Appendix A
Air Quality Modeling Files

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Bay Area Air Quality Management District

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

• County: Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.

• Roadway Direction: Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.

• Side of the Roadway: Identify on which side of the roadway the project is located.

• Distance from Roadway: Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.

• Annual Average Daily Traffic (ADT): Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.

Notes and References listed below the Search Boxes

Search Parameters

County		
Roadway Direction		
Side of the Roadway		
Distance from Roadway	55	feet
Annual Average Daily Traffic (ADT)	41,500	

Results

Santa Clara County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

0.421 ($\mu g/m^3$)

Cancer Risk

16.61 (per million)

Data for Santa Clara County based on meteorological data collected from San Jose Airport in 1997

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

FID	OBJECTID	FACID	Name	Address	City	St	Zip	County	Cancer	Hazard	PM_25	Type	Latitude	Longitude	x	y	UTM X	UTM Y
1034	1,034	10004	Technibuil	1049 Felip	San Jose	CA	95122	Santa Clar	1.16	0	0	Contact B/	37.335	-121.85	-1.4E+07	4485952	601873.7	4132656
3942	3,942	18942	Verizon W	912 Olinde	San Jose	CA	95122	Santa Clar	1.15	0	0	Generator	37.336	-121.853	-1.4E+07	4486008	601606.5	4132764
8356	8,356	111958	76 Station	1299 Story	San Jose	CA	95122	Santa Clar	18.34	0.08	0	Gas Dispe	37.334	-121.852	-1.4E+07	4485789	601697.8	4132543

New FS-32 Project (1138 Olinder Ct) CEQA Data Tracking

(Updated December 8, 2021)

Data	Responsible Party	Estimated Submittal Date	Status
Preliminary Site Plan	Public Works		Received, 8/20/21
Architectural Plan Set	SKA	end of October	Received Jan 2022
Preliminary building height (maximum)	SKA	mid September	24 ft received Jan 2022
Operational Details: • Shift start and end times • Number of employees per shift • **Estimated number of fire/emergency/medical calls per hour and per day** • Estimated specifications for on-site generator	SJFD	mid September	SEE PD 8am to 8am (48 hr shift)/ 8 per shift/calls TBD/2000 gallons to 2400 gallon tank combined/regular monthly testing
Geotech Report	ENGEO	mid October	Received, 11/1/21
Phase I/II	Cornerstone	mid September	Cornerstone info provided.
Construction Detail (for AQ/Noise)	Public Works		Received, 12/3/21
Cumulative Projects List	Planning		Ask planning if there are any nearby projects we should be aware of.
Bicycle Parking Spaces			

Complete

Action/Confirmation Required

New FS-32 Project (1138 Olinder Ct) - Data Request for AQ/HRA

Operation

1. **Please provide the number and size of generators.**
2. **Please provide known or expected sustainability features of the project - LEED certification, photovoltaic panels, low-e glass for windows, stormwater management to reduce outdoor water use, etc.**

Construction

Please enter data only in highlighted cells. Please confirm values in green cells.

Data available. Please confirm. | Data Needed | ESA to calculate

Proposed Land Uses	Area	Units	
Fire Station	7,827	sqft	
Parking	17	spaces	

Project Site Area	1.10 acres	acres	48,305 sq. ft.
Area to be demolished	36,600	sqft	
Total Demo Volume (off-haul)	0	tons	
Total Proposed total building area	7,827	sqft	
Volume of infill to be brought in	100	cubic yards	
Volume of material to be exported	975	cubic yards	

The disturbance area for the project site includes approximately 0.87 acres (38,106 square feet).

From PD

1.12 acre

Vehicle Parking	17 stalls	17 stalls

0.97

Construction schedule	Ph. 1: Soil Remediation	Ph. 2: Building Const.
Start date of construction	6/1/2022	3/1/2023
First year of operation	6/1/2024	3/1/2024

Construction Phase	From	To	# of days	
Demolition (part of Ph.1)	6/1/2022	8/1/2022	44	44
Site Preparation/Grading	3/1/2023	4/30/2023	43	43
Building Construction	4/1/2023	4/1/2024	261	261
Paving (1)	11/1/2023	12/1/2023		23
Architectural Coating (1)	11/1/2023	12/1/2023		23

(1): within time frame of Bldg. Const. (there should not be any added days) 348

Dates above are best estimate to date.

Construction Equipment

Please list the types of construction equipment that would be used for each phase by selecting from the drop down menu in each cell

Demolition (part of Ph.1)

Equipment	Number	No. of Days used	Hrs/day used
Concrete/Industrial Saws	1		
Rubber Tired Dozers	1		
Tractors/Loaders/Backhoes	2		

Site Preparation/Grading

Equipment	Number	No. of Days used	Hrs/day used
Graders	1		
Tractors/Loaders/Backhoes	1		

Building Construction

Equipment	Number	No. of Days used	Hrs/day used
Cranes	1		
Forklifts	2		
Tractors/Loaders/Backhoes	2		

Paving (1)

Equipment	Number	No. of Days used	Hrs/day used
Cement and Mortar Mixers	4		
Pavers	1		
Tractors/Loaders/Backhoes	2		

Architectural Coating (1)

Equipment	Number	No. of Days used	Hrs/day used
Air Compressors	1		

Construction Vehicle Trips

Please provide the number **trips (2-way)** associated with workers, material delivery and hauling during each construction phase

Construction Phase	worker trips/day	Vendor Truck Trips/day	Hauling Truck trips/day
Demolition (part of Ph.1)			
Site Preparation/Grading			
Building Construction			
Paving (1)			
Architectural Coating (1)			

Entrained Dust Calculation
FS-8 Relocation
Santa Clara County

Road Dust Equation

E [lb/VMT] = k*(sL)^0.91 * (W)^1.02 * (1-P/4N)

Where:
E = the particulate emission factor in units of pounds of particulate matter per VMT
k = the U.S. EPA AP-42 particle size multiplier (PM_{10} = 0.0022 lb/VMT),[1]
sL = the roadway-specific silt loading in grams/square meter (g/m^2),[2,3,4,5]
W = the average weight of vehicles traveling the road (California statewide default = 2.4 tons),[5]
P = number of "wet" days, when at least one site per county received at least 0.01 inch of precipitation during the annual averaging period,[9] and
N = the number of days in the annual averaging period (default = 365)

Source: California Air Resources Board (CARB), Miscellaneous Process Methodology 7.9 — Entrained Road Travel, Paved Road Dust. Revised and updated March 2018, https://ww3.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2018.pdf.

Silt Loading Factor

Source: CARB, 2018.

Table 3: California Default Statewide and Local Silt Loading Values

Silt Loadings (g/m2)			
Freeway	**Major**	**Collector**	**Local**
0.015	0.032	0.032	0.32

2008 HPMS Travel Fractions			
0.434	0.449	0.054	0.064

Re-entrained PAVED Road Dust Emission Factors

Methodology

Calculation Methodology: USEPA AP-42, Paved Roads, Section 13.2.1, Revised January 2011:
http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0201.pdf

K-value from CARB, 2018.

Pollutant	Variables					E_{ext} (g/mi)
	k	sL	W	P	N	
PM10	1.00	0.043086	2.4	64	365	**0.13353**
PM2.5	0.15	0.043086	2.4	64	365	**0.02003**

From TABLE 7

E_{ext} (lb/10^6 VMT)
112.2
16.83

Where:	**Source**
E = particulate emission factor (grams of particulate matter/VMT)	*calculation*
	Table 13.2.1-1 Particle Size Multipliers for Paved Road Equation of USEPA, 2011.
k = particle size multiplier (g/VMT)	
sL = local roadway silt loading (g/m2)	*CARB, 2018.*
W = average weight of vehicles on the road (tons)	*CARB, 2018.*
P = number of wet days with at least 0.254mm of precipitation	*Table 8 of CARB, 2018.*
N = number of days in the averaging period	annual days (365)

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

											RUNEX	IDLEX	STREX	RUNEX	IDLEX	STREX	PMTW	PMBW	RUNEX	IDLEX	STREX	PMTW	PMBW	RUNEX	IDLEX	STREX	RUNEX	IDLEX	STREX	RUNEX	IDLEX	STREX	RUNEX	IDLEX	STREX	HOTSOAK	RUNLOSS	DIURN	RUNEX	IDLEX	STREX	HOTSOAK	RUNLOSS	DIURN	RUNEX	RUNEX	IDLEX	STREX	RUNEX	IDLEX	STREX
											gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/tri	gram/mi	gram/tri	gram/mi	gram/tri	gram/tri	gram/tri	gram/mi	gram/tri	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/trip
Region	Calendar	Vehicle C	Model Ye	Speed	Fuel	Populatio	Total VM	CVMT	EVMT	Trips	NOx_RU	NOx_IDL	NOx_STR	PM2.5_R	PM2.5_ID	PM2.5_S	PM2.5_P	PM2.5_P	PM10_RU	PM10_ID	PM10_ST	PM10_P	PM10_P	CO2_RUN	CO2_IDL	CO2_STR	CH4_RUN	CH4_IDLE	CH4_STR	N2O_RU	N2O_IDL	N2O_STR	ROG_RU	ROG_IDL	ROG_STF	ROG_HO	ROG_RU	ROG_DIU	TOG_RU	TOG_IDL	TOG_STR	TOG_HO	TOG_RU	TOG_DIU	NH3_RU	CO_RUN	CO_IDLE	CO_STR	SOx_RUN	SOx_IDLE	SOx_STREX
Santa Cla	2024	HHDT	Aggregat	Aggregat	Gasoline	2.58871	115.153	115.153	0	51.7949	7.01372	0	1.69563	0.00361	0	0.00143	0.005	0.03384	0.00393	0	0.00156	0.02	0.09669	2166.16	0	50.0442	0.24601	0	0.00021	0.19293	0	0.0498	1.47824	0	0.00112	0.14902	1.34233	10.0255	2.15705	0	0.00122	0.14902	1.34233	10.0255	0.04274	52.519	0	1.60109	0.02141	0	0.00049
Santa Cla	2024	HHDT	Aggregat	Aggregat	Diesel	8486.69	1001095	1001095	0	124748	1.89457	62.8837	2.89887	0.02567	0.03017	0	0.00877	0.02745	0.02683	0.03153	0	0.03508	0.07844	1634.1	11997	0	0.00078	0.23663	0	0.25745	1.89013	0	0.01673	5.09458	0	0	0	0	0.01905	5.7998	0	0	0	0	0.21508	0.08252	74.1058	0	0.01547	0.1136	0
Santa Cla	2024	HHDT	Aggregat	Aggregat	Electricit	28.3304	2794.26	0	2794.26	378.795	0	0	0	0	0	0	0.00859	0.01406	0	0	0	0.03434	0.04016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Cla	2024	HHDT	Aggregat	Aggregat	Natural G	794.401	54591.3	54591.3	0	7249.72	1.12825	13.5551	0	0.00172	0.02478	0	0.009	0.04752	0.00187	0.02695	0	0.036	0.13578	1387.53	10583.6	0	2.34474	36.3028	0	0.28286	2.15754	0	0.05083	0.5507	0	0	0	0	2.41273	37.0861	0	0	0	0	0.85184	13.402	74.4313	0	0	0	0

				NOx	NOx	NOx	PM2.5	PM2.5	PM2.5	PM2.5 fu	PM2.5 fu	PM10	PM10	PM10	PM10 fu	PM10 fu	CO2	CO2	CO2	CH4	CH4	CH4	N2O	N2O	N2O	ROG	ROG	ROG	ROG	ROG	ROG	TOG	TOG	TOG	TOG	TOG	TOG	NH3	CO	CO	CO	SOx	SOx	SOx
				gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/tri	gram/tri	gram/mi	gram/tri	gram/mi	gram/tri	gram/tri	gram/tri	gram/mi	gram/tri	gram/mi	gram/mi	gram/tri	gram/tri	gram/mi	gram/tri	gram/trip
Region	Calendar	Vehicle C	lookup	NOx_RU	NOx_IDL	NOx_STR	PM2.5_R	PM2.5_ID	PM2.5_S	PM2.5_P	PM2.5_P	PM10_RU	PM10_ID	PM10_ST	PM10_P	PM10_P	CO2_RUN	CO2_IDL	CO2_STR	CH4_RUN	CH4_IDLE	CH4_STR	N2O_RU	N2O_IDL	N2O_STR	ROG_RU	ROG_IDL	ROG_STF	ROG_HO	ROG_RU	ROG_DIU	TOG_RU	TOG_IDL	TOG_STR	TOG_HO	TOG_RU	TOG_DIU	NH3_RU	CO_RUN	CO_IDLE	CO_STR	SOx_RUN	SOx_IDLE	SOx_STREX
Santa Cla	2024	HHDT	2024_HHDT	1.8506	59.9787	2.73141	0.02437	0.02978	5.6E-07	0.00878	0.02845	0.02547	0.03118	6.1E-07	0.03513	0.0813	1617.13	11880.6	0.01957	0.12168	2.21028	8E-08	0.25808	1.89863	1.9E-05	0.01861	4.82927	4.4E-07	5.8E-05	0.00015	0.00392	0.14267	7.49369	4.8E-07	5.8E-05	0.00015	0.00392	0.24734	0.77489	73.8826	0.00063	0.01464	0.10702	1.9E-07

ROG	NOX	PM10	PM2.5
gram/mi	gram/mi	gram/mi	gram/mile
0.01875	1.8506	0.15901	0.0444

ROG	NOX	PM10	PM2.5
gram/tri	gram/tri	gram/tri	gram/trip
4.83325	62.7102	0.03118	0.02978

RUNEX	gram/mile
IDLEX	gram/trip
STREX	gram/trip
PMTW	gram/mile
PMBW	gram/mile
HOTSOAK	gram/trip
RUNLOSS	gram/mile
DIURN	gram/trip

EMFAC2017 Acronyms For Each Vehicle Emission Type	EMFAC2017 Description of Each Vehicle Emission Type	EMFAC2017 Emission Rate Unit	CalEEMod Emission Factor Unit
RUNEX	Running Exhaust	grams/mile	grams/mile
PMBW	PM Brakewear	grams/mile	grams/mile
PMTW	PM Tirewear	grams/mile	grams/mile
STREX	Start Exhaust	grams/trip	grams/trip
HTSK	Hot Soak Evaporative	grams/trip	grams/trip
RUNLS	Running Loss Evaporative	grams/trip	grams/mile
IDLEX	Idle Exhaust	grams/vehicle/day	grams/trip
RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip
VMT	Vehicle Miles Traveled	miles/day	miles (per day, per season, or per year)
Trip	Total trips per day of a vehicle class	trips/day	trips (per day, per season, or per year)
Population	Vehicle Population	vehicle	vehicle

FS-32 - 1138 Olinder Ct - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

FS-32 - 1138 Olinder Ct

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	7.83	1000sqft	0.97	7,827.00	8
Parking Lot	17.00	Space	0.15	6,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Lot acreage = 1.12 from PD, 8 dorms

Construction Phase - from data request response

Off-road Equipment -

Off-road Equipment - from data request response

Off-road Equipment - from data request response

Off-road Equipment - from data request response

Off-road Equipment - from data request response

Demolition -

Grading - The disturbance area for the project site includes approximately 0.87 acres (38,106 square feet).

Construction Off-road Equipment Mitigation - Tier 4 MM

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Stationary Sources - Emergency Generators and Fire Pumps - 125 KW EDG

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	200.00	261.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	2.00	43.00
tblGrading	AcresOfGrading	21.50	0.87
tblGrading	MaterialExported	0.00	975.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblGrading	MaterialImported	0.00	100.00
tblLandUse	LandUseSquareFeet	7,830.00	7,827.00
tblLandUse	LotAcreage	0.18	0.97
tblLandUse	Population	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0345	0.3436	0.2662	5.3000e-004	0.0212	0.0166	0.0378	3.5800e-003	0.0155	0.0191	0.0000	46.9625	46.9625	0.0101	8.7000e-004	47.4734
2023	0.1285	0.8755	0.8430	1.6200e-003	9.3900e-003	0.0403	0.0497	2.4600e-003	0.0371	0.0396	0.0000	142.3390	142.3390	0.0411	1.3400e-003	143.7669
2024	0.0205	0.2054	0.2153	4.0000e-004	1.7400e-003	9.4500e-003	0.0112	4.7000e-004	8.6900e-003	9.1700e-003	0.0000	35.0225	35.0225	0.0106	2.2000e-004	35.3528
Maximum	**0.1285**	**0.8755**	**0.8430**	**1.6200e-003**	**0.0212**	**0.0403**	**0.0497**	**3.5800e-003**	**0.0371**	**0.0396**	**0.0000**	**142.3390**	**142.3390**	**0.0411**	**1.3400e-003**	**143.7669**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	6.3300e-003	0.0380	0.2806	5.3000e-004	0.0212	8.5000e-004	0.0220	3.5800e-003	8.5000e-004	4.4200e-003	0.0000	46.9624	46.9624	0.0101	8.7000e-004	47.4734
2023	0.0626	0.0962	0.9455	1.6200e-003	9.3900e-003	2.5300e-003	0.0119	2.4600e-003	2.5200e-003	4.9800e-003	0.0000	142.3389	142.3389	0.0411	1.3400e-003	143.7668
2024	5.0200e-003	0.0230	0.2421	4.0000e-004	1.7400e-003	6.3000e-004	2.3800e-003	4.7000e-004	6.3000e-004	1.1000e-003	0.0000	35.0225	35.0225	0.0106	2.2000e-004	35.3528
Maximum	**0.0626**	**0.0962**	**0.9455**	**1.6200e-003**	**0.0212**	**2.5300e-003**	**0.0220**	**3.5800e-003**	**2.5200e-003**	**4.9800e-003**	**0.0000**	**142.3389**	**142.3389**	**0.0411**	**1.3400e-003**	**143.7668**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**59.70**	**88.97**	**-10.85**	**0.00**	**0.00**	**93.95**	**63.16**	**0.00**	**93.48**	**84.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.3801	0.0441
4	**3-1-2023**	**5-31-2023**	0.3114	0.0413
5	**6-1-2023**	**8-31-2023**	0.2418	0.0278
6	**9-1-2023**	**11-30-2023**	0.3623	0.0767
7	**12-1-2023**	**2-29-2024**	0.2323	0.0294
8	**3-1-2024**	**5-31-2024**	0.0782	0.0097
		Highest	0.3801	0.0767

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0353	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004
Energy	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	19.4208	19.4208	2.1800e-003	3.7000e-004	19.5862
Mobile	0.0437	0.0433	0.3787	7.3000e-004	0.0801	5.4000e-004	0.0806	0.0214	5.0000e-004	0.0219	0.0000	68.5226	68.5226	4.9500e-003	3.4600e-003	69.6773
Stationary	6.8900e-003	0.0193	0.0250	3.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	3.1987	3.1987	4.5000e-004	0.0000	3.2099
Waste						0.0000	0.0000		0.0000	0.0000	1.4778	0.0000	1.4778	0.0873	0.0000	3.6611
Water						0.0000	0.0000		0.0000	0.0000	0.4935	1.0875	1.5810	0.0509	1.2200e-003	3.2155
Total	**0.0866**	**0.0688**	**0.4091**	**8.0000e-004**	**0.0801**	**2.0200e-003**	**0.0821**	**0.0214**	**1.9800e-003**	**0.0234**	**1.9713**	**92.2301**	**94.2013**	**0.1458**	**5.0500e-003**	**99.3505**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0353	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004
Energy	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	19.4208	19.4208	2.1800e-003	3.7000e-004	19.5862
Mobile	0.0437	0.0433	0.3787	7.3000e-004	0.0801	5.4000e-004	0.0806	0.0214	5.0000e-004	0.0219	0.0000	68.5226	68.5226	4.9500e-003	3.4600e-003	69.6773
Stationary	6.8900e-003	0.0193	0.0250	3.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	3.1987	3.1987	4.5000e-004	0.0000	3.2099
Waste						0.0000	0.0000		0.0000	0.0000	1.4778	0.0000	1.4778	0.0873	0.0000	3.6611
Water						0.0000	0.0000		0.0000	0.0000	0.4935	1.0875	1.5810	0.0509	1.2200e-003	3.2155
Total	**0.0866**	**0.0688**	**0.4091**	**8.0000e-004**	**0.0801**	**2.0200e-003**	**0.0821**	**0.0214**	**1.9800e-003**	**0.0234**	**1.9713**	**92.2301**	**94.2013**	**0.1458**	**5.0500e-003**	**99.3505**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	8/1/2022	5	44	
2	Site Preparation	Site Preparation	3/1/2023	4/28/2023	5	43	

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3	Building Construction	Building Construction	4/1/2023	4/1/2024	5	261	
4	Paving	Paving	11/1/2023	12/1/2023	5	23	
5	Architectural Coating	Architectural Coating	11/1/2023	12/1/2023	5	23	

Acres of Grading (Site Preparation Phase): 0.87

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.15

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,741; Non-Residential Outdoor: 3,914; Striped Parking Area: 408 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	166.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	134.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0180	0.0000	0.0180	2.7300e-003	0.0000	2.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0335	0.3288	0.2579	4.6000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	40.3588	40.3588	9.8700e-003	0.0000	40.6056
Total	**0.0335**	**0.3288**	**0.2579**	**4.6000e-004**	**0.0180**	**0.0165**	**0.0345**	**2.7300e-003**	**0.0154**	**0.0181**	**0.0000**	**40.3588**	**40.3588**	**9.8700e-003**	**0.0000**	**40.6056**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9000e-004	0.0144	3.0200e-003	5.0000e-005	1.4100e-003	1.3000e-004	1.5400e-003	3.9000e-004	1.2000e-004	5.1000e-004	0.0000	5.2240	5.2240	1.8000e-004	8.3000e-004	5.4752
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.3000e-004	5.3100e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3797	1.3797	4.0000e-005	4.0000e-005	1.3926
Total	**9.8000e-004**	**0.0148**	**8.3300e-003**	**6.0000e-005**	**3.1500e-003**	**1.4000e-004**	**3.2900e-003**	**8.5000e-004**	**1.3000e-004**	**9.8000e-004**	**0.0000**	**6.6037**	**6.6037**	**2.2000e-004**	**8.7000e-004**	**6.8679**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0180	0.0000	0.0180	2.7300e-003	0.0000	2.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3500e-003	0.0232	0.2723	4.6000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	40.3587	40.3587	9.8700e-003	0.0000	40.6055
Total	**5.3500e-003**	**0.0232**	**0.2723**	**4.6000e-004**	**0.0180**	**7.1000e-004**	**0.0187**	**2.7300e-003**	**7.1000e-004**	**3.4400e-003**	**0.0000**	**40.3587**	**40.3587**	**9.8700e-003**	**0.0000**	**40.6055**

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9000e-004	0.0144	3.0200e-003	5.0000e-005	1.4100e-003	1.3000e-004	1.5400e-003	3.9000e-004	1.2000e-004	5.1000e-004	0.0000	5.2240	5.2240	1.8000e-004	8.3000e-004	5.4752
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.3000e-004	5.3100e-003	1.0000e-005	1.7400e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3797	1.3797	4.0000e-005	4.0000e-005	1.3926
Total	**9.8000e-004**	**0.0148**	**8.3300e-003**	**6.0000e-005**	**3.1500e-003**	**1.4000e-004**	**3.2900e-003**	**8.5000e-004**	**1.3000e-004**	**9.8000e-004**	**0.0000**	**6.6037**	**6.6037**	**2.2000e-004**	**8.7000e-004**	**6.8679**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2000e-004	0.0000	5.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1331	0.0844	2.1000e-004		4.8700e-003	4.8700e-003		4.4800e-003	4.4800e-003	0.0000	18.3816	18.3816	5.9400e-003	0.0000	18.5303
Total	**0.0115**	**0.1331**	**0.0844**	**2.1000e-004**	**5.2000e-004**	**4.8700e-003**	**5.3900e-003**	**6.0000e-005**	**4.4800e-003**	**4.5400e-003**	**0.0000**	**18.3816**	**18.3816**	**5.9400e-003**	**0.0000**	**18.5303**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	9.1100e-003	2.1100e-003	4.0000e-005	1.1400e-003	7.0000e-005	1.2100e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	4.0123	4.0123	1.4000e-004	6.4000e-004	4.2053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	2.4100e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6572	0.6572	2.0000e-005	2.0000e-005	0.6631
Total	**4.1000e-004**	**9.3000e-003**	**4.5200e-003**	**5.0000e-005**	**1.9900e-003**	**7.0000e-005**	**2.0700e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**	**0.0000**	**4.6695**	**4.6695**	**1.6000e-004**	**6.6000e-004**	**4.8684**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2000e-004	0.0000	5.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0111	0.1143	2.1000e-004		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	18.3816	18.3816	5.9400e-003	0.0000	18.5302
Total	**2.5600e-003**	**0.0111**	**0.1143**	**2.1000e-004**	**5.2000e-004**	**3.4000e-004**	**8.6000e-004**	**6.0000e-005**	**3.4000e-004**	**4.0000e-004**	**0.0000**	**18.3816**	**18.3816**	**5.9400e-003**	**0.0000**	**18.5302**

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	9.1100e-003	2.1100e-003	4.0000e-005	1.1400e-003	7.0000e-005	1.2100e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	4.0123	4.0123	1.4000e-004	6.4000e-004	4.2053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.9000e-004	2.4100e-003	1.0000e-005	8.5000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6572	0.6572	2.0000e-005	2.0000e-005	0.6631
Total	**4.1000e-004**	**9.3000e-003**	**4.5200e-003**	**5.0000e-005**	**1.9900e-003**	**7.0000e-005**	**2.0700e-003**	**5.4000e-004**	**7.0000e-005**	**6.1000e-004**	**0.0000**	**4.6695**	**4.6695**	**1.6000e-004**	**6.6000e-004**	**4.8684**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0628	0.6440	0.6279	1.1000e-003		0.0314	0.0314		0.0289	0.0289	0.0000	96.7229	96.7229	0.0313	0.0000	97.5049
Total	**0.0628**	**0.6440**	**0.6279**	**1.1000e-003**		**0.0314**	**0.0314**		**0.0289**	**0.0289**	**0.0000**	**96.7229**	**96.7229**	**0.0313**	**0.0000**	**97.5049**

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	8.6900e-003	2.7400e-003	4.0000e-005	1.2800e-003	5.0000e-005	1.3300e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.8772	3.8772	8.0000e-005	5.7000e-004	4.0490
Worker	1.2200e-003	8.5000e-004	0.0109	3.0000e-005	3.8700e-003	2.0000e-005	3.8900e-003	1.0300e-003	2.0000e-005	1.0500e-003	0.0000	2.9804	2.9804	8.0000e-005	8.0000e-005	3.0069
Total	**1.4300e-003**	**9.5400e-003**	**0.0137**	**7.0000e-005**	**5.1500e-003**	**7.0000e-005**	**5.2200e-003**	**1.4000e-003**	**7.0000e-005**	**1.4700e-003**	**0.0000**	**6.8576**	**6.8576**	**1.6000e-004**	**6.5000e-004**	**7.0559**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0135	0.0585	0.7025	1.1000e-003		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	96.7228	96.7228	0.0313	0.0000	97.5048
Total	**0.0135**	**0.0585**	**0.7025**	**1.1000e-003**		**1.8000e-003**	**1.8000e-003**		**1.8000e-003**	**1.8000e-003**	**0.0000**	**96.7228**	**96.7228**	**0.0313**	**0.0000**	**97.5048**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-004	8.6900e-003	2.7400e-003	4.0000e-005	1.2800e-003	5.0000e-005	1.3300e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.8772	3.8772	8.0000e-005	5.7000e-004	4.0490
Worker	1.2200e-003	8.5000e-004	0.0109	3.0000e-005	3.8700e-003	2.0000e-005	3.8900e-003	1.0300e-003	2.0000e-005	1.0500e-003	0.0000	2.9804	2.9804	8.0000e-005	8.0000e-005	3.0069
Total	**1.4300e-003**	**9.5400e-003**	**0.0137**	**7.0000e-005**	**5.1500e-003**	**7.0000e-005**	**5.2200e-003**	**1.4000e-003**	**7.0000e-005**	**1.4700e-003**	**0.0000**	**6.8576**	**6.8576**	**1.6000e-004**	**6.5000e-004**	**7.0559**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0200	0.2022	0.2110	3.7000e-004		9.4200e-003	9.4200e-003		8.6700e-003	8.6700e-003	0.0000	32.7453	32.7453	0.0106	0.0000	33.0100
Total	**0.0200**	**0.2022**	**0.2110**	**3.7000e-004**		**9.4200e-003**	**9.4200e-003**		**8.6700e-003**	**8.6700e-003**	**0.0000**	**32.7453**	**32.7453**	**0.0106**	**0.0000**	**33.0100**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.9400e-003	9.1000e-004	1.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.2930	1.2930	3.0000e-005	1.9000e-004	1.3502
Worker	3.9000e-004	2.6000e-004	3.4500e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	0.9843	0.9843	3.0000e-005	3.0000e-005	0.9926
Total	**4.6000e-004**	**3.2000e-003**	**4.3600e-003**	**2.0000e-005**	**1.7400e-003**	**3.0000e-005**	**1.7600e-003**	**4.8000e-004**	**3.0000e-005**	**4.9000e-004**	**0.0000**	**2.2772**	**2.2772**	**6.0000e-005**	**2.2000e-004**	**2.3428**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.5700e-003	0.0198	0.2378	3.7000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	32.7452	32.7452	0.0106	0.0000	33.0100
Total	**4.5700e-003**	**0.0198**	**0.2378**	**3.7000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**32.7452**	**32.7452**	**0.0106**	**0.0000**	**33.0100**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.9400e-003	9.1000e-004	1.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.3000e-004	2.0000e-005	1.4000e-004	0.0000	1.2930	1.2930	3.0000e-005	1.9000e-004	1.3502
Worker	3.9000e-004	2.6000e-004	3.4500e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	0.9843	0.9843	3.0000e-005	3.0000e-005	0.9926
Total	**4.6000e-004**	**3.2000e-003**	**4.3600e-003**	**2.0000e-005**	**1.7400e-003**	**3.0000e-005**	**1.7600e-003**	**4.8000e-004**	**3.0000e-005**	**4.9000e-004**	**0.0000**	**2.2772**	**2.2772**	**6.0000e-005**	**2.2000e-004**	**2.3428**

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1600e-003	0.0643	0.0868	1.4000e-004		3.0000e-003	3.0000e-003		2.8000e-003	2.8000e-003	0.0000	11.4354	11.4354	3.3500e-003	0.0000	11.5191
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.3600e-003**	**0.0643**	**0.0868**	**1.4000e-004**		**3.0000e-003**	**3.0000e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**11.4354**	**11.4354**	**3.3500e-003**	**0.0000**	**11.5191**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	4.6300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2655	1.2655	4.0000e-005	3.0000e-005	1.2768
Total	**5.2000e-004**	**3.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2655**	**1.2655**	**4.0000e-005**	**3.0000e-005**	**1.2768**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3700e-003	5.9400e-003	0.0846	1.4000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.4353	11.4353	3.3500e-003	0.0000	11.5191
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.5700e-003**	**5.9400e-003**	**0.0846**	**1.4000e-004**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**11.4353**	**11.4353**	**3.3500e-003**	**0.0000**	**11.5191**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.6000e-004	4.6300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2655	1.2655	4.0000e-005	3.0000e-005	1.2768
Total	**5.2000e-004**	**3.6000e-004**	**4.6300e-003**	**1.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6500e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2655**	**1.2655**	**4.0000e-005**	**3.0000e-005**	**1.2768**

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	0.0150	0.0208	3.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	2.9362	2.9362	1.8000e-004	0.0000	2.9406
Total	**0.0444**	**0.0150**	**0.0208**	**3.0000e-005**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**2.9362**	**2.9362**	**1.8000e-004**	**0.0000**	**2.9406**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0703	0.0703	0.0000	0.0000	0.0709
Total	**3.0000e-005**	**2.0000e-005**	**2.6000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0703**	**0.0703**	**0.0000**	**0.0000**	**0.0709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	1.4800e-003	0.0211	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9362	2.9362	1.8000e-004	0.0000	2.9406
Total	**0.0426**	**1.4800e-003**	**0.0211**	**3.0000e-005**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**	**0.0000**	**2.9362**	**2.9362**	**1.8000e-004**	**0.0000**	**2.9406**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0703	0.0703	0.0000	0.0000	0.0709
Total	**3.0000e-005**	**2.0000e-005**	**2.6000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0703**	**0.0703**	**0.0000**	**0.0000**	**0.0709**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0437	0.0433	0.3787	7.3000e-004	0.0801	5.4000e-004	0.0806	0.0214	5.0000e-004	0.0219	0.0000	68.5226	68.5226	4.9500e-003	3.4600e-003	69.6773
Unmitigated	0.0437	0.0433	0.3787	7.3000e-004	0.0801	5.4000e-004	0.0806	0.0214	5.0000e-004	0.0219	0.0000	68.5226	68.5226	4.9500e-003	3.4600e-003	69.6773

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	176.88	0.00	0.00	216,663	216,663
Parking Lot	0.00	0.00	0.00		
Total	176.88	0.00	0.00	216,663	216,663

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.572464	0.055653	0.187060	0.115672	0.020329	0.005102	0.007934	0.006404	0.000900	0.000380	0.024412	0.000914	0.002776
Parking Lot	0.572464	0.055653	0.187060	0.115672	0.020329	0.005102	0.007934	0.006404	0.000900	0.000380	0.024412	0.000914	0.002776

5.0 Energy Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.6544	12.6544	2.0500e-003	2.5000e-004	12.7796
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.6544	12.6544	2.0500e-003	2.5000e-004	12.7796
NaturalGas Mitigated	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7664	6.7664	1.3000e-004	1.2000e-004	6.8066
NaturalGas Unmitigated	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7664	6.7664	1.3000e-004	1.2000e-004	6.8066

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	126797	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7664	6.7664	1.3000e-004	1.2000e-004	6.8066
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**6.8000e-004**	**6.2200e-003**	**5.2200e-003**	**4.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**6.7664**	**6.7664**	**1.3000e-004**	**1.2000e-004**	**6.8066**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government Office Building	126797	6.8000e-004	6.2200e-003	5.2200e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7664	6.7664	1.3000e-004	1.2000e-004	6.8066
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**6.8000e-004**	**6.2200e-003**	**5.2200e-003**	**4.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**6.7664**	**6.7664**	**1.3000e-004**	**1.2000e-004**	**6.8066**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	134390	12.4342	2.0100e-003	2.4000e-004	12.5572
Parking Lot	2380	0.2202	4.0000e-005	0.0000	0.2224
Total		**12.6544**	**2.0500e-003**	**2.4000e-004**	**12.7796**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	134390	12.4342	2.0100e-003	2.4000e-004	12.5572
Parking Lot	2380	0.2202	4.0000e-005	0.0000	0.2224
Total		**12.6544**	**2.0500e-003**	**2.4000e-004**	**12.7796**

6.0 Area Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0353	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004
Unmitigated	0.0353	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004
Total	**0.0353**	**0.0000**	**2.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0310					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.4000e-004	4.4000e-004	0.0000	0.0000	4.7000e-004
Total	**0.0353**	**0.0000**	**2.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5810	0.0509	1.2200e-003	3.2155
Unmitigated	1.5810	0.0509	1.2200e-003	3.2155

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	1.55551 / 0.953374	1.5810	0.0509	1.2200e-003	3.2155
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.5810**	**0.0509**	**1.2200e-003**	**3.2155**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	1.55551 / 0.953374	1.5810	0.0509	1.2200e-003	3.2155
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.5810**	**0.0509**	**1.2200e-003**	**3.2155**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4778	0.0873	0.0000	3.6611
Unmitigated	1.4778	0.0873	0.0000	3.6611

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	7.28	1.4778	0.0873	0.0000	3.6611
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**1.4778**	**0.0873**	**0.0000**	**3.6611**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	7.28	1.4778	0.0873	0.0000	3.6611
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**1.4778**	**0.0873**	**0.0000**	**3.6611**

9.0 Operational Offroad

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	168	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (100 - 175 HP)	6.8900e-003	0.0193	0.0250	3.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	3.1987	3.1987	4.5000e-004	0.0000	3.2099
Total	**6.8900e-003**	**0.0193**	**0.0250**	**3.0000e-005**		**1.0100e-003**	**1.0100e-003**		**1.0100e-003**	**1.0100e-003**	**0.0000**	**3.1987**	**3.1987**	**4.5000e-004**	**0.0000**	**3.2099**

11.0 Vegetation

New FS-32 Project (1138 Olinder Ct)

Phase Name	Construction Year	Start Date	End Date	Workdays
FS-32 Construction	2022	6/1/2022	8/1/2022	44
	2023	3/1/2023	12/31/2023	218
	2024	1/1/2024	4/1/2024	66

Workdays	
2022	44
2023	218
2024	66

Unmitigated Construction Results

	Criteria Air Pollutant (ton/year)				Criteria Air Pollutant (ppd)			
Year	ROG	NO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	PM_{10}	$PM_{2.5}$
2022	0.034	0.344	0.017	0.016	1.57	15.62	0.76	0.71
2023	0.128	0.876	0.040	0.037	1.18	8.03	0.37	0.34
2024	0.020	0.205	0.009	0.009	0.62	6.22	0.29	0.26
Max	0.128	0.876	0.040	0.037	1.57	15.62	0.76	0.71

Mitigated Construction Results

	Criteria Air Pollutant (ton/year)				Criteria Air Pollutant (ppd)			
Year	ROG	NO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	PM_{10}	$PM_{2.5}$
2022	0.006	0.038	0.001	0.001	0.29	1.73	0.04	0.04
2023	0.063	0.096	0.003	0.003	0.57	0.88	0.02	0.02
2024	0.005	0.023	0.001	0.001	0.15	0.70	0.02	0.02
Max	0.063	0.096	0.003	0.003	0.57	1.73	0.04	0.04

Operational Fire Truck Results

Assumptions

Design, based on the	4	minute geographic reach
Average Speed	35	mph

Inputs

Net New Calls	35	per day

Calculations

Fire Truck Trips	70	per day
	25550	per year
Fire Truck VMT	163	per day
	59617	per year

Fire Truck Emissions

	Criteria Air Pollutant (ton/year)				Criteria Air Pollutant (ppd)			
Source	ROG	NO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	PM_{10}	$PM_{2.5}$
Mobile	0.00	0.13	0.01	0.00	0.01	0.69	0.06	0.02
Total	0.002	0.126	0.010	0.003	0.009	0.693	0.057	0.016

Operational Results (CalEEMod)

Source	Criteria Air Pollutant (ton/year)				Criteria Air Pollutant (ppd)			
	ROG	NO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	PM_{10}	$PM_{2.5}$
Area	0.04	0.00	0.00	0.00	0.19	0.00	0.00	0.00
Energy	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00
Mobile	0.04	0.04	0.08	0.02	0.24	0.24	0.44	0.12
Stationary	0.01	0.02	0.00	0.00	0.04	0.11	0.01	0.01
Total	0.087	0.069	0.082	0.023	0.474	0.377	0.450	0.128

Operational Results (Total)

Source	Criteria Air Pollutant (ton/year)				Criteria Air Pollutant (ppd)			
	ROG	NO_X	PM_{10}	$PM_{2.5}$	ROG	NO_X	PM_{10}	$PM_{2.5}$
Area	0.035	0.000	0.000	0.000	0.19	0.00	0.00	0.00
Energy	0.001	0.006	0.000	0.000	0.00	0.03	0.00	0.00
Mobile	0.045	0.170	0.091	0.025	0.25	0.93	0.50	0.14
Stationary	0.007	0.019	0.001	0.001	0.04	0.11	0.01	0.01
Total	0.09	0.20	0.09	0.03	0.48	1.07	0.51	0.14

MEIR Receptor - Cumulative Risk

	Unmitigated			Mitigated				
MEIR Type	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)	Cancer Risk (per million)	HI	$PM_{2.5}$ (ug/m^3)	UTM X	UTM Y
Construction	19.86	0.04	0.20	1.16	0.00	0.01	601820.00	4132580.00
Operations	0.31	0.00	0.00	NA	NA	NA	601860.00	4132600.00

BAAQMD Nearby Stationary Sources (report pulled 2/9/2022)

FID	FACID	Name	Address	Type	UTM X	UTM Y	Cancer	Hazard	PM_25
1034	10004	Technibuilders Iron	1049 Felipe Avenue	Contact BAAQMD	601873.66	4132656.2	1.16	0	0
3942	18942	Verizon Wireless (HWY 9	912 Olinder Court	Generators	601606.54	4132763.9	1.15	0	0
8356	111958	76 Station	1299 Story Rd	Gas Dispensing Facilit	601697.83	4132543.1	18.34	0.08	0

Stationary Source Impacts at MEIR, Construction

FACID	Distance From MEIR (m)	Distance Multiplier	Cancer	Hazard	PM2.5
1034	93.2	0.5	0.57	0.00	0.00
3942	281.7	0.1	0.06	0.00	0.00
8356	127.6	0.1	1.08	0.00	0.00

Stationary Source Impacts at MEIR, Operations

FACID	Distance From MEIR (m)	Distance Multiplier	Cancer	Hazard	PM2.5
1034	57.8	0.6	0.73	0.00	0.00
3942	301.8	0.0	0.06	0.00	0.00
8356	171.9	0.0	0.68	0.00	0.00

BAAQMD Nearby Mobile Sources

Mobie Source Impacts at MEIR, Construction

Roadway Name	Distance From MEIR (m)	Cancer	Hazard	PM2.5
Highway 101	222.6	8.37	0.01	0.04
Story Road	16.8	22.83	NA	0.42

Mobile Source Impacts at MEIR, Operations

Roadway Name	Distance From MEIR (m)	Cancer	Hazard	PM2.5
Highway 101	68.6	12.12	0.01	0.06
Story Road	16.8	22.83	NA	0.42

Adjustment Factor 1.3744 *applied to account for revised 2012 OEHHA Breathing rates*

Total Cumulative Impacts at MEIR

Construction MEIR	Unmitigated			Mitigated		
Source Type	**Cancer Risk (per million)**	**HI**	**$PM_{2.5}$ (ug/m^3)**	**Cancer Risk (per million)**	**HI**	**$PM_{2.5}$ (ug/m^3)**
Project Construction	19.9	0.04	0.20	1.2	0.00	0.01
Project Operations	0.2	NA	NA	0.2	NA	NA
Stationary	1.7	0.00	0.00	1.7	0.00	0.00
Mobile	31.2	0.01	0.46	31.2	0.01	0.46
Total	52.9	0.05	0.66	34.2	0.01	0.47

Operational MEIR	Unmitigated			Mitigated		
Source Type	**Cancer Risk (per million)**	**HI**	**$PM_{2.5}$ (ug/m^3)**	**Cancer Risk (per million)**	**HI**	**$PM_{2.5}$ (ug/m^3)**
Project	0.3	0.00	0.00	0.31	0.00	0.00
Stationary	1.5	0.00	0.00	1.46	0.00	0.00
Mobile	34.9	0.01	0.48	34.95	0.01	0.48
Total	36.7	0.01	0.48	36.7	0.0	0.5

All Receptors - Operational Risk Cancer Risk

				Days				DPM (tons)	$PM_{2.5}$ (tons)
Operation	Generator	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Age 16<30	Annual O&M	Annual O&M
O&M	1	Annual		91	730	5110	5110	1.01E-03	1.01E-03

				DPM (g/s)	$PM_{2.5}$ (g/s)
Construction Year	Phase	Start Date	End Date	Annual O&M	Annual O&M
O&M	1	Annual		2.91E-05	2.91E-05

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	1	1	1	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhau	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential expo	AT	years	70.00	70.00	70	70

Intake Factor for Inhalation, IF (m^3/kg-day)

	Year	Equation	3rd Trimester	0<2	2<16	16<30
Generator O&M	Annual	DBR*FAH*EF *ED*ASF*A* CF/AT	0.012	0.299	0.329	0.037

Risk Calculation Part 1, R1

Year		3rd Trimester	0<2	2<16	16<30
Annual	IF*CPF*CF	1.36E-05	3.28E-04	3.62E-04	4.02E-05

Risk Factors

	Abbreviation	UOM	
Chronic Inhalation	REL	ug/m^3	5

MAX	Max Risk	UTM X	UTM Y	
Cancer	0.31	601860	4132600	Potential Resident
HI	0.00	601860	4132600	
$PM_{2.5}$	0.00	601860	4132600	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Annual O&M
Lookup	X (UTM)	Y (UTM	EDG
601660_4132320	601660	4132320	2.22E-05
601680_4132320	601680	4132320	2.43E-05
601700_4132320	601700	4132320	2.65E-05
601720_4132320	601720	4132320	2.94E-05
601740_4132320	601740	4132320	3.29E-05
601760_4132320	601760	4132320	3.69E-05
601620_4132340	601620	4132340	2.02E-05
601640_4132340	601640	4132340	2.19E-05
601660_4132340	601660	4132340	2.37E-05
601680_4132340	601680	4132340	2.62E-05
601700_4132340	601700	4132340	2.89E-05
601720_4132340	601720	4132340	3.27E-05
601740_4132340	601740	4132340	3.66E-05
601760_4132340	601760	4132340	4.11E-05
601780_4132340	601780	4132340	4.63E-05
601800_4132340	601800	4132340	5.24E-05
601820_4132340	601820	4132340	5.97E-05
601620_4132360	601620	4132360	2.16E-05
601640_4132360	601640	4132360	2.35E-05
601660_4132360	601660	4132360	2.58E-05
601680_4132360	601680	4132360	2.89E-05
601700_4132360	601700	4132360	3.25E-05
601720_4132360	601720	4132360	3.61E-05
601740_4132360	601740	4132360	4.11E-05
601820_4132360	601820	4132360	6.59E-05
601840_4132360	601840	4132360	6.95E-05
601860_4132360	601860	4132360	7.25E-05
601880_4132360	601880	4132360	7.74E-05
601640_4132380	601640	4132380	2.52E-05
601660_4132380	601660	4132380	2.81E-05
601680_4132380	601680	4132380	3.17E-05
601700_4132380	601700	4132380	3.59E-05
601720_4132380	601720	4132380	4.05E-05
601840_4132380	601840	4132380	7.59E-05
601860_4132380	601860	4132380	7.82E-05
601880_4132380	601880	4132380	8.65E-05
601900_4132380	601900	4132380	9.61E-05
601660_4132400	601660	4132400	3.08E-05
601680_4132400	601680	4132400	3.49E-05
601700_4132400	601700	4132400	3.97E-05
601720_4132400	601720	4132400	4.52E-05
601840_4132400	601840	4132400	8.23E-05
601860_4132400	601860	4132400	8.72E-05
601880_4132400	601880	4132400	9.70E-05
601900_4132400	601900	4132400	1.07E-04
601920_4132400	601920	4132400	1.18E-04
601680_4132420	601680	4132420	3.87E-05
601700_4132420	601700	4132420	4.46E-05
601720_4132420	601720	4132420	5.14E-05
601740_4132420	601740	4132420	6.04E-05
601800_4132420	601800	4132420	8.62E-05
601820_4132420	601820	4132420	8.77E-05
601840_4132420	601840	4132420	9.01E-05
601860_4132420	601860	4132420	9.80E-05
601880_4132420	601880	4132420	1.09E-04
601900_4132420	601900	4132420	1.21E-04
601920_4132420	601920	4132420	1.34E-04
601940_4132420	601940	4132420	1.45E-04
601960_4132420	601960	4132420	1.52E-04
601700_4132440	601700	4132440	5.01E-05
601720_4132440	601720	4132440	5.87E-05
601740_4132440	601740	4132440	6.95E-05
601780_4132440	601780	4132440	9.20E-05
601800_4132440	601800	4132440	9.55E-05
601820_4132440	601820	4132440	9.60E-05
601840_4132440	601840	4132440	9.97E-05
601860_4132440	601860	4132440	1.11E-04
601880_4132440	601880	4132440	1.25E-04
601900_4132440	601900	4132440	1.40E-04

Risk Calculation Part 2

				∑R1*C_{DPM}					C_{DPM}/REL
Lookup	X (UTM)	Y (UTM	EDG	3rd Trimester	0<2	2<16	16<30	Total	
601660_4132320	601660	4132320	2.22E-05	3.01E-10	7.28E-09	8.02E-09	8.91E-10	0.02	0.00
601680_4132320	601680	4132320	2.43E-05	3.29E-10	7.97E-09	8.79E-09	9.76E-10	0.02	0.00
601700_4132320	601700	4132320	2.65E-05	3.59E-10	8.69E-09	9.58E-09	1.06E-09	0.02	0.00
601720_4132320	601720	4132320	2.94E-05	3.99E-10	9.66E-09	1.06E-08	1.18E-09	0.02	0.00
601740_4132320	601740	4132320	3.29E-05	4.46E-10	1.08E-08	1.19E-08	1.32E-09	0.02	0.00
601760_4132320	601760	4132320	3.69E-05	5.01E-10	1.21E-08	1.34E-08	1.48E-09	0.03	0.00
601620_4132340	601620	4132340	2.02E-05	2.75E-10	6.65E-09	7.33E-09	8.14E-10	0.02	0.00
601640_4132340	601640	4132340	2.19E-05	2.98E-10	7.21E-09	7.94E-09	8.82E-10	0.02	0.00
601660_4132340	601660	4132340	2.37E-05	3.21E-10	7.78E-09	8.58E-09	9.52E-10	0.02	0.00
601680_4132340	601680	4132340	2.62E-05	3.56E-10	8.62E-09	9.50E-09	1.05E-09	0.02	0.00
601700_4132340	601700	4132340	2.89E-05	3.92E-10	9.49E-09	1.05E-08	1.16E-09	0.02	0.00
601720_4132340	601720	4132340	3.27E-05	4.43E-10	1.07E-08	1.18E-08	1.31E-09	0.02	0.00
601740_4132340	601740	4132340	3.66E-05	4.96E-10	1.20E-08	1.32E-08	1.47E-09	0.03	0.00
601760_4132340	601760	4132340	4.11E-05	5.58E-10	1.35E-08	1.49E-08	1.65E-09	0.03	0.00
601780_4132340	601780	4132340	4.63E-05	6.28E-10	1.52E-08	1.68E-08	1.86E-09	0.03	0.00
601800_4132340	601800	4132340	5.24E-05	7.11E-10	1.72E-08	1.90E-08	2.11E-09	0.04	0.00
601820_4132340	601820	4132340	5.97E-05	8.09E-10	1.96E-08	2.16E-08	2.40E-09	0.04	0.00
601620_4132360	601620	4132360	2.16E-05	2.93E-10	7.09E-09	7.81E-09	8.67E-10	0.02	0.00
601640_4132360	601640	4132360	2.35E-05	3.18E-10	7.71E-09	8.50E-09	9.44E-10	0.02	0.00
601660_4132360	601660	4132360	2.58E-05	3.49E-10	8.46E-09	9.32E-09	1.04E-09	0.02	0.00
601680_4132360	601680	4132360	2.89E-05	3.92E-10	9.49E-09	1.05E-08	1.16E-09	0.02	0.00
601700_4132360	601700	4132360	3.25E-05	4.40E-10	1.07E-08	1.18E-08	1.31E-09	0.02	0.00
601720_4132360	601720	4132360	3.61E-05	4.90E-10	1.19E-08	1.31E-08	1.45E-09	0.03	0.00
601740_4132360	601740	4132360	4.11E-05	5.57E-10	1.35E-08	1.49E-08	1.65E-09	0.03	0.00
601820_4132360	601820	4132360	6.59E-05	8.94E-10	2.17E-08	2.39E-08	2.65E-09	0.05	0.00
601840_4132360	601840	4132360	6.95E-05	9.42E-10	2.28E-08	2.51E-08	2.79E-09	0.05	0.00
601860_4132360	601860	4132360	7.25E-05	9.84E-10	2.38E-08	2.63E-08	2.92E-09	0.05	0.00
601880_4132360	601880	4132360	7.74E-05	1.05E-09	2.54E-08	2.80E-08	3.11E-09	0.06	0.00
601640_4132380	601640	4132380	2.52E-05	3.42E-10	8.27E-09	9.12E-09	1.01E-09	0.02	0.00
601660_4132380	601660	4132380	2.81E-05	3.81E-10	9.23E-09	1.02E-08	1.13E-09	0.02	0.00
601680_4132380	601680	4132380	3.17E-05	4.29E-10	1.04E-08	1.15E-08	1.27E-09	0.02	0.00
601700_4132380	601700	4132380	3.59E-05	4.87E-10	1.18E-08	1.30E-08	1.44E-09	0.03	0.00
601720_4132380	601720	4132380	4.05E-05	5.50E-10	1.33E-08	1.47E-08	1.63E-09	0.03	0.00
601840_4132380	601840	4132380	7.59E-05	1.03E-09	2.49E-08	2.75E-08	3.05E-09	0.06	0.00
601860_4132380	601860	4132380	7.82E-05	1.06E-09	2.57E-08	2.83E-08	3.14E-09	0.06	0.00
601880_4132380	601880	4132380	8.65E-05	1.17E-09	2.84E-08	3.13E-08	3.48E-09	0.06	0.00
601900_4132380	601900	4132380	9.61E-05	1.30E-09	3.16E-08	3.48E-08	3.86E-09	0.07	0.00
601660_4132400	601660	4132400	3.08E-05	4.18E-10	1.01E-08	1.12E-08	1.24E-09	0.02	0.00
601680_4132400	601680	4132400	3.49E-05	4.73E-10	1.15E-08	1.26E-08	1.40E-09	0.03	0.00
601700_4132400	601700	4132400	3.97E-05	5.39E-10	1.31E-08	1.44E-08	1.60E-09	0.03	0.00
601720_4132400	601720	4132400	4.52E-05	6.14E-10	1.49E-08	1.64E-08	1.82E-09	0.03	0.00
601840_4132400	601840	4132400	8.23E-05	1.12E-09	2.70E-08	2.98E-08	3.31E-09	0.06	0.00
601860_4132400	601860	4132400	8.72E-05	1.18E-09	2.87E-08	3.16E-08	3.51E-09	0.06	0.00
601880_4132400	601880	4132400	9.70E-05	1.32E-09	3.19E-08	3.51E-08	3.90E-09	0.07	0.00
601900_4132400	601900	4132400	1.07E-04	1.45E-09	3.52E-08	3.88E-08	4.31E-09	0.08	0.00
601920_4132400	601920	4132400	1.18E-04	1.60E-09	3.89E-08	4.28E-08	4.75E-09	0.09	0.00
601680_4132420	601680	4132420	3.87E-05	5.24E-10	1.27E-08	1.40E-08	1.55E-09	0.03	0.00
601700_4132420	601700	4132420	4.46E-05	6.05E-10	1.47E-08	1.62E-08	1.79E-09	0.03	0.00
601720_4132420	601720	4132420	5.14E-05	6.97E-10	1.69E-08	1.86E-08	2.07E-09	0.04	0.00
601740_4132420	601740	4132420	6.04E-05	8.20E-10	1.99E-08	2.19E-08	2.43E-09	0.04	0.00
601800_4132420	601800	4132420	8.62E-05	1.17E-09	2.83E-08	3.12E-08	3.46E-09	0.06	0.00
601820_4132420	601820	4132420	8.77E-05	1.19E-09	2.88E-08	3.18E-08	3.53E-09	0.07	0.00
601840_4132420	601840	4132420	9.01E-05	1.22E-09	2.96E-08	3.26E-08	3.62E-09	0.07	0.00
601860_4132420	601860	4132420	9.80E-05	1.33E-09	3.22E-08	3.55E-08	3.94E-09	0.07	0.00
601880_4132420	601880	4132420	1.09E-04	1.48E-09	3.58E-08	3.95E-08	4.38E-09	0.08	0.00
601900_4132420	601900	4132420	1.21E-04	1.65E-09	3.99E-08	4.40E-08	4.88E-09	0.09	0.00
601920_4132420	601920	4132420	1.34E-04	1.82E-09	4.40E-08	4.85E-08	5.38E-09	0.10	0.00
601940_4132420	601940	4132420	1.45E-04	1.97E-09	4.76E-08	5.25E-08	5.83E-09	0.11	0.00
601960_4132420	601960	4132420	1.52E-04	2.06E-09	5.00E-08	5.51E-08	6.12E-09	0.11	0.00
601700_4132440	601700	4132440	5.01E-05	6.79E-10	1.64E-08	1.81E-08	2.01E-09	0.04	0.00
601720_4132440	601720	4132440	5.87E-05	7.96E-10	1.93E-08	2.12E-08	2.36E-09	0.04	0.00
601740_4132440	601740	4132440	6.95E-05	9.43E-10	2.28E-08	2.52E-08	2.79E-09	0.05	0.00
601780_4132440	601780	4132440	9.20E-05	1.25E-09	3.02E-08	3.33E-08	3.70E-09	0.07	0.00
601800_4132440	601800	4132440	9.55E-05	1.29E-09	3.14E-08	3.46E-08	3.84E-09	0.07	0.00
601820_4132440	601820	4132440	9.60E-05	1.30E-09	3.15E-08	3.47E-08	3.86E-09	0.07	0.00
601840_4132440	601840	4132440	9.97E-05	1.35E-09	3.27E-08	3.61E-08	4.01E-09	0.07	0.00
601860_4132440	601860	4132440	1.11E-04	1.50E-09	3.64E-08	4.01E-08	4.46E-09	0.08	0.00
601880_4132440	601880	4132440	1.25E-04	1.69E-09	4.09E-08	4.51E-08	5.01E-09	0.09	0.00
601900_4132440	601900	4132440	1.40E-04	1.89E-09	4.58E-08	5.05E-08	5.61E-09	0.10	0.00

HI

PM2.5

Annual O&M	
EDG	
2.22E-05	Potential Resident
2.43E-05	Potential Resident
2.65E-05	Potential Resident
2.94E-05	Potential Resident
3.29E-05	Potential Resident
3.69E-05	Potential Resident
2.02E-05	Potential Resident
2.19E-05	Potential Resident
2.37E-05	Potential Resident
2.62E-05	Potential Resident
2.89E-05	Potential Resident
3.27E-05	Potential Resident
3.66E-05	Potential Resident
4.11E-05	Potential Resident
4.63E-05	Potential Resident
5.24E-05	Potential Resident
5.97E-05	Potential Resident
2.16E-05	Potential Resident
2.35E-05	Potential Resident
2.58E-05	Potential Resident
2.89E-05	Potential Resident
3.25E-05	Potential Resident
3.61E-05	Potential Resident
4.11E-05	Potential Resident
6.59E-05	Potential Resident
6.95E-05	Potential Resident
7.25E-05	Potential Resident
7.74E-05	Potential Resident
2.52E-05	Potential Resident
2.81E-05	Potential Resident
3.17E-05	Potential Resident
3.59E-05	Potential Resident
4.05E-05	Potential Resident
7.59E-05	Potential Resident
7.82E-05	Potential Resident
8.65E-05	Potential Resident
9.61E-05	Potential Resident
3.08E-05	Potential Resident
3.49E-05	Potential Resident
3.97E-05	Potential Resident
4.52E-05	Potential Resident
8.23E-05	Potential Resident
8.72E-05	Potential Resident
9.70E-05	Potential Resident
1.07E-04	Potential Resident
1.18E-04	Potential Resident
3.87E-05	Potential Resident
4.46E-05	Potential Resident
5.14E-05	Potential Resident
6.04E-05	Potential Resident
8.62E-05	Potential Resident
8.77E-05	Potential Resident
9.01E-05	Potential Resident
9.80E-05	Potential Resident
1.09E-04	Potential Resident
1.21E-04	Potential Resident
1.34E-04	Potential Resident
1.45E-04	Potential Resident
1.52E-04	Potential Resident
5.01E-05	Potential Resident
5.87E-05	Potential Resident
6.95E-05	Potential Resident
9.20E-05	Potential Resident
9.55E-05	Potential Resident
9.60E-05	Potential Resident
9.97E-05	Potential Resident
1.11E-04	Potential Resident
1.25E-04	Potential Resident
1.40E-04	Potential Resident

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)				Risk Calculation Part 2					HI	PM2.5		
			Annual O&M	$\sum R1*C_{DPM}$					C_{DPM}/REL	Annual O&M		
Lookup	X (UTM)	Y (UTM	EDG	3rd Trimester	0<2	2<16	16<30	Total		EDG		
601920_4132440	601920	4132440	1.53E-04	2.07E-09	5.02E-08	5.53E-08	6.15E-09	0.11	0.00	1.53E-04	Potential Resident	
601940_4132440	601940	4132440	1.63E-04	2.22E-09	5.37E-08	5.92E-08	6.57E-09	0.12	0.00	1.63E-04	Potential Resident	
601960_4132440	601960	4132440	1.69E-04	2.29E-09	5.56E-08	6.12E-08	6.80E-09	0.13	0.00	1.69E-04	Potential Resident	
601680_4132460	601680	4132460	4.76E-05	6.45E-10	1.56E-08	1.72E-08	1.91E-09	0.04	0.00	4.76E-05	Potential Resident	
601700_4132460	601700	4132460	5.67E-05	7.69E-10	1.86E-08	2.05E-08	2.28E-09	0.04	0.00	5.67E-05	Potential Resident	
601720_4132460	601720	4132460	6.74E-05	9.14E-10	2.21E-08	2.44E-08	2.71E-09	0.05	0.00	6.74E-05	Potential Resident	
601780_4132460	601780	4132460	1.03E-04	1.40E-09	3.39E-08	3.73E-08	4.15E-09	0.08	0.00	1.03E-04	Potential Resident	
601800_4132460	601800	4132460	1.04E-04	1.41E-09	3.41E-08	3.76E-08	4.17E-09	0.08	0.00	1.04E-04	Potential Resident	
601820_4132460	601820	4132460	1.04E-04	1.41E-09	3.43E-08	3.78E-08	4.19E-09	0.08	0.00	1.04E-04	Potential Resident	
601840_4132460	601840	4132460	1.13E-04	1.54E-09	3.72E-08	4.10E-08	4.56E-09	0.08	0.00	1.13E-04	Potential Resident	
601860_4132460	601860	4132460	1.28E-04	1.73E-09	4.20E-08	4.63E-08	5.14E-09	0.10	0.00	1.28E-04	Potential Resident	
601880_4132460	601880	4132460	1.45E-04	1.97E-09	4.77E-08	5.25E-08	5.83E-09	0.11	0.00	1.45E-04	Potential Resident	
601900_4132460	601900	4132460	1.62E-04	2.19E-09	5.31E-08	5.85E-08	6.49E-09	0.12	0.00	1.62E-04	Potential Resident	
601920_4132460	601920	4132460	1.75E-04	2.37E-09	5.74E-08	6.33E-08	7.03E-09	0.13	0.00	1.75E-04	Potential Resident	
601940_4132460	601940	4132460	1.84E-04	2.50E-09	6.05E-08	6.67E-08	7.41E-09	0.14	0.00	1.84E-04	Potential Resident	
601960_4132460	601960	4132460	1.89E-04	2.56E-09	6.21E-08	6.84E-08	7.60E-09	0.14	0.00	1.89E-04	Potential Resident	
601980_4132460	601980	4132460	1.91E-04	2.59E-09	6.28E-08	6.92E-08	7.68E-09	0.14	0.00	1.91E-04	Potential Resident	
601680_4132480	601680	4132480	5.29E-05	7.18E-10	1.74E-08	1.92E-08	2.13E-09	0.04	0.00	5.29E-05	Potential Resident	
601700_4132480	601700	4132480	6.47E-05	8.77E-10	2.13E-08	2.34E-08	2.60E-09	0.05	0.00	6.47E-05	Potential Resident	
601720_4132480	601720	4132480	7.84E-05	1.06E-09	2.58E-08	2.84E-08	3.15E-09	0.06	0.00	7.84E-05	Potential Resident	
601800_4132480	601800	4132480	1.14E-04	1.55E-09	3.76E-08	4.14E-08	4.60E-09	0.09	0.00	1.14E-04	Potential Resident	
601820_4132480	601820	4132480	1.17E-04	1.59E-09	3.84E-08	4.24E-08	4.70E-09	0.09	0.00	1.17E-04	Potential Resident	
601840_4132480	601840	4132480	1.32E-04	1.79E-09	4.33E-08	4.77E-08	5.29E-09	0.10	0.00	1.32E-04	Potential Resident	
601860_4132480	601860	4132480	1.51E-04	2.05E-09	4.97E-08	5.47E-08	6.08E-09	0.11	0.00	1.51E-04	Potential Resident	
601880_4132480	601880	4132480	1.71E-04	2.32E-09	5.63E-08	6.20E-08	6.89E-09	0.13	0.00	1.71E-04	Potential Resident	
601900_4132480	601900	4132480	1.88E-04	2.55E-09	6.18E-08	6.82E-08	7.57E-09	0.14	0.00	1.88E-04	Potential Resident	
601920_4132480	601920	4132480	2.00E-04	2.71E-09	6.57E-08	7.24E-08	8.04E-09	0.15	0.00	2.00E-04	Potential Resident	
601940_4132480	601940	4132480	2.07E-04	2.80E-09	6.79E-08	7.49E-08	8.31E-09	0.15	0.00	2.07E-04	Potential Resident	
601960_4132480	601960	4132480	2.09E-04	2.84E-09	6.88E-08	7.58E-08	8.41E-09	0.16	0.00	2.09E-04	Potential Resident	
601980_4132480	601980	4132480	2.08E-04	2.83E-09	6.84E-08	7.54E-08	8.37E-09	0.16	0.00	2.08E-04	Potential Resident	
602000_4132480	602000	4132480	2.04E-04	2.77E-09	6.71E-08	7.40E-08	8.21E-09	0.15	0.00	2.04E-04	Potential Resident	
601700_4132500	601700	4132500	7.37E-05	1.00E-09	2.42E-08	2.67E-08	2.96E-09	0.05	0.00	7.37E-05	Potential Resident	
601820_4132500	601820	4132500	1.37E-04	1.86E-09	4.50E-08	4.96E-08	5.50E-09	0.10	0.00	1.37E-04	Potential Resident	
601840_4132500	601840	4132500	1.58E-04	2.14E-09	5.19E-08	5.72E-08	6.35E-09	0.12	0.00	1.58E-04	Potential Resident	
601860_4132500	601860	4132500	1.82E-04	2.47E-09	5.99E-08	6.60E-08	7.32E-09	0.14	0.00	1.82E-04	Potential Resident	
601880_4132500	601880	4132500	2.03E-04	2.76E-09	6.68E-08	7.37E-08	8.18E-09	0.15	0.00	2.03E-04	Potential Resident	
601900_4132500	601900	4132500	2.18E-04	2.96E-09	7.17E-08	7.90E-08	8.77E-09	0.16	0.00	2.18E-04	Potential Resident	
601920_4132500	601920	4132500	2.27E-04	3.07E-09	7.44E-08	8.20E-08	9.10E-09	0.17	0.00	2.27E-04	Potential Resident	
601940_4132500	601940	4132500	2.29E-04	3.11E-09	7.54E-08	8.30E-08	9.22E-09	0.17	0.00	2.29E-04	Potential Resident	
601960_4132500	601960	4132500	2.28E-04	3.09E-09	7.48E-08	8.24E-08	9.15E-09	0.17	0.00	2.28E-04	Potential Resident	
601980_4132500	601980	4132500	2.23E-04	3.02E-09	7.31E-08	8.06E-08	8.94E-09	0.17	0.00	2.23E-04	Potential Resident	
602000_4132500	602000	4132500	2.15E-04	2.91E-09	7.05E-08	7.77E-08	8.63E-09	0.16	0.00	2.15E-04	Potential Resident	
602020_4132500	602020	4132500	2.06E-04	2.79E-09	6.76E-08	7.45E-08	8.27E-09	0.15	0.00	2.06E-04	Potential Resident	
601800_4132520	601800	4132520	1.44E-04	1.95E-09	4.72E-08	5.20E-08	5.78E-09	0.11	0.00	1.44E-04	Potential Resident	
601820_4132520	601820	4132520	1.66E-04	2.26E-09	5.47E-08	6.02E-08	6.69E-09	0.12	0.00	1.66E-04	Potential Resident	
601840_4132520	601840	4132520	1.95E-04	2.65E-09	6.41E-08	7.07E-08	7.85E-09	0.15	0.00	1.95E-04	Potential Resident	
601860_4132520	601860	4132520	2.22E-04	3.01E-09	7.30E-08	8.04E-08	8.93E-09	0.17	0.00	2.22E-04	Potential Resident	
601880_4132520	601880	4132520	2.41E-04	3.27E-09	7.93E-08	8.73E-08	9.70E-09	0.18	0.00	2.41E-04	Potential Resident	
601900_4132520	601900	4132520	2.51E-04	3.41E-09	8.26E-08	9.10E-08	1.01E-08	0.19	0.00	2.51E-04	Potential Resident	
601920_4132520	601920	4132520	2.54E-04	3.44E-09	8.34E-08	9.19E-08	1.02E-08	0.19	0.00	2.54E-04	Potential Resident	
601940_4132520	601940	4132520	2.51E-04	3.40E-09	8.24E-08	9.08E-08	1.01E-08	0.19	0.00	2.51E-04	Potential Resident	
601960_4132520	601960	4132520	2.44E-04	3.30E-09	8.00E-08	8.82E-08	9.79E-09	0.18	0.00	2.44E-04	Potential Resident	
601980_4132520	601980	4132520	2.34E-04	3.17E-09	7.67E-08	8.45E-08	9.39E-09	0.17	0.00	2.34E-04	Potential Resident	
602000_4132520	602000	4132520	2.22E-04	3.01E-09	7.29E-08	8.03E-08	8.92E-09	0.17	0.00	2.22E-04	Potential Resident	
602020_4132520	602020	4132520	2.09E-04	2.83E-09	6.87E-08	7.57E-08	8.40E-09	0.16	0.00	2.09E-04	Potential Resident	
601780_4132540	601780	4132540	1.57E-04	2.13E-09	5.17E-08	5.70E-08	6.33E-09	0.12	0.00	1.57E-04	Potential Resident	
601800_4132540	601800	4132540	1.77E-04	2.40E-09	5.81E-08	6.41E-08	7.11E-09	0.13	0.00	1.77E-04	Potential Resident	
601820_4132540	601820	4132540	2.11E-04	2.87E-09	6.94E-08	7.65E-08	8.49E-09	0.16	0.00	2.11E-04	Potential Resident	
601840_4132540	601840	4132540	2.46E-04	3.34E-09	8.09E-08	8.92E-08	9.90E-09	0.18	0.00	2.46E-04	Potential Resident	
601860_4132540	601860	4132540	2.71E-04	3.68E-09	8.91E-08	9.82E-08	1.09E-08	0.20	0.00	2.71E-04	Potential Resident	
601880_4132540	601880	4132540	2.84E-04	3.85E-09	9.32E-08	1.03E-07	1.14E-08	0.21	0.00	2.84E-04	Potential Resident	
601900_4132540	601900	4132540	2.86E-04	3.88E-09	9.39E-08	1.03E-07	1.15E-08	0.21	0.00	2.86E-04	Potential Resident	
601920_4132540	601920	4132540	2.80E-04	3.80E-09	9.19E-08	1.01E-07	1.13E-08	0.21	0.00	2.80E-04	Potential Resident	
601940_4132540	601940	4132540	2.69E-04	3.64E-09	8.83E-08	9.73E-08	1.08E-08	0.20	0.00	2.69E-04	Potential Resident	
601960_4132540	601960	4132540	2.54E-04	3.45E-09	8.36E-08	9.21E-08	1.02E-08	0.19	0.00	2.54E-04	Potential Resident	
601980_4132540	601980	4132540	2.38E-04	3.23E-09	7.82E-08	8.62E-08	9.57E-09	0.18	0.00	2.38E-04	Potential Resident	
602000_4132540	602000	4132540	2.22E-04	3.01E-09	7.28E-08	8.03E-08	8.91E-09	0.17	0.00	2.22E-04	Potential Resident	
602020_4132540	602020	4132540	2.05E-04	2.78E-09	6.74E-08	7.43E-08	8.25E-09	0.15	0.00	2.05E-04	Potential Resident	
601780_4132560	601780	4132560	1.89E-04	2.57E-09	6.21E-08	6.85E-08	7.60E-09	0.14	0.00	1.89E-04	Potential Resident	
601800_4132560	601800	4132560	2.31E-04	3.13E-09	7.58E-08	8.35E-08	9.27E-09	0.17	0.00	2.31E-04	Potential Resident	
601820_4132560	601820	4132560	2.77E-04	3.76E-09	9.11E-08	1.00E-07	1.11E-08	0.21	0.00	2.77E-04	Potential Resident	
601840_4132560	601840	4132560	3.12E-04	4.23E-09	1.02E-07	1.13E-07	1.25E-08	0.23	0.00	3.12E-04	Potential Resident	
601860_4132560	601860	4132560	3.26E-04	4.43E-09	1.07E-07	1.18E-07	1.31E-08	0.24	0.00	3.26E-04	Potential Resident	
601880_4132560	601880	4132560	3.26E-04	4.42E-09	1.07E-07	1.18E-07	1.31E-08	0.24	0.00	3.26E-04	Potential Resident	
601900_4132560	601900	4132560	3.15E-04	4.27E-09	1.03E-07	1.14E-07	1.27E-08	0.23	0.00	3.15E-04	Potential Resident	
601920_4132560	601920	4132560	2.97E-04	4.03E-09	9.77E-08	1.08E-07	1.20E-08	0.22	0.00	2.97E-04	Potential Resident	
601940_4132560	601940	4132560	2.77E-04	3.75E-09	9.09E-08	1.00E-07	1.11E-08	0.21	0.00	2.77E-04	Potential Resident	
601960_4132560	601960	4132560	2.55E-04	3.46E-09	8.38E-08	9.23E-08	1.03E-08	0.19	0.00	2.55E-04	Potential Resident	
601980_4132560	601980	4132560	2.34E-04	3.17E-09	7.68E-08	8.46E-08	9.40E-09	0.17	0.00	2.34E-04	Potential Resident	
602000_4132560	602000	4132560	2.14E-04	2.90E-09	7.02E-08	7.74E-08	8.59E-09	0.16	0.00	2.14E-04	Potential Resident	
602020_4132560	602020	4132560	1.95E-04	2.65E-09	6.42E-08	7.07E-08	7.85E-09	0.15	0.00	1.95E-04	Potential Resident	
602040_4132560	602040	4132560	1.79E-04	2.43E-09	5.88E-08	6.48E-08	7.19E-09	0.13	0.00	1.79E-04	Potential Resident	
601820_4132580	601820	4132580	3.65E-04	4.96E-09	1.20E-07	1.32E-07	1.47E-08	0.27	0.00	3.65E-04	Potential Resident	
601840_4132580	601840	4132580	3.85E-04	5.22E-09	1.26E-07	1.39E-07	1.55E-08	0.29	0.00	3.85E-04	Potential Resident	
601860_4132580	601860	4132580	3.80E-04	5.15E-09	1.25E-07	1.37E-07	1.53E-08	0.28	0.00	3.80E-04	Potential Resident	
601880_4132580	601880	4132580	3.59E-04	4.87E-09	1.18E-07	1.30E-07	1.44E-08	0.27	0.00	3.59E-04	Potential Resident	
601900_4132580	601900	4132580	3.31E-04	4.49E-09	1.09E-07	1.20E-07	1.33E-08	0.25	0.00	3.31E-04	Potential Resident	
601920_4132580	601920	4132580	3.01E-04	4.08E-09	9.88E-08	1.09E-07	1.21E-08	0.22	0.00	3.01E-04	Potential Resident	
601940_4132580	601940	4132580	2.72E-04	3.68E-09	8.92E-08	9.83E-08	1.09E-08	0.20	0.00	2.72E-04	Potential Resident	
601960_4132580	601960	4132580	2.44E-04	3.31E-09	8.03E-08	8.84E-08	9.82E-09	0.18	0.00	2.44E-04	Potential Resident	

All Receptors - Operational Risk Cancer Risk

				Days				DPM (tons)	$PM_{2.5}$ (tons)
Operation	Generator	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Age 16<30	Annual O&M	Annual O&M
O&M	1	Annual		0	151	5110	5110	1.01E-03	1.01E-03

				DPM (g/s)	$PM_{2.5}$ (g/s)
Construction Year	Phase	Start Date	End Date	Annual O&M	Annual O&M
O&M	1	Annual		2.91E-05	2.91E-05

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	2<16	16<30
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572	261
Fraction Of Time At Home	FAH	unitless	1	1	1	0.73
Exposure Frequency	EF	days/year	0.96	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3	1
Inhalation Absorption Factor	A	unitless	1	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001	0.001
Cancer Potency Factor (diesel exhaust)	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1	1.1
Averaging Time (for residential exposure)	AT	years	70.00	70.00	70	70

Intake Factor for Inhalation, IF (m^3/kg-day)

	Year	Equation	3rd Trimester	0<2	2<16	16<30
Generator O&M	Annual	DBR*FAH*EF *ED*ASF*A*C F/AT	0.000	0.062	0.329	0.037

Risk Calculation Part 1, R1

Year		3rd Trimester	0<2	2<16	16<30
Annual	IF*CPF*CF	0.00E+00	6.79E-05	3.62E-04	4.02E-05

Risk Factors

	Abbreviation	UOM	
Chronic Inhalation	REL	ug/m^3	5

MAX	Max Risk	UTM X	UTM Y
Cancer	0.1718	601820	4132580

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

			Annual O&M
Lookup	X (UTM)	Y (UTM	EDG
601660_4132320	601660	4132320	2.22E-05
601680_4132320	601680	4132320	2.43E-05
601700_4132320	601700	4132320	2.65E-05
601720_4132320	601720	4132320	2.94E-05
601740_4132320	601740	4132320	3.29E-05
601760_4132320	601760	4132320	3.69E-05
601620_4132340	601620	4132340	2.02E-05
601640_4132340	601640	4132340	2.19E-05
601660_4132340	601660	4132340	2.37E-05
601680_4132340	601680	4132340	2.62E-05
601700_4132340	601700	4132340	2.89E-05
601720_4132340	601720	4132340	3.27E-05
601740_4132340	601740	4132340	3.66E-05
601760_4132340	601760	4132340	4.11E-05
601780_4132340	601780	4132340	4.63E-05
601800_4132340	601800	4132340	5.24E-05
601820_4132340	601820	4132340	5.97E-05
601620_4132360	601620	4132360	2.16E-05
601640_4132360	601640	4132360	2.35E-05
601660_4132360	601660	4132360	2.58E-05
601680_4132360	601680	4132360	2.89E-05
601700_4132360	601700	4132360	3.25E-05
601720_4132360	601720	4132360	3.61E-05
601740_4132360	601740	4132360	4.11E-05
601820_4132360	601820	4132360	6.59E-05
601840_4132360	601840	4132360	6.95E-05
601860_4132360	601860	4132360	7.25E-05
601880_4132360	601880	4132360	7.74E-05
601640_4132380	601640	4132380	2.52E-05
601660_4132380	601660	4132380	2.81E-05
601680_4132380	601680	4132380	3.17E-05
601700_4132380	601700	4132380	3.59E-05
601720_4132380	601720	4132380	4.05E-05
601840_4132380	601840	4132380	7.59E-05
601860_4132380	601860	4132380	7.82E-05
601880_4132380	601880	4132380	8.65E-05
601900_4132380	601900	4132380	9.61E-05
601660_4132400	601660	4132400	3.08E-05
601680_4132400	601680	4132400	3.49E-05
601700_4132400	601700	4132400	3.97E-05
601720_4132400	601720	4132400	4.52E-05
601840_4132400	601840	4132400	8.23E-05
601860_4132400	601860	4132400	8.72E-05
601880_4132400	601880	4132400	9.70E-05
601900_4132400	601900	4132400	1.07E-04
601920_4132400	601920	4132400	1.18E-04
601680_4132420	601680	4132420	3.87E-05
601700_4132420	601700	4132420	4.46E-05
601720_4132420	601720	4132420	5.14E-05
601740_4132420	601740	4132420	6.04E-05
601800_4132420	601800	4132420	8.62E-05
601820_4132420	601820	4132420	8.77E-05
601840_4132420	601840	4132420	9.01E-05
601860_4132420	601860	4132420	9.80E-05
601880_4132420	601880	4132420	1.09E-04
601900_4132420	601900	4132420	1.21E-04
601920_4132420	601920	4132420	1.34E-04
601940_4132420	601940	4132420	1.45E-04
601960_4132420	601960	4132420	1.52E-04
601700_4132440	601700	4132440	5.01E-05
601720_4132440	601720	4132440	5.87E-05

Risk Calculation Part 2

	$\sum R1*C_{DPM}$					HI	PM2.5
						C_{DPM}/REL	Annual O&M
3rd Trimester	0<2	2<16	16<30	Total		EDG
0.00E+00	1.51E-09	8.02E-09	8.91E-10	0.01	0.00	2.22E-05
0.00E+00	1.65E-09	8.79E-09	9.76E-10	0.01	0.00	2.43E-05
0.00E+00	1.80E-09	9.58E-09	1.06E-09	0.01	0.00	2.65E-05
0.00E+00	2.00E-09	1.06E-08	1.18E-09	0.01	0.00	2.94E-05
0.00E+00	2.23E-09	1.19E-08	1.32E-09	0.02	0.00	3.29E-05
0.00E+00	2.51E-09	1.34E-08	1.48E-09	0.02	0.00	3.69E-05
0.00E+00	1.38E-09	7.33E-09	8.14E-10	0.01	0.00	2.02E-05
0.00E+00	1.49E-09	7.94E-09	8.82E-10	0.01	0.00	2.19E-05
0.00E+00	1.61E-09	8.58E-09	9.52E-10	0.01	0.00	2.37E-05
0.00E+00	1.78E-09	9.50E-09	1.05E-09	0.01	0.00	2.62E-05
0.00E+00	1.96E-09	1.05E-08	1.16E-09	0.01	0.00	2.89E-05
0.00E+00	2.22E-09	1.18E-08	1.31E-09	0.02	0.00	3.27E-05
0.00E+00	2.49E-09	1.32E-08	1.47E-09	0.02	0.00	3.66E-05
0.00E+00	2.80E-09	1.49E-08	1.65E-09	0.02	0.00	4.11E-05
0.00E+00	3.15E-09	1.68E-08	1.86E-09	0.02	0.00	4.63E-05
0.00E+00	3.56E-09	1.90E-08	2.11E-09	0.02	0.00	5.24E-05
0.00E+00	4.05E-09	2.16E-08	2.40E-09	0.03	0.00	5.97E-05
0.00E+00	1.47E-09	7.81E-09	8.67E-10	0.01	0.00	2.16E-05
0.00E+00	1.60E-09	8.50E-09	9.44E-10	0.01	0.00	2.35E-05
0.00E+00	1.75E-09	9.32E-09	1.04E-09	0.01	0.00	2.58E-05
0.00E+00	1.96E-09	1.05E-08	1.16E-09	0.01	0.00	2.89E-05
0.00E+00	2.21E-09	1.18E-08	1.31E-09	0.02	0.00	3.25E-05
0.00E+00	2.45E-09	1.31E-08	1.45E-09	0.02	0.00	3.61E-05
0.00E+00	2.79E-09	1.49E-08	1.65E-09	0.02	0.00	4.11E-05
0.00E+00	4.48E-09	2.39E-08	2.65E-09	0.03	0.00	6.59E-05
0.00E+00	4.72E-09	2.51E-08	2.79E-09	0.03	0.00	6.95E-05
0.00E+00	4.93E-09	2.63E-08	2.92E-09	0.03	0.00	7.25E-05
0.00E+00	5.26E-09	2.80E-08	3.11E-09	0.04	0.00	7.74E-05
0.00E+00	1.71E-09	9.12E-09	1.01E-09	0.01	0.00	2.52E-05
0.00E+00	1.91E-09	1.02E-08	1.13E-09	0.01	0.00	2.81E-05
0.00E+00	2.15E-09	1.15E-08	1.27E-09	0.01	0.00	3.17E-05
0.00E+00	2.44E-09	1.30E-08	1.44E-09	0.02	0.00	3.59E-05
0.00E+00	2.75E-09	1.47E-08	1.63E-09	0.02	0.00	4.05E-05
0.00E+00	5.16E-09	2.75E-08	3.05E-09	0.04	0.00	7.59E-05
0.00E+00	5.31E-09	2.83E-08	3.14E-09	0.04	0.00	7.82E-05
0.00E+00	5.88E-09	3.13E-08	3.48E-09	0.04	0.00	8.65E-05
0.00E+00	6.53E-09	3.48E-08	3.86E-09	0.05	0.00	9.61E-05
0.00E+00	2.09E-09	1.12E-08	1.24E-09	0.01	0.00	3.08E-05
0.00E+00	2.37E-09	1.26E-08	1.40E-09	0.02	0.00	3.49E-05
0.00E+00	2.70E-09	1.44E-08	1.60E-09	0.02	0.00	3.97E-05
0.00E+00	3.07E-09	1.64E-08	1.82E-09	0.02	0.00	4.52E-05
0.00E+00	5.59E-09	2.98E-08	3.31E-09	0.04	0.00	8.23E-05
0.00E+00	5.93E-09	3.16E-08	3.51E-09	0.04	0.00	8.72E-05
0.00E+00	6.59E-09	3.51E-08	3.90E-09	0.05	0.00	9.70E-05
0.00E+00	7.29E-09	3.88E-08	4.31E-09	0.05	0.00	1.07E-04
0.00E+00	8.04E-09	4.28E-08	4.75E-09	0.06	0.00	1.18E-04
0.00E+00	2.63E-09	1.40E-08	1.55E-09	0.02	0.00	3.87E-05
0.00E+00	3.03E-09	1.62E-08	1.79E-09	0.02	0.00	4.46E-05
0.00E+00	3.49E-09	1.86E-08	2.07E-09	0.02	0.00	5.14E-05
0.00E+00	4.11E-09	2.19E-08	2.43E-09	0.03	0.00	6.04E-05
0.00E+00	5.86E-09	3.12E-08	3.46E-09	0.04	0.00	8.62E-05
0.00E+00	5.96E-09	3.18E-08	3.53E-09	0.04	0.00	8.77E-05
0.00E+00	6.12E-09	3.26E-08	3.62E-09	0.04	0.00	9.01E-05
0.00E+00	6.66E-09	3.55E-08	3.94E-09	0.05	0.00	9.80E-05
0.00E+00	7.41E-09	3.95E-08	4.38E-09	0.05	0.00	1.09E-04
0.00E+00	8.26E-09	4.40E-08	4.88E-09	0.06	0.00	1.21E-04
0.00E+00	9.10E-09	4.85E-08	5.38E-09	0.06	0.00	1.34E-04
0.00E+00	9.85E-09	5.25E-08	5.83E-09	0.07	0.00	1.45E-04
0.00E+00	1.03E-08	5.51E-08	6.12E-09	0.07	0.00	1.52E-04
0.00E+00	3.40E-09	1.81E-08	2.01E-09	0.02	0.00	5.01E-05
0.00E+00	3.99E-09	2.12E-08	2.36E-09	0.03	0.00	5.87E-05

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)				Risk Calculation Part 2					HI	PM2.5
			Annual O&M	$\sum R1*C_{DPM}$					C_{DPM}/REL	Annual O&M
Lookup	X (UTM)	Y (UTM	EDG	3rd Trimester	0<2	2<16	16<30	Total		EDG
601740_4132440	601740	4132440	6.95E-05	0.00E+00	4.72E-09	2.52E-08	2.79E-09	0.03	0.00	6.95E-05
601780_4132440	601780	4132440	9.20E-05	0.00E+00	6.25E-09	3.33E-08	3.70E-09	0.04	0.00	9.20E-05
601800_4132440	601800	4132440	9.55E-05	0.00E+00	6.49E-09	3.46E-08	3.84E-09	0.04	0.00	9.55E-05
601820_4132440	601820	4132440	9.60E-05	0.00E+00	6.52E-09	3.47E-08	3.86E-09	0.05	0.00	9.60E-05
601840_4132440	601840	4132440	9.97E-05	0.00E+00	6.77E-09	3.61E-08	4.01E-09	0.05	0.00	9.97E-05
601860_4132440	601860	4132440	1.11E-04	0.00E+00	7.53E-09	4.01E-08	4.46E-09	0.05	0.00	1.11E-04
601880_4132440	601880	4132440	1.25E-04	0.00E+00	8.47E-09	4.51E-08	5.01E-09	0.06	0.00	1.25E-04
601900_4132440	601900	4132440	1.40E-04	0.00E+00	9.48E-09	5.05E-08	5.61E-09	0.07	0.00	1.40E-04
601920_4132440	601920	4132440	1.53E-04	0.00E+00	1.04E-08	5.53E-08	6.15E-09	0.07	0.00	1.53E-04
601940_4132440	601940	4132440	1.63E-04	0.00E+00	1.11E-08	5.92E-08	6.57E-09	0.08	0.00	1.63E-04
601960_4132440	601960	4132440	1.69E-04	0.00E+00	1.15E-08	6.12E-08	6.80E-09	0.08	0.00	1.69E-04
601680_4132460	601680	4132460	4.76E-05	0.00E+00	3.23E-09	1.72E-08	1.91E-09	0.02	0.00	4.76E-05
601700_4132460	601700	4132460	5.67E-05	0.00E+00	3.85E-09	2.05E-08	2.28E-09	0.03	0.00	5.67E-05
601720_4132460	601720	4132460	6.74E-05	0.00E+00	4.58E-09	2.44E-08	2.71E-09	0.03	0.00	6.74E-05
601780_4132460	601780	4132460	1.03E-04	0.00E+00	7.01E-09	3.73E-08	4.15E-09	0.05	0.00	1.03E-04
601800_4132460	601800	4132460	1.04E-04	0.00E+00	7.05E-09	3.76E-08	4.17E-09	0.05	0.00	1.04E-04
601820_4132460	601820	4132460	1.04E-04	0.00E+00	7.09E-09	3.78E-08	4.19E-09	0.05	0.00	1.04E-04
601840_4132460	601840	4132460	1.13E-04	0.00E+00	7.70E-09	4.10E-08	4.56E-09	0.05	0.00	1.13E-04
601860_4132460	601860	4132460	1.28E-04	0.00E+00	8.68E-09	4.63E-08	5.14E-09	0.06	0.00	1.28E-04
601880_4132460	601880	4132460	1.45E-04	0.00E+00	9.86E-09	5.25E-08	5.83E-09	0.07	0.00	1.45E-04
601900_4132460	601900	4132460	1.62E-04	0.00E+00	1.10E-08	5.85E-08	6.49E-09	0.08	0.00	1.62E-04
601920_4132460	601920	4132460	1.75E-04	0.00E+00	1.19E-08	6.33E-08	7.03E-09	0.08	0.00	1.75E-04
601940_4132460	601940	4132460	1.84E-04	0.00E+00	1.25E-08	6.67E-08	7.41E-09	0.09	0.00	1.84E-04
601960_4132460	601960	4132460	1.89E-04	0.00E+00	1.28E-08	6.84E-08	7.60E-09	0.09	0.00	1.89E-04
601980_4132460	601980	4132460	1.91E-04	0.00E+00	1.30E-08	6.92E-08	7.68E-09	0.09	0.00	1.91E-04
601680_4132480	601680	4132480	5.29E-05	0.00E+00	3.60E-09	1.92E-08	2.13E-09	0.02	0.00	5.29E-05
601700_4132480	601700	4132480	6.47E-05	0.00E+00	4.40E-09	2.34E-08	2.60E-09	0.03	0.00	6.47E-05
601720_4132480	601720	4132480	7.84E-05	0.00E+00	5.33E-09	2.84E-08	3.15E-09	0.04	0.00	7.84E-05
601800_4132480	601800	4132480	1.14E-04	0.00E+00	7.78E-09	4.14E-08	4.60E-09	0.05	0.00	1.14E-04
601820_4132480	601820	4132480	1.17E-04	0.00E+00	7.95E-09	4.24E-08	4.70E-09	0.06	0.00	1.17E-04
601840_4132480	601840	4132480	1.32E-04	0.00E+00	8.95E-09	4.77E-08	5.29E-09	0.06	0.00	1.32E-04
601860_4132480	601860	4132480	1.51E-04	0.00E+00	1.03E-08	5.47E-08	6.08E-09	0.07	0.00	1.51E-04
601880_4132480	601880	4132480	1.71E-04	0.00E+00	1.16E-08	6.20E-08	6.89E-09	0.08	0.00	1.71E-04
601900_4132480	601900	4132480	1.88E-04	0.00E+00	1.28E-08	6.82E-08	7.57E-09	0.09	0.00	1.88E-04
601920_4132480	601920	4132480	2.00E-04	0.00E+00	1.36E-08	7.24E-08	8.04E-09	0.09	0.00	2.00E-04
601940_4132480	601940	4132480	2.07E-04	0.00E+00	1.41E-08	7.49E-08	8.31E-09	0.10	0.00	2.07E-04
601960_4132480	601960	4132480	2.09E-04	0.00E+00	1.42E-08	7.58E-08	8.41E-09	0.10	0.00	2.09E-04
601980_4132480	601980	4132480	2.08E-04	0.00E+00	1.42E-08	7.54E-08	8.37E-09	0.10	0.00	2.08E-04
602000_4132480	602000	4132480	2.04E-04	0.00E+00	1.39E-08	7.40E-08	8.21E-09	0.10	0.00	2.04E-04
601700_4132500	601700	4132500	7.37E-05	0.00E+00	5.01E-09	2.67E-08	2.96E-09	0.03	0.00	7.37E-05
601820_4132500	601820	4132500	1.37E-04	0.00E+00	9.30E-09	4.96E-08	5.50E-09	0.06	0.00	1.37E-04
601840_4132500	601840	4132500	1.58E-04	0.00E+00	1.07E-08	5.72E-08	6.35E-09	0.07	0.00	1.58E-04
601860_4132500	601860	4132500	1.82E-04	0.00E+00	1.24E-08	6.60E-08	7.32E-09	0.09	0.00	1.82E-04
601880_4132500	601880	4132500	2.03E-04	0.00E+00	1.38E-08	7.37E-08	8.18E-09	0.10	0.00	2.03E-04
601900_4132500	601900	4132500	2.18E-04	0.00E+00	1.48E-08	7.90E-08	8.77E-09	0.10	0.00	2.18E-04
601920_4132500	601920	4132500	2.27E-04	0.00E+00	1.54E-08	8.20E-08	9.10E-09	0.11	0.00	2.27E-04
601940_4132500	601940	4132500	2.29E-04	0.00E+00	1.56E-08	8.30E-08	9.22E-09	0.11	0.00	2.29E-04
601960_4132500	601960	4132500	2.28E-04	0.00E+00	1.55E-08	8.24E-08	9.15E-09	0.11	0.00	2.28E-04
601980_4132500	601980	4132500	2.23E-04	0.00E+00	1.51E-08	8.06E-08	8.94E-09	0.10	0.00	2.23E-04
602000_4132500	602000	4132500	2.15E-04	0.00E+00	1.46E-08	7.77E-08	8.63E-09	0.10	0.00	2.15E-04
602020_4132500	602020	4132500	2.06E-04	0.00E+00	1.40E-08	7.45E-08	8.27E-09	0.10	0.00	2.06E-04
601800_4132520	601800	4132520	1.44E-04	0.00E+00	9.77E-09	5.20E-08	5.78E-09	0.07	0.00	1.44E-04
601820_4132520	601820	4132520	1.66E-04	0.00E+00	1.13E-08	6.02E-08	6.69E-09	0.08	0.00	1.66E-04
601840_4132520	601840	4132520	1.95E-04	0.00E+00	1.33E-08	7.07E-08	7.85E-09	0.09	0.00	1.95E-04
601860_4132520	601860	4132520	2.22E-04	0.00E+00	1.51E-08	8.04E-08	8.93E-09	0.10	0.00	2.22E-04
601880_4132520	601880	4132520	2.41E-04	0.00E+00	1.64E-08	8.73E-08	9.70E-09	0.11	0.00	2.41E-04
601900_4132520	601900	4132520	2.51E-04	0.00E+00	1.71E-08	9.10E-08	1.01E-08	0.12	0.00	2.51E-04
601920_4132520	601920	4132520	2.54E-04	0.00E+00	1.73E-08	9.19E-08	1.02E-08	0.12	0.00	2.54E-04
601940_4132520	601940	4132520	2.51E-04	0.00E+00	1.70E-08	9.08E-08	1.01E-08	0.12	0.00	2.51E-04
601960_4132520	601960	4132520	2.44E-04	0.00E+00	1.65E-08	8.82E-08	9.79E-09	0.11	0.00	2.44E-04
601980_4132520	601980	4132520	2.34E-04	0.00E+00	1.59E-08	8.45E-08	9.39E-09	0.11	0.00	2.34E-04
602000_4132520	602000	4132520	2.22E-04	0.00E+00	1.51E-08	8.03E-08	8.92E-09	0.10	0.00	2.22E-04
602020_4132520	602020	4132520	2.09E-04	0.00E+00	1.42E-08	7.57E-08	8.40E-09	0.10	0.00	2.09E-04
601780_4132540	601780	4132540	1.57E-04	0.00E+00	1.07E-08	5.70E-08	6.33E-09	0.07	0.00	1.57E-04
601800_4132540	601800	4132540	1.77E-04	0.00E+00	1.20E-08	6.41E-08	7.11E-09	0.08	0.00	1.77E-04
601820_4132540	601820	4132540	2.11E-04	0.00E+00	1.44E-08	7.65E-08	8.49E-09	0.10	0.00	2.11E-04
601840_4132540	601840	4132540	2.46E-04	0.00E+00	1.67E-08	8.92E-08	9.90E-09	0.12	0.00	2.46E-04
601860_4132540	601860	4132540	2.71E-04	0.00E+00	1.84E-08	9.82E-08	1.09E-08	0.13	0.00	2.71E-04
601880_4132540	601880	4132540	2.84E-04	0.00E+00	1.93E-08	1.03E-07	1.14E-08	0.13	0.00	2.84E-04
601900_4132540	601900	4132540	2.86E-04	0.00E+00	1.94E-08	1.03E-07	1.15E-08	0.13	0.00	2.86E-04
601920_4132540	601920	4132540	2.80E-04	0.00E+00	1.90E-08	1.01E-07	1.13E-08	0.13	0.00	2.80E-04
601940_4132540	601940	4132540	2.69E-04	0.00E+00	1.83E-08	9.73E-08	1.08E-08	0.13	0.00	2.69E-04
601960_4132540	601960	4132540	2.54E-04	0.00E+00	1.73E-08	9.21E-08	1.02E-08	0.12	0.00	2.54E-04
601980_4132540	601980	4132540	2.38E-04	0.00E+00	1.62E-08	8.62E-08	9.57E-09	0.11	0.00	2.38E-04
602000_4132540	602000	4132540	2.22E-04	0.00E+00	1.51E-08	8.03E-08	8.91E-09	0.10	0.00	2.22E-04
602020_4132540	602020	4132540	2.05E-04	0.00E+00	1.39E-08	7.43E-08	8.25E-09	0.10	0.00	2.05E-04
601780_4132560	601780	4132560	1.89E-04	0.00E+00	1.29E-08	6.85E-08	7.60E-09	0.09	0.00	1.89E-04
601800_4132560	601800	4132560	2.31E-04	0.00E+00	1.57E-08	8.35E-08	9.27E-09	0.11	0.00	2.31E-04
601820_4132560	601820	4132560	2.77E-04	0.00E+00	1.88E-08	1.00E-07	1.11E-08	0.13	0.00	2.77E-04
601840_4132560	601840	4132560	3.12E-04	0.00E+00	2.12E-08	1.13E-07	1.25E-08	0.15	0.00	3.12E-04
601860_4132560	601860	4132560	3.26E-04	0.00E+00	2.22E-08	1.18E-07	1.31E-08	0.15	0.00	3.26E-04
601880_4132560	601880	4132560	3.26E-04	0.00E+00	2.22E-08	1.18E-07	1.31E-08	0.15	0.00	3.26E-04
601900_4132560	601900	4132560	3.15E-04	0.00E+00	2.14E-08	1.14E-07	1.27E-08	0.15	0.00	3.15E-04
601920_4132560	601920	4132560	2.97E-04	0.00E+00	2.02E-08	1.08E-07	1.20E-08	0.14	0.00	2.97E-04
601940_4132560	601940	4132560	2.77E-04	0.00E+00	1.88E-08	1.00E-07	1.11E-08	0.13	0.00	2.77E-04
601960_4132560	601960	4132560	2.55E-04	0.00E+00	1.73E-08	9.23E-08	1.03E-08	0.12	0.00	2.55E-04
601980_4132560	601980	4132560	2.34E-04	0.00E+00	1.59E-08	8.46E-08	9.40E-09	0.11	0.00	2.34E-04
602000_4132560	602000	4132560	2.14E-04	0.00E+00	1.45E-08	7.74E-08	8.59E-09	0.10	0.00	2.14E-04
602020_4132560	602020	4132560	1.95E-04	0.00E+00	1.33E-08	7.07E-08	7.85E-09	0.09	0.00	1.95E-04
602040_4132560	602040	4132560	1.79E-04	0.00E+00	1.22E-08	6.48E-08	7.19E-09	0.08	0.00	1.79E-04
601820_4132580	601820	4132580	3.65E-04	0.00E+00	2.48E-08	1.32E-07	1.47E-08	0.17	0.00	3.65E-04
601840_4132580	601840	4132580	3.85E-04	0.00E+00	2.62E-08	1.39E-07	1.55E-08	0.18	0.00	3.85E-04
601860_4132580	601860	4132580	3.80E-04	0.00E+00	2.58E-08	1.37E-07	1.53E-08	0.18	0.00	3.80E-04
601880_4132580	601880	4132580	3.59E-04	0.00E+00	2.44E-08	1.30E-07	1.44E-08	0.17	0.00	3.59E-04
601900_4132580	601900	4132580	3.31E-04	0.00E+00	2.25E-08	1.20E-07	1.33E-08	0.16	0.00	3.31E-04
601920_4132580	601920	4132580	3.01E-04	0.00E+00	2.04E-08	1.09E-07	1.21E-08	0.14	0.00	3.01E-04
601940_4132580	601940	4132580	2.72E-04	0.00E+00	1.84E-08	9.83E-08	1.09E-08	0.13	0.00	2.72E-04
601960_4132580	601960	4132580	2.44E-04	0.00E+00	1.66E-08	8.84E-08	9.82E-09	0.11	0.00	2.44E-04

Residential Receptors - Unmitigated Construction Cancer Risk

				Days					Total Unmitigated DPM (tons)
			Start	6/1/2022	8/31/2022	8/31/2024			
			Stop	44803.00	8/30/2024				
				90	730				
Phase Name	Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Exposure Days	Calendar Days	Onsite Offroad
	2022	6/1/2022	8/1/2022	62.00	0.00	0	62	62	1.65E-02
FS-32 Construction	2023	3/1/2023	12/31/2023	0.00	306.00	0	306	306	4.01E-02
	2024	1/1/2024	4/1/2024	0.00	92.00	0	92	92	9.42E-03

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Phase Name	Construction Year	Start Date	End Date	Total Unmitigated DPM (g/s) CSTN
	2022	6/1/2022	8/1/2022	2.79E-03
FS-32 Construction	2023	3/1/2023	12/31/2023	1.38E-03
	2024	1/1/2024	4/1/2024	1.08E-03

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	Age 2<16
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572
Fraction Of Time At Home	FAH	unitless	1	1	1
Exposure Frequency	EF	days/year	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3
Inhalation Absorption Factor	A	unitless	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001
Cancer Potency Factor (diesel exhau	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1
Averaging Time (for residential expo	AT	years	70.00	70.00	70.00

Intake Factor for Inhalation, IF (m^3/kg-day)

Phase Name	Construction Year	Equation	3rd Trimester	0<2	2<16
	2022	DBR*FAH*EF	0.01	0.00	0.00
FS-32 Construction	2023	*ED*ASF*A*	0.00	0.13	0.00
	2024	CF/AT	0.00	0.04	0.00

Risk Calculation Part 1, R1

	3rd Trimester	0<2	2<16
	9.24E-06	0.00E+00	0.00E+00
IF*CPF*CF	0.00E+00	1.38E-04	0.00E+00
	0.00E+00	4.14E-05	0.00E+00

REL		
DPM	5	ug/m^3

	MAX	UTM X	UTM Y	
Cancer Risk	19.86	601820	4132580	Potential Residence
Hazard Index	0.04	601820	4132580	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

		FS-8 Construction		
X (UTM)	Y (UTM	2022	2023	2024
601660	4132320	0.002	0.001	0.001
601680	4132320	0.002	0.001	0.001
601700	4132320	0.002	0.001	0.001
601720	4132320	0.002	0.001	0.001
601740	4132320	0.003	0.001	0.001
601760	4132320	0.003	0.002	0.001
601620	4132340	0.001	0.001	0.001
601640	4132340	0.002	0.001	0.001
601660	4132340	0.002	0.001	0.001
601680	4132340	0.002	0.001	0.001
601700	4132340	0.002	0.001	0.001
601720	4132340	0.003	0.001	0.001
601740	4132340	0.003	0.002	0.001
601760	4132340	0.004	0.002	0.001
601780	4132340	0.004	0.002	0.002
601800	4132340	0.005	0.003	0.002
601820	4132340	0.007	0.003	0.003
601620	4132360	0.002	0.001	0.001
601640	4132360	0.002	0.001	0.001
601660	4132360	0.002	0.001	0.001
601680	4132360	0.002	0.001	0.001
601700	4132360	0.003	0.001	0.001
601720	4132360	0.003	0.002	0.001
601740	4132360	0.004	0.002	0.001
601820	4132360	0.008	0.004	0.003
601840	4132360	0.010	0.005	0.004
601860	4132360	0.011	0.006	0.004
601880	4132360	0.013	0.007	0.005
601640	4132380	0.002	0.001	0.001
601660	4132380	0.002	0.001	0.001
601680	4132380	0.003	0.001	0.001
601700	4132380	0.003	0.001	0.001
601720	4132380	0.004	0.002	0.001
601840	4132380	0.012	0.006	0.005
601860	4132380	0.014	0.007	0.005
601880	4132380	0.017	0.008	0.006
601900	4132380	0.019	0.009	0.007

Risk Calculation Part 2

$\sum R1*C_{DPM}$			
3rd Trimester	0<2	2<16	Total
1.49E-08	1.35E-07	0.00E+00	0.15
1.68E-08	1.52E-07	0.00E+00	0.17
1.90E-08	1.72E-07	0.00E+00	0.19
2.18E-08	1.98E-07	0.00E+00	0.22
2.55E-08	2.31E-07	0.00E+00	0.26
2.99E-08	2.70E-07	0.00E+00	0.30
1.32E-08	1.19E-07	0.00E+00	0.13
1.47E-08	1.33E-07	0.00E+00	0.15
1.65E-08	1.50E-07	0.00E+00	0.17
1.87E-08	1.70E-07	0.00E+00	0.19
2.14E-08	1.94E-07	0.00E+00	0.22
2.48E-08	2.25E-07	0.00E+00	0.25
2.92E-08	2.65E-07	0.00E+00	0.29
3.46E-08	3.14E-07	0.00E+00	0.35
4.15E-08	3.76E-07	0.00E+00	0.42
5.00E-08	4.53E-07	0.00E+00	0.50
6.06E-08	5.49E-07	0.00E+00	0.61
1.45E-08	1.31E-07	0.00E+00	0.15
1.63E-08	1.48E-07	0.00E+00	0.16
1.84E-08	1.67E-07	0.00E+00	0.19
2.10E-08	1.91E-07	0.00E+00	0.21
2.44E-08	2.21E-07	0.00E+00	0.25
2.85E-08	2.58E-07	0.00E+00	0.29
3.38E-08	3.06E-07	0.00E+00	0.34
7.34E-08	6.65E-07	0.00E+00	0.74
8.85E-08	8.02E-07	0.00E+00	0.89
1.05E-07	9.54E-07	0.00E+00	1.06
1.23E-07	1.12E-06	0.00E+00	1.24
1.82E-08	1.65E-07	0.00E+00	0.18
2.07E-08	1.88E-07	0.00E+00	0.21
2.39E-08	2.17E-07	0.00E+00	0.24
2.79E-08	2.53E-07	0.00E+00	0.28
3.31E-08	3.00E-07	0.00E+00	0.33
1.10E-07	9.97E-07	0.00E+00	1.11
1.32E-07	1.19E-06	0.00E+00	1.32
1.54E-07	1.39E-06	0.00E+00	1.55
1.75E-07	1.58E-06	0.00E+00	1.76

Hazard Index Calculation

C_{DPM}/REL
0.000
0.000
0.000
0.000
0.001
0.001
0.000
0.000
0.000
0.000
0.000
0.001
0.001
0.001
0.001
0.001
0.001
0.000
0.000
0.000
0.000
0.001
0.001
0.001
0.001
0.002
0.002
0.002
0.003
0.000
0.000
0.000
0.001
0.001
0.001
0.001
0.002
0.003
0.003
0.004

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

		FS-8 Construction		
X (UTM)	Y (UTM	2022	2023	2024
601660	4132400	0.003	0.001	0.001
601680	4132400	0.003	0.001	0.001
601700	4132400	0.004	0.002	0.001
601720	4132400	0.004	0.002	0.002
601840	4132400	0.015	0.007	0.006
601860	4132400	0.018	0.009	0.007
601880	4132400	0.021	0.010	0.008
601900	4132400	0.023	0.012	0.009
601920	4132400	0.026	0.013	0.010
601680	4132420	0.003	0.002	0.001
601700	4132420	0.004	0.002	0.002
601720	4132420	0.005	0.002	0.002
601740	4132420	0.006	0.003	0.002
601800	4132420	0.013	0.006	0.005
601820	4132420	0.016	0.008	0.006
601840	4132420	0.020	0.010	0.008
601860	4132420	0.023	0.011	0.009
601880	4132420	0.026	0.013	0.010
601900	4132420	0.029	0.014	0.011
601920	4132420	0.031	0.015	0.012
601940	4132420	0.033	0.016	0.013
601960	4132420	0.034	0.017	0.013
601700	4132440	0.005	0.002	0.002
601720	4132440	0.006	0.003	0.002
601740	4132440	0.008	0.004	0.003
601780	4132440	0.013	0.006	0.005
601800	4132440	0.017	0.008	0.006
601820	4132440	0.021	0.010	0.008
601840	4132440	0.026	0.013	0.010
601860	4132440	0.030	0.015	0.012
601880	4132440	0.034	0.017	0.013
601900	4132440	0.037	0.018	0.014
601920	4132440	0.039	0.019	0.015
601940	4132440	0.040	0.020	0.015
601960	4132440	0.040	0.020	0.015
601680	4132460	0.005	0.002	0.002
601700	4132460	0.006	0.003	0.002
601720	4132460	0.008	0.004	0.003
601780	4132460	0.017	0.009	0.007
601800	4132460	0.023	0.011	0.009
601820	4132460	0.028	0.014	0.011
601840	4132460	0.034	0.017	0.013
601860	4132460	0.039	0.019	0.015
601880	4132460	0.043	0.021	0.017
601900	4132460	0.046	0.023	0.018
601920	4132460	0.047	0.023	0.018
601940	4132460	0.048	0.023	0.018
601960	4132460	0.047	0.023	0.018
601980	4132460	0.045	0.022	0.017
601680	4132480	0.006	0.003	0.002
601700	4132480	0.007	0.004	0.003
601720	4132480	0.010	0.005	0.004
601800	4132480	0.031	0.015	0.012
601820	4132480	0.039	0.019	0.015
601840	4132480	0.046	0.023	0.018
601860	4132480	0.052	0.025	0.020
601880	4132480	0.056	0.027	0.021
601900	4132480	0.057	0.028	0.022
601920	4132480	0.057	0.028	0.022
601940	4132480	0.056	0.028	0.022
601960	4132480	0.054	0.026	0.021
601980	4132480	0.050	0.025	0.019
602000	4132480	0.047	0.023	0.018
601700	4132500	0.009	0.005	0.004
601820	4132500	0.055	0.027	0.021
601840	4132500	0.063	0.031	0.024
601860	4132500	0.068	0.034	0.026
601880	4132500	0.071	0.035	0.027
601900	4132500	0.071	0.035	0.027
601920	4132500	0.068	0.034	0.026
601940	4132500	0.064	0.032	0.025
601960	4132500	0.060	0.029	0.023
601980	4132500	0.055	0.027	0.021
602000	4132500	0.050	0.025	0.019
602020	4132500	0.045	0.022	0.017
601800	4132520	0.067	0.033	0.026
601820	4132520	0.079	0.039	0.030
601840	4132520	0.086	0.043	0.033
601860	4132520	0.090	0.044	0.034
601880	4132520	0.089	0.044	0.034
601900	4132520	0.085	0.042	0.033
601920	4132520	0.079	0.039	0.030
601940	4132520	0.072	0.035	0.028
601960	4132520	0.065	0.032	0.025

Risk Calculation Part 2

	$\sum R1*C_{DPM}$			
3rd Trimester	0<2	2<16	Total
2.35E-08	2.13E-07	0.00E+00	0.24
2.74E-08	2.48E-07	0.00E+00	0.28
3.24E-08	2.93E-07	0.00E+00	0.33
3.89E-08	3.53E-07	0.00E+00	0.39
1.40E-07	1.27E-06	0.00E+00	1.41
1.67E-07	1.51E-06	0.00E+00	1.68
1.93E-07	1.75E-06	0.00E+00	1.94
2.16E-07	1.96E-06	0.00E+00	2.18
2.36E-07	2.14E-06	0.00E+00	2.38
3.17E-08	2.87E-07	0.00E+00	0.32
3.80E-08	3.44E-07	0.00E+00	0.38
4.64E-08	4.21E-07	0.00E+00	0.47
5.80E-08	5.25E-07	0.00E+00	0.58
1.19E-07	1.07E-06	0.00E+00	1.19
1.48E-07	1.34E-06	0.00E+00	1.49
1.80E-07	1.63E-06	0.00E+00	1.82
2.14E-07	1.94E-06	0.00E+00	2.15
2.44E-07	2.21E-06	0.00E+00	2.45
2.70E-07	2.44E-06	0.00E+00	2.71
2.91E-07	2.63E-06	0.00E+00	2.92
3.06E-07	2.77E-06	0.00E+00	3.08
3.13E-07	2.84E-06	0.00E+00	3.15
4.52E-08	4.10E-07	0.00E+00	0.45
5.64E-08	5.11E-07	0.00E+00	0.57
7.19E-08	6.51E-07	0.00E+00	0.72
1.21E-07	1.10E-06	0.00E+00	1.22
1.55E-07	1.40E-06	0.00E+00	1.56
1.94E-07	1.76E-06	0.00E+00	1.95
2.37E-07	2.15E-06	0.00E+00	2.39
2.77E-07	2.51E-06	0.00E+00	2.78
3.11E-07	2.81E-06	0.00E+00	3.13
3.38E-07	3.07E-06	0.00E+00	3.40
3.58E-07	3.24E-06	0.00E+00	3.60
3.69E-07	3.34E-06	0.00E+00	3.71
3.69E-07	3.34E-06	0.00E+00	3.71
4.43E-08	4.01E-07	0.00E+00	0.45
5.48E-08	4.96E-07	0.00E+00	0.55
6.99E-08	6.33E-07	0.00E+00	0.70
1.60E-07	1.45E-06	0.00E+00	1.61
2.08E-07	1.88E-06	0.00E+00	2.09
2.63E-07	2.38E-06	0.00E+00	2.64
3.16E-07	2.86E-06	0.00E+00	3.18
3.61E-07	3.27E-06	0.00E+00	3.63
3.99E-07	3.61E-06	0.00E+00	4.01
4.25E-07	3.85E-06	0.00E+00	4.27
4.38E-07	3.97E-06	0.00E+00	4.41
4.40E-07	3.99E-06	0.00E+00	4.43
4.31E-07	3.91E-06	0.00E+00	4.34
4.16E-07	3.77E-06	0.00E+00	4.19
5.35E-08	4.85E-07	0.00E+00	0.54
6.76E-08	6.12E-07	0.00E+00	0.68
8.88E-08	8.05E-07	0.00E+00	0.89
2.90E-07	2.63E-06	0.00E+00	2.92
3.63E-07	3.28E-06	0.00E+00	3.65
4.26E-07	3.85E-06	0.00E+00	4.28
4.77E-07	4.32E-06	0.00E+00	4.80
5.13E-07	4.65E-06	0.00E+00	5.16
5.31E-07	4.81E-06	0.00E+00	5.34
5.31E-07	4.81E-06	0.00E+00	5.34
5.18E-07	4.69E-06	0.00E+00	5.21
4.95E-07	4.49E-06	0.00E+00	4.98
4.66E-07	4.22E-06	0.00E+00	4.69
4.33E-07	3.92E-06	0.00E+00	4.36
8.57E-08	7.76E-07	0.00E+00	0.86
5.08E-07	4.60E-06	0.00E+00	5.11
5.81E-07	5.26E-06	0.00E+00	5.84
6.32E-07	5.72E-06	0.00E+00	6.35
6.55E-07	5.93E-06	0.00E+00	6.59
6.52E-07	5.90E-06	0.00E+00	6.56
6.30E-07	5.71E-06	0.00E+00	6.34
5.95E-07	5.39E-06	0.00E+00	5.99
5.53E-07	5.01E-06	0.00E+00	5.56
5.07E-07	4.59E-06	0.00E+00	5.10
4.60E-07	4.17E-06	0.00E+00	4.63
4.16E-07	3.77E-06	0.00E+00	4.18
6.16E-07	5.58E-06	0.00E+00	6.19
7.25E-07	6.57E-06	0.00E+00	7.30
7.98E-07	7.23E-06	0.00E+00	8.03
8.29E-07	7.50E-06	0.00E+00	8.33
8.20E-07	7.43E-06	0.00E+00	8.25
7.82E-07	7.08E-06	0.00E+00	7.86
7.26E-07	6.58E-06	0.00E+00	7.30
6.63E-07	6.01E-06	0.00E+00	6.67
5.98E-07	5.42E-06	0.00E+00	6.01

Hazard Index Calculation

C_{DPM}/REL
0.001
0.001
0.001
0.001
0.003
0.004
0.004
0.005
0.005
0.001
0.001
0.001
0.001
0.003
0.003
0.004
0.005
0.005
0.006
0.006
0.007
0.007
0.001
0.001
0.002
0.003
0.003
0.004
0.005
0.006
0.007
0.007
0.008
0.008
0.008
0.001
0.001
0.002
0.003
0.005
0.006
0.007
0.008
0.009
0.009
0.009
0.010
0.009
0.009
0.001
0.001
0.002
0.006
0.008
0.009
0.010
0.011
0.011
0.011
0.011
0.011
0.010
0.009
0.002
0.011
0.013
0.014
0.014
0.014
0.013
0.012
0.011
0.010
0.009
0.013
0.016
0.017
0.018
0.018
0.017
0.016
0.014
0.013

Residential Receptors - Mitigated Construction Cancer Risk

				Days					Total Mitigated DPM (tons)
			Start	6/1/2022	8/31/2022	8/31/2024			
			Stop	44803.00	8/30/2024				
				90	730				
Phase Name	Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Exposure Days	Calendar Days	Onsite Offroad
FS-32 Construction	2022	6/1/2022	8/1/2022	62.00	0.00	0	62	62	7.10E-04
	2023	3/1/2023	12/31/2023	0.00	306.00	0	306	306	2.37E-03
	2024	1/1/2024	4/1/2024	0.00	92.00	0	92	92	6.10E-04

Phase Name	Construction Year	Start Date	End Date	Total Mitigated DPM (g/s) CSTN
FS-32 Construction	2022	6/1/2022	8/1/2022	1.20E-04
	2023	3/1/2023	12/31/2023	8.13E-05
	2024	1/1/2024	4/1/2024	6.96E-05

Risk Factors

	Abbreviation	UOM	3rd Trimester	0<2	Age 2<16
Daily Breathing Rate (95th %'ile)	DBR	L/kg-day	361	1090	572
Fraction Of Time At Home	FAH	unitless	1	1	1
Exposure Frequency	EF	days/year	0.96	0.96	0.96
Age Sensitivity Factor	ASF	unitless	10	10	3
Inhalation Absorption Factor	A	unitless	1	1	1
Conversion Factor	CF_1	m^3/L	0.001	0.001	0.001
Conversion Factor	CF_2	$\mu g/m^3$	0.001	0.001	0.001
Cancer Potency Factor (diesel exhau	CPF	$mg/kg\text{-}day^{-1}$	1.1	1.1	1.1
Averaging Time (for residential expo	AT	years	70.00	70.00	70.00

Intake Factor for Inhalation, IF (m^3/kg-day)

Phase Name	Construction Year	Equation	3rd Trimester	0<2	2<16
FS-32 Construction	2022	DBR*FAH*EF	0.01	0.00	0.00
	2023	*ED*ASF*A*C	0.00	0.13	0.00
	2024	F/AT	0.00	0.04	0.00

Risk Calculation Part 1, R1

	3rd Trimester	0<2	2<16
IF*CPF*CF	9.24E-06	0.00E+00	0.00E+00
	0.00E+00	1.38E-04	0.00E+00
	0.00E+00	4.14E-05	0.00E+00

REL		
DPM	5	ug/m^3

	Max	UTM X	UTM Y	
Cancer Risk	1.16	601820	4132580	Potential Residence
Hazard Index	0.00	601820	4132580	

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3)

Risk Calculation Part 2

Hazard Index Calculation

		FS-8 Construction			∑R1*C_{DPM}				C_{DPM}/REL
X (UTM)	Y (UTM	2022	2023	2024	3rd Trimester	0<2	2<16	Total	
601660	4132320	0.000	0.000	0.000	6.42E-10	8.14E-09	0.00E+00	0.01	0.000
601680	4132320	0.000	0.000	0.000	7.22E-10	9.15E-09	0.00E+00	0.01	0.000
601700	4132320	0.000	0.000	0.000	8.17E-10	1.04E-08	0.00E+00	0.01	0.000
601720	4132320	0.000	0.000	0.000	9.40E-10	1.19E-08	0.00E+00	0.01	0.000
601740	4132320	0.000	0.000	0.000	1.10E-09	1.39E-08	0.00E+00	0.01	0.000
601760	4132320	0.000	0.000	0.000	1.28E-09	1.63E-08	0.00E+00	0.02	0.000
601620	4132340	0.000	0.000	0.000	5.67E-10	7.18E-09	0.00E+00	0.01	0.000
601640	4132340	0.000	0.000	0.000	6.33E-10	8.02E-09	0.00E+00	0.01	0.000
601660	4132340	0.000	0.000	0.000	7.10E-10	9.00E-09	0.00E+00	0.01	0.000
601680	4132340	0.000	0.000	0.000	8.06E-10	1.02E-08	0.00E+00	0.01	0.000
601700	4132340	0.000	0.000	0.000	9.20E-10	1.17E-08	0.00E+00	0.01	0.000
601720	4132340	0.000	0.000	0.000	1.07E-09	1.35E-08	0.00E+00	0.01	0.000
601740	4132340	0.000	0.000	0.000	1.26E-09	1.59E-08	0.00E+00	0.02	0.000
601760	4132340	0.000	0.000	0.000	1.49E-09	1.89E-08	0.00E+00	0.02	0.000
601780	4132340	0.000	0.000	0.000	1.78E-09	2.26E-08	0.00E+00	0.02	0.000
601800	4132340	0.000	0.000	0.000	2.15E-09	2.73E-08	0.00E+00	0.03	0.000
601820	4132340	0.000	0.000	0.000	2.61E-09	3.30E-08	0.00E+00	0.04	0.000
601620	4132360	0.000	0.000	0.000	6.24E-10	7.91E-09	0.00E+00	0.01	0.000
601640	4132360	0.000	0.000	0.000	7.01E-10	8.88E-09	0.00E+00	0.01	0.000
601660	4132360	0.000	0.000	0.000	7.93E-10	1.01E-08	0.00E+00	0.01	0.000
601680	4132360	0.000	0.000	0.000	9.05E-10	1.15E-08	0.00E+00	0.01	0.000
601700	4132360	0.000	0.000	0.000	1.05E-09	1.33E-08	0.00E+00	0.01	0.000
601720	4132360	0.000	0.000	0.000	1.23E-09	1.55E-08	0.00E+00	0.02	0.000
601740	4132360	0.000	0.000	0.000	1.46E-09	1.84E-08	0.00E+00	0.02	0.000
601820	4132360	0.000	0.000	0.000	3.16E-09	4.00E-08	0.00E+00	0.04	0.000
601840	4132360	0.000	0.000	0.000	3.81E-09	4.83E-08	0.00E+00	0.05	0.000
601860	4132360	0.000	0.000	0.000	4.53E-09	5.75E-08	0.00E+00	0.06	0.000
601880	4132360	0.001	0.000	0.000	5.30E-09	6.72E-08	0.00E+00	0.07	0.000
601640	4132380	0.000	0.000	0.000	7.84E-10	9.93E-09	0.00E+00	0.01	0.000
601660	4132380	0.000	0.000	0.000	8.92E-10	1.13E-08	0.00E+00	0.01	0.000
601680	4132380	0.000	0.000	0.000	1.03E-09	1.30E-08	0.00E+00	0.01	0.000
601700	4132380	0.000	0.000	0.000	1.20E-09	1.52E-08	0.00E+00	0.02	0.000
601720	4132380	0.000	0.000	0.000	1.43E-09	1.81E-08	0.00E+00	0.02	0.000
601840	4132380	0.001	0.000	0.000	4.74E-09	6.01E-08	0.00E+00	0.06	0.000
601860	4132380	0.001	0.000	0.000	5.66E-09	7.18E-08	0.00E+00	0.08	0.000
601880	4132380	0.001	0.000	0.000	6.61E-09	8.38E-08	0.00E+00	0.09	0.000
601900	4132380	0.001	0.001	0.000	7.52E-09	9.53E-08	0.00E+00	0.10	0.000
601660	4132400	0.000	0.000	0.000	1.01E-09	1.28E-08	0.00E+00	0.01	0.000
601680	4132400	0.000	0.000	0.000	1.18E-09	1.49E-08	0.00E+00	0.02	0.000

Diesel Particulate Matter concentration, C_{DPM} (ug/m^3) — Risk Calculation Part 2 — Hazard Index Calculation

		FS-8 Construction			∑R1*C_{DPM}				C_{DPM}/REL
X (UTM)	Y (UTM	2022	2023	2024	3rd Trimester	0<2	2<16	Total	
601700	4132400	0.000	0.000	0.000	1.39E-09	1.76E-08	0.00E+00	0.02	0.000
601720	4132400	0.000	0.000	0.000	1.68E-09	2.12E-08	0.00E+00	0.02	0.000
601840	4132400	0.001	0.000	0.000	6.02E-09	7.63E-08	0.00E+00	0.08	0.000
601860	4132400	0.001	0.001	0.000	7.17E-09	9.09E-08	0.00E+00	0.10	0.000
601880	4132400	0.001	0.001	0.001	8.32E-09	1.05E-07	0.00E+00	0.11	0.000
601900	4132400	0.001	0.001	0.001	9.31E-09	1.18E-07	0.00E+00	0.13	0.000
601920	4132400	0.001	0.001	0.001	1.02E-08	1.29E-07	0.00E+00	0.14	0.000
601680	4132420	0.000	0.000	0.000	1.36E-09	1.73E-08	0.00E+00	0.02	0.000
601700	4132420	0.000	0.000	0.000	1.63E-09	2.07E-08	0.00E+00	0.02	0.000
601720	4132420	0.000	0.000	0.000	2.00E-09	2.53E-08	0.00E+00	0.03	0.000
601740	4132420	0.000	0.000	0.000	2.49E-09	3.16E-08	0.00E+00	0.03	0.000
601800	4132420	0.001	0.000	0.000	5.10E-09	6.47E-08	0.00E+00	0.07	0.000
601820	4132420	0.001	0.000	0.000	6.37E-09	8.07E-08	0.00E+00	0.09	0.000
601840	4132420	0.001	0.001	0.000	7.77E-09	9.84E-08	0.00E+00	0.11	0.000
601860	4132420	0.001	0.001	0.001	9.21E-09	1.17E-07	0.00E+00	0.13	0.000
601880	4132420	0.001	0.001	0.001	1.05E-08	1.33E-07	0.00E+00	0.14	0.000
601900	4132420	0.001	0.001	0.001	1.16E-08	1.47E-07	0.00E+00	0.16	0.000
601920	4132420	0.001	0.001	0.001	1.25E-08	1.59E-07	0.00E+00	0.17	0.000
601940	4132420	0.001	0.001	0.001	1.32E-08	1.67E-07	0.00E+00	0.18	0.000
601960	4132420	0.001	0.001	0.001	1.35E-08	1.71E-07	0.00E+00	0.18	0.000
601700	4132440	0.000	0.000	0.000	1.95E-09	2.47E-08	0.00E+00	0.03	0.000
601720	4132440	0.000	0.000	0.000	2.43E-09	3.08E-08	0.00E+00	0.03	0.000
601740	4132440	0.000	0.000	0.000	3.09E-09	3.92E-08	0.00E+00	0.04	0.000
601780	4132440	0.001	0.000	0.000	5.21E-09	6.61E-08	0.00E+00	0.07	0.000
601800	4132440	0.001	0.000	0.000	6.67E-09	8.45E-08	0.00E+00	0.09	0.000
601820	4132440	0.001	0.001	0.001	8.36E-09	1.06E-07	0.00E+00	0.11	0.000
601840	4132440	0.001	0.001	0.001	1.02E-08	1.29E-07	0.00E+00	0.14	0.000
601860	4132440	0.001	0.001	0.001	1.19E-08	1.51E-07	0.00E+00	0.16	0.000
601880	4132440	0.001	0.001	0.001	1.34E-08	1.69E-07	0.00E+00	0.18	0.000
601900	4132440	0.002	0.001	0.001	1.46E-08	1.85E-07	0.00E+00	0.20	0.000
601920	4132440	0.002	0.001	0.001	1.54E-08	1.95E-07	0.00E+00	0.21	0.000
601940	4132440	0.002	0.001	0.001	1.59E-08	2.01E-07	0.00E+00	0.22	0.000
601960	4132440	0.002	0.001	0.001	1.59E-08	2.01E-07	0.00E+00	0.22	0.000
601680	4132460	0.000	0.000	0.000	1.90E-09	2.41E-08	0.00E+00	0.03	0.000
601700	4132460	0.000	0.000	0.000	2.36E-09	2.99E-08	0.00E+00	0.03	0.000
601720	4132460	0.000	0.000	0.000	3.01E-09	3.81E-08	0.00E+00	0.04	0.000
601780	4132460	0.001	0.001	0.000	6.90E-09	8.74E-08	0.00E+00	0.09	0.000
601800	4132460	0.001	0.001	0.001	8.95E-09	1.13E-07	0.00E+00	0.12	0.000
601820	4132460	0.001	0.001	0.001	1.13E-08	1.43E-07	0.00E+00	0.15	0.000
601840	4132460	0.001	0.001	0.001	1.36E-08	1.72E-07	0.00E+00	0.19	0.000
601860	4132460	0.002	0.001	0.001	1.55E-08	1.97E-07	0.00E+00	0.21	0.000
601880	4132460	0.002	0.001	0.001	1.72E-08	2.17E-07	0.00E+00	0.23	0.000
601900	4132460	0.002	0.001	0.001	1.83E-08	2.32E-07	0.00E+00	0.25	0.000
601920	4132460	0.002	0.001	0.001	1.89E-08	2.39E-07	0.00E+00	0.26	0.000
601940	4132460	0.002	0.001	0.001	1.89E-08	2.40E-07	0.00E+00	0.26	0.000
601960	4132460	0.002	0.001	0.001	1.86E-08	2.35E-07	0.00E+00	0.25	0.000
601980	4132460	0.002	0.001	0.001	1.79E-08	2.27E-07	0.00E+00	0.24	0.000
601680	4132480	0.000	0.000	0.000	2.30E-09	2.92E-08	0.00E+00	0.03	0.000
601700	4132480	0.000	0.000	0.000	2.91E-09	3.69E-08	0.00E+00	0.04	0.000
601720	4132480	0.000	0.000	0.000	3.82E-09	4.84E-08	0.00E+00	0.05	0.000
601800	4132480	0.001	0.001	0.001	1.25E-08	1.58E-07	0.00E+00	0.17	0.000
601820	4132480	0.002	0.001	0.001	1.56E-08	1.98E-07	0.00E+00	0.21	0.000
601840	4132480	0.002	0.001	0.001	1.83E-08	2.32E-07	0.00E+00	0.25	0.000
601860	4132480	0.002	0.002	0.001	2.05E-08	2.60E-07	0.00E+00	0.28	0.000
601880	4132480	0.002	0.002	0.001	2.21E-08	2.80E-07	0.00E+00	0.30	0.000
601900	4132480	0.002	0.002	0.001	2.28E-08	2.90E-07	0.00E+00	0.31	0.000
601920	4132480	0.002	0.002	0.001	2.29E-08	2.90E-07	0.00E+00	0.31	0.000
601940	4132480	0.002	0.002	0.001	2.23E-08	2.83E-07	0.00E+00	0.30	0.000
601960	4132480	0.002	0.002	0.001	2.13E-08	2.70E-07	0.00E+00	0.29	0.000
601980	4132480	0.002	0.001	0.001	2.01E-08	2.54E-07	0.00E+00	0.27	0.000
602000	4132480	0.002	0.001	0.001	1.86E-08	2.36E-07	0.00E+00	0.25	0.000
601700	4132500	0.000	0.000	0.000	3.69E-09	4.67E-08	0.00E+00	0.05	0.000
601820	4132500	0.002	0.002	0.001	2.19E-08	2.77E-07	0.00E+00	0.30	0.000
601840	4132500	0.003	0.002	0.002	2.50E-08	3.17E-07	0.00E+00	0.34	0.001
601860	4132500	0.003	0.002	0.002	2.72E-08	3.44E-07	0.00E+00	0.37	0.001
601880	4132500	0.003	0.002	0.002	2.82E-08	3.57E-07	0.00E+00	0.39	0.001
601900	4132500	0.003	0.002	0.002	2.80E-08	3.55E-07	0.00E+00	0.38	0.001
601920	4132500	0.003	0.002	0.002	2.71E-08	3.43E-07	0.00E+00	0.37	0.001
601940	4132500	0.003	0.002	0.002	2.56E-08	3.25E-07	0.00E+00	0.35	0.001
601960	4132500	0.003	0.002	0.001	2.38E-08	3.02E-07	0.00E+00	0.33	0.001
601980	4132500	0.002	0.002	0.001	2.18E-08	2.76E-07	0.00E+00	0.30	0.000
602000	4132500	0.002	0.001	0.001	1.98E-08	2.51E-07	0.00E+00	0.27	0.000
602020	4132500	0.002	0.001	0.001	1.79E-08	2.27E-07	0.00E+00	0.24	0.000
601800	4132520	0.003	0.002	0.002	2.65E-08	3.36E-07	0.00E+00	0.36	0.001
601820	4132520	0.003	0.002	0.002	3.12E-08	3.96E-07	0.00E+00	0.43	0.001
601840	4132520	0.004	0.003	0.002	3.44E-08	4.35E-07	0.00E+00	0.47	0.001
601860	4132520	0.004	0.003	0.002	3.57E-08	4.52E-07	0.00E+00	0.49	0.001
601880	4132520	0.004	0.003	0.002	3.53E-08	4.47E-07	0.00E+00	0.48	0.001
601900	4132520	0.004	0.002	0.002	3.36E-08	4.26E-07	0.00E+00	0.46	0.001
601920	4132520	0.003	0.002	0.002	3.12E-08	3.96E-07	0.00E+00	0.43	0.001
601940	4132520	0.003	0.002	0.002	2.86E-08	3.62E-07	0.00E+00	0.39	0.001
601960	4132520	0.003	0.002	0.002	2.57E-08	3.26E-07	0.00E+00	0.35	0.001
601980	4132520	0.002	0.002	0.001	2.30E-08	2.91E-07	0.00E+00	0.31	0.000
602000	4132520	0.002	0.001	0.001	2.04E-08	2.59E-07	0.00E+00	0.28	0.000
602020	4132520	0.002	0.001	0.001	1.81E-08	2.29E-07	0.00E+00	0.25	0.000

All Receptors - Unmitigated Construction Annual Average $PM_{2.5}$ Concentration

				Days					Total Unmitigated $PM_{2.5}$ (tons)
			Start	6/1/2022	8/31/2022	8/31/2024			
			Stop	44803.00	8/30/2024				
				90	730				
Phase Name	Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Exposure Days	Calendar Days	Onsite Offroad
FS-32 Construction	2022	6/1/2022	8/1/2022	62.00	0.00	0	62	62	1.54E-02
	2023	3/1/2023	12/31/2023	0.00	306.00	0	306	306	3.70E-02
	2024	1/1/2024	4/1/2024	0.00	92.00	0	92	92	8.67E-03

Phase Name	Construction Year	Start Date	End Date	Total Unmitigated $PM_{2.5}$ (g/s) CSTN
FS-32 Construction	2022	6/1/2022	8/1/2022	2.61E-03
	2023	3/1/2023	12/31/2023	1.27E-03
	2024	1/1/2024	4/1/2024	9.89E-04

	MAX	UTM X	UTM Y	
Annual Average $PM_{2.5}$ Concentration	0.20	601820	4132580	Potential Residence

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		FS-8 Construction		
X (UTM)	Y (UTM	2022	2023	2024
601660	4132320	0.002	0.001	0.001
601680	4132320	0.002	0.001	0.001
601700	4132320	0.002	0.001	0.001
601720	4132320	0.002	0.001	0.001
601740	4132320	0.003	0.001	0.001
601760	4132320	0.003	0.001	0.001
601620	4132340	0.001	0.001	0.001
601640	4132340	0.001	0.001	0.001
601660	4132340	0.002	0.001	0.001
601680	4132340	0.002	0.001	0.001
601700	4132340	0.002	0.001	0.001
601720	4132340	0.003	0.001	0.001
601740	4132340	0.003	0.001	0.001
601760	4132340	0.003	0.002	0.001
601780	4132340	0.004	0.002	0.002
601800	4132340	0.005	0.002	0.002
601820	4132340	0.006	0.003	0.002
601620	4132360	0.001	0.001	0.001
601640	4132360	0.002	0.001	0.001
601660	4132360	0.002	0.001	0.001
601680	4132360	0.002	0.001	0.001
601700	4132360	0.002	0.001	0.001
601720	4132360	0.003	0.001	0.001
601740	4132360	0.003	0.002	0.001
601820	4132360	0.007	0.004	0.003
601840	4132360	0.009	0.004	0.003
601860	4132360	0.011	0.005	0.004
601880	4132360	0.012	0.006	0.005
601640	4132380	0.002	0.001	0.001
601660	4132380	0.002	0.001	0.001
601680	4132380	0.002	0.001	0.001
601700	4132380	0.003	0.001	0.001
601720	4132380	0.003	0.002	0.001
601840	4132380	0.011	0.005	0.004
601860	4132380	0.013	0.006	0.005
601880	4132380	0.016	0.008	0.006
601900	4132380	0.018	0.009	0.007
601660	4132400	0.002	0.001	0.001
601680	4132400	0.003	0.001	0.001
601700	4132400	0.003	0.002	0.001
601720	4132400	0.004	0.002	0.001
601840	4132400	0.014	0.007	0.005
601860	4132400	0.017	0.008	0.006
601880	4132400	0.020	0.010	0.007
601900	4132400	0.022	0.011	0.008
601920	4132400	0.024	0.012	0.009
601680	4132420	0.003	0.002	0.001
601700	4132420	0.004	0.002	0.001
601720	4132420	0.005	0.002	0.002
601740	4132420	0.006	0.003	0.002
601800	4132420	0.012	0.006	0.005
601820	4132420	0.015	0.007	0.006
601840	4132420	0.018	0.009	0.007
601860	4132420	0.022	0.011	0.008
601880	4132420	0.025	0.012	0.009
601900	4132420	0.027	0.013	0.010

Annual Average $PM_{2.5}$ Concentration

max	max year
1.51E-03	2022
1.69E-03	2022
1.92E-03	2022
2.21E-03	2022
2.57E-03	2022
3.02E-03	2022
1.33E-03	2022
1.49E-03	2022
1.67E-03	2022
1.89E-03	2022
2.16E-03	2022
2.51E-03	2022
2.95E-03	2022
3.50E-03	2022
4.19E-03	2022
5.05E-03	2022
6.12E-03	2022
1.47E-03	2022
1.65E-03	2022
1.86E-03	2022
2.13E-03	2022
2.46E-03	2022
2.88E-03	2022
3.42E-03	2022
7.41E-03	2022
8.94E-03	2022
1.06E-02	2022
1.24E-02	2022
1.84E-03	2022
2.09E-03	2022
2.41E-03	2022
2.82E-03	2022
3.35E-03	2022
1.11E-02	2022
1.33E-02	2022
1.55E-02	2022
1.77E-02	2022
2.38E-03	2022
2.77E-03	2022
3.27E-03	2022
3.93E-03	2022
1.41E-02	2022
1.68E-02	2022
1.95E-02	2022
2.19E-02	2022
2.39E-02	2022
3.20E-03	2022
3.84E-03	2022
4.69E-03	2022
5.85E-03	2022
1.20E-02	2022
1.49E-02	2022
1.82E-02	2022
2.16E-02	2022
2.46E-02	2022
2.73E-02	2022

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		FS-8 Construction			Annual Average $PM_{2.5}$ Concentration	
X (UTM)	Y (UTM	2022	2023	2024	max	max year
601920	4132420	0.029	0.014	0.011	2.94E-02	2022
601940	4132420	0.031	0.015	0.012	3.09E-02	2022
601960	4132420	0.032	0.015	0.012	3.16E-02	2022
601700	4132440	0.005	0.002	0.002	4.57E-03	2022
601720	4132440	0.006	0.003	0.002	5.70E-03	2022
601740	4132440	0.007	0.004	0.003	7.26E-03	2022
601780	4132440	0.012	0.006	0.005	1.22E-02	2022
601800	4132440	0.016	0.008	0.006	1.57E-02	2022
601820	4132440	0.020	0.010	0.007	1.96E-02	2022
601840	4132440	0.024	0.012	0.009	2.40E-02	2022
601860	4132440	0.028	0.014	0.011	2.80E-02	2022
601880	4132440	0.031	0.015	0.012	3.14E-02	2022
601900	4132440	0.034	0.017	0.013	3.42E-02	2022
601920	4132440	0.036	0.018	0.014	3.62E-02	2022
601940	4132440	0.037	0.018	0.014	3.72E-02	2022
601960	4132440	0.037	0.018	0.014	3.73E-02	2022
601680	4132460	0.004	0.002	0.002	4.47E-03	2022
601700	4132460	0.006	0.003	0.002	5.53E-03	2022
601720	4132460	0.007	0.003	0.003	7.06E-03	2022
601780	4132460	0.016	0.008	0.006	1.62E-02	2022
601800	4132460	0.021	0.010	0.008	2.10E-02	2022
601820	4132460	0.027	0.013	0.010	2.65E-02	2022
601840	4132460	0.032	0.016	0.012	3.19E-02	2022
601860	4132460	0.036	0.018	0.014	3.65E-02	2022
601880	4132460	0.040	0.020	0.015	4.03E-02	2022
601900	4132460	0.043	0.021	0.016	4.29E-02	2022
601920	4132460	0.044	0.022	0.017	4.43E-02	2022
601940	4132460	0.044	0.022	0.017	4.45E-02	2022
601960	4132460	0.044	0.021	0.017	4.36E-02	2022
601980	4132460	0.042	0.020	0.016	4.21E-02	2022
601680	4132480	0.005	0.003	0.002	5.40E-03	2022
601700	4132480	0.007	0.003	0.003	6.83E-03	2022
601720	4132480	0.009	0.004	0.003	8.97E-03	2022
601800	4132480	0.029	0.014	0.011	2.93E-02	2022
601820	4132480	0.037	0.018	0.014	3.66E-02	2022
601840	4132480	0.043	0.021	0.016	4.30E-02	2022
601860	4132480	0.048	0.023	0.018	4.82E-02	2022
601880	4132480	0.052	0.025	0.020	5.18E-02	2022
601900	4132480	0.054	0.026	0.020	5.36E-02	2022
601920	4132480	0.054	0.026	0.020	5.37E-02	2022
601940	4132480	0.052	0.025	0.020	5.23E-02	2022
601960	4132480	0.050	0.024	0.019	5.00E-02	2022
601980	4132480	0.047	0.023	0.018	4.71E-02	2022
602000	4132480	0.044	0.021	0.017	4.38E-02	2022
601700	4132500	0.009	0.004	0.003	8.66E-03	2022
601820	4132500	0.051	0.025	0.019	5.13E-02	2022
601840	4132500	0.059	0.029	0.022	5.87E-02	2022
601860	4132500	0.064	0.031	0.024	6.38E-02	2022
601880	4132500	0.066	0.032	0.025	6.62E-02	2022
601900	4132500	0.066	0.032	0.025	6.58E-02	2022
601920	4132500	0.064	0.031	0.024	6.36E-02	2022
601940	4132500	0.060	0.029	0.023	6.01E-02	2022
601960	4132500	0.056	0.027	0.021	5.59E-02	2022
601980	4132500	0.051	0.025	0.019	5.12E-02	2022
602000	4132500	0.046	0.023	0.018	4.65E-02	2022
602020	4132500	0.042	0.020	0.016	4.20E-02	2022
601800	4132520	0.062	0.030	0.024	6.22E-02	2022
601820	4132520	0.073	0.036	0.028	7.33E-02	2022
601840	4132520	0.081	0.039	0.031	8.06E-02	2022
601860	4132520	0.084	0.041	0.032	8.37E-02	2022
601880	4132520	0.083	0.040	0.031	8.28E-02	2022
601900	4132520	0.079	0.038	0.030	7.90E-02	2022
601920	4132520	0.073	0.036	0.028	7.34E-02	2022
601940	4132520	0.067	0.033	0.025	6.70E-02	2022
601960	4132520	0.060	0.029	0.023	6.04E-02	2022
601980	4132520	0.054	0.026	0.020	5.40E-02	2022
602000	4132520	0.048	0.023	0.018	4.79E-02	2022
602020	4132520	0.042	0.021	0.016	4.24E-02	2022
601780	4132540	0.076	0.037	0.029	7.65E-02	2022
601800	4132540	0.094	0.046	0.036	9.38E-02	2022
601820	4132540	0.105	0.051	0.040	1.05E-01	2022
601840	4132540	0.109	0.053	0.042	1.09E-01	2022
601860	4132540	0.107	0.052	0.041	1.07E-01	2022
601880	4132540	0.100	0.049	0.038	1.00E-01	2022
601900	4132540	0.092	0.045	0.035	9.15E-02	2022
601920	4132540	0.082	0.040	0.031	8.17E-02	2022
601940	4132540	0.072	0.035	0.027	7.19E-02	2022
601960	4132540	0.063	0.031	0.024	6.28E-02	2022
601980	4132540	0.055	0.027	0.021	5.46E-02	2022
602000	4132540	0.047	0.023	0.018	4.74E-02	2022
602020	4132540	0.041	0.020	0.016	4.11E-02	2022
601780	4132560	0.124	0.061	0.047	1.24E-01	2022
601800	4132560	0.143	0.069	0.054	1.43E-01	2022
601820	4132560	0.148	0.072	0.056	1.48E-01	2022

All Receptors - Mitigated Construction Annual Average $PM_{2.5}$ Concentration

				Days					Total Mitigated $PM_{2.5}$ (tons)
			Start	6/1/2022	8/31/2022	8/31/2024			
			Stop	44803.00	8/30/2024				
				90	730				
Phase Name	Construction Year	Start Date	End Date	3rd Trimester	Age 0<2	Age 2<16	Exposure Days	Calendar Days	Onsite Offroad
FS-32 Construction	2022	6/1/2022	8/1/2022	62.00	0.00	0	62	62	7.10E-04
	2023	3/1/2023	12/31/2023	0.00	306.00	0	306	306	2.37E-03
	2024	1/1/2024	4/1/2024	0.00	92.00	0	92	92	6.10E-04

Phase Name	Construction Year	Start Date	End Date	Total Mitigated $PM_{2.5}$ (g/s) CSTN
FS-32 Construction	2022	6/1/2022	8/1/2022	1.20E-04
	2023	3/1/2023	12/31/2023	8.13E-05
	2024	1/1/2024	4/1/2024	6.96E-05

	MAX	UTM X	UTM Y	
Annual Average $PM_{2.5}$ Concentration	0.01	601820	4132580	Potential Residence

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		FS-8 Construction		
X (UTM)	Y (UTM	2022	2023	2024
601660	4132320	0.000	0.000	0.000
601680	4132320	0.000	0.000	0.000
601700	4132320	0.000	0.000	0.000
601720	4132320	0.000	0.000	0.000
601740	4132320	0.000	0.000	0.000
601760	4132320	0.000	0.000	0.000
601620	4132340	0.000	0.000	0.000
601640	4132340	0.000	0.000	0.000
601660	4132340	0.000	0.000	0.000
601680	4132340	0.000	0.000	0.000
601700	4132340	0.000	0.000	0.000
601720	4132340	0.000	0.000	0.000
601740	4132340	0.000	0.000	0.000
601760	4132340	0.000	0.000	0.000
601780	4132340	0.000	0.000	0.000
601800	4132340	0.000	0.000	0.000
601820	4132340	0.000	0.000	0.000
601620	4132360	0.000	0.000	0.000
601640	4132360	0.000	0.000	0.000
601660	4132360	0.000	0.000	0.000
601680	4132360	0.000	0.000	0.000
601700	4132360	0.000	0.000	0.000
601720	4132360	0.000	0.000	0.000
601740	4132360	0.000	0.000	0.000
601820	4132360	0.000	0.000	0.000
601840	4132360	0.000	0.000	0.000
601860	4132360	0.000	0.000	0.000
601880	4132360	0.001	0.000	0.000
601640	4132380	0.000	0.000	0.000
601660	4132380	0.000	0.000	0.000
601680	4132380	0.000	0.000	0.000
601700	4132380	0.000	0.000	0.000
601720	4132380	0.000	0.000	0.000
601840	4132380	0.001	0.000	0.000
601860	4132380	0.001	0.000	0.000
601880	4132380	0.001	0.000	0.000
601900	4132380	0.001	0.001	0.000
601660	4132400	0.000	0.000	0.000
601680	4132400	0.000	0.000	0.000
601700	4132400	0.000	0.000	0.000
601720	4132400	0.000	0.000	0.000
601840	4132400	0.001	0.000	0.000
601860	4132400	0.001	0.001	0.000
601880	4132400	0.001	0.001	0.001
601900	4132400	0.001	0.001	0.001
601920	4132400	0.001	0.001	0.001
601680	4132420	0.000	0.000	0.000
601700	4132420	0.000	0.000	0.000
601720	4132420	0.000	0.000	0.000
601740	4132420	0.000	0.000	0.000
601800	4132420	0.001	0.000	0.000
601820	4132420	0.001	0.000	0.000
601840	4132420	0.001	0.001	0.000
601860	4132420	0.001	0.001	0.001
601880	4132420	0.001	0.001	0.001
601900	4132420	0.001	0.001	0.001

Annual Average $PM_{2.5}$ Concentration

max	max year
6.95E-05	2022
7.81E-05	2022
8.84E-05	2022
1.02E-04	2022
1.19E-04	2022
1.39E-04	2022
6.13E-05	2022
6.85E-05	2022
7.69E-05	2022
8.72E-05	2022
9.96E-05	2022
1.16E-04	2022
1.36E-04	2022
1.61E-04	2022
1.93E-04	2022
2.33E-04	2022
2.82E-04	2022
6.76E-05	2022
7.59E-05	2022
8.59E-05	2022
9.80E-05	2022
1.13E-04	2022
1.33E-04	2022
1.57E-04	2022
3.42E-04	2022
4.12E-04	2022
4.91E-04	2022
5.74E-04	2022
8.48E-05	2022
9.65E-05	2022
1.11E-04	2022
1.30E-04	2022
1.54E-04	2022
5.13E-04	2022
6.13E-04	2022
7.16E-04	2022
8.14E-04	2022
1.10E-04	2022
1.28E-04	2022
1.51E-04	2022
1.81E-04	2022
6.52E-04	2022
7.76E-04	2022
9.00E-04	2022
1.01E-03	2022
1.10E-03	2022
1.48E-04	2022
1.77E-04	2022
2.16E-04	2022
2.70E-04	2022
5.52E-04	2022
6.89E-04	2022
8.40E-04	2022
9.96E-04	2022
1.14E-03	2022
1.26E-03	2022

Particulate Matter concentration, $C_{PM2.5}$ (ug/m^3)

		FS-8 Construction			Annual Average $PM_{2.5}$ Concentration	
X (UTM)	Y (UTM	2022	2023	2024	max	max year
601920	4132420	0.001	0.001	0.001	1.35E-03	2022
601940	4132420	0.001	0.001	0.001	1.42E-03	2022
601960	4132420	0.001	0.001	0.001	1.46E-03	2022
601700	4132440	0.000	0.000	0.000	2.11E-04	2022
601720	4132440	0.000	0.000	0.000	2.63E-04	2022
601740	4132440	0.000	0.000	0.000	3.35E-04	2022
601780	4132440	0.001	0.000	0.000	5.64E-04	2022
601800	4132440	0.001	0.000	0.000	7.22E-04	2022
601820	4132440	0.001	0.001	0.001	9.05E-04	2022
601840	4132440	0.001	0.001	0.001	1.10E-03	2022
601860	4132440	0.001	0.001	0.001	1.29E-03	2022
601880	4132440	0.001	0.001	0.001	1.45E-03	2022
601900	4132440	0.002	0.001	0.001	1.58E-03	2022
601920	4132440	0.002	0.001	0.001	1.67E-03	2022
601940	4132440	0.002	0.001	0.001	1.72E-03	2022
601960	4132440	0.002	0.001	0.001	1.72E-03	2022
601680	4132460	0.000	0.000	0.000	2.06E-04	2022
601700	4132460	0.000	0.000	0.000	2.55E-04	2022
601720	4132460	0.000	0.000	0.000	3.26E-04	2022
601780	4132460	0.001	0.001	0.000	7.47E-04	2022
601800	4132460	0.001	0.001	0.001	9.69E-04	2022
601820	4132460	0.001	0.001	0.001	1.22E-03	2022
601840	4132460	0.001	0.001	0.001	1.47E-03	2022
601860	4132460	0.002	0.001	0.001	1.68E-03	2022
601880	4132460	0.002	0.001	0.001	1.86E-03	2022
601900	4132460	0.002	0.001	0.001	1.98E-03	2022
601920	4132460	0.002	0.001	0.001	2.04E-03	2022
601940	4132460	0.002	0.001	0.001	2.05E-03	2022
601960	4132460	0.002	0.001	0.001	2.01E-03	2022
601980	4132460	0.002	0.001	0.001	1.94E-03	2022
601680	4132480	0.000	0.000	0.000	2.49E-04	2022
601700	4132480	0.000	0.000	0.000	3.15E-04	2022
601720	4132480	0.000	0.000	0.000	4.14E-04	2022
601800	4132480	0.001	0.001	0.001	1.35E-03	2022
601820	4132480	0.002	0.001	0.001	1.69E-03	2022
601840	4132480	0.002	0.001	0.001	1.98E-03	2022
601860	4132480	0.002	0.002	0.001	2.22E-03	2022
601880	4132480	0.002	0.002	0.001	2.39E-03	2022
601900	4132480	0.002	0.002	0.001	2.47E-03	2022
601920	4132480	0.002	0.002	0.001	2.47E-03	2022
601940	4132480	0.002	0.002	0.001	2.41E-03	2022
601960	4132480	0.002	0.002	0.001	2.31E-03	2022
601980	4132480	0.002	0.001	0.001	2.17E-03	2022
602000	4132480	0.002	0.001	0.001	2.02E-03	2022
601700	4132500	0.000	0.000	0.000	3.99E-04	2022
601820	4132500	0.002	0.002	0.001	2.37E-03	2022
601840	4132500	0.003	0.002	0.002	2.71E-03	2022
601860	4132500	0.003	0.002	0.002	2.94E-03	2022
601880	4132500	0.003	0.002	0.002	3.05E-03	2022
601900	4132500	0.003	0.002	0.002	3.04E-03	2022
601920	4132500	0.003	0.002	0.002	2.93E-03	2022
601940	4132500	0.003	0.002	0.002	2.77E-03	2022
601960	4132500	0.003	0.002	0.001	2.58E-03	2022
601980	4132500	0.002	0.002	0.001	2.36E-03	2022
602000	4132500	0.002	0.001	0.001	2.14E-03	2022
602020	4132500	0.002	0.001	0.001	1.94E-03	2022
601800	4132520	0.003	0.002	0.002	2.87E-03	2022
601820	4132520	0.003	0.002	0.002	3.38E-03	2022
601840	4132520	0.004	0.003	0.002	3.72E-03	2022
601860	4132520	0.004	0.003	0.002	3.86E-03	2022
601880	4132520	0.004	0.003	0.002	3.82E-03	2022
601900	4132520	0.004	0.002	0.002	3.64E-03	2022
601920	4132520	0.003	0.002	0.002	3.38E-03	2022
601940	4132520	0.003	0.002	0.002	3.09E-03	2022
601960	4132520	0.003	0.002	0.002	2.78E-03	2022
601980	4132520	0.002	0.002	0.001	2.49E-03	2022
602000	4132520	0.002	0.001	0.001	2.21E-03	2022
602020	4132520	0.002	0.001	0.001	1.95E-03	2022
601780	4132540	0.004	0.002	0.002	3.53E-03	2022
601800	4132540	0.004	0.003	0.003	4.32E-03	2022
601820	4132540	0.005	0.003	0.003	4.85E-03	2022
601840	4132540	0.005	0.003	0.003	5.04E-03	2022
601860	4132540	0.005	0.003	0.003	4.94E-03	2022
601880	4132540	0.005	0.003	0.003	4.63E-03	2022
601900	4132540	0.004	0.003	0.002	4.22E-03	2022
601920	4132540	0.004	0.003	0.002	3.77E-03	2022
601940	4132540	0.003	0.002	0.002	3.32E-03	2022
601960	4132540	0.003	0.002	0.002	2.90E-03	2022
601980	4132540	0.003	0.002	0.001	2.52E-03	2022
602000	4132540	0.002	0.001	0.001	2.18E-03	2022
602020	4132540	0.002	0.001	0.001	1.89E-03	2022
601780	4132560	0.006	0.004	0.003	5.74E-03	2022
601800	4132560	0.007	0.004	0.004	6.57E-03	2022
601820	4132560	0.007	0.005	0.004	6.84E-03	2022

* X	Y A	VERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
601660	4132320	0.57797	31.65	31.65	1.5	PERIOD	CSTN		43824
601680	4132320	0.64989	31.84	31.84	1.5	PERIOD	CSTN		43824
601700	4132320	0.73523	32.32	32.32	1.5	PERIOD	CSTN		43824
601720	4132320	0.84571	32.22	32.22	1.5	PERIOD	CSTN		43824
601740	4132320	0.98732	31.84	31.84	1.5	PERIOD	CSTN		43824
601760	4132320	1.15618	32.25	32.25	1.5	PERIOD	CSTN		43824
601620	4132340	0.50994	31.57	31.57	1.5	PERIOD	CSTN		43824
601640	4132340	0.56995	31.74	31.74	1.5	PERIOD	CSTN		43824
601660	4132340	0.6395	32.07	32.07	1.5	PERIOD	CSTN		43824
601680	4132340	0.7251	32.09	32.09	1.5	PERIOD	CSTN		43824
601700	4132340	0.82803	32.4	32.4	1.5	PERIOD	CSTN		43824
601720	4132340	0.96154	32.29	32.29	1.5	PERIOD	CSTN		43824
601740	4132340	1.13208	32.13	32.13	1.5	PERIOD	CSTN		43824
601760	4132340	1.3412	32.49	32.49	1.5	PERIOD	CSTN		43824
601780	4132340	1.60555	32.7	32.7	1.5	PERIOD	CSTN		43824
601800	4132340	1.93539	32.7	32.7	1.5	PERIOD	CSTN		43824
601820	4132340	2.34696	32.17	32.17	1.5	PERIOD	CSTN		43824
601620	4132360	0.56204	31.86	31.86	1.5	PERIOD	CSTN		43824
601640	4132360	0.63096	32.11	32.11	1.5	PERIOD	CSTN		43824
601660	4132360	0.71405	32.2	32.2	1.5	PERIOD	CSTN		43824
601680	4132360	0.81495	32.3	32.3	1.5	PERIOD	CSTN		43824
601700	4132360	0.94349	32.15	32.15	1.5	PERIOD	CSTN		43824
601720	4132360	1.10271	32.41	32.41	1.5	PERIOD	CSTN		43824
601740	4132360	1.3098	32.53	32.53	1.5	PERIOD	CSTN		43824
601820	4132360	2.84175	32.66	32.66	1.5	PERIOD	CSTN		43824
601840	4132360	3.42809	32.63	32.63	1.5	PERIOD	CSTN		43824
601860	4132360	4.08071	32.53	32.53	1.5	PERIOD	CSTN		43824
601880	4132360	4.77166	32.39	32.39	1.5	PERIOD	CSTN		43824
601640	4132380	0.70534	32.16	32.16	1.5	PERIOD	CSTN		43824
601660	4132380	0.80279	32.35	32.35	1.5	PERIOD	CSTN		43824
601680	4132380	0.92597	32.24	32.24	1.5	PERIOD	CSTN		43824
601700	4132380	1.08207	32.16	32.16	1.5	PERIOD	CSTN		43824
601720	4132380	1.28344	32.18	32.18	1.5	PERIOD	CSTN		43824
601840	4132380	4.26502	32.66	32.66	1.5	PERIOD	CSTN		43824
601860	4132380	5.09761	32.32	32.32	1.5	PERIOD	CSTN		43824
601880	4132380	5.9529	32	32	1.5	PERIOD	CSTN		43824
601900	4132380	6.77112	31.83	31.83	1.5	PERIOD	CSTN		43824
601660	4132400	0.91184	32.31	32.31	1.5	PERIOD	CSTN		43824
601680	4132400	1.06097	32.25	32.25	1.5	PERIOD	CSTN		43824
601700	4132400	1.25334	32.22	32.22	1.5	PERIOD	CSTN		43824
601720	4132400	1.50797	32.2	32.2	1.5	PERIOD	CSTN		43824
601840	4132400	5.42089	32.33	32.33	1.5	PERIOD	CSTN		43824
601860	4132400	6.45575	32.12	32.12	1.5	PERIOD	CSTN		43824
601880	4132400	7.48495	31.85	31.85	1.5	PERIOD	CSTN		43824
601900	4132400	8.38178	32.17	32.17	1.5	PERIOD	CSTN		43824
601920	4132400	9.15923	32.34	32.34	1.5	PERIOD	CSTN		43824
601680	4132420	1.22792	32.29	32.29	1.5	PERIOD	CSTN		43824
601700	4132420	1.47051	32.22	32.22	1.5	PERIOD	CSTN		43824
601720	4132420	1.79799	32.2	32.2	1.5	PERIOD	CSTN		43824
601740	4132420	2.24474	32.18	32.18	1.5	PERIOD	CSTN		43824
601800	4132420	4.59423	32.3	32.3	1.5	PERIOD	CSTN		43824

601820	4132420	5.73023	32.35	32.35	1.5 PERIOD	CSTN	43824
601840	4132420	6.9895	32.22	32.22	1.5 PERIOD	CSTN	43824
601860	4132420	8.28681	31.93	31.93	1.5 PERIOD	CSTN	43824
601880	4132420	9.45054	32.15	32.15	1.5 PERIOD	CSTN	43824
601900	4132420	10.4504	32.38	32.38	1.5 PERIOD	CSTN	43824
601920	4132420	11.26156	32.36	32.36	1.5 PERIOD	CSTN	43824
601940	4132420	11.84965	32.14	32.14	1.5 PERIOD	CSTN	43824
601960	4132420	12.12769	32.52	32.52	1.5 PERIOD	CSTN	43824
601700	4132440	1.75109	32.18	32.18	1.5 PERIOD	CSTN	43824
601720	4132440	2.18426	32.1	32.1	1.5 PERIOD	CSTN	43824
601740	4132440	2.78412	32.15	32.15	1.5 PERIOD	CSTN	43824
601780	4132440	4.69135	32.13	32.13	1.5 PERIOD	CSTN	43824
601800	4132440	6.00236	32.39	32.39	1.5 PERIOD	CSTN	43824
601820	4132440	7.52464	32.42	32.42	1.5 PERIOD	CSTN	43824
601840	4132440	9.18432	32.02	32.02	1.5 PERIOD	CSTN	43824
601860	4132440	10.72027	32.11	32.11	1.5 PERIOD	CSTN	43824
601880	4132440	12.034	32.39	32.39	1.5 PERIOD	CSTN	43824
601900	4132440	13.109	32.34	32.34	1.5 PERIOD	CSTN	43824
601920	4132440	13.86461	32.18	32.18	1.5 PERIOD	CSTN	43824
601940	4132440	14.27649	32.04	32.04	1.5 PERIOD	CSTN	43824
601960	4132440	14.28494	32.66	32.66	1.5 PERIOD	CSTN	43824
601680	4132460	1.71453	32.16	32.16	1.5 PERIOD	CSTN	43824
601700	4132460	2.12082	32.15	32.15	1.5 PERIOD	CSTN	43824
601720	4132460	2.70769	32.05	32.05	1.5 PERIOD	CSTN	43824
601780	4132460	6.20899	32.43	32.43	1.5 PERIOD	CSTN	43824
601800	4132460	8.05867	32.49	32.49	1.5 PERIOD	CSTN	43824
601820	4132460	10.17554	32.1	32.1	1.5 PERIOD	CSTN	43824
601840	4132460	12.22668	32.09	32.09	1.5 PERIOD	CSTN	43824
601860	4132460	13.98982	32.43	32.43	1.5 PERIOD	CSTN	43824
601880	4132460	15.44216	32.39	32.39	1.5 PERIOD	CSTN	43824
601900	4132460	16.45238	32.21	32.21	1.5 PERIOD	CSTN	43824
601920	4132460	16.97468	32.06	32.06	1.5 PERIOD	CSTN	43824
601940	4132460	17.04997	31.96	31.96	1.5 PERIOD	CSTN	43824
601960	4132460	16.71054	32.25	32.25	1.5 PERIOD	CSTN	43824
601980	4132460	16.12357	32.36	32.36	1.5 PERIOD	CSTN	43824
601680	4132480	2.07245	32.21	32.21	1.5 PERIOD	CSTN	43824
601700	4132480	2.61806	32.22	32.22	1.5 PERIOD	CSTN	43824
601720	4132480	3.44047	32.07	32.07	1.5 PERIOD	CSTN	43824
601800	4132480	11.24169	32.16	32.16	1.5 PERIOD	CSTN	43824
601820	4132480	14.04218	31.96	31.96	1.5 PERIOD	CSTN	43824
601840	4132480	16.47988	32.32	32.32	1.5 PERIOD	CSTN	43824
601860	4132480	18.48362	32.35	32.35	1.5 PERIOD	CSTN	43824
601880	4132480	19.86935	32.16	32.16	1.5 PERIOD	CSTN	43824
601900	4132480	20.56364	31.9	31.9	1.5 PERIOD	CSTN	43824
601920	4132480	20.57505	31.87	31.87	1.5 PERIOD	CSTN	43824
601940	4132480	20.06547	31.92	31.92	1.5 PERIOD	CSTN	43824
601960	4132480	19.18104	32.02	32.02	1.5 PERIOD	CSTN	43824
601980	4132480	18.05396	32.15	32.15	1.5 PERIOD	CSTN	43824
602000	4132480	16.78104	32.4	32.4	1.5 PERIOD	CSTN	43824
601700	4132500	3.31922	32.24	32.24	1.5 PERIOD	CSTN	43824
601820	4132500	19.68182	32.15	32.15	1.5 PERIOD	CSTN	43824
601840	4132500	22.49917	32.38	32.38	1.5 PERIOD	CSTN	43824
601860	4132500	24.46009	32.2	32.2	1.5 PERIOD	CSTN	43824
601880	4132500	25.36524	31.98	31.98	1.5 PERIOD	CSTN	43824
601900	4132500	25.24701	32.04	32.04	1.5 PERIOD	CSTN	43824
601920	4132500	24.39548	32.13	32.13	1.5 PERIOD	CSTN	43824
601940	4132500	23.05709	32.17	32.17	1.5 PERIOD	CSTN	43824
601960	4132500	21.41587	32.26	32.26	1.5 PERIOD	CSTN	43824
601980	4132500	19.63429	32.41	32.41	1.5 PERIOD	CSTN	43824

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	NUM HRS	NET ID
601660	4132320	0.76285	31.65	31.65	1.5	PERIOD	EDG		43824
601680	4132320	0.83553	31.84	31.84	1.5	PERIOD	EDG		43824
601700	4132320	0.9107	32.32	32.32	1.5	PERIOD	EDG		43824
601720	4132320	1.01169	32.22	32.22	1.5	PERIOD	EDG		43824
601740	4132320	1.13157	31.84	31.84	1.5	PERIOD	EDG		43824
601760	4132320	1.27096	32.25	32.25	1.5	PERIOD	EDG		43824
601620	4132340	0.69693	31.57	31.57	1.5	PERIOD	EDG		43824
601640	4132340	0.75528	31.74	31.74	1.5	PERIOD	EDG		43824
601660	4132340	0.81543	32.07	32.07	1.5	PERIOD	EDG		43824
601680	4132340	0.90277	32.09	32.09	1.5	PERIOD	EDG		43824
601700	4132340	0.99406	32.4	32.4	1.5	PERIOD	EDG		43824
601720	4132340	1.12474	32.29	32.29	1.5	PERIOD	EDG		43824
601740	4132340	1.2591	32.13	32.13	1.5	PERIOD	EDG		43824
601760	4132340	1.4163	32.49	32.49	1.5	PERIOD	EDG		43824
601780	4132340	1.59372	32.7	32.7	1.5	PERIOD	EDG		43824
601800	4132340	1.80343	32.7	32.7	1.5	PERIOD	EDG		43824
601820	4132340	2.05392	32.17	32.17	1.5	PERIOD	EDG		43824
601620	4132360	0.74251	31.86	31.86	1.5	PERIOD	EDG		43824
601640	4132360	0.80797	32.11	32.11	1.5	PERIOD	EDG		43824
601660	4132360	0.88659	32.2	32.2	1.5	PERIOD	EDG		43824
601680	4132360	0.99478	32.3	32.3	1.5	PERIOD	EDG		43824
601700	4132360	1.11772	32.15	32.15	1.5	PERIOD	EDG		43824
601720	4132360	1.24276	32.41	32.41	1.5	PERIOD	EDG		43824
601740	4132360	1.41358	32.53	32.53	1.5	PERIOD	EDG		43824
601820	4132360	2.26982	32.66	32.66	1.5	PERIOD	EDG		43824
601840	4132360	2.39076	32.63	32.63	1.5	PERIOD	EDG		43824
601860	4132360	2.49656	32.53	32.53	1.5	PERIOD	EDG		43824
601880	4132360	2.664	32.39	32.39	1.5	PERIOD	EDG		43824
601640	4132380	0.86674	32.16	32.16	1.5	PERIOD	EDG		43824
601660	4132380	0.96718	32.35	32.35	1.5	PERIOD	EDG		43824
601680	4132380	1.08939	32.24	32.24	1.5	PERIOD	EDG		43824
601700	4132380	1.23623	32.16	32.16	1.5	PERIOD	EDG		43824
601720	4132380	1.39462	32.18	32.18	1.5	PERIOD	EDG		43824
601840	4132380	2.61287	32.66	32.66	1.5	PERIOD	EDG		43824
601860	4132380	2.68983	32.32	32.32	1.5	PERIOD	EDG		43824
601880	4132380	2.97823	32	32	1.5	PERIOD	EDG		43824
601900	4132380	3.30756	31.83	31.83	1.5	PERIOD	EDG		43824
601660	4132400	1.06023	32.31	32.31	1.5	PERIOD	EDG		43824
601680	4132400	1.2007	32.25	32.25	1.5	PERIOD	EDG		43824
601700	4132400	1.36739	32.22	32.22	1.5	PERIOD	EDG		43824
601720	4132400	1.55702	32.2	32.2	1.5	PERIOD	EDG		43824
601840	4132400	2.83147	32.33	32.33	1.5	PERIOD	EDG		43824
601860	4132400	3.00244	32.12	32.12	1.5	PERIOD	EDG		43824
601880	4132400	3.33794	31.85	31.85	1.5	PERIOD	EDG		43824
601900	4132400	3.69208	32.17	32.17	1.5	PERIOD	EDG		43824
601920	4132400	4.07112	32.34	32.34	1.5	PERIOD	EDG		43824
601680	4132420	1.33052	32.29	32.29	1.5	PERIOD	EDG		43824
601700	4132420	1.53653	32.22	32.22	1.5	PERIOD	EDG		43824
601720	4132420	1.76943	32.2	32.2	1.5	PERIOD	EDG		43824
601740	4132420	2.08015	32.18	32.18	1.5	PERIOD	EDG		43824
601800	4132420	2.96651	32.3	32.3	1.5	PERIOD	EDG		43824

601820	4132420	3.01975	32.35	32.35	1.5	PERIOD	EDG	43824
601840	4132420	3.10168	32.22	32.22	1.5	PERIOD	EDG	43824
601860	4132420	3.37387	31.93	31.93	1.5	PERIOD	EDG	43824
601880	4132420	3.75094	32.15	32.15	1.5	PERIOD	EDG	43824
601900	4132420	4.18152	32.38	32.38	1.5	PERIOD	EDG	43824
601920	4132420	4.61017	32.36	32.36	1.5	PERIOD	EDG	43824
601940	4132420	4.98987	32.14	32.14	1.5	PERIOD	EDG	43824
601960	4132420	5.23739	32.52	32.52	1.5	PERIOD	EDG	43824
601700	4132440	1.72328	32.18	32.18	1.5	PERIOD	EDG	43824
601720	4132440	2.01892	32.1	32.1	1.5	PERIOD	EDG	43824
601740	4132440	2.39206	32.15	32.15	1.5	PERIOD	EDG	43824
601780	4132440	3.1677	32.13	32.13	1.5	PERIOD	EDG	43824
601800	4132440	3.28584	32.39	32.39	1.5	PERIOD	EDG	43824
601820	4132440	3.30281	32.42	32.42	1.5	PERIOD	EDG	43824
601840	4132440	3.43089	32.02	32.02	1.5	PERIOD	EDG	43824
601860	4132440	3.81612	32.11	32.11	1.5	PERIOD	EDG	43824
601880	4132440	4.28896	32.39	32.39	1.5	PERIOD	EDG	43824
601900	4132440	4.80227	32.34	32.34	1.5	PERIOD	EDG	43824
601920	4132440	5.26248	32.18	32.18	1.5	PERIOD	EDG	43824
601940	4132440	5.62681	32.04	32.04	1.5	PERIOD	EDG	43824
601960	4132440	5.8215	32.66	32.66	1.5	PERIOD	EDG	43824
601680	4132460	1.63721	32.16	32.16	1.5	PERIOD	EDG	43824
601700	4132460	1.95159	32.15	32.15	1.5	PERIOD	EDG	43824
601720	4132460	2.31972	32.05	32.05	1.5	PERIOD	EDG	43824
601780	4132460	3.55106	32.43	32.43	1.5	PERIOD	EDG	43824
601800	4132460	3.57084	32.49	32.49	1.5	PERIOD	EDG	43824
601820	4132460	3.59013	32.1	32.1	1.5	PERIOD	EDG	43824
601840	4132460	3.90185	32.09	32.09	1.5	PERIOD	EDG	43824
601860	4132460	4.39781	32.43	32.43	1.5	PERIOD	EDG	43824
601880	4132460	4.99464	32.39	32.39	1.5	PERIOD	EDG	43824
601900	4132460	5.56111	32.21	32.21	1.5	PERIOD	EDG	43824
601920	4132460	6.01677	32.06	32.06	1.5	PERIOD	EDG	43824
601940	4132460	6.3415	31.96	31.96	1.5	PERIOD	EDG	43824
601960	4132460	6.5048	32.25	32.25	1.5	PERIOD	EDG	43824
601980	4132460	6.57811	32.36	32.36	1.5	PERIOD	EDG	43824
601680	4132480	1.82172	32.21	32.21	1.5	PERIOD	EDG	43824
601700	4132480	2.22688	32.22	32.22	1.5	PERIOD	EDG	43824
601720	4132480	2.6992	32.07	32.07	1.5	PERIOD	EDG	43824
601800	4132480	3.9402	32.16	32.16	1.5	PERIOD	EDG	43824
601820	4132480	4.02763	31.96	31.96	1.5	PERIOD	EDG	43824
601840	4132480	4.53267	32.32	32.32	1.5	PERIOD	EDG	43824
601860	4132480	5.20354	32.35	32.35	1.5	PERIOD	EDG	43824
601880	4132480	5.89721	32.16	32.16	1.5	PERIOD	EDG	43824
601900	4132480	6.48039	31.9	31.9	1.5	PERIOD	EDG	43824
601920	4132480	6.88389	31.87	31.87	1.5	PERIOD	EDG	43824
601940	4132480	7.11798	31.92	31.92	1.5	PERIOD	EDG	43824
601960	4132480	7.20451	32.02	32.02	1.5	PERIOD	EDG	43824
601980	4132480	7.1706	32.15	32.15	1.5	PERIOD	EDG	43824
602000	4132480	7.0332	32.4	32.4	1.5	PERIOD	EDG	43824
601700	4132500	2.53805	32.24	32.24	1.5	PERIOD	EDG	43824
601820	4132500	4.71192	32.15	32.15	1.5	PERIOD	EDG	43824
601840	4132500	5.43471	32.38	32.38	1.5	PERIOD	EDG	43824
601860	4132500	6.27112	32.2	32.2	1.5	PERIOD	EDG	43824
601880	4132500	7.00309	31.98	31.98	1.5	PERIOD	EDG	43824
601900	4132500	7.51042	32.04	32.04	1.5	PERIOD	EDG	43824
601920	4132500	7.79612	32.13	32.13	1.5	PERIOD	EDG	43824
601940	4132500	7.89543	32.17	32.17	1.5	PERIOD	EDG	43824
601960	4132500	7.83774	32.26	32.26	1.5	PERIOD	EDG	43824
601980	4132500	7.65891	32.41	32.41	1.5	PERIOD	EDG	43824