	0.183711963	0.109352359	0.094043029	0.055777007	0.006561142	0	3.66736E-07	3.66736E-07	0.366736
6041174130901	604117	4130901	0.148385895	0.22397871	0.117588823	0.069993347	0.060194278	0.039916914	0.004199601	0	2.356E-07	2.356E-07	0.2356
6041674130901	604167	4130901	0.085502826	0.12906087	0.067756957	0.040331522	0.034685109	0.024144661	0.002419891	0	1.35992E-07	1.35992E-07	0.135992



6042174131201	604217	4131201	0.005155169	0.007781387	0.004085228	0.002431683	0.002091248	0.001460399	0.000145901	0	8.20022E-09	8.20022E-09	0.0082
6042674131201	604267	4131201	0.004253258	0.006420012	0.003370506	0.002006254	0.001725378	0.00120002	0.000120375	0	6.76457E-09	6.76457E-09	0.006765
6043174131201	604317	4131201	0.003560097	0.005373731	0.002821209	0.001679291	0.00144419	0.001000516	0.000100757	0	5.66133E-09	5.66133E-09	0.005661
6038674131251	603867	4131251	0.026741729	0.040364873	0.021191558	0.012614023	0.01084806	0.00775475	0.000756841	0	4.25742E-08	4.25742E-08	0.042574
6039174131251	603917	4131251	0.022298152	0.033657588	0.017670233	0.010517996	0.009045477	0.006474014	0.00063108	0	3.55014E-08	3.55014E-08	0.035501
6040174131251	604017	4131251	0.011836628	0.017866608	0.009379969	0.005583313	0.004801651	0.003401507	0.000334999	0	1.88382E-08	1.88382E-08	0.018838
6040674131251	604067	4131251	0.00838538	0.012657177	0.006645018	0.003955368	0.003401616	0.00239255	0.000237322	0	1.33419E-08	1.33419E-08	0.013342
6041174131251	604117	4131251	0.006346364	0.009579418	0.005029194	0.002993568	0.002574468	0.001802515	0.000179614	0	1.0096E-08	1.0096E-08	0.010096
6041674131251	604167	4131251	0.00507824	0.007665268	0.004024266	0.002395396	0.002060041	0.001437269	0.000143724	0	8.07758E-09	8.07758E-09	0.008078
6042174131251	604217	4131251	0.004194226	0.006330907	0.003323726	0.001978408	0.001701431	0.001183395	0.000118705	0	6.67069E-09	6.67069E-09	0.006671
6042674131251	604267	4131251	0.003536591	0.00533825	0.002802581	0.001668203	0.001434655	0.000995145	0.000100092	0	5.6242E-09	5.6242E-09	0.005624
6038174131301	603817	4131301	0.020647921	0.031166673	0.016362503	0.009739585	0.008376043	0.005926365	0.000584375	0	3.286E-08	3.286E-08	0.03286
6038674131301	603867	4131301	0.018486834	0.027904655	0.014649944	0.008720205	0.007499376	0.005315137	0.000523212	0	2.94226E-08	2.94226E-08	0.029423
6039174131301	603917	4131301	0.015523203	0.02343125	0.012301406	0.007322266	0.006297148	0.004465053	0.000439336	0	2.47063E-08	2.47063E-08	0.024706
6039674131301	603967	4131301	0.012113625	0.018284717	0.009599476	0.0057113974	0.004914018	0.003475718	0.000342838	0	1.92779E-08	1.92779E-08	0.019278
6040174131301	604017	4131301	0.008958607	0.013522425	0.007099273	0.004225758	0.003634152	0.002556501	0.000253545	0	1.42541E-08	1.42541E-08	0.014254
6041174131301	604117	4131301	0.005118441	0.007725948	0.004056123	0.002414359	0.002076349	0.001446879	0.000144862	0	8.14116E-09	8.14116E-09	0.008141
6041674131301	604167	4131301	0.004163241	0.006284137	0.003299172	0.001963793	0.001688862	0.001173566	0.000117828	0	6.62119E-09	6.62119E-09	0.006621
6042174131301	604217	4131301	0.003495989	0.005276965	0.002770407	0.001649052	0.001418184	0.00098305	9.89431E-05	0	5.5595E-09	5.5595E-09	0.005559
6037674131351	603767	4131351	0.016302241	0.024607157	0.012918757	0.007689736	0.006613173	0.004644095	0.000461384	0	2.59369E-08	2.59369E-08	0.025937
6038174131351	603817	4131351	0.015138158	0.02285005	0.011996276	0.007140641	0.006140951	0.004319189	0.000428438	0	2.40862E-08	2.40862E-08	0.024086
6038674131351	603867	4131351	0.013506358	0.020386955	0.010703152	0.006370924	0.005478994	0.003857662	0.000382255	0	2.14907E-08	2.14907E-08	0.021491
6039174131351	603917	4131351	0.011443302	0.017272909	0.009068277	0.005397784	0.004642094	0.003268614	0.000323867	0	1.82081E-08	1.82081E-08	0.018208
6040174131351	604017	4131351	0.007049943	0.010641423	0.005586747	0.003325445	0.002859882	0.002000996	0.000199527	0	1.1215E-08	1.1215E-08	0.011215
6040674131351	604067	4131351	0.005383284	0.008125712	0.004265999	0.002539285	0.002183785	0.00152109	0.000152357	0	8.56227E-09	8.56227E-09	0.008562
6041674131351	604167	4131351	0.00349639	0.00527757	0.002770724	0.001649241	0.001418347	0.000982356	9.89544E-05	0	5.55997E-09	5.55997E-09	0.005556
6038174131401	603817	4131401	0.011550415	0.017434588	0.009153159	0.005448309	0.004685546	0.003279612	0.000326899	0	1.83745E-08	1.83745E-08	0.018375
6038674131401	603867	4131401	0.010305797	0.015555919	0.008166858	0.004861225	0.004180653	0.00292847	0.000291673	0	1.6395E-08	1.6395E-08	0.016395
6041174131401	604117	4131401	0.003597626	0.005430379	0.002850949	0.001696994	0.001459414	0.001010126	0.00010182	0	5.72082E-09	5.72082E-09	0.005721
6044674131401	604467	4131401	0.001459779	0.002203439	0.001156806	0.000688575	0.000592174	0.000405768	4.13145E-05	0	2.32045E-09	2.32045E-09	0.00232
6038674131451	603867	4131451	0.008130152	0.012271928	0.006442762	0.003834977	0.003298081	0.00230069	0.000230099	0	1.2932E-08	1.2932E-08	0.012932
6041674131451	604167	4131451	0.002604763	0.003931718	0.002064152	0.001228662	0.001056649	0.000728299	7.37197E-05	0	4.14138E-09	4.14138E-09	0.004141
6044674131451	604467	4131451	0.001324752	0.001999626	0.001049804	0.000624883	0.0005374	0.000367877	3.7493E-05	0	2.10574E-09	2.10574E-09	0.002106
6042174131501	604217	4131501	0.001999082	0.003017482	0.001584178	0.000942963	0.000810948	0.000557223	5.65778E-05	0	3.17804E-09	3.17804E-09	0.003178
6044174131501	604417	4131501	0.001320078	0.00199257	0.001046099	0.000622678	0.000535503	0.000366415	3.73607E-05	0	2.09827E-09	2.09827E-09	0.002098
6044674131501	604467	4131501	0.001210294	0.001826859	0.000959101	0.000570893	0.000490968	0.000335759	3.42536E-05	0	1.92373E-09	1.92373E-09	0.001924
6040674131551	604067	4131551	0.002879624	0.004346602	0.002281966	0.001358313	0.001168149	0.000804958	8.14988E-05	0	4.57834E-09	4.57834E-09	0.004578
6041174131551	604117	4131551	0.002408568	0.003635574	0.001908676	0.001136117	0.000977061	0.000671992	6.8167E-05	0	3.82914E-09	3.82914E-09	0.003829
6041674131551	604167	4131551	0.002050501	0.003095097	0.001624926	0.000967218	0.000831807	0.000571254	5.80331E-05	0	3.25972E-09	3.25972E-09	0.00326
6042174131551	604217	4131551	0.001791134	0.002703598	0.001419389	0.000844874	0.000726592	0.000498541	5.06925E-05	0	2.8473E-09	2.8473E-09	0.002847
6042674131551	604267	4131551	0.001600014	0.002415115	0.001267935	0.000754723	0.000649062	0.000444938	4.52834E-05	0	2.5434E-09	2.5434E-09	0.002543
6043674131551	604367	4131551	0.001320612	0.001993377	0.001046523	0.00062293	0.00053572	0.000366488	3.73758E-05	0	2.09911E-09	2.09911E-09	0.002099
6044174131551	604417	4131551	0.001209626	0.001825851	0.000958572	0.000570578	0.000490697	0.000335343	3.42347E-05	0	1.92264E-09	1.92264E-09	0.001923
6044674131551	604467	4131551	0.001113465	0.001680702	0.000882369	0.000525219	0.000451689	0.000308537	3.15132E-05	0	1.76975E-09	1.76975E-09	0.00177





2470 Alven Avenue Construction Health Risk Assessment - Unmitigated Residential/School

Cancer Risk Summary & Maximum Annual GLC for Chronic Calculations

Cancer Risk Summary

Table with columns: XY, X, Y, Offroad Risk, Haul Risk, Total Risk. Max Risk: 5.29. Contains 100 rows of risk data.

69

Max GLC for Chronic Calcs

Table with columns: XY, X, Y, 2024, 2025, 2026. Max GLC: 0.286989. Contains 100 rows of maximum GLC data.







6037894130634	603789	4130634	0.09670511	0.016153761	0.112858871	599250.184133542.42	599250.18	4133542.4	0.0053033	0.000989	0
6038394130634	603839	4130634	0.112724898	0.016615844	0.129340742	599050.184133442.42	599050.18	4133442.4	0.0061792	0.0011504	0
6038894130634	603889	4130634	0.133703941	0.016591369	0.150295309	599470.184133382.42	599470.18	4133382.4	0.0073259	0.0013615	0
6039394130634	603939	4130634	0.165976216	0.016290802	0.182267017	599370.184133182.42	599370.18	4133182.4	0.0090888	0.0016852	0
6039894130634	603989	4130634	0.22007766	0.01592267	0.23600033	599470.184133142.42	599470.18	4133142.4	0.012043	0.0022251	0
6038394130684	603839	4130684	0.148016832	0.023186589	0.171203421	599410.184133162.42	599410.18	4133162.4	0.0081192	0.0015091	0
6038894130684	603889	4130684	0.18098069	0.022147662	0.203128352	599550.184133322.42	599550.18	4133322.4	0.0099226	0.0018403	0
6039394130684	603939	4130684	0.234504658	0.021168893	0.255673551	599570.184133302.42	599570.18	4133302.4	0.0128493	0.0023764	0
6039894130684	603989	4130684	0.329108665	0.020429446	0.349538111	599110.184133582.42	599110.18	4133582.4	0.0180195	0.0033176	0
6037394130734	603739	4130734	0.135633386	0.037413366	0.173046752	599130.184133582.42	599130.18	4133582.4	0.0074536	0.0013875	0
6038894130734	603889	4130734	0.257313781	0.02909877	0.286412551	599090.184133582.42	599090.18	4133582.4	0.0141216	0.0026131	0
6039394130734	603939	4130734	0.352664933	0.02754554	0.380210473	599130.184133362.42	599130.18	4133362.4	0.0193426	0.0035665	0
6039894130734	603989	4130734	0.532776119	0.026687748	0.559463866	599530.184133342.42	599530.18	4133342.4	0.0291943	0.0053497	0