

**Appendix B:
Air Quality, GHG Emissions, and Energy Supporting Information**

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B.1 - Air Quality and GHG Emissions Supporting Information

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CalEEMod Output, Construction Health Risk Assessment Calculations, Cumulative Road Screening Tool, and AERMOD Modeling Output

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Del Hombre Apartments Project Construction Assumptions

Project Site Construction

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days	
				Week	Num Days
Demolition	Demolition	7/13/2020	8/23/2020	5	30
Site Preparation	Site Preparation	8/24/2020	9/20/2020	5	20
Grading	Grading	9/21/2020	1/10/2021	5	80
Building Construction	Building Construction	1/11/2021	5/8/2022	5	345
Architectural Coating	Architectural Coating	2/14/2022	6/5/2022	5	80
Paving	Paving	6/6/2022	7/3/2022	5	20

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse	Load	Days per	Hours per	Diesel-
				Power	Factor	Phase	Phase	Powered?
Demolition	Concrete/Industrial Saws	1	1.90	81	0.73	30	57	Yes
Demolition	Excavators	1	1.90	158	0.38	30	57	Yes
Demolition	Tractors/Loaders/Backhoes	3	1.00	97	0.37	30	30	Yes
Site Preparation	Graders	1	4.00	187	0.41	20	80	Yes
Site Preparation	Tractors/Loaders/Backhoes	1	3.50	97	0.37	20	70	Yes
Grading	Excavators	1	6.00	158	0.38	80	480	Yes
Grading	Off-Highway Trucks	1	3.00	402	0.38	80	240	Yes
Grading	Tractors/Loaders/Backhoes	2	3.90	97	0.37	80	312	Yes
Building Construction	Cranes	1	8.00	231	0.29	345	2,760	No
Building Construction	Forklifts	1	7.00	89	0.20	345	2,415	No
Building Construction	Welders	1	1.30	46	0.45	345	449	Yes
Architectural Coating	Aerial Lifts	1	1.00	63	0.31	80	80	Yes
Architectural Coating	Air Compressors	5	4.50	78	0.48	80	360	Yes
Paving	Pavers	1	2.00	130	0.42	20	40	Yes
Paving	Paving Equipment	1	2.00	132	0.36	20	40	Yes
Paving	Rollers	1	0.80	80	0.38	20	16	Yes
Paving	Tractors/Loaders/Backhoes	1	1.60	97	0.37	20	32	Yes

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip	Hauling Trip	Worker	Vendor	Hauling
		Number	Number	Trip Length	Trip Length	Trip Length
Demolition	13	0	4	10.8	7.3	20
Site Preparation	5	0	0	10.8	7.3	20
Grading	10	6	3,675	10.8	7.3	20
Building Construction	277	59	0	10.8	7.3	20
Architectural Coating	55	0	0	10.8	7.3	20
Paving	10	6	0	10.8	7.3	20

**Del Hombre Off-site Roadway Improvements
Construction Phase**

Phase Name	Phase Type	Start Date	End Date	Num Days	
				Week	Num Days
Grading	Grading	6/6/2022	6/7/2022	5	2
Paving	Paving	6/8/2022	6/14/2022	5	5

**Del Hombre Off-site Roadway Improvements
OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse	Load	Days per	Hours per	Diesel-
				Power	Factor	Phase	Phase	Powered?
Grading	Concrete/Industrial Saws	1	8	81	0.73	2	16	Yes
Grading	Rubber Tired Dozers	1	1	247	0.40	2	2	Yes
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	2	12	Yes
Paving	Cement and Mortar Mixers	4	6	9	0.56	5	30	Yes
Paving	Pavers	1	7	130	0.42	5	35	Yes
Paving	Rollers	1	7	80	0.38	5	35	Yes
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37	5	35	Yes

**Del Hombre Off-site Roadway Improvements
Trips and VMT**

Phase Name	Worker Trip Number	Vendor Trip	Hauling Trip	Worker	Vendor	Hauling
		Number	Number	Trip Length	Trip Length	Trip Length
Grading	10	0	0	10.8	7.3	20
Paving	18	0	0	10.8	7.3	20

Del Hombre Apartments Project - Contra Costa County, Annual

Del Hombre Apartments Project
Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	380.00	Space	0.00	162,000.00	0
Other Asphalt Surfaces	1.08	1000sqft	0.02	1,084.00	0
Other Non-Asphalt Surfaces	9.38	1000sqft	0.22	9,384.00	0
Other Non-Asphalt Surfaces	11.34	1000sqft	0.26	0.00	0
Apartments Mid Rise	284.00	Dwelling Unit	1.87	425,879.00	818

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2022	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted CO2 intensity factor based on Renewable Portfolio Standard

Anticipated construction start date: 7/2020

Land Use - Site summary based on site plan and project description. Parking is below residential building.

Construction Phase - Anticipated construction schedule

Off-road Equipment - Adjusted equipment to match applicant-provided data

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Off-road Equipment - Adjusted equipment to match applicant-provided data

Trips and VMT - Additional vendor trips added to the grading phase to account for water trucks; Additional vendor trips added to the paving phase to account for cement trucks

Demolition - Demolition of existing buildings totaling approximately 3,350 square feet and removal of hardscape totaling approximately 1,000 square feet

Grading - Approximately 29,000 cubic yards of material to be exported

Up to approximately 400 cubic yards of material to be imported

Vehicle Trips - Trip rates consistent with the Del Hombre Apartments TIA prepared by Fehr and Peers in January 2019

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects. Adjusted fuel types for forklift and crane to match applicant-provided data.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	6.00	80.00
tblConstructionPhase	NumDays	220.00	345.00
tblConstructionPhase	NumDays	10.00	80.00
tblConstructionPhase	NumDays	10.00	20.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	48.28	0.00
tblGrading	MaterialExported	0.00	29,000.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	152,000.00	162,000.00
tblLandUse	LandUseSquareFeet	1,080.00	1,084.00
tblLandUse	LandUseSquareFeet	11,340.00	0.00
tblLandUse	LandUseSquareFeet	9,380.00	9,384.00

tblLandUse	LandUseSquareFeet	284,000.00	425,879.00
tblLandUse	LotAcreage	3.42	0.00
tblLandUse	LotAcreage	7.47	1.87
tblLandUse	Population	812.00	818.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	84.00	0.00
tblOffRoadEquipment	HorsePower	187.00	0.00
tblOffRoadEquipment	HorsePower	247.00	0.00
tblOffRoadEquipment	HorsePower	247.00	0.00
tblOffRoadEquipment	HorsePower	367.00	0.00
tblOffRoadEquipment	HorsePower	97.00	0.00
tblOffRoadEquipment	LoadFactor	0.56	0.00
tblOffRoadEquipment	LoadFactor	0.74	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	LoadFactor	0.40	0.00
tblOffRoadEquipment	LoadFactor	0.40	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	LoadFactor	0.37	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	4.50
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.90

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.80
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	3.90
tblOffRoadEquipment	UsageHours	8.00	1.60
tblOffRoadEquipment	UsageHours	7.00	3.50
tblOffRoadEquipment	UsageHours	8.00	1.30
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	6.39	6.92
tblVehicleTrips	SU_TR	5.86	5.34
tblVehicleTrips	WD_TR	6.65	6.34
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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					
2020	0.0474	0.8245	0.3974	1.9900e-003	0.0416	0.0165	0.0581	0.0107	0.0153	0.0260	0.0000	186.8086	186.8086	0.0211	0.0000	187.3351
2021	0.2103	1.6902	1.4516	5.7600e-003	0.3555	0.0404	0.3960	0.0951	0.0374	0.1325	0.0000	529.1050	529.1050	0.0422	0.0000	530.1589
2022	3.1403	0.7630	0.8179	2.6000e-003	0.1350	0.0254	0.1603	0.0363	0.0244	0.0607	0.0000	236.1493	236.1493	0.0180	0.0000	236.5985
Maximum	3.1403	1.6902	1.4516	5.7600e-003	0.3555	0.0404	0.3960	0.0951	0.0374	0.1325	0.0000	529.1050	529.1050	0.0422	0.0000	530.1589

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					
2020	0.0474	0.8245	0.3974	1.9900e-003	0.0390	0.0165	0.0555	0.0103	0.0153	0.0256	0.0000	186.8085	186.8085	0.0211	0.0000	187.3350
2021	0.1453	1.0376	2.1233	5.7600e-003	0.3546	7.8000e-003	0.3624	0.0950	7.5100e-003	0.1025	0.0000	469.0661	469.0661	0.0227	0.0000	469.6346
2022	3.1197	0.5639	1.0551	2.6000e-003	0.1350	0.0153	0.1503	0.0363	0.0152	0.0515	0.0000	214.9554	214.9554	0.0111	0.0000	215.2332
Maximum	3.1197	1.0376	2.1233	5.7600e-003	0.3546	0.0165	0.3624	0.0950	0.0153	0.1025	0.0000	469.0661	469.0661	0.0227	0.0000	469.6346

	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
Percent Reduction	2.52	25.99	-34.09	0.00	0.66	51.85	7.52	0.33	50.71	18.04	0.00	8.53	8.53	32.37	0.00	8.58

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-13-2020	10-12-2020	0.2489	0.2489
2	10-13-2020	1-12-2021	0.6915	0.6875
3	1-13-2021	4-12-2021	0.4682	0.2873
4	4-13-2021	7-12-2021	0.4678	0.2848
5	7-13-2021	10-12-2021	0.4738	0.2888
6	10-13-2021	1-12-2022	0.4738	0.2921
7	1-13-2022	4-12-2022	2.1296	1.9726
8	4-13-2022	7-12-2022	1.7302	1.6848
		Highest	2.1296	1.9726

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	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851
Energy	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	611.4166	611.4166	0.0308	8.2700e-003	614.6517
Mobile	0.4424	2.0321	4.9893	0.0174	1.5383	0.0149	1.5532	0.4128	0.0139	0.4266	0.0000	1,597.0726	1,597.0726	0.0576	0.0000	1,598.5114
Waste						0.0000	0.0000		0.0000	0.0000	26.5187	0.0000	26.5187	1.5672	0.0000	65.6991
Water						0.0000	0.0000		0.0000	0.0000	5.8704	31.4337	37.3041	0.6048	0.0146	56.7809
Total	2.4982	2.1753	7.1545	0.0183	1.5383	0.0362	1.5744	0.4128	0.0352	0.4479	32.3891	2,248.6927	2,281.0819	2.2638	0.0230	2,344.5282

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	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851
Energy	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	611.4166	611.4166	0.0308	8.2700e-003	614.6517
Mobile	0.4424	2.0321	4.9893	0.0174	1.5383	0.0149	1.5532	0.4128	0.0139	0.4266	0.0000	1,597.0726	1,597.0726	0.0576	0.0000	1,598.5114
Waste						0.0000	0.0000		0.0000	0.0000	19.6239	0.0000	19.6239	1.1597	0.0000	48.6173
Water						0.0000	0.0000		0.0000	0.0000	4.6963	25.1469	29.8432	0.4838	0.0117	45.4247
Total	2.4982	2.1753	7.1545	0.0183	1.5383	0.0362	1.5744	0.4128	0.0352	0.4479	24.3202	2,242.4060	2,266.7262	1.7354	0.0201	2,316.0903

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.91	0.28	0.63	23.34	12.70	1.21

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	7/13/2020	8/23/2020	5	30	
2	Site Preparation	Site Preparation	8/24/2020	9/20/2020	5	20	
3	Grading	Grading	9/21/2020	1/10/2021	5	80	
4	Building Construction	Building Construction	1/11/2021	5/8/2022	5	345	
5	Architectural Coating	Architectural Coating	2/14/2022	6/5/2022	5	80	
6	Paving	Paving	6/6/2022	7/3/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.5

Residential Indoor: 862,405; Residential Outdoor: 287,468; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	1.90	81	0.73
Demolition	Excavators	1	1.90	156	0.38
Demolition	Rubber Tired Dozers	0	0.00	0	0.00
Demolition	Tractors/Loaders/Backhoes	3	1.00	97	0.37
Site Preparation	Graders	1	4.00	187	0.41
Site Preparation	Scrapers	0	0.00	0	0.00
Site Preparation	Tractors/Loaders/Backhoes	1	3.50	97	0.37
Grading	Excavators	1	6.00	156	0.38
Grading	Graders	0	0.00	0	0.00
Grading	Off-Highway Trucks	1	3.00	402	0.38
Grading	Rubber Tired Dozers	0	0.00	0	0.00
Grading	Tractors/Loaders/Backhoes	2	3.90	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	0	0.00	0	0.00
Building Construction	Tractors/Loaders/Backhoes	0	0.00	0	0.00
Building Construction	Welders	1	1.30	46	0.45
Architectural Coating	Aerial Lifts	1	1.00	63	0.31
Architectural Coating	Air Compressors	5	4.50	78	0.48
Paving	Cement and Mortar Mixers	0	0.00	0	0.00
Paving	Pavers	1	2.00	130	0.42
Paving	Paving Equipment	1	2.00	132	0.36
Paving	Rollers	1	0.80	80	0.38
Paving	Tractors/Loaders/Backhoes	1	1.60	97	0.37

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	5	13.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	3,675.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	277.00	59.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

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					4.1000e-004	0.0000	4.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5400e-003	0.0322	0.0376	6.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950
Total	3.5400e-003	0.0322	0.0376	6.0000e-005	4.1000e-004	1.8700e-003	2.2800e-003	6.0000e-005	1.7800e-003	1.8400e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950

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	2.0000e-005	5.8000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1517	0.1517	1.0000e-005	0.0000	0.1518
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	6.5000e-004	4.7000e-004	4.9000e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5600e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3568	1.3568	3.0000e-005	0.0000	1.3576
Total	6.7000e-004	1.0500e-003	5.0100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5085	1.5085	4.0000e-005	0.0000	1.5095

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					1.8000e-004	0.0000	1.8000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5400e-003	0.0322	0.0376	6.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950
Total	3.5400e-003	0.0322	0.0376	6.0000e-005	1.8000e-004	1.8700e-003	2.0500e-003	3.0000e-005	1.7800e-003	1.8100e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950

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	2.0000e-005	5.8000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1517	0.1517	1.0000e-005	0.0000	0.1518
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	6.5000e-004	4.7000e-004	4.9000e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5600e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3568	1.3568	3.0000e-005	0.0000	1.3576
Total	6.7000e-004	1.0500e-003	5.0100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5085	1.5085	4.0000e-005	0.0000	1.5095

3.3 Site Preparation - 2020

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					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-003	0.0408	0.0191	5.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423
Total	3.3000e-003	0.0408	0.0191	5.0000e-005	2.6500e-003	1.5900e-003	4.2400e-003	2.9000e-004	1.4700e-003	1.7600e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423

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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481
Total	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481

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					1.1900e-003	0.0000	1.1900e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-003	0.0408	0.0191	5.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423
Total	3.3000e-003	0.0408	0.0191	5.0000e-005	1.1900e-003	1.5900e-003	2.7800e-003	1.3000e-004	1.4700e-003	1.6000e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423

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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481
Total	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481

3.4 Grading - 2020

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					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2306	0.2258	4.4000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	38.5276	38.5276	0.0125	0.0000	38.8391
Total	0.0236	0.2306	0.2258	4.4000e-004	1.6600e-003	0.0112	0.0129	2.5000e-004	0.0103	0.0106	0.0000	38.5276	38.5276	0.0125	0.0000	38.8391

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	0.0140	0.4933	0.0929	1.3400e-003	0.0305	1.6200e-003	0.0322	8.3400e-003	1.5500e-003	9.9000e-003	0.0000	128.8838	128.8838	5.7300e-003	0.0000	129.0271
Vendor	8.9000e-004	0.0255	6.5500e-003	6.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.2000e-004	1.2000e-004	5.5000e-004	0.0000	5.7909	5.7909	2.8000e-004	0.0000	5.7980
Worker	1.2400e-003	9.0000e-004	9.2900e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5744	2.5744	6.0000e-005	0.0000	2.5760
Total	0.0162	0.5197	0.1087	1.4300e-003	0.0349	1.7700e-003	0.0367	9.5400e-003	1.6900e-003	0.0113	0.0000	137.2491	137.2491	6.0700e-003	0.0000	137.4012

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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2306	0.2258	4.4000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	38.5275	38.5275	0.0125	0.0000	38.8391
Total	0.0236	0.2306	0.2258	4.4000e-004	7.5000e-004	0.0112	0.0120	1.1000e-004	0.0103	0.0105	0.0000	38.5275	38.5275	0.0125	0.0000	38.8391

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	0.0140	0.4933	0.0929	1.3400e-003	0.0305	1.6200e-003	0.0322	8.3400e-003	1.5500e-003	9.9000e-003	0.0000	128.8838	128.8838	5.7300e-003	0.0000	129.0271
Vendor	8.9000e-004	0.0255	6.5500e-003	6.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.2000e-004	1.2000e-004	5.5000e-004	0.0000	5.7909	5.7909	2.8000e-004	0.0000	5.7980
Worker	1.2400e-003	9.0000e-004	9.2900e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5744	2.5744	6.0000e-005	0.0000	2.5760
Total	0.0162	0.5197	0.1087	1.4300e-003	0.0349	1.7700e-003	0.0367	9.5400e-003	1.6900e-003	0.0113	0.0000	137.2491	137.2491	6.0700e-003	0.0000	137.4012

3.4 Grading - 2021

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					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7500e-003	0.0163	0.0180	4.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495
Total	1.7500e-003	0.0163	0.0180	4.0000e-005	1.6600e-003	7.8000e-004	2.4400e-003	2.5000e-004	7.2000e-004	9.7000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495

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	1.0700e-003	0.0369	7.3100e-003	1.1000e-004	0.0239	1.2000e-004	0.0240	5.9400e-003	1.1000e-004	6.0500e-003	0.0000	10.3211	10.3211	4.5000e-004	0.0000	10.3325
Vendor	6.0000e-005	1.8600e-003	4.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4653	0.4653	2.0000e-005	0.0000	0.4659
Worker	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2013	0.2013	0.0000	0.0000	0.2015
Total	1.2200e-003	0.0388	8.4700e-003	1.1000e-004	0.0243	1.2000e-004	0.0244	6.0300e-003	1.1000e-004	6.1500e-003	0.0000	10.9878	10.9878	4.7000e-004	0.0000	10.9998

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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7500e-003	0.0163	0.0180	4.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495
Total	1.7500e-003	0.0163	0.0180	4.0000e-005	7.5000e-004	7.8000e-004	1.5300e-003	1.1000e-004	7.2000e-004	8.3000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495

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	1.0700e-003	0.0369	7.3100e-003	1.1000e-004	0.0239	1.2000e-004	0.0240	5.9400e-003	1.1000e-004	6.0500e-003	0.0000	10.3211	10.3211	4.5000e-004	0.0000	10.3325
Vendor	6.0000e-005	1.8600e-003	4.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4653	0.4653	2.0000e-005	0.0000	0.4659
Worker	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2013	0.2013	0.0000	0.0000	0.2015
Total	1.2200e-003	0.0388	8.4700e-003	1.1000e-004	0.0243	1.2000e-004	0.0244	6.0300e-003	1.1000e-004	6.1500e-003	0.0000	10.9878	10.9878	4.7000e-004	0.0000	10.9998

3.5 Building Construction - 2021

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	0.0733	0.7811	0.4187	9.6000e-004		0.0360	0.0360		0.0332	0.0332	0.0000	83.5087	83.5087	0.0263	0.0000	84.1651
Total	0.0733	0.7811	0.4187	9.6000e-004		0.0360	0.0360		0.0332	0.0332	0.0000	83.5087	83.5087	0.0263	0.0000	84.1651

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	0.0246	0.7776	0.1975	2.0300e-003	0.0495	1.7400e-003	0.0512	0.0143	1.6700e-003	0.0160	0.0000	194.4601	194.4601	9.0300e-003	0.0000	194.6858
Worker	0.1094	0.0765	0.8088	2.6200e-003	0.2801	1.8200e-003	0.2819	0.0745	1.6800e-003	0.0762	0.0000	237.0242	237.0242	5.3900e-003	0.0000	237.1588
Total	0.1340	0.8540	1.0063	4.6500e-003	0.3296	3.5600e-003	0.3332	0.0888	3.3500e-003	0.0921	0.0000	431.4843	431.4843	0.0144	0.0000	431.8446

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	8.3200e-003	0.1285	1.0905	9.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	23.4698	23.4698	6.8400e-003	0.0000	23.6407
Total	8.3200e-003	0.1285	1.0905	9.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	23.4698	23.4698	6.8400e-003	0.0000	23.6407

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	0.0246	0.7776	0.1975	2.0300e-003	0.0495	1.7400e-003	0.0512	0.0143	1.6700e-003	0.0160	0.0000	194.4601	194.4601	9.0300e-003	0.0000	194.6858
Worker	0.1094	0.0765	0.8088	2.6200e-003	0.2801	1.8200e-003	0.2819	0.0745	1.6800e-003	0.0762	0.0000	237.0242	237.0242	5.3900e-003	0.0000	237.1588
Total	0.1340	0.8540	1.0063	4.6500e-003	0.3296	3.5600e-003	0.3332	0.0888	3.3500e-003	0.0921	0.0000	431.4843	431.4843	0.0144	0.0000	431.8446

3.5 Building Construction - 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					
Off-Road	0.0233	0.2405	0.1430	3.4000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	29.4774	29.4774	9.2500e-003	0.0000	29.7087
Total	0.0233	0.2405	0.1430	3.4000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	29.4774	29.4774	9.2500e-003	0.0000	29.7087

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	8.1000e-003	0.2592	0.0654	7.1000e-004	0.0175	5.3000e-004	0.0180	5.0500e-003	5.1000e-004	5.5600e-003	0.0000	67.9827	67.9827	3.0200e-003	0.0000	68.0582
Worker	0.0359	0.0242	0.2622	8.9000e-004	0.0989	6.3000e-004	0.0995	0.0263	5.8000e-004	0.0269	0.0000	80.5496	80.5496	1.7000e-003	0.0000	80.5922
Total	0.0440	0.2834	0.3276	1.6000e-003	0.1163	1.1600e-003	0.1175	0.0313	1.0900e-003	0.0324	0.0000	148.5322	148.5322	4.7200e-003	0.0000	148.6503

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	2.6600e-003	0.0414	0.3802	3.4000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	8.2835	8.2835	2.4000e-003	0.0000	8.3434
Total	2.6600e-003	0.0414	0.3802	3.4000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	8.2835	8.2835	2.4000e-003	0.0000	8.3434

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	8.1000e-003	0.2592	0.0654	7.1000e-004	0.0175	5.3000e-004	0.0180	5.0500e-003	5.1000e-004	5.5600e-003	0.0000	67.9827	67.9827	3.0200e-003	0.0000	68.0582
Worker	0.0359	0.0242	0.2622	8.9000e-004	0.0989	6.3000e-004	0.0995	0.0263	5.8000e-004	0.0269	0.0000	80.5496	80.5496	1.7000e-003	0.0000	80.5922
Total	0.0440	0.2834	0.3276	1.6000e-003	0.1163	1.1600e-003	0.1175	0.0313	1.0900e-003	0.0324	0.0000	148.5322	148.5322	4.7200e-003	0.0000	148.6503

3.6 Architectural Coating - 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					
Archit. Coating	3.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0309	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047
Total	3.0648	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047

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	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241
Total	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241

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	3.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0309	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047
Total	3.0648	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047

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	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241
Total	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241

3.7 Paving - 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					
Off-Road	1.4600e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4900e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261

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	1.8000e-004	5.8600e-003	1.4800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5363	1.5363	7.0000e-005	0.0000	1.5380
Worker	2.9000e-004	1.9000e-004	2.1000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6462	0.6462	1.0000e-005	0.0000	0.6466
Total	4.7000e-004	6.0500e-003	3.5800e-003	3.0000e-005	1.1800e-003	2.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.5000e-004	0.0000	2.1825	2.1825	8.0000e-005	0.0000	2.1846

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	1.4600e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4900e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261

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	1.8000e-004	5.8600e-003	1.4800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5363	1.5363	7.0000e-005	0.0000	1.5380
Worker	2.9000e-004	1.9000e-004	2.1000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6462	0.6462	1.0000e-005	0.0000	0.6466
Total	4.7000e-004	6.0500e-003	3.5800e-003	3.0000e-005	1.1800e-003	2.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.5000e-004	0.0000	2.1825	2.1825	8.0000e-005	0.0000	2.1846

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.4424	2.0321	4.9893	0.0174	1.5383	0.0149	1.5532	0.4128	0.0139	0.4266	0.0000	1,597.0726	1,597.0726	0.0576	0.0000	1,598.5114
Unmitigated	0.4424	2.0321	4.9893	0.0174	1.5383	0.0149	1.5532	0.4128	0.0139	0.4266	0.0000	1,597.0726	1,597.0726	0.0576	0.0000	1,598.5114

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Apartments Mid Rise	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Enclosed Parking with Elevator	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Non-Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835

5.0 Energy Detail

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	479.1041	479.1041	0.0283	5.8500e-003	481.5530
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	479.1041	479.1041	0.0283	5.8500e-003	481.5530
NaturalGas Mitigated	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
NaturalGas Unmitigated	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

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					
Apartments Mid Rise	2.47944e+006	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
Enclosed Parking with Elevator	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	0.0000	0.0000
Other Asphalt Surfaces	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	0.0000	0.0000
Other Non-Asphalt Surfaces	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	0.0000	0.0000
Total		0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

Mitigated

	Natural Gas 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					
Apartments Mid Rise	2.47944e+006	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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		0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19905e+006	267.3975	0.0158	3.2600e-003	268.7643
Enclosed Parking with Elevator	949320	211.7066	0.0125	2.5800e-003	212.7887
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		479.1041	0.0283	5.8400e-003	481.5530

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19905e+006	267.3975	0.0158	3.2600e-003	268.7643
Enclosed Parking with Elevator	949320	211.7066	0.0125	2.5800e-003	212.7887
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		479.1041	0.0283	5.8400e-003	481.5530

6.0 Area Detail

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	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851
Unmitigated	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851

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	0.3034					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6744					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.4000e-004	4.5900e-003	1.9500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3182	5.3182	1.0000e-004	1.0000e-004	5.3498
Landscaping	0.0641	0.0244	2.1147	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4518	3.4518	3.3400e-003	0.0000	3.5353
Total	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851

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	0.3034					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6744					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.4000e-004	4.5900e-003	1.9500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3182	5.3182	1.0000e-004	1.0000e-004	5.3498	
Landscaping	0.0641	0.0244	2.1147	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4518	3.4518	3.3400e-003	0.0000	3.5353	
Total	2.0425	0.0290	2.1167	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4400e-003	1.0000e-004	8.8851	

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.8432	0.4838	0.0117	45.4247
Unmitigated	37.3041	0.6048	0.0146	56.7809

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	18.5037 / 11.6654	37.3041	0.6048	0.0146	56.7809
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		37.3041	0.6048	0.0146	56.7809

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.803 / 9.33232	29.8432	0.4838	0.0117	45.4247
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.8432	0.4838	0.0117	45.4247

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.6239	1.1597	0.0000	48.6173
Unmitigated	26.5187	1.5672	0.0000	65.6991

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	130.64	26.5187	1.5672	0.0000	65.6991
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		26.5187	1.5672	0.0000	65.6991

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	96.6736	19.6239	1.1597	0.0000	48.6173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		19.6239	1.1597	0.0000	48.6173

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Del Hombre Apartments Project - Contra Costa County, Summer

**Del Hombre Apartments Project Operations
Contra Costa County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	380.00	Space	0.00	162,000.00	0
Other Asphalt Surfaces	1.08	1000sqft	0.02	1,084.00	0
Other Non-Asphalt Surfaces	9.38	1000sqft	0.22	9,384.00	0
Other Non-Asphalt Surfaces	11.34	1000sqft	0.26	0.00	0
Apartments Mid Rise	284.00	Dwelling Unit	1.87	425,879.00	818

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year	2022		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted CO2 intensity factor based on Renewable Portfolio Standard
 Anticipated construction start date: 7/2020
 Operational year: 2022
 Land Use - Site summary based on site plan and project description. Parking is below residential building.
 Construction Phase - Anticipated construction schedule
 Off-road Equipment - Estimated construction equipment for the building construction phase

Demolition - Demolition of existing buildings totaling approximately 3,350 square feet and removal of hardscape totaling approximately 1,000 square feet

Grading - Approximately 29,000 cubic yards of material to be exported
Up to approximately 400 cubic yards of material to be imported

Vehicle Trips - Trip rates consistent with the Del Hombre Apartments TIA prepared by Fehr and Peers in January 2019

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	6.00	80.00
tblConstructionPhase	NumDays	220.00	345.00
tblConstructionPhase	NumDays	10.00	80.00
tblConstructionPhase	NumDays	10.00	20.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	48.28	0.00
tblGrading	MaterialExported	0.00	29,000.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	152,000.00	162,000.00
tblLandUse	LandUseSquareFeet	1,080.00	1,084.00
tblLandUse	LandUseSquareFeet	11,340.00	0.00
tblLandUse	LandUseSquareFeet	9,380.00	9,384.00
tblLandUse	LandUseSquareFeet	284,000.00	425,879.00
tblLandUse	LotAcreage	3.42	0.00
tblLandUse	LotAcreage	7.47	1.87
tblLandUse	Population	812.00	818.00

tblOffRoadEquipment	HorsePower	84.00	90.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblVehicleTrips	ST_TR	6.39	6.92
tblVehicleTrips	SU_TR	5.86	5.34
tblVehicleTrips	WD_TR	6.65	6.34
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Energy	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Mobile	3.1965	11.9427	32.0381	0.1131	9.6410	0.0898	9.7308	2.5794	0.0839	2.6633		11,412.3968	11,412.3968	0.3889		11,422.1195
Total	14.9159	13.6641	56.1519	0.1236	9.6410	0.3368	9.9778	2.5794	0.3309	2.9103	0.0000	13,306.3198	13,306.3198	0.4653	0.0340	13,328.0692

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	lb/day										lb/day					
Area	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Energy	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Mobile	3.1965	11.9427	32.0381	0.1131	9.6410	0.0898	9.7308	2.5794	0.0839	2.6633		11,412.3968	11,412.3968	0.3889		11,422.1195
Total	14.9159	13.6641	56.1519	0.1236	9.6410	0.3368	9.9778	2.5794	0.3309	2.9103	0.0000	13,306.3198	13,306.3198	0.4653	0.0340	13,328.0692

	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
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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	3.1965	11.9427	32.0381	0.1131	9.6410	0.0898	9.7308	2.5794	0.0839	2.6633		11,412.39	11,412.39	0.3889		11,422.11
												68	68			95
Unmitigated	3.1965	11.9427	32.0381	0.1131	9.6410	0.0898	9.7308	2.5794	0.0839	2.6633		11,412.39	11,412.39	0.3889		11,422.11
												68	68			95

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Apartments Mid Rise	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Enclosed Parking with Elevator	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Non-Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835

5.0 Energy Detail

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	lb/day										lb/day					
NaturalGas Mitigated	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
NaturalGas Unmitigated	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246

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	lb/day										lb/day					
Apartments Mid Rise	6792.99	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246

Mitigated

	Natural Gas 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	lb/day										lb/day					
Apartments Mid Rise	6.79299	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246

6.0 Area Detail

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	lb/day										lb/day					
Mitigated	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Unmitigated	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251

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	lb/day										lb/day					
Architectural Coating	1.6624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0965	0.8244	0.3508	5.2600e-003		0.0667	0.0667		0.0667	0.0667	0.0000	1,052.4706	1,052.4706	0.0202	0.0193	1,058.7249
Landscaping	0.7123	0.2709	23.4967	1.2400e-003		0.1297	0.1297		0.1297	0.1297		42.2768	42.2768	0.0409		43.3002
Total	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0250

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	lb/day										lb/day					
Architectural Coating	1.6624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0965	0.8244	0.3508	5.2600e-003		0.0667	0.0667		0.0667	0.0667	0.0000	1,052.4706	1,052.4706	0.0202	0.0193	1,058.7249
Landscaping	0.7123	0.2709	23.4967	1.2400e-003		0.1297	0.1297		0.1297	0.1297		42.2768	42.2768	0.0409		43.3002
Total	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0250

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Del Hombre Apartments Project - Contra Costa County, Winter

Del Hombre Apartments Project Operations
Contra Costa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	380.00	Space	0.00	162,000.00	0
Other Asphalt Surfaces	1.08	1000sqft	0.02	1,084.00	0
Other Non-Asphalt Surfaces	9.38	1000sqft	0.22	9,384.00	0
Other Non-Asphalt Surfaces	11.34	1000sqft	0.26	0.00	0
Apartments Mid Rise	284.00	Dwelling Unit	1.87	425,879.00	818

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year	2022		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted CO2 intensity factor based on Renewable Portfolio Standard

Anticipated construction start date: 7/2020

Operational year: 2022

Land Use - Site summary based on site plan and project description. Parking is below residential building.

Construction Phase - Anticipated construction schedule

Off-road Equipment - Estimated construction equipment for the building construction phase

Demolition - Demolition of existing buildings totaling approximately 3,350 square feet and removal of hardscape totaling approximately 1,000 square feet

Grading - Approximately 29,000 cubic yards of material to be exported

Up to approximately 400 cubic yards of material to be imported

Vehicle Trips - Trip rates consistent with the Del Hombre Apartments TIA prepared by Fehr and Peers in January 2019

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Mobile Land Use Mitigation -

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	6.00	80.00
tblConstructionPhase	NumDays	220.00	345.00
tblConstructionPhase	NumDays	10.00	80.00
tblConstructionPhase	NumDays	10.00	20.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	48.28	0.00
tblGrading	MaterialExported	0.00	29,000.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	152,000.00	162,000.00
tblLandUse	LandUseSquareFeet	1,080.00	1,084.00
tblLandUse	LandUseSquareFeet	11,340.00	0.00
tblLandUse	LandUseSquareFeet	9,380.00	9,384.00
tblLandUse	LandUseSquareFeet	284,000.00	425,879.00
tblLandUse	LotAcreage	3.42	0.00
tblLandUse	LotAcreage	7.47	1.87
tblLandUse	Population	812.00	818.00

tblOffRoadEquipment	HorsePower	84.00	90.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblVehicleTrips	ST_TR	6.39	6.92
tblVehicleTrips	SU_TR	5.86	5.34
tblVehicleTrips	WD_TR	6.65	6.34
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Energy	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Mobile	2.6184	12.5527	31.7197	0.1044	9.6410	0.0905	9.7315	2.5794	0.0846	2.6639		10,532.5041	10,532.5041	0.3950		10,542.3781
Total	14.3377	14.2741	55.8336	0.1149	9.6410	0.3375	9.9785	2.5794	0.3316	2.9110	0.0000	12,426.4270	12,426.4270	0.4714	0.0340	12,448.3278

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	lb/day										lb/day					
Area	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Energy	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Mobile	2.6184	12.5527	31.7197	0.1044	9.6410	0.0905	9.7315	2.5794	0.0846	2.6639		10,532.5041	10,532.5041	0.3950		10,542.3781
Total	14.3377	14.2741	55.8336	0.1149	9.6410	0.3375	9.9785	2.5794	0.3316	2.9110	0.0000	12,426.4270	12,426.4270	0.4714	0.0340	12,448.3278

	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
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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	2.6184	12.5527	31.7197	0.1044	9.6410	0.0905	9.7315	2.5794	0.0846	2.6639		10,532.50 41	10,532.50 41	0.3950		10,542.37 81
Unmitigated	2.6184	12.5527	31.7197	0.1044	9.6410	0.0905	9.7315	2.5794	0.0846	2.6639		10,532.50 41	10,532.50 41	0.3950		10,542.37 81

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,800.56	1,965.28	1516.56	4,119,231	4,119,231
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Apartments Mid Rise	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Enclosed Parking with Elevator	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835
Other Non-Asphalt Surfaces	0.586711	0.038259	0.185486	0.120728	0.016377	0.005053	0.010699	0.024311	0.001622	0.001773	0.005406	0.002738	0.000835

5.0 Energy Detail

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	lb/day										lb/day						
NaturalGas Mitigated	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506			799.1755	799.1755	0.0153	0.0147	803.9246
NaturalGas Unmitigated	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506			799.1755	799.1755	0.0153	0.0147	803.9246

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	lb/day										lb/day						
Apartments Mid Rise	6792.99	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506			799.1755	799.1755	0.0153	0.0147	803.9246
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506			799.1755	799.1755	0.0153	0.0147	803.9246

Mitigated

	Natural Gas 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	lb/day										lb/day					
Apartments Mid Rise	6.79299	0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0733	0.6260	0.2664	4.0000e-003		0.0506	0.0506		0.0506	0.0506		799.1755	799.1755	0.0153	0.0147	803.9246

6.0 Area Detail

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	lb/day										lb/day					
Mitigated	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251
Unmitigated	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0251

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	lb/day										lb/day					
Architectural Coating	1.6624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0965	0.8244	0.3508	5.2600e-003		0.0667	0.0667		0.0667	0.0667	0.0000	1,052.4706	1,052.4706	0.0202	0.0193	1,058.7249
Landscaping	0.7123	0.2709	23.4967	1.2400e-003		0.1297	0.1297		0.1297	0.1297		42.2768	42.2768	0.0409		43.3002
Total	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0250

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	lb/day										lb/day					
Architectural Coating	1.6624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.1749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0965	0.8244	0.3508	5.2600e-003		0.0667	0.0667		0.0667	0.0667	0.0000	1,052.4706	1,052.4706	0.0202	0.0193	1,058.7249
Landscaping	0.7123	0.2709	23.4967	1.2400e-003		0.1297	0.1297		0.1297	0.1297		42.2768	42.2768	0.0409		43.3002
Total	11.6461	1.0953	23.8475	6.5000e-003		0.1964	0.1964		0.1964	0.1964	0.0000	1,094.7474	1,094.7474	0.0611	0.0193	1,102.0250

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Del Hombre Off-site Roadway Improvements - Contra Costa County, Annual

**Del Hombre Off-site Roadway Improvements
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.15	Acre	0.15	6,534.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year	2022		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Additional 0.15 acres of asphalt paving for roadway improvements along Del Hombre Lane and Honey Trail

Land Use - Off-site Roadway Improvements

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65

2.0 Emissions Summary

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	2.6800e-003	0.0213	0.0262	4.0000e-005	1.1900e-003	1.0800e-003	2.2700e-003	5.3000e-004	1.0100e-003	1.5400e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681
Maximum	2.6800e-003	0.0213	0.0262	4.0000e-005	1.1900e-003	1.0800e-003	2.2700e-003	5.3000e-004	1.0100e-003	1.5400e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681

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	2.6800e-003	0.0213	0.0262	4.0000e-005	7.7000e-004	1.0800e-003	1.8600e-003	3.0000e-004	1.0100e-003	1.3200e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681
Maximum	2.6800e-003	0.0213	0.0262	4.0000e-005	7.7000e-004	1.0800e-003	1.8600e-003	3.0000e-004	1.0100e-003	1.3200e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681

	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
Percent Reduction	0.00	0.00	0.00	0.00	35.29	0.00	18.06	43.40	0.00	14.29	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	6-6-2022	9-5-2022	0.0219	0.0219
		Highest	0.0219	0.0219

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/6/2022	6/7/2022	5	2	
2	Paving	Paving	6/8/2022	6/14/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.15

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Grading	4	10.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005	7.5000e-004	3.4000e-004	1.0900e-003	4.1000e-004	3.2000e-004	7.3000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647

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					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005	3.4000e-004	3.4000e-004	6.8000e-004	1.9000e-004	3.2000e-004	5.1000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647

3.3 Paving - 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					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
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	1.8200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

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	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910
Total	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910

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	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
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	1.8200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

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	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910
Total	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910

Del Hombre Apartments Project - Mitigated Construction - Contra Costa County, Annual

**Del Hombre Apartments Project - Mitigated Construction
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	380.00	Space	0.00	162,000.00	0
Other Asphalt Surfaces	1.08	1000sqft	0.02	1,084.00	0
Other Non-Asphalt Surfaces	9.38	1000sqft	0.22	9,384.00	0
Other Non-Asphalt Surfaces	11.34	1000sqft	0.26	0.00	0
Apartments Mid Rise	284.00	Dwelling Unit	1.87	425,879.00	818

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Mitigated Construction - Tier IV Interim equipment
Anticipated construction start date: 7/2020

Land Use - Site summary based on site plan and project description. Parking is below residential building.

Construction Phase - Anticipated construction schedule

Off-road Equipment - Adjusted equipment to match applicant-provided data

Off-road Equipment - Adjusted equipment to match applicant-provided data

Off-road Equipment - Adjusted equipment to match applicant-provided data

Off-road Equipment - Adjusted equipment to match applicant-provided data

Off-road Equipment - Adjusted equipment to match applicant-provided data

Off-road Equipment - Adjusted equipment to match applicant-provided data

Trips and VMT - Additional vendor trips added to the grading phase to account for water trucks; Additional vendor trips added to the paving phase to account for cement trucks

Demolition - Demolition of existing buildings totaling approximately 3,350 square feet and removal of hardscape totaling approximately 1,000 square feet

Grading - Approximately 29,000 cubic yards of material to be exported

Up to approximately 400 cubic yards of material to be imported

Vehicle Trips - Construction only run

Woodstoves - Construction only run

Construction Off-road Equipment Mitigation - Tier IV Interim mitigation for construction equipment >50 HP

Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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	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 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	6.00	80.00
tblConstructionPhase	NumDays	220.00	345.00
tblConstructionPhase	NumDays	10.00	80.00
tblConstructionPhase	NumDays	10.00	20.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	48.28	0.00
tblGrading	MaterialExported	0.00	29,000.00
tblGrading	MaterialImported	0.00	400.00
tblLandUse	LandUseSquareFeet	152,000.00	162,000.00
tblLandUse	LandUseSquareFeet	1,080.00	1,084.00
tblLandUse	LandUseSquareFeet	11,340.00	0.00
tblLandUse	LandUseSquareFeet	9,380.00	9,384.00
tblLandUse	LandUseSquareFeet	284,000.00	425,879.00
tblLandUse	LotAcreage	3.42	0.00
tblLandUse	LotAcreage	7.47	1.87
tblLandUse	Population	812.00	818.00
tblOffRoadEquipment	HorsePower	9.00	0.00
tblOffRoadEquipment	HorsePower	84.00	0.00
tblOffRoadEquipment	HorsePower	187.00	0.00
tblOffRoadEquipment	HorsePower	247.00	0.00
tblOffRoadEquipment	HorsePower	247.00	0.00
tblOffRoadEquipment	HorsePower	367.00	0.00
tblOffRoadEquipment	HorsePower	97.00	0.00
tblOffRoadEquipment	LoadFactor	0.56	0.00

tblOffRoadEquipment	LoadFactor	0.74	0.00
tblOffRoadEquipment	LoadFactor	0.41	0.00
tblOffRoadEquipment	LoadFactor	0.40	0.00
tblOffRoadEquipment	LoadFactor	0.40	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	LoadFactor	0.37	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	4.50
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.90
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.80
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	7.00	3.90

tblOffRoadEquipment	UsageHours	8.00	1.60
tblOffRoadEquipment	UsageHours	7.00	3.50
tblOffRoadEquipment	UsageHours	8.00	1.30
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	6.39	0.00
tblVehicleTrips	SU_TR	5.86	0.00
tblVehicleTrips	WD_TR	6.65	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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					
2020	0.0474	0.8245	0.3974	1.9900e-003	0.0416	0.0165	0.0581	0.0107	0.0153	0.0260	0.0000	186.8086	186.8086	0.0211	0.0000	187.3351
2021	0.2103	1.6902	1.4516	5.7600e-003	0.3555	0.0404	0.3960	0.0951	0.0374	0.1325	0.0000	529.1050	529.1050	0.0422	0.0000	530.1589
2022	3.1403	0.7630	0.8179	2.6000e-003	0.1350	0.0254	0.1603	0.0363	0.0244	0.0607	0.0000	236.1493	236.1493	0.0180	0.0000	236.5985
Maximum	3.1403	1.6902	1.4516	5.7600e-003	0.3555	0.0404	0.3960	0.0951	0.0374	0.1325	0.0000	529.1050	529.1050	0.0422	0.0000	530.1589

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					
2020	0.0261	0.7195	0.4741	1.9900e-003	0.0390	2.6700e-003	0.0417	0.0103	2.5900e-003	0.0129	0.0000	186.8085	186.8085	0.0211	0.0000	187.3350
2021	0.1441	1.0343	2.1289	5.7600e-003	0.3546	7.0800e-003	0.3617	0.0950	6.8600e-003	0.1018	0.0000	469.0661	469.0661	0.0227	0.0000	469.6346
2022	3.0962	0.5124	1.0623	2.6000e-003	0.1350	3.1200e-003	0.1381	0.0363	3.0400e-003	0.0394	0.0000	214.9554	214.9554	0.0111	0.0000	215.2332
Maximum	3.0962	1.0343	2.1289	5.7600e-003	0.3546	7.0800e-003	0.3617	0.0950	6.8600e-003	0.1018	0.0000	469.0661	469.0661	0.0227	0.0000	469.6346

	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
Percent Reduction	3.87	30.86	-37.44	0.00	0.66	84.36	11.87	0.33	83.79	29.69	0.00	8.53	8.53	32.37	0.00	8.58

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-13-2020	10-12-2020	0.2489	0.1909
2	10-13-2020	1-12-2021	0.6915	0.6153
3	1-13-2021	4-12-2021	0.4682	0.2873
4	4-13-2021	7-12-2021	0.4678	0.2848
5	7-13-2021	10-12-2021	0.4738	0.2888
6	10-13-2021	1-12-2022	0.4738	0.2921
7	1-13-2022	4-12-2022	2.1296	1.9349
8	4-13-2022	7-12-2022	1.7302	1.6476
		Highest	2.1296	1.9349

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	7/13/2020	8/23/2020	5	30	
2	Site Preparation	Site Preparation	8/24/2020	9/20/2020	5	20	
3	Grading	Grading	9/21/2020	1/10/2021	5	80	
4	Building Construction	Building Construction	1/11/2021	5/8/2022	5	345	
5	Architectural Coating	Architectural Coating	2/14/2022	6/5/2022	5	80	
6	Paving	Paving	6/6/2022	7/3/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.5

Residential Indoor: 862,405; Residential Outdoor: 287,468; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	1.90	81	0.73
Demolition	Excavators	1	1.90	156	0.38
Demolition	Rubber Tired Dozers	0	0.00	0	0.00
Demolition	Tractors/Loaders/Backhoes	3	1.00	97	0.37
Site Preparation	Graders	1	4.00	187	0.41
Site Preparation	Scrapers	0	0.00	0	0.00
Site Preparation	Tractors/Loaders/Backhoes	1	3.50	97	0.37
Grading	Excavators	1	6.00	156	0.38
Grading	Graders	0	0.00	0	0.00
Grading	Off-Highway Trucks	1	3.00	402	0.38
Grading	Rubber Tired Dozers	0	0.00	0	0.00
Grading	Tractors/Loaders/Backhoes	2	3.90	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	0	0.00	0	0.00
Building Construction	Tractors/Loaders/Backhoes	0	0.00	0	0.00
Building Construction	Welders	1	1.30	46	0.45
Architectural Coating	Aerial Lifts	1	1.00	63	0.31
Architectural Coating	Air Compressors	5	4.50	78	0.48
Paving	Cement and Mortar Mixers	0	0.00	0	0.00
Paving	Pavers	1	2.00	130	0.42
Paving	Paving Equipment	1	2.00	132	0.36
Paving	Rollers	1	0.80	80	0.38
Paving	Tractors/Loaders/Backhoes	1	1.60	97	0.37

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	5	13.00	0.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	3,675.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	277.00	59.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

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					4.1000e-004	0.0000	4.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5400e-003	0.0322	0.0376	6.0000e-005		1.8700e-003	1.8700e-003		1.7800e-003	1.7800e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950
Total	3.5400e-003	0.0322	0.0376	6.0000e-005	4.1000e-004	1.8700e-003	2.2800e-003	6.0000e-005	1.7800e-003	1.8400e-003	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950

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	2.0000e-005	5.8000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1517	0.1517	1.0000e-005	0.0000	0.1518
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	6.5000e-004	4.7000e-004	4.9000e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5600e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3568	1.3568	3.0000e-005	0.0000	1.3576
Total	6.7000e-004	1.0500e-003	5.0100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5085	1.5085	4.0000e-005	0.0000	1.5095

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					1.8000e-004	0.0000	1.8000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	0.0237	0.0409	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950
Total	1.0300e-003	0.0237	0.0409	6.0000e-005	1.8000e-004	9.0000e-005	2.7000e-004	3.0000e-005	9.0000e-005	1.2000e-004	0.0000	5.0665	5.0665	1.1400e-003	0.0000	5.0950

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	2.0000e-005	5.8000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1517	0.1517	1.0000e-005	0.0000	0.1518
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	6.5000e-004	4.7000e-004	4.9000e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5600e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3568	1.3568	3.0000e-005	0.0000	1.3576
Total	6.7000e-004	1.0500e-003	5.0100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5085	1.5085	4.0000e-005	0.0000	1.5095

3.3 Site Preparation - 2020

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					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3000e-003	0.0408	0.0191	5.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423
Total	3.3000e-003	0.0408	0.0191	5.0000e-005	2.6500e-003	1.5900e-003	4.2400e-003	2.9000e-004	1.4700e-003	1.7600e-003	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423

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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481
Total	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481

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					1.1900e-003	0.0000	1.1900e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	0.0147	0.0278	5.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423
Total	8.5000e-004	0.0147	0.0278	5.0000e-005	1.1900e-003	8.0000e-005	1.2700e-003	1.3000e-004	8.0000e-005	2.1000e-004	0.0000	4.1091	4.1091	1.3300e-003	0.0000	4.1423

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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481
Total	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	1.0000e-005	0.0000	0.3481

3.4 Grading - 2020

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					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2306	0.2258	4.4000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	38.5276	38.5276	0.0125	0.0000	38.8391
Total	0.0236	0.2306	0.2258	4.4000e-004	1.6600e-003	0.0112	0.0129	2.5000e-004	0.0103	0.0106	0.0000	38.5276	38.5276	0.0125	0.0000	38.8391

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	0.0140	0.4933	0.0929	1.3400e-003	0.0305	1.6200e-003	0.0322	8.3400e-003	1.5500e-003	9.9000e-003	0.0000	128.8838	128.8838	5.7300e-003	0.0000	129.0271
Vendor	8.9000e-004	0.0255	6.5500e-003	6.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.2000e-004	1.2000e-004	5.5000e-004	0.0000	5.7909	5.7909	2.8000e-004	0.0000	5.7980
Worker	1.2400e-003	9.0000e-004	9.2900e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5744	2.5744	6.0000e-005	0.0000	2.5760
Total	0.0162	0.5197	0.1087	1.4300e-003	0.0349	1.7700e-003	0.0367	9.5400e-003	1.6900e-003	0.0113	0.0000	137.2491	137.2491	6.0700e-003	0.0000	137.4012

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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.1603	0.2904	4.4000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	38.5275	38.5275	0.0125	0.0000	38.8391
Total	7.2700e-003	0.1603	0.2904	4.4000e-004	7.5000e-004	7.2000e-004	1.4700e-003	1.1000e-004	7.2000e-004	8.3000e-004	0.0000	38.5275	38.5275	0.0125	0.0000	38.8391

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	0.0140	0.4933	0.0929	1.3400e-003	0.0305	1.6200e-003	0.0322	8.3400e-003	1.5500e-003	9.9000e-003	0.0000	128.8838	128.8838	5.7300e-003	0.0000	129.0271
Vendor	8.9000e-004	0.0255	6.5500e-003	6.0000e-005	1.4600e-003	1.3000e-004	1.5900e-003	4.2000e-004	1.2000e-004	5.5000e-004	0.0000	5.7909	5.7909	2.8000e-004	0.0000	5.7980
Worker	1.2400e-003	9.0000e-004	9.2900e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5744	2.5744	6.0000e-005	0.0000	2.5760
Total	0.0162	0.5197	0.1087	1.4300e-003	0.0349	1.7700e-003	0.0367	9.5400e-003	1.6900e-003	0.0113	0.0000	137.2491	137.2491	6.0700e-003	0.0000	137.4012

3.4 Grading - 2021

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					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7500e-003	0.0163	0.0180	4.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495
Total	1.7500e-003	0.0163	0.0180	4.0000e-005	1.6600e-003	7.8000e-004	2.4400e-003	2.5000e-004	7.2000e-004	9.7000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495

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	1.0700e-003	0.0369	7.3100e-003	1.1000e-004	0.0239	1.2000e-004	0.0240	5.9400e-003	1.1000e-004	6.0500e-003	0.0000	10.3211	10.3211	4.5000e-004	0.0000	10.3325
Vendor	6.0000e-005	1.8600e-003	4.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4653	0.4653	2.0000e-005	0.0000	0.4659
Worker	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2013	0.2013	0.0000	0.0000	0.2015
Total	1.2200e-003	0.0388	8.4700e-003	1.1000e-004	0.0243	1.2000e-004	0.0244	6.0300e-003	1.1000e-004	6.1500e-003	0.0000	10.9878	10.9878	4.7000e-004	0.0000	10.9998

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					7.5000e-004	0.0000	7.5000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0130	0.0236	4.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495
Total	5.9000e-004	0.0130	0.0236	4.0000e-005	7.5000e-004	6.0000e-005	8.1000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	3.1243	3.1243	1.0100e-003	0.0000	3.1495

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	1.0700e-003	0.0369	7.3100e-003	1.1000e-004	0.0239	1.2000e-004	0.0240	5.9400e-003	1.1000e-004	6.0500e-003	0.0000	10.3211	10.3211	4.5000e-004	0.0000	10.3325
Vendor	6.0000e-005	1.8600e-003	4.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4653	0.4653	2.0000e-005	0.0000	0.4659
Worker	9.0000e-005	6.0000e-005	6.9000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2013	0.2013	0.0000	0.0000	0.2015
Total	1.2200e-003	0.0388	8.4700e-003	1.1000e-004	0.0243	1.2000e-004	0.0244	6.0300e-003	1.1000e-004	6.1500e-003	0.0000	10.9878	10.9878	4.7000e-004	0.0000	10.9998

3.5 Building Construction - 2021

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	0.0733	0.7811	0.4187	9.6000e-004		0.0360	0.0360		0.0332	0.0332	0.0000	83.5087	83.5087	0.0263	0.0000	84.1651
Total	0.0733	0.7811	0.4187	9.6000e-004		0.0360	0.0360		0.0332	0.0332	0.0000	83.5087	83.5087	0.0263	0.0000	84.1651

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	0.0246	0.7776	0.1975	2.0300e-003	0.0495	1.7400e-003	0.0512	0.0143	1.6700e-003	0.0160	0.0000	194.4601	194.4601	9.0300e-003	0.0000	194.6858
Worker	0.1094	0.0765	0.8088	2.6200e-003	0.2801	1.8200e-003	0.2819	0.0745	1.6800e-003	0.0762	0.0000	237.0242	237.0242	5.3900e-003	0.0000	237.1588
Total	0.1340	0.8540	1.0063	4.6500e-003	0.3296	3.5600e-003	0.3332	0.0888	3.3500e-003	0.0921	0.0000	431.4843	431.4843	0.0144	0.0000	431.8446

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	8.3200e-003	0.1285	1.0905	9.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	23.4698	23.4698	6.8400e-003	0.0000	23.6407
Total	8.3200e-003	0.1285	1.0905	9.6000e-004		3.3400e-003	3.3400e-003		3.3400e-003	3.3400e-003	0.0000	23.4698	23.4698	6.8400e-003	0.0000	23.6407

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	0.0246	0.7776	0.1975	2.0300e-003	0.0495	1.7400e-003	0.0512	0.0143	1.6700e-003	0.0160	0.0000	194.4601	194.4601	9.0300e-003	0.0000	194.6858
Worker	0.1094	0.0765	0.8088	2.6200e-003	0.2801	1.8200e-003	0.2819	0.0745	1.6800e-003	0.0762	0.0000	237.0242	237.0242	5.3900e-003	0.0000	237.1588
Total	0.1340	0.8540	1.0063	4.6500e-003	0.3296	3.5600e-003	0.3332	0.0888	3.3500e-003	0.0921	0.0000	431.4843	431.4843	0.0144	0.0000	431.8446

3.5 Building Construction - 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					
Off-Road	0.0233	0.2405	0.1430	3.4000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	29.4774	29.4774	9.2500e-003	0.0000	29.7087
Total	0.0233	0.2405	0.1430	3.4000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	29.4774	29.4774	9.2500e-003	0.0000	29.7087

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	8.1000e-003	0.2592	0.0654	7.1000e-004	0.0175	5.3000e-004	0.0180	5.0500e-003	5.1000e-004	5.5600e-003	0.0000	67.9827	67.9827	3.0200e-003	0.0000	68.0582
Worker	0.0359	0.0242	0.2622	8.9000e-004	0.0989	6.3000e-004	0.0995	0.0263	5.8000e-004	0.0269	0.0000	80.5496	80.5496	1.7000e-003	0.0000	80.5922
Total	0.0440	0.2834	0.3276	1.6000e-003	0.1163	1.1600e-003	0.1175	0.0313	1.0900e-003	0.0324	0.0000	148.5322	148.5322	4.7200e-003	0.0000	148.6503

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	2.6600e-003	0.0414	0.3802	3.4000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	8.2835	8.2835	2.4000e-003	0.0000	8.3434
Total	2.6600e-003	0.0414	0.3802	3.4000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	8.2835	8.2835	2.4000e-003	0.0000	8.3434

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	8.1000e-003	0.2592	0.0654	7.1000e-004	0.0175	5.3000e-004	0.0180	5.0500e-003	5.1000e-004	5.5600e-003	0.0000	67.9827	67.9827	3.0200e-003	0.0000	68.0582
Worker	0.0359	0.0242	0.2622	8.9000e-004	0.0989	6.3000e-004	0.0995	0.0263	5.8000e-004	0.0269	0.0000	80.5496	80.5496	1.7000e-003	0.0000	80.5922
Total	0.0440	0.2834	0.3276	1.6000e-003	0.1163	1.1600e-003	0.1175	0.0313	1.0900e-003	0.0324	0.0000	148.5322	148.5322	4.7200e-003	0.0000	148.6503

3.6 Architectural Coating - 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					
Archit. Coating	3.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0309	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047
Total	3.0648	0.2141	0.2775	4.5000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047

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	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241
Total	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241

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	3.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3800e-003	0.1637	0.2812	4.5000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047
Total	3.0423	0.1637	0.2812	4.5000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	39.0364	39.0364	2.7300e-003	0.0000	39.1047

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	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241
Total	6.3300e-003	4.2700e-003	0.0463	1.6000e-004	0.0175	1.1000e-004	0.0176	4.6400e-003	1.0000e-004	4.7400e-003	0.0000	14.2165	14.2165	3.0000e-004	0.0000	14.2241

3.7 Paving - 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					
Off-Road	1.4600e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4900e-003	0.0147	0.0199	3.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261

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	1.8000e-004	5.8600e-003	1.4800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5363	1.5363	7.0000e-005	0.0000	1.5380
Worker	2.9000e-004	1.9000e-004	2.1000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6462	0.6462	1.0000e-005	0.0000	0.6466
Total	4.7000e-004	6.0500e-003	3.5800e-003	3.0000e-005	1.1800e-003	2.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.5000e-004	0.0000	2.1825	2.1825	8.0000e-005	0.0000	2.1846

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	4.7000e-004	0.0135	0.0233	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261
Paving	3.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.0000e-004	0.0135	0.0233	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.7042	2.7042	8.7000e-004	0.0000	2.7261

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	1.8000e-004	5.8600e-003	1.4800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5363	1.5363	7.0000e-005	0.0000	1.5380
Worker	2.9000e-004	1.9000e-004	2.1000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6462	0.6462	1.0000e-005	0.0000	0.6466
Total	4.7000e-004	6.0500e-003	3.5800e-003	3.0000e-005	1.1800e-003	2.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.5000e-004	0.0000	2.1825	2.1825	8.0000e-005	0.0000	2.1846

Del Hombre Off-site Roadway Improvements - Mitigated Construction - Contra Costa County, Annual

**Del Hombre Off-site Roadway Improvements - Mitigated Construction
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.15	Acre	0.15	6,534.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Additional 0.15 acres of asphalt paving for roadway improvements along Del Hombre Lane and Honey Trail

Mitigated Construction - Tier IV Final equipment

Land Use - Off-site Roadway Improvements

Construction Off-road Equipment Mitigation - Tier IV Interim mitigation for construction equipment >50 HP

Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65

2.0 Emissions Summary

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	2.6800e-003	0.0213	0.0262	4.0000e-005	1.1900e-003	1.0800e-003	2.2700e-003	5.3000e-004	1.0100e-003	1.5400e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681
Maximum	2.6800e-003	0.0213	0.0262	4.0000e-005	1.1900e-003	1.0800e-003	2.2700e-003	5.3000e-004	1.0100e-003	1.5400e-003	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681

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	1.4400e-003	0.0174	0.0287	4.0000e-005	7.7000e-004	1.7000e-004	9.4000e-004	3.0000e-004	1.6000e-004	4.7000e-004	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681
Maximum	1.4400e-003	0.0174	0.0287	4.0000e-005	7.7000e-004	1.7000e-004	9.4000e-004	3.0000e-004	1.6000e-004	4.7000e-004	0.0000	3.7460	3.7460	8.8000e-004	0.0000	3.7681

	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
Percent Reduction	46.27	18.30	-9.39	0.00	35.29	84.26	58.59	43.40	84.16	69.48	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	6-6-2022	9-5-2022	0.0219	0.0175
		Highest	0.0219	0.0175

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/6/2022	6/7/2022	5	2	
2	Paving	Paving	6/8/2022	6/14/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.15

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Grading	4	10.00	0.00	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

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005	7.5000e-004	3.4000e-004	1.0900e-003	4.1000e-004	3.2000e-004	7.3000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647

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					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-004	4.5400e-003	7.9400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	2.4000e-004	4.5400e-003	7.9400e-003	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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	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	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647	0.0000
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0646	0.0646	0.0000	0.0000	0.0647	0.0000

3.3 Paving - 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						
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663	0.0000
Paving	2.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663	0.0000

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	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	0.0000
Worker	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910	0.0000
Total	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910	0.0000

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	8.5000e-004	0.0128	0.0196	3.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
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	1.0500e-003	0.0128	0.0196	3.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

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	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910
Total	1.3000e-004	9.0000e-005	9.5000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2908	0.2908	1.0000e-005	0.0000	0.2910

Del Hombre Apartments Project - 2030 Operations - Contra Costa County, Annual

**Del Hombre Apartments Project - 2030 Operations
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	380.00	Space	0.00	162,000.00	0
Other Asphalt Surfaces	1.08	1000sqft	0.02	1,084.00	0
Other Non-Asphalt Surfaces	9.38	1000sqft	0.22	9,384.00	0
Other Non-Asphalt Surfaces	11.34	1000sqft	0.26	0.00	0
Apartments Mid Rise	284.00	Dwelling Unit	1.87	425,879.00	818

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year	2030		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	366.91	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted CO2 intensity factor based on Renewable Portfolio Standard 2030 Operations
 Land Use - Site summary based on site plan and project description. Parking is below residential building.
 Construction Phase - Operational run only
 Off-road Equipment - Operational run only

Off-road Equipment - Estimated construction equipment for the building construction phase

Trips and VMT - Operational run only

Vehicle Trips - Trip rates consistent with the Del Hombre Apartments TIA prepared by Fehr and Peers in January 2019

Woodstoves - No woodburning

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	48.28	0.00
tblLandUse	LandUseSquareFeet	152,000.00	162,000.00
tblLandUse	LandUseSquareFeet	1,080.00	1,084.00
tblLandUse	LandUseSquareFeet	11,340.00	0.00
tblLandUse	LandUseSquareFeet	9,380.00	9,384.00
tblLandUse	LandUseSquareFeet	284,000.00	425,879.00
tblLandUse	LotAcreage	3.42	0.00
tblLandUse	LotAcreage	7.47	1.87
tblLandUse	Population	812.00	818.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	366.91
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	6.39	6.92
tblVehicleTrips	SU_TR	5.86	5.34
tblVehicleTrips	WD_TR	6.65	6.34
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840
Energy	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	489.8597	489.8597	0.0308	8.2700e-003	493.0948
Mobile	0.2787	1.3054	3.1110	0.0138	1.5371	9.0100e-003	1.5461	0.4122	8.3700e-003	0.4206	0.0000	1,268.1343	1,268.1343	0.0383	0.0000	1,269.0907
Waste						0.0000	0.0000		0.0000	0.0000	26.5187	0.0000	26.5187	1.5672	0.0000	65.6991
Water						0.0000	0.0000		0.0000	0.0000	5.8704	23.4584	29.3288	0.6048	0.0146	48.8057
Total	2.3336	1.4485	5.2684	0.0147	1.5371	0.0303	1.5675	0.4122	0.0297	0.4419	32.3891	1,790.2223	1,822.6115	2.2445	0.0230	1,885.5742

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	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840
Energy	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	489.8597	489.8597	0.0308	8.2700e-003	493.0948
Mobile	0.2787	1.3054	3.1110	0.0138	1.5371	9.0100e-003	1.5461	0.4122	8.3700e-003	0.4206	0.0000	1,268.1343	1,268.1343	0.0383	0.0000	1,269.0907
Waste						0.0000	0.0000		0.0000	0.0000	19.6239	0.0000	19.6239	1.1597	0.0000	48.6173
Water						0.0000	0.0000		0.0000	0.0000	4.6963	18.7667	23.4630	0.4838	0.0117	39.0445
Total	2.3336	1.4485	5.2684	0.0147	1.5371	0.0303	1.5675	0.4122	0.0297	0.4419	24.3202	1,785.5307	1,809.8508	1.7160	0.0201	1,858.7314

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.91	0.26	0.70	23.54	12.70	1.42

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.2787	1.3054	3.1110	0.0138	1.5371	9.0100e-003	1.5461	0.4122	8.3700e-003	0.4206	0.0000	1,268.1343	1,268.1343	0.0383	0.0000	1,269.0907
Unmitigated	0.2787	1.3054	3.1110	0.0138	1.5371	9.0100e-003	1.5461	0.4122	8.3700e-003	0.4206	0.0000	1,268.1343	1,268.1343	0.0383	0.0000	1,269.0907

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,800.56	1,965.28	1516.56	4,119,231	4,119,231
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	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
Apartments Mid Rise	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Enclosed Parking with Elevator	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

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	357.5472	357.5472	0.0283	5.8500e-003	359.9961
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	357.5472	357.5472	0.0283	5.8500e-003	359.9961
NaturalGas Mitigated	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
NaturalGas Unmitigated	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

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					
Apartments Mid Rise	2.47944e+006	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
Enclosed Parking with Elevator	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	0.0000	0.0000
Other Asphalt Surfaces	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	0.0000	0.0000
Other Non-Asphalt Surfaces	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	0.0000	0.0000
Total		0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

Mitigated

	Natural Gas 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					
Apartments Mid Rise	2.47944e+006	0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987
Enclosed Parking with Elevator	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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		0.0134	0.1143	0.0486	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19905e+006	199.5542	0.0158	3.2600e-003	200.9209
Enclosed Parking with Elevator	949320	157.9930	0.0125	2.5800e-003	159.0751
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		357.5472	0.0283	5.8400e-003	359.9961

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19905e+006	199.5542	0.0158	3.2600e-003	200.9209
Enclosed Parking with Elevator	949320	157.9930	0.0125	2.5800e-003	159.0751
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		357.5472	0.0283	5.8400e-003	359.9961

6.0 Area Detail

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	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840
Unmitigated	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840

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	0.3034					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6744					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.4000e-004	4.5900e-003	1.9500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3182	5.3182	1.0000e-004	1.0000e-004	5.3498

Landscaping	0.0632	0.0243	2.1068	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4518	3.4518	3.3000e-003	0.0000	3.5343
Total	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840

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	0.3034					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6744					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.4000e-004	4.5900e-003	1.9500e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3182	5.3182	1.0000e-004	1.0000e-004	5.3498
Landscaping	0.0632	0.0243	2.1068	1.1000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	3.4518	3.4518	3.3000e-003	0.0000	3.5343
Total	2.0416	0.0289	2.1088	1.4000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	8.7699	8.7699	3.4000e-003	1.0000e-004	8.8840

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.4630	0.4838	0.0117	39.0445
Unmitigated	29.3288	0.6048	0.0146	48.8057

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	18.5037 / 11.6654	29.3288	0.6048	0.0146	48.8057
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.3288	0.6048	0.0146	48.8057

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.803 / 9.33232	23.4630	0.4838	0.0117	39.0445
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		23.4630	0.4838	0.0117	39.0445

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.6239	1.1597	0.0000	48.6173
Unmitigated	26.5187	1.5672	0.0000	65.6991

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	130.64	26.5187	1.5672	0.0000	65.6991
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		26.5187	1.5672	0.0000	65.6991

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	96.6736	19.6239	1.1597	0.0000	48.6173
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		19.6239	1.1597	0.0000	48.6173

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Del Hombre Project

Estimation of Annual Onsite Construction DPM Emissions (Unmitigated)

Start of Construction 7/13/2020
 End of Construction 7/3/2022
 Number of Workdays 515 (non-weekends)
 Construction Schedule 8 hours/day

Size of the Construction area source: 10266 sq-meters

2020		Onsite
Onsite	Construction Activity	(tons)
	Demolition	1.780E-03
	Site Preparation	1.470E-03
	Grading—2020	1.030E-02
	Total	1.355E-02
2021		
Onsite	Construction Activity	
	Grading—2021	7.200E-04
	Building Construction—2021	3.340E-03
	Total	4.060E-03
2022		
Onsite	Construction Activity	
	Building Construction—2022	1.000E-03
	Architectural Coating	1.230E-02
	Paving	6.800E-04
	Offsite Road Improvements	1.010E-03
	Total	1.499E-02
Total		3.260E-02 tons
Average Emission		2.960E+04 grams 5.748E+01 grams/day 1.996E-03 grams/sec 1.944E-07 grams/m2-sec

Estimation of Annual Onsite Construction PM2.5 Total Emissions (Unmitigated)

2020		Onsite
Onsite	Construction Activity	(tons)
	Demolition	1.810E-03
	Site Preparation	1.600E-03
	Grading—2020	1.050E-02
	Total	1.391E-02
2021		
Onsite	Construction Activity	
	Grading—2021	8.300E-04
	Building Construction—2021	3.340E-03
	Total	4.170E-03
2022		
Onsite	Construction Activity	
	Building Construction—2022	1.000E-03
	Architectural Coating	1.230E-02
	Paving	6.800E-04
	Offsite Road Improvements	1.010E-03
	Total	1.499E-02
Total		3.307E-02 tons
Average Emission		3.003E+04 grams 5.831E+01 grams/day 2.025E-03 grams/sec 1.972E-07 grams/m2-sec

Del Hombre Project

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation)

Start of Construction 7/13/2020
 End of Construction 7/3/2022
 Number of Workdays 515 (non-weekends)
 Construction Schedule 8 hours/day

Size of the Construction area source: 10266 sq-meters

	2020	2020	2020	2021	2021	2022	2022	2022	2022
		Site			Building	Building	Architectural		Offsite Road
Construction Trip Type	Demolition	Preparation	Grading	Grading	Construction	Construction	Coating	Paving	Improvements
Haul Truck	0.000E+00	0.000E+00	1.550E-03	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Vendor Truck	0.000E+00	0.000E+00	1.200E-04	0.000E+00	1.670E-03	5.100E-04	0.000E+00	1.000E-05	0.000E+00
Worker	1.000E-05	0.000E+00	2.000E-05	0.000E+00	1.680E-03	5.800E-04	1.000E-04	0.000E+00	0.000E+00
Total	1.000E-05	0.000E+00	1.690E-03	1.100E-04	3.350E-03	1.090E-03	1.000E-04	1.000E-05	0.000E+00
	Haul Truck	Vendor Truck	Worker						
	(tons)	(tons)	(tons)						
Total	1.660E-03	2.310E-03	2.390E-03						
Average Emissions	Grams	2.097E+03	2.170E+03						
	Grams/day	4.073E+00	4.214E+00						
	Grams/sec	1.016E-04	1.463E-04						
Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8						
Vehicle Travel Distances in the Construction HRA (miles)									
Road Segment 1 (mi)	0.52	0.52	0.52	miles					
Road Segment 2 (mi)	0.48	0.48	0.48	miles					
Road Segment 3 (mi)	0.65	0.65	0.65	miles					
Road Segment 4 (mi)	0.57	0.57	0.57	miles					
Trip Distribution (percent)									
All Road Segments	0.25	0.25	0.25						
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)									
Road Segment 1 (mi)	6.637E-07	2.530E-06	1.770E-06	4.964E-06					
Road Segment 2 (mi)	6.051E-07	2.307E-06	1.613E-06	4.525E-06					
Road Segment 3 (mi)	8.262E-07	3.150E-06	2.203E-06	6.179E-06					
Road Segment 4 (mi)	7.258E-07	2.767E-06	1.935E-06	5.428E-06					

Estimation of Annual Offsite Construction PM2.5 Total Emissions (No Mitigation)

	2020	2020	2020	2021	2021	2022	2022	2022	2022
		Site			Building	Building	Architectural		Offsite Road
Construction Trip Type	Demolition	Preparation	Grading	Grading	Construction	Construction	Coating	Paving	Improvements
Haul Truck	1.000E-05	0.000E+00	9.900E-03	6.050E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Vendor Truck	0.000E+00	0.000E+00	5.500E-04	4.000E-05	1.600E-02	5.560E-03	0.000E+00	1.300E-04	0.000E+00
Worker	4.200E-04	1.100E-04	8.000E-04	6.000E-05	7.620E-02	2.690E-02	4.740E-03	2.200E-04	1.200E-04
Total	4.300E-04	1.100E-04	1.130E-02	6.150E-03	9.210E-02	3.240E-02	4.740E-03	3.500E-04	1.200E-04
	Haul Truck	Vendor Truck	Worker						
	(tons)	(tons)	(tons)						
Total	1.596E-02	2.228E-02	1.096E-01						
Average Emissions	Grams	2.023E+04	9.949E+04						
	Grams/day	3.928E+01	1.932E+02						
	Grams/sec	1.364E-03	6.708E-03						
Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8						
Vehicle Travel Distances in the Construction HRA (miles)									
Road Segment 1 (mi)	0.52	0.52	0.52	miles					
Road Segment 2 (mi)	0.48	0.48	0.48	miles					
Road Segment 3 (mi)	0.65	0.65	0.65	miles					
Road Segment 4 (mi)	0.57	0.57	0.57	miles					
Trip Distribution (percent)									
All Road Segments	0.25	0.25	0.25						
Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)									
Road Segment 1 (mi)	6.637E-07	2.530E-06	1.770E-06	4.964E-06					
Road Segment 2 (mi)	6.051E-07	2.307E-06	1.613E-06	4.525E-06					
Road Segment 3 (mi)	8.262E-07	3.150E-06	2.203E-06	6.179E-06					
Road Segment 4 (mi)	7.258E-07	2.767E-06	1.935E-06	5.428E-06					

Del Hombre Project

Estimation of Annual Onsite Construction DPM Emissions (Mitigated)

Tier IV Interim Mitigated Construction Equipment

Start of Construction	7/13/2020
End of Construction	7/3/2022
Number of Workdays	515 (non-weekends)
Construction Schedule	8 hours/day

Size of the Construction area source: 10266 sq-meters

2020		
Onsite	Construction Activity	Onsite (tons)
	Demolition	9.000E-05
	Site Preparation	8.000E-05
	Grading—2020	7.200E-04
	Total	8.900E-04
2021		
Onsite	Construction Activity	Onsite (tons)
	Grading—2021	6.000E-05
	Building Construction—2021	3.340E-03
	Total	3.400E-03
2022		
Onsite	Construction Activity	Onsite (tons)
	Building Construction—2022	1.000E-03
	Architectural Coating	7.900E-04
	Paving	5.000E-05
	Offsite Road Improvements	1.600E-04
	Total	2.000E-03
Total		6.290E-03 tons
Average Emission		5.711E+03 grams 1.109E+01 grams/day 3.851E-04 grams/sec 3.751E-08 grams/m2-sec

Estimation of Annual Onsite Construction PM2.5 Total Emissions (Mitigated)

Tier IV Interim Mitigated Construction Equipment

2020		
Onsite	Construction Activity	Onsite (tons)
	Demolition	1.200E-04
	Site Preparation	2.100E-04
	Grading—2020	8.300E-04
	Total	1.160E-03
2021		
Onsite	Construction Activity	Onsite (tons)
	Grading—2021	1.700E-04
	Building Construction—2021	3.340E-03
	Total	3.510E-03
2022		
Onsite	Construction Activity	Onsite (tons)
	Building Construction—2022	1.000E-03
	Architectural Coating	7.900E-04
	Paving	5.000E-05
	Offsite Road Improvements	3.500E-04
	Total	2.190E-03
Total		6.860E-03 tons
Average Emission		6.229E+03 grams 1.209E+01 grams/day 4.200E-04 grams/sec 4.091E-08 grams/m2-sec

Del Hombre Project

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate [grams/m2/sec]	1.94E-07
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 1 [grams/sec]	4.96E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 2 [grams/sec]	4.53E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 3 [grams/sec]	6.18E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 4 [grams/sec]	5.43E-06

Unmitigated Concentrations (All Sensitive Receptor)

X	Y	AVERAGE CONC. [ug/m3]				Onsite		Offsite-Road Segment 1		Offsite-Road Segment 2		Offsite-Road Segment 3		Offsite-Road Segment 4		Total		
		Line 1	Line 2	Line 3	Line 4	w/Units Emissions	w/Actual Emissions	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust	Annual DPM Exhaust				
583262.2	419849.47	341876.9	2.36545	2.58245	2.00372	2.42668	341876.8992	0.06646	2.35445	1.168612E-05	2.58245	1.24209E-05	2.01027	1.24209E-05	2.42668	1.31777E-05	0.06651	
583265.8	419849.4	377683.3	2.37082	2.57899	2.01557	2.51257	377683.3211	0.07342	2.37082	1.176766E-05	2.57899	1.166686E-05	2.01557	1.24530E-05	2.51257	1.368399E-05	0.07347	
583274.4	419849.47	20551.99	2.25044	2.47284	1.92061	2.25692	20551.9568	0.02628	2.25044	1.122574E-05	2.47284	1.119501E-05	1.92061	1.186696E-05	2.25692	1.22521E-05	0.02628	
583277.5	419849.59	280865.6	2.12467	2.15179	1.80752	2.17522	280865.6161	0.02462	2.12467	1.092638E-05	2.15179	1.107048E-05	1.71922	1.11706E-05	2.17522	1.18077E-05	0.02462	
583269.8	419848.22	312621	2.12003	2.1381	1.80663	2.26003	312620.984	0.02623	2.12003	1.05228E-05	2.1381	1.04161E-05	1.80663	1.11626E-05	2.26003	1.21680E-05	0.02623	
583265.5	419841.95	40494.3	2.34539	2.53551	1.99294	2.58776	40494.3175	0.07805	2.34539	1.16441E-05	2.53551	1.14737E-05	1.99294	1.23138E-05	2.58776	1.40470E-05	0.07810	
583268.8	419841.58	322561	2.05218	2.19636	1.7925	2.19841	322560.9809	0.04663	2.05218	1.00967E-05	2.19636	1.09886E-05	1.7925	1.07709E-05	2.19841	1.22327E-05	0.04666	
583302.2	419848.48	150451.1	1.66621	1.74444	1.37564	1.64029	150451.059	0.02925	1.66621	1.079244E-05	1.74444	1.089939E-05	1.37564	1.089939E-05	1.64029	1.058278E-05	0.02928	
583307.1	419848.29	146590.8	1.51569	1.64392	1.30504	1.62039	146590.8425	0.02850	1.51569	7.523144E-06	1.64392	1.43906E-05	1.30504	1.07354E-05	1.62039	8.72446E-06	0.02853	
583299.2	419848.48	173881.9	1.574	1.80527	1.37784	1.73003	173881.8756	0.02909	1.574	7.81256E-06	1.70857	1.42734E-05	1.37784	1.08799E-05	1.73003	9.93050E-06	0.02913	
583312.4	419849.17	139027.2	1.46693	1.54693	1.20344	1.55036	139027.2632	0.02703	1.46693	1.38239	1.11051E-05	1.54693	1.07857E-05	1.20344	1.03571E-05	1.55036	8.64040E-06	0.02706
583299.2	419849.06	174194.4	1.49175	1.61192	1.29613	1.72531	174194.4154	0.03886	1.49175	1.29613	1.29613	1.29613	1.29613	1.29613	1.29613	1.29613	1.29613	0.03886
583291.6	419839.84	378551.3	1.91864	2.02847	1.63822	2.46815	378551.2955	0.07359	1.91864	9.52318E-06	2.02847	9.19232E-06	1.63822	1.01221E-05	2.46815	1.33978E-05	0.07363	
583293.7	419827.45	48757.56	2.44821	2.44821	1.48481	2.50942	48757.5629	0.06262	2.44821	1.48481	1.48481	1.48481	1.48481	1.48481	1.48481	1.48481	1.48481	0.06262
583264.8	419835.92	312047.8	1.71775	1.82951	1.48323	2.0037	312047.7786	0.03759	1.71775	1.05228E-05	1.82951	1.27899E-05	1.48323	1.06221E-05	2.0037	1.19442E-05	0.03760	
583264.8	419837.61	278548.2	1.75558	1.67616	1.37431	1.21355	278548.2747	0.04515	1.75558	7.82040E-06	1.67616	1.75895E-05	1.37431	1.089147E-05	1.21355	1.05170E-05	0.04521	
583282	419838.08	222080.6	1.53876	1.65357	1.34341	1.92884	222080.5821	0.04147	1.53876	7.67055E-06	1.65357	1.47367E-06	1.34341	1.08799E-05	1.92884	1.04702E-05	0.04148	
583296.8	419838.99	172165.65	1.40387	1.51323	1.19329	1.48037	172165.6589	0.02847	1.40387	8.96812E-06	1.51323	1.09326E-05	1.19329	1.03541E-05	1.48037	9.24590E-06	0.02850	
583282.9	419837.61	194878.8	1.40361	1.50935	1.2411	1.86583	194878.8242	0.03788	1.40361	6.89023E-06	1.50935	6.83001E-06	1.2411	1.06840E-05	1.86583	1.01282E-05	0.03792	
583294.9	419837.79	159383.5	1.31476	1.41713	1.1671	1.71751	159383.4886	0.03098	1.31476	6.52582E-06	1.41713	1.16713	1.16713	1.16713	1.16713	1.16713	1.16713	0.03101
583312.1	419839.84	127287.9	1.22099	1.32797	1.09693	1.53914	127287.8529	0.02475	1.22099	6.00917E-06	1.32797	1.20086E-05	1.09693	6.73906E-06	1.53914	9.34851E-06	0.02477	
583311.7	419837.03	116562.5	1.14964	1.24602	1.03517	1.51963	116562.5261	0.02266	1.14964	5.70262E-06	1.24602	5.63848E-06	1.03517	6.39602E-06	1.51963	8.24895E-06	0.02269	
583323.3	419837.85	106835.4	1.12097	1.21641	1.00734	1.43775	106835.4184	0.02068	1.12097	5.56394E-06	1.21641	5.50449E-06	1.00734	6.27046E-06	1.43775	7.80448E-06	0.02071	
583313.3	419837.15	96254.37	1.09639	1.19055	0.98959	1.34732	96254.3675	0.01871	1.09639	5.44194E-06	1.19055	5.38477E-06	0.98959	6.05878E-06	1.34732	7.31360E-06	0.01874	
583323.3	419837.64	80465.29	1.06231	1.11096	0.91636	1.33481	80465.2926	0.01724	1.06231	5.09428E-06	1.11096	5.05446E-06	0.91636	5.65461E-06	1.33481	6.01719E-06	0.01726	
583342.8	419837.17	80579.65	0.99449	1.05267	0.90065	1.25671	80579.64539	0.01566	0.99449	4.89774E-06	1.05267	4.76589E-06	0.90065	5.54586E-06	1.25671	6.18175E-06	0.01569	
583351.7	419836.23	74603.4	0.97385	1.06002	0.87836	1.1928	74603.39551	0.01490	0.97385	4.83371E-06	1.06002	4.79980E-06	0.87836	5.42713E-06	1.1928	6.47483E-06	0.01492	
583332.2	419837.03	68086.98	0.93343	0.99725	0.83639	1.1777	68086.9588	0.01377	0.93343	4.54311E-06	0.99725	4.48216E-06	0.83639	5.18781E-06	1.1777	6.93992E-06	0.01380	
583318.8	419846.48	611307.9	6.81307	7.82324	5.71116	6.07737	611307.9254	0.02540	6.81307	1.512371E-05	7.82324	3.62762E-05	5.71116	8.7132E-05	6.07737	3.29896E-05	0.02594	
583202.2	419845.26	174647.6	1.59056	1.88662	1.4359	1.4588	174647.5594	0.03935	1.59056	2.57364E-05	1.88662	5.88602E-05	1.4359	2.76082E-05	1.4588	2.54217E-05	0.04028	
583197.7	419848.05	116923.3	5.09924	5.77312	4.1381	4.37988	116923.2883	0.02273	5.09924	2.51010E-05	5.77312	2.61245E-05	4.1381	2.40810E-05	4.37988	2.92757E-05	0.02343	
583221.1	419851.32	103496.2	2.12407	2.12407	1.2149	2.12407	103496.2061	0.02922	2.12407	1.2149	1.2149	1.2149	1.2149	1.2149	1.2149	1.2149	1.2149	0.02922
583230.1	419850.53	73022.29	2.71863	2.9883	2.6192	2.12224	73022.2811	0.01420	2.71863	1.34939E-05	2.9883	1.35679E-05	2.6192	1.39758E-05	2.12224	1.20086E-05	0.01425	
583236.2	419846.61	21800.6	2.89409	3.20289	2.6192	2.51954	21800.2801	0.02311	2.89409	1.43468E-05	3.20289	4.49377E-05	2.6192	1.50181E-05	2.51954	1.64034E-05	0.02316	
583229.8	419847.25	176088.2	1.93929	2.15815	1.6811	2.09327	176088.2127	0.02822	1.93929	1.35241E-05	2.15815	3.32538E-05	1.6811	1.44872E-05	2.09327	1.44872E-05	0.02833	
583245.7	419844.47	125151.1	1.02243	1.28919	0.90307	1.30739	125151.1052	0.02382	1.02243	1.30365E-05	1.28919	1.30864E-05	0.90307	1.36121E-05	1.30739	1.02521E-05	0.02387	
583277.7	419848.65	93921.02	1.88285	2.05345	1.58087	1.66475	93921.01522	0.01826	1.88285	1.93455E-05	2.05345	9.29226E-06	1.58087	9.76774E-06	1.66475	9.03670E-06	0.01830	
583271.5	419849.21	78355.94	1.91026	2.08136	1.59692	1.63804	78355.94316	0.01523	1.91026	9.48159E-06	2.08136	9.42444E-06	1.59692	9.86691E-06	1.63804	8.87488E-06	0.01527	
583282	419849.41	1.8963	1.99643	2.15921	1.49921	1.59424	1.8963.4441	0.01523	1.99643	1.89644E-06	2.15921	1.89644E-06	1.49921	1.89644E-06	1.59424	1.89644E-06	0.01523	
583284.7	419850.81	59822.07	1.6351	1.72136	1.36257	1.36558	59822.0659	0.01163	1.6351	5.81853E-06	1.72136	1.17136E-05	1.36257	1.36558E-06	1.36558	1.74444E-06	0.01166	
583291.5	419849.29	69386.81	1.61421	1.75051	1.33171	1.39604	69386.81212	0.01349	1.61421	6.80124E-06	1.75051	7.92185E-06	1.33171	8.15318E-06	1.39604	7.57807E-06	0.01352	
583294.2	419848.03	56785.91	1.51862	1.61333	1.26668	1.27877	56785.912	0.01304	1.51862	7.53789E-06	1.61333	7.42743E-06	1.26668	7.81635E-06	1.27877	6.94150E-06	0.01307	
583297.3	419851.29	49169.87	1.54988	1.64966	1.35674	1.48943	49169.873	0.01373	1.54988	7.18962E-06	1.64966	1.19615E-05	1.35674	8.15612E-06	1.48943	7.60909E-06	0.01376	
583303.1	419850.96	55900.4	1.42806	1.49907	1.19303	1.21273	55900.4084	0.01071	1.42806	7.08819E-06	1.54907	6.97319E-06	1.19303	7.37139E-06	1.21273	6.68302E-06	0.01074	
583324.9	419853.32	37159.91	1.84047	1.98619														

583200.1	4198294.38	185485.9	0.7873	0.9002	0.9043	2.7342	0.0061	3.66699	0.9002	4.10942	0.9047	5.53784	2.7342	1.484515	0.0063
583199.9	4198293.83	185485.9	0.7873	0.9002	0.9043	2.7342	0.0061	3.66699	0.9002	4.10942	0.9047	5.53784	2.7342	1.484515	0.0063
583232.6	4198314.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583278.1	4198313.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583244.5	4198312.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583225.9	4198311.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583205.8	4198310.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583223.6	4198309.57	43747.60	0.9515	1.0749	0.9874	2.3708	0.0081	4.72722	0.9515	3.80152	0.9874	6.09667	2.3708	1.287075	0.0093
583220.5	4198288.20	20286.78	0.6915	0.8450	0.8181	2.2017	0.0020	2.0286	0.6915	3.44046	0.8181	5.20148	2.2017	1.25022	0.005
583224.7	4198288.19	18683.97	0.6627	0.8003	0.8126	2.1625	0.0020	1.8638	0.6627	3.25746	0.8003	5.02737	2.1625	1.20304	0.005
583240.1	4198281.91	42626.33	0.9402	1.0814	0.8129	2.1041	0.0031	3.50831	0.9402	3.84051	0.8129	4.80218	2.1041	1.09178	0.0051
583254.4	4198279.91	28842.17	0.6974	0.8185	0.7964	1.8391	0.0021	2.8842	0.6974	3.44338	0.8185	4.88514	1.8391	0.98171	0.0056
583277.4	4198277.91	29407.77	0.6946	0.7115	0.7016	1.8206	0.0045	2.9907	0.6946	2.95106	0.7115	3.21818	1.8206	0.85706	0.0047
583275.6	4198276.91	29407.77	0.6946	0.7115	0.7016	1.8206	0.0045	2.9907	0.6946	2.95106	0.7115	3.21818	1.8206	0.85706	0.0047
583259.6	4198250.24	11273.31	0.4978	0.6130	0.6675	1.6988	0.0023	1.273	0.4978	2.38139	0.6130	3.27740	1.6988	0.92215	0.0028
583274	4198240.23	12513.07	0.4637	0.5827	0.6275	1.5578	0.0023	1.253	0.4637	2.20422	0.5827	3.07579	1.5578	0.84567	0.0024
583306.3	4198272.21	22136.48	0.5028	0.6581	0.6429	1.3524	0.0049	2.2136	0.5028	2.73232	0.6581	2.95822	1.3524	0.73660	0.0041
583309	4198271.51	22136.48	0.5028	0.6581	0.6429	1.3524	0.0049	2.2136	0.5028	2.73232	0.6581	2.95822	1.3524	0.73660	0.0041
583317.8	4198273.12	22580.99	0.5428	0.6402	0.6250	1.2713	0.0030	2.2580	0.5428	2.69116	0.6250	2.89712	1.2713	0.61088	0.0032
583321.5	4198262.58	22054.12	0.5112	0.6089	0.6022	1.2384	0.0030	2.045	0.5112	2.53995	0.6089	3.17033	1.2384	0.67301	0.0031
583328.7	4198271.23	22576.28	0.5331	0.6262	0.6026	1.2097	0.0026	2.2576	0.5331	2.49525	0.6262	2.89828	1.2097	0.56995	0.0028
583334.8	4198265.83	20013.4	0.5009	0.5920	0.5805	1.1652	0.0021	2.0013	0.5009	2.48323	0.5805	3.60500	1.1652	0.61263	0.0029
583342.6	4198274.34	22059.02	0.5169	0.6035	0.5862	1.2205	0.0029	2.2059	0.5169	2.56644	0.6035	3.27933	1.2205	0.61287	0.0030
583353.6	4198276.34	22112.58	0.5109	0.5933	0.5726	1.0746	0.0030	2.2112	0.5109	2.54322	0.5933	3.13799	1.0746	0.58408	0.0031
583365.6	4198279.31	21500.49	0.4997	0.5713	0.5552	1.0814	0.0021	2.1500	0.4997	2.47748	0.5713	3.02330	1.0814	0.52371	0.0022
583369.9	4198282.78	24621.3	0.5338	0.6461	0.5807	1.0496	0.0049	2.4621	0.5338	2.64955	0.6161	3.78213	1.0496	0.69750	0.0040
583328.8	4198289.82	27755.48	0.5849	0.6520	0.6102	1.0971	0.0049	2.7755	0.5849	3.28706	0.6520	3.76914	1.0971	0.59920	0.0041
583335.5	4198296.28	27975.92	0.5945	0.6445	0.5988	1.0444	0.0045	2.80228	0.5945	3.20228	0.6445	3.75984	1.0444	0.54896	0.0045
583325.2	4198307.53	32547.23	0.6407	0.6968	0.6386	1.1362	0.0035	3.1647	0.6407	3.80744	0.6968	3.95104	1.1362	0.65021	0.0036
583361.4	4198307.57	33835.78	0.6212	0.7012	0.6397	1.0742	0.0038	3.3835	0.6212	3.3835	0.6397	3.93565	1.0742	0.58104	0.0039
583315	4198288.23	27157.72	0.5970	0.6819	0.6581	1.3067	0.0028	2.7157	0.5970	2.93219	0.6819	4.06652	1.3067	0.71088	0.0026
583328.1	4198280.81	30810.63	0.5970	0.6819	0.6581	1.3067	0.0028	2.7157	0.5970	2.93219	0.6819	4.06652	1.3067	0.71088	0.0026
583315.2	4198286.26	33933.84	0.6507	0.7483	0.6584	1.2307	0.0051	3.3933	0.6507	3.27622	0.7483	4.29688	1.2307	0.6507	0.0051
583326.7	4198300.26	35283.11	0.6576	0.7427	0.6875	1.2699	0.0086	3.5283	0.6576	3.23502	0.7427	4.37006	1.2699	0.68498	0.0068
583338.8	4198310.13	43303.28	0.7021	0.8129	0.7388	1.3425	0.0076	4.0103	0.7021	3.57426	0.8129	4.54098	1.3425	0.73515	0.0084
583329.6	4198314.51	49325.24	0.7479	0.8494	0.7479	1.3167	0.0084	4.5024	0.7479	3.80426	0.8494	4.79823	1.3167	0.70986	0.0092
583321.5	4198315.81	48990.39	0.7546	0.8404	0.7569	1.3238	0.0092	4.8990	0.7546	3.74266	0.8404	4.82397	1.3238	0.71893	0.0094
583319.4	4198314.43	64473.93	0.851	0.9404	0.822	1.3676	0.0123	5.4743	0.851	4.22446	0.9404	4.95789	1.3676	0.74913	0.0125
583321.1	4198310.81	65929.29	0.851	0.9404	0.822	1.3676	0.0123	5.4743	0.851	4.22446	0.9404	4.95789	1.3676	0.74913	0.0125
583337.1	4198330.54	53035.71	0.7534	0.8662	0.7562	1.2373	0.0131	5.3035	0.7534	3.88414	0.8662	4.67679	1.2373	0.61755	0.0130
583345.2	4198339.41	55478.75	0.7919	0.8725	0.7619	1.0716	0.0179	5.9700	0.7919	3.94700	0.8725	4.76208	1.0716	0.64805	0.0183
583356.5	4198325.33	48281.63	0.7999	0.8203	0.717	1.1482	0.0099	4.8281	0.7999	3.67295	0.8203	4.14444	1.1482	0.61082	0.0094
583359.8	4198331.61	48986.01	0.7919	0.8181	0.7919	1.0659	0.0117	4.8986	0.7919	3.95944	0.8181	4.79148	1.0659	0.64905	0.0119
583380.5	4198330.31	38218.36	0.65671	0.73073	0.64476	0.9552	0.0064	3.8218	0.65671	3.29598	0.73073	3.96069	0.64476	0.59252	0.0040
583373.2	4198321.36	37077.66	0.6465	0.7238	0.6405	1.0279	0.0071	3.7077	0.6465	3.20166	0.7238	3.37104	1.0279	0.56826	0.0072
583320.2	4198318.32	3201.38	0.6025	0.6718	0.6025	0.86125	0.0026	3.2013	0.6025	2.80237	0.6718	3.05517	0.86125	0.52628	0.0028
583349.6	4198339.57	38627.84	0.6528	0.7348	0.6432	0.9567	0.0071	3.86439	0.6528	3.20715	0.7348	3.32274	0.9567	0.51925	0.0073
583399.3	4198331.33	34207.94	0.6205	0.6828	0.6074	0.9131	0.0065	3.4207	0.6205	3.06021	0.6828	3.11513	0.9131	0.47588	0.0067
58340	4198341.36	39482.1	0.6164	0.6851	0.5976	0.8665	0.0061	3.9482	0.6164	3.05958	0.6851	3.68665	0.8665	0.49126	0.0062
58341.2	4198341.36	39482.1	0.6164	0.6851	0.5976	0.8665	0.0061	3.9482	0.6164	3.05958	0.6851	3.68665	0.8665	0.49126	0.0062
583417.8	4198336.30	39509.61	0.5843	0.6453	0.7807	0.8362	0.0059	3.5059	0.5843	2.90023	0.6453	3.52744	0.8362	0.45139	0.0059
583371.7	4198295.57	27121.35	0.5529	0.6200	0.5989	0.9769	0.0029	2.7122	0.5529	2.74422	0.6200	3.29481	0.9769	0.38871	0.0030
583381.7	4198301.85	27165.57	0.5679	0.6278	0.6079	0.8789	0.0029	2.7165	0.5679	2.72776	0.6278	3.20911	0.8789	0.34078	0.0030
583400.6	4198291.51	23572.1	0.5076	0.5766	0.535	0.8871	0.0048	2.5572	0.5076	2.59776	0.5766	3.08272	0.8871	0.48101	0.0040
583410.7	4198284.26	23889.46	0.5045	0.5762	0.52927	0.8529	0.0044	2.3889	0.5045	2.52866	0.5762	2.60722	0.8529	0.46376	0.0046
583402.3	4198266.26	18049.54	0.4424	0.5125	0.4929	0.8652	0.0031	1.8049	0.4424	2.19477	0.5125	2.31916	0.8652	0.46823	0.0032
583395.5	4198261.05	16500.53	0.4424	0.5125	0.4929	0.8652	0.0031	1.8049	0.4424	2.19477	0.5125	2.31916	0.8652	0.46823	0.0032
583393.9	4198257.52	16376.81	0.4424	0.5125	0.4929	0.8652	0.0031	1.8049	0.4424	2.19477	0.5125	2.31916	0.8652	0.46823	0.0032
583374.2	4198240.31	14158.83	0.4035	0.4848	0.4874	0.9484	0.0027	1.4158	0.4035	2.00054	0.4848	2.18332	0.9484	0.31844	0.0026
583417.6	4198298.48	4464.47	0.47108	0.5583	0.58124	1.3014	0.0040	4.464	0.47108	2.07188	0.5583	2.97823	1.3014	0.32784	0.0041
583415.9	4198294.04	43955.64	0.46619	0.53214	0.49314	1.2694	0.0038	4.096	0.46619	2.06696	0.53214	3.02496	1.2694	0.31981	0.0038
583410.6	4198232.12	4575.47	0.41107	0.62309	0.78878	3.11212	0.0089	4.575	0.41107	2.00356	0.62309	2.81960	3.11212	1.79915	0.0102
583417.1	4198298.29	52626.39	0.44045	0.6309	0.7742	2.9207	0.0107	4.0405	0.44045	2.18618	0.6309	2.89201	2.9207	1.55885	0.0119
583300.7	4198234.43	6384.462	0.39679	0.46296	0.46296	1.3423	0.0022	3.638	0.39679	1.72833	0.46296	2.76025	1.3423	0.2388	0.0023
583204	4198230.39	5557.394	0.4												

Table with multiple columns of numerical data, likely representing a dataset or financial record. Columns include numerical identifiers, values, and possibly categories or dates.

952985.8	4198602.33	4884.892	4.9277	1.75138	1.04008	4.91929	4887491566	0.00290	1.93727	9.90370E-06	1.75138	7.92434E-06	1.30408	8.05754E-06	4.18529	2.72022E-06	0.00029
583006	4198601.25	2489.50	19.0208	1.75228	1.04008	4.64591	1.4934026	0.00029	1.93727	9.90370E-06	1.75138	7.92434E-06	1.30411	8.05754E-06	4.18531	2.72022E-06	0.00029
952987.6	4198599.11	5314.809	1.9476	1.75228	1.04008	4.48283	5134.80852	0.00100	2.40818	3.11688E-05	1.75138	7.92434E-06	1.30412	8.05754E-06	4.18532	2.72022E-06	0.00100
952987.9	4198580.74	5650.803	3.06178	1.75227	1.04008	2.55043	5650.80333	0.00110	3.20069	1.51972E-05	1.75138	7.92434E-06	1.30413	8.05754E-06	4.18533	2.72022E-06	0.00110
952986.5	4198581.41	5842.053	4.15065	1.76127	1.04101	6.61478	5842.05347	0.00114	4.15065	2.00618E-05	1.76127	1.04101E-05	3.88150	2.00898E-05	6.61478	3.31729E-06	0.00114
952986.0	4198581.55	5845.279	4.15065	1.76127	1.04101	6.61478	5845.27944	0.00114	4.15065	2.00618E-05	1.76127	1.04101E-05	3.88151	2.00898E-05	6.61479	3.31729E-06	0.00114
583002	4198580.51	6673.079	2.3527	1.76127	1.04101	5.95884	6673.07889	0.00100	2.35277	1.16904E-05	1.76127	1.04101E-05	3.88152	2.00898E-05	5.95884	3.31729E-06	0.00100
952980.4	4198602.33	6098.855	1.88184	1.75033	1.03201	5.06662	6098.85472	0.00119	1.88184	9.53214E-06	1.75033	7.95995E-06	1.31021	8.09541E-06	5.06662	2.74996E-06	0.00119
952980.4	4198603.35	6073.374	1.78748	1.86415	1.25675	5.54485	6073.37431	0.00130	1.78748	8.48714E-06	1.86415	1.25675E-05	5.54485	6.04713E-06	5.54485	2.94310E-06	0.00130
952980.5	4198599.48	6172.962	1.9094	1.84862	1.24446	5.64426	6172.96166	0.00130	1.9094	8.76799E-06	1.84862	1.19064E-05	5.64426	6.14486E-06	5.64426	3.40368E-06	0.00130
952980.9	4198593.1	9297.622	1.88214	1.8401	1.47044	6.75006	9297.62172	0.00181	1.88214	9.34207E-06	1.88214	1.84010E-05	6.75006	1.40414	6.75006	4.07152E-06	0.00181
952980.8	4198576.76	120.012	2.31	1.4041	1.7151	9.9712	120.009958	0.00028	2.31	1.34707E-05	2.0411	1.04668E-05	1.7151	1.04668E-05	1.7151	4.97873E-06	0.00028
952980.4	4198571.75	107.912	2.31	1.4041	1.7151	9.9712	107.91204	0.00028	2.31	1.34707E-05	2.0411	1.04668E-05	1.7151	1.04668E-05	1.7151	4.97873E-06	0.00028
952980.3	4198573.35	9229.428	2.47469	1.25729	1.89332	6.83449	9229.42765	0.00179	2.47469	1.22831E-05	2.57529	1.16537E-05	1.89332	1.16683E-05	6.83449	4.52983E-06	0.00179
952981.6	4198543.35	7434.78	4.00871	4.96589	3.23437	7.8155	7434.78028	0.00145	4.00871	1.98973E-05	4.96589	2.03618E-05	3.23437	1.98973E-05	7.8155	4.24246E-06	0.00145
952983.5	4198515.06	5899.587	7.6925	9.79129	6.76386	6.09738	5899.58056	0.00125	7.69250	3.81818E-05	9.79129	4.43073E-05	6.76386	4.17919E-05	6.76386	3.78556E-06	0.00125
952983.2	4198501.18	6447.5	13.9294	13.97002	12.9458	6.0231	6407.0047	0.00025	13.92940	6.59073E-05	18.27001	8.26755E-05	12.9458	7.07077E-05	6.0231	4.40124E-06	0.00025
952980.2	4198548.48	8587.773	4.78878	5.47004	3.89955	4.86077	8587.77295	0.00167	4.78878	2.73961E-05	5.47004	2.47548E-05	3.89955	2.40492E-05	4.86077	5.21531E-06	0.00167
952981.6	4198512.77	7993.047	8.5292	10.55371	7.25881	9.98638	7993.04706	0.00155	8.52920	4.23488E-05	10.55371	4.7576E-05	7.25881	4.48502E-05	9.98638	5.40861E-06	0.00155
952980.9	4198510.07	9715.196	8.43269	11.11477	7.6595	2.92124	9715.19559	0.00189	8.43269	4.59045E-05	11.11477	5.05883E-05	7.6595	4.72328E-05	12.9504	7.02882E-06	0.00189
952980.3	4198527.5	10961.38	6.6837	6.46008	4.7022	1.35546	10963.37503	0.00213	6.68370	3.21340E-05	6.46008	2.92311E-05	4.7022	2.82381E-05	1.35546	7.53799E-06	0.00213
952980.6	4198523.37	14971.47	6.6319	7.47907	5.2605	1.81995	14971.4685	0.00291	6.63190	3.29175E-05	7.47907	3.84421E-05	5.2605	3.25031E-05	1.81995	1.18876E-05	0.00291
952980.2	4198539.89	9635.744	4.7374	4.90725	3.15151	1.60992	9635.74399	0.00187	4.73744	2.17091E-05	4.90725	2.22063E-05	3.15151	2.17193E-05	1.60992	5.80781E-06	0.00187
952980.5	4198515.1	12622.5	8.0854	9.31256	6.65781	1.82849	12623.50017	0.00249	8.08540	4.02139E-05	9.31256	4.21267E-05	6.65781	3.98080E-05	1.82849	9.92521E-06	0.00249
952980.9	4198543.85	10668.07	3.99288	4.4664	3.17881	1.16767	10669.06688	0.00207	3.99288	1.98187E-05	4.4664	1.99535E-05	3.17881	1.96410E-05	1.16767	6.33842E-06	0.00207
952980.3	4198584.81	12455.38	3.5149	3.81506	2.79024	1.31628	12455.38396	0.00242	3.51490	1.57286E-05	3.81506	1.74424E-05	2.79024	1.72401E-05	1.31628	7.14511E-06	0.00242
952980.8	4198535.35	14897.44	4.5476	5.03175	3.61176	1.20623	14897.44066	0.00237	4.54760	2.25306E-05	5.03175	2.27787E-05	3.61176	2.37831E-05	1.20623	9.80396E-06	0.00237
952973.6	4198593.4	1124.588	0.29243	0.48624	0.15433	0.13258	1128.58244	0.00006	0.29243	5.08799E-06	0.48624	4.10897E-06	0.15433	4.21549E-06	0.13258	8.37744E-07	0.00006
95275.8	4198592.78	1484.829	6.56349	1.0322	0.82207	0.16818	1484.82922	0.00029	6.56349	3.2579E-05	1.0322	4.99228E-06	0.82207	5.00793E-06	0.16818	9.19255E-07	0.00029
95277.2	4198576.76	1411.91	9.23828	2.0886	0.95191	0.17116	1441.1891	0.00028	9.23828	4.58435E-05	1.28846	8.83053E-06	0.95191	5.88158E-06	0.17116	9.20101E-07	0.00028
95277.4	4198577.75	1495.19	1.2378	1.00003	1.0004	0.14932	1495.19123	0.00029	1.23780	4.91270E-05	1.00003	1.77436E-05	1.0004	1.79923E-05	0.14932	1.17440E-06	0.00029
95277.4	4198575.67	1556.087	8.73628	1.45312	0.36067	0.13122	1556.08727	0.00030	8.73628	4.33262E-05	2.00781	9.08737E-06	0.36067	6.97841E-06	0.13122	1.03457E-06	0.00030
952809.3	4198565.85	1864.78	4.79781	1.2842	0.17986	0.2138	1864.78027	0.00036	4.79781	2.38140E-05	1.2842	9.88402E-06	1.58617	9.80049E-06	0.2138	1.05056E-06	0.00036
582828	4198504.82	2049.249	4.15152	2.3949	1.5796	0.23011	2049.24902	0.00040	4.15152	2.00601E-05	2.39490	1.08356E-05	1.73796	1.07384E-05	0.23011	1.24910E-06	0.00040
952816.8	4198504.7	1906.489	1.5273	1.46466	2.938	0.24741	1906.48944	0.00034	1.52730	2.46623E-05	1.46466	2.46623E-05	2.93800	4.19584E-06	0.24741	1.49519E-06	0.00034
952816.1	4198513.76	1886.339	6.626	7.0138	3.4966	0.23657	1886.33931	0.00037	6.62600	3.9079E-05	6.03108	2.27661E-05	3.49660	2.16172E-05	0.23657	1.28416E-06	0.00037
952815.7	4198524.5	1871.465	7.94768	1.078	0.4663	0.24825	1871.46545	0.00036	7.94768	3.94844E-05	7.27300	3.24825E-05	0.46630	3.06770E-05	0.24825	1.83125E-06	0.00036
952816.1	4198507.75	1995.18	1.2378	1.00003	1.0004	0.14932	1995.18123	0.00029	1.23780	4.91270E-05	1.00003	1.77436E-05	1.0004	1.79923E-05	0.14932	1.17440E-06	0.00029
952835.2	4198540.63	2090.73	5.09686	4.0983	2.89044	0.24844	2090.73295	0.00041	5.09686	2.52983E-05	4.09830	1.85049E-05	2.89044	1.78594E-05	0.24844	1.34860E-06	0.00041
582858	4198527.33	2368.186	5.79707	6.36349	4.4113	0.2864	2368.18572	0.00046	5.79707	2.87738E-05	6.36349	2.87960E-05	4.4113	2.74545E-05	0.28640	1.55465E-06	0.00046
952860.9	4198513.86	2508.376	7.9121	10.5885	7.2151	0.3198	2508.37641	0.00049	7.91211	3.92474E-05	10.5885	4.79030E-05	7.2151	4.58031E-05	0.3198	1.70437E-06	0.00049
952860.9	4198511.98	2097.766	11.5577	13.3168	7.6073	0.2468	2097.76629	0.00049	11.55770	4.62478E-05	13.3168	4.78184E-05	7.6073	4.11984E-05	0.2468	1.49488E-06	0.00049
952870.6	4198500.74	2511.492	12.46408	12.46408	19.82177	13.11891	2511.49272	0.00049	12.46408	6.18565E-05	19.82177	8.96973E-05	13.11891	8.14500E-05	0.2468	1.78774E-06	0.00049
952850.9	4198517.37	2131.18	4.7143	3.3344	3.9496	0.26243	2131.18596	0.00045	4.71433	2.07383E-05	3.3344	1.50885E-05	2.8946	1.47978E-05	0.26243	1.42454E-06	0.00045
582811	4198535.83	1897.124	6.4028	1.46548	1.2573	0.20702	1897.12406	0.00037	6.40280	3.68281E-05	1.46548	1.25730E-05	1.25730	1.46548E-05	0.20702	1.37092E-06	0.00037
952878.1	4198531.47	2702.81	5.01733	3.4704	2.7306	0.17172	2720.80982	0.00053	5.01733	2.97403E-05	3.4704	2.47547E-05	2.7306	2.39455E-05	0.17172	1.72467E-06	0.00053
952881.1	4198511.98	2928.416	8.1881	11.15975	6.7186	0.3639	2928.41588	0.00059	8.18811	4.05425E-05	11.15975	5.05000E-05	6.71860	4.70399E-05	0.36390	1.97343E-06	0.00059
952900.6	4198533.13	3142.107	4.9397	5.6173	3.880	0.35923	3142.10707	0.00061	4.93970	2.43409E-05	5.61733	2.54322E-05	3.88000	2.45199E-05	0.35923	1.95999E-06	0.00061
952905.1	4198522.21	3216.607	6.0228	7.54492	5.7508	0.40663	3216.60706	0.00069	6.02280	3.15402E-05	7.54492	3.27502E-05	5.75080	3.29315E-05	0.40663	2.29251E-06	0.00069
952907.8	4198513.36	3272.602	7.84945	10.3754	7.25207	0.39939	3276.61076	0.00064	7.84945	3.89680E-05	10.37540	4.78467E-05	7.25207	4.48085E-05	0.39939	2.16799E-06	0.00064
952905.7	4198535.83	3216.417	11.00964	16.35956	10.92283	0.40663	3216.41652	0.00062	11.00964	5.46435E-05	16.35956	7.40302E-05	10.92283	6.78909E-05	0.40663	2.207	

583202.7	4198713.8	4702.692	0.61599	0.04088	0.4009	0.2813	0.07025957	0.00091	6.051499	3.05747E-06	0.51088	2.31183E-06	0.40090	2.47705E-06	0.28130	1.52697E-06	0.00092
583180.3	4198711.5	5225.585	0.9920	0.45117	0.0435	0.0662	5325.5055	0.00021	6.051771	3.12701E-06	0.44117	2.33889E-06	0.40090	2.49898E-06	0.28130	1.44907E-06	0.00090
583154.4	4198663.7	5384.262	0.70140	0.59863	0.4666	0.3297	5384.2625	0.00104	6.07046	3.48170E-06	0.59863	2.70846E-06	0.46664	2.88212E-06	0.32972	1.57317E-06	0.00105
583190.3	4198680.92	5910.122	0.75461	0.6594	0.5191	0.3575	5910.1228	0.00115	6.07551	3.74551E-06	0.65940	2.98391E-06	0.51912	3.16240E-06	0.35755	1.92025E-06	0.00116
583162.2	4198623.5	6740.213	0.85588	0.77003	0.6841	0.4701	6740.21293	0.00131	6.08588	4.24817E-06	0.77003	3.48808E-06	0.68401	3.67289E-06	0.47011	2.20393E-06	0.00132
583147.4	4198605.39	6726.801	0.84000	0.75001	0.6511	0.4519	6726.80049	0.00125	6.08348	4.15348E-06	0.75001	3.41958E-06	0.65109	3.60454E-06	0.45191	2.04243E-06	0.00124
583156.7	4198624.26	7458.316	0.89592	0.80068	0.71880	0.43169	7458.31584	0.00145	6.08952	4.51875E-06	0.80068	3.82686E-06	0.71887	3.81888E-06	0.43169	2.34333E-06	0.00146
583184.8	4198648.18	7740.235	0.93964	0.8662	0.67679	0.4571	7740.23477	0.00150	6.09394	4.64555E-06	0.86622	3.93076E-06	0.67679	4.12238E-06	0.45711	2.49543E-06	0.00152
583171.7	4198654.53	8448.579	1.00485	0.9243	0.7607	0.5204	8448.57897	0.00165	6.10835	5.25709E-06	0.10043	4.54524E-06	0.66710	4.73907E-06	0.52040	2.84847E-06	0.00166
583212.3	4198661.51	7711.793	0.84597	0.7574	0.65927	0.44998	7711.79282	0.00129	6.08633	4.06978E-06	0.75749	3.48509E-06	0.65927	3.64699E-06	0.44998	2.05274E-06	0.00130
583225.6	4198663.39	7778.264	0.80219	0.7481	0.5794	0.41798	7778.26447	0.00121	6.08319	3.98168E-06	0.74810	3.38851E-06	0.57941	3.58001E-06	0.41798	2.28890E-06	0.00123
583270	4198622.97	10959.48	0.83367	0.8204	0.6436	0.4879	10959.4831	0.00139	6.08237	4.19379E-06	0.82040	3.71247E-06	0.64364	3.92120E-06	0.48799	2.65871E-06	0.00137
583274.6	4198624.20	11741.480	0.88017	0.84417	0.6731	0.4918	11741.4799	0.00149	6.09139	4.56113E-06	0.84417	3.78043E-06	0.67313	4.18994E-06	0.54803	2.75268E-06	0.00148
583248	4198669.91	6805.758	0.68322	0.62528	0.48778	0.35726	6805.75829	0.00132	6.08322	3.81917E-06	0.62528	3.83087E-06	0.48778	3.30185E-06	0.35726	1.93930E-06	0.00133
583246.8	4198660.63	6220.181	0.47458	0.56258	0.33236	0.2500	6220.1805	0.00121	6.08556	3.21427E-06	0.56258	2.66383E-06	0.47456	2.85572E-06	0.33236	1.80144E-06	0.00122
583234.9	4198697.47	5335.576	0.60755	0.57078	0.4336	0.29803	5335.57644	0.00104	6.06755	3.01588E-06	0.57078	2.38514E-06	0.43356	2.55527E-06	0.29803	1.61778E-06	0.00105
583228.7	4198711.6	4881.389	0.44649	0.48512	0.32943	0.24751	4881.37997	0.00095	6.05648	2.81631E-06	0.48512	2.18621E-06	0.32948	2.50688E-06	0.24755	1.49329E-06	0.00096
583246.8	4198728.16	4353.909	0.54441	0.61599	0.37747	0.2714	4353.90892	0.00085	6.05441	2.55238E-06	0.42915	1.94199E-06	0.33977	2.02247E-06	0.27144	1.34154E-06	0.00084
583240.4	4198748.1	3912.509	0.48731	0.3952	0.3195	0.2277	3912.50865	0.00076	6.04873	2.41877E-06	0.39520	1.78836E-06	0.31953	1.93981E-06	0.22770	1.23602E-06	0.00077
583278.4	4198748.1	3229.485	0.39221	0.3113	0.2535	0.18737	3229.48595	0.00063	6.03923	1.98478E-06	0.31300	1.41639E-06	0.25355	1.55426E-06	0.18739	1.01720E-06	0.00063
583278.4	4198758.58	3566.9	0.47848	0.34005	0.27302	0.20309	3566.89975	0.00069	6.04847	2.07487E-06	0.34105	1.68691E-06	0.27302	1.54332E-06	0.20309	1.10243E-06	0.00070
583275.5	4198746.7	3901.197	0.44637	0.37004	0.29512	0.21895	3901.19674	0.00076	6.04679	2.21556E-06	0.37004	1.67450E-06	0.29512	1.82346E-06	0.21895	1.18852E-06	0.00077
583274.9	4198779.61	4136.181	0.47679	0.40362	0.32067	0.23773	4136.18074	0.00084	6.04763	2.26555E-06	0.40362	1.82646E-06	0.32067	1.98313E-06	0.23773	1.29046E-06	0.00085
583270.3	4198797.1	5085.790	0.52475	0.46202	0.3687	0.27278	5085.78651	0.00099	6.05249	2.65424E-06	0.46202	2.11336E-06	0.36870	2.27809E-06	0.27278	1.44992E-06	0.00100
583281.6	4198702.4	5208.589	0.52759	0.46552	0.36760	0.27435	5208.58856	0.00101	6.05279	2.61780E-06	0.46552	2.10657E-06	0.36769	2.27185E-06	0.27435	1.48924E-06	0.00102
583296.3	4198680.8	5388.797	0.51969	0.46475	0.36728	0.27219	5388.79674	0.00105	6.05169	2.57949E-06	0.46475	2.10308E-06	0.36728	2.26932E-06	0.27219	1.50466E-06	0.00106
583297.8	4198912.1	5225.585	0.9920	0.45117	0.0435	0.0662	5225.5055	0.00021	6.051771	3.12701E-06	0.44117	2.33889E-06	0.40090	2.49898E-06	0.28130	1.44907E-06	0.00090
583325.1	4198755.5	5007.371	0.46504	0.41899	0.3313	0.25447	5007.37074	0.00097	6.04594	2.13770E-06	0.41699	1.88066E-06	0.33130	2.04701E-06	0.25447	1.38133E-06	0.00098
583329.1	4198771.8	4578.754	0.48848	0.38085	0.30443	0.23885	4578.75403	0.00089	6.04848	2.17400E-06	0.38085	1.75102E-06	0.30443	1.90570E-06	0.23885	1.28568E-06	0.00090
583323.3	4198728.54	4345.294	0.40318	0.37461	0.2994	0.22864	4345.29358	0.00084	6.04818	2.13250E-06	0.37466	1.69631E-06	0.29944	1.84830E-06	0.22864	1.34112E-06	0.00085
583321	4198740.9	4833.579	0.48003	0.40292	0.31728	0.24151	4833.57932	0.00097	6.05293	2.25023E-06	0.40292	1.78272E-06	0.31728	1.79155E-06	0.24151	1.31213E-06	0.00097
583320.1	4198726.65	4354.129	0.38382	0.32040	0.25748	0.19614	4354.12888	0.00069	6.03582	1.90031E-06	0.32041	1.44992E-06	0.25748	1.59089E-06	0.19614	1.06740E-06	0.00070
583317.2	4198769.89	3285.235	0.36635	0.30319	0.24287	0.18479	3285.23468	0.00064	6.03635	1.81838E-06	0.30319	1.36385E-06	0.24287	1.50002E-06	0.18479	1.00399E-06	0.00064
583337.8	4198767.17	3059.712	0.34944	0.28349	0.22921	0.17457	3059.71194	0.00054	6.03404	1.73426E-06	0.28349	1.28283E-06	0.22921	1.41540E-06	0.17457	9.74162E-07	0.00054
583341.4	4198773.46	3445.989	0.41515	0.48512	0.32943	0.24702	3445.98927	0.00072	6.04515	2.35928E-06	0.48512	3.09654E-06	0.32943	2.41631E-06	0.24702	1.49717E-06	0.00072
583349.4	4198780.9	3026.393	0.32773	0.27105	0.21964	0.16998	3026.3928	0.00059	6.03773	1.62669E-06	0.27105	1.22655E-06	0.21964	1.35709E-06	0.16998	9.22669E-07	0.00059
583360.4	4198782.6	2986.131	0.31878	0.26843	0.21487	0.16718	2986.13077	0.00058	6.03187	1.52827E-06	0.26843	1.19827E-06	0.21487	1.32726E-06	0.16718	9.07749E-07	0.00058
583357.8	4198780.58	3425.379	0.48848	0.29678	0.23979	0.18619	3425.3788	0.00067	6.04848	1.73408E-06	0.29678	1.34298E-06	0.23979	1.79744E-06	0.18619	1.05268E-06	0.00067
583350	4198742.4	3811.749	0.37716	0.32563	0.26163	0.20266	3811.7491	0.00074	6.03716	1.87204E-06	0.32563	1.47354E-06	0.26163	1.61654E-06	0.20266	1.10009E-06	0.00075
583358.7	4198731.63	4075.086	0.38593	0.33828	0.27181	0.21182	4075.08555	0.00079	6.03589	1.91577E-06	0.33828	1.53323E-06	0.27181	1.76944E-06	0.21182	1.14981E-06	0.00080
583358.4	4198720.04	4404.163	0.404	0.35944	0.29763	0.22461	4404.1626	0.00086	6.04040	2.00526E-06	0.35944	1.62654E-06	0.29763	1.77718E-06	0.22461	1.21924E-06	0.00087
583379.5	4198700.57	5084.849	0.52475	0.46202	0.3687	0.27278	5084.8484	0.00099	6.05249	2.65424E-06	0.46202	2.11336E-06	0.36870	2.27809E-06	0.27278	1.44992E-06	0.00100
583568.2	4198802.84	3812.0	0.3822	0.19502	0.22143	0.1638	3812.00012	0.00066	6.03582	1.81838E-06	0.19502	1.82503E-07	0.22143	1.38815E-06	0.1638	1.08445E-06	0.00066
583584.4	4198809.9	3530.363	0.31593	0.19021	0.21813	0.16711	3530.3632	0.00069	6.01593	1.79337E-07	0.19021	1.82488E-07	0.21813	1.34776E-06	0.16711	1.02459E-06	0.00069
583571.2	41988125.0	3208.467	0.29867	0.20622	0.2208	0.16267	3208.46705	0.00065	6.01217	1.64871E-07	0.20622	1.33185E-06	0.22082	1.22982E-06	0.16267	1.02075E-06	0.00065
583575.5	4198810.81	3769.616	0.36505	0.19932	0.21918	0.16368	3769.61595	0.00065	6.01655	1.85227E-07	0.19932	1.90192E-07	0.21918	1.35425E-06	0.16368	1.05144E-06	0.00064
583595	4198812.65	4016.204	0.37134	0.20088	0.22211	0.16731	4016.20412	0.00078	6.01734	1.85047E-07	0.20088	1.93167E-07	0.22111	1.38471E-06	0.16731	1.02528E-06	0.00078
583582.9	4198807.8	3965.605	0.17121	0.20781	0.22719	0.18389	3965.60484	0.00072	6.01721	1.84800E-07	0.20781	1.93670E-07	0.22719	1.40498E-06	0.18389	1.08886E-06	0.00078
583576.6	4198812.0	3986.389	0.18871	0.20822	0.2285	0.18468	3986.38905	0.00072	6.01807	1.86505E-07	0.20822	1.92189E-07	0.22851	1.47465E-06	0.18468	1.04045E-06	0.00072
583577.6	4198811.58	4266.638	0.18147	0.22051	0.24281	0.18167	4266.6384	0.00083	6.01817	1.90078E-07	0.22051	1.97850E-07	0.24281	1.50025E-06	0.18167	1.02755E-06	0.00084
583562.2	4198810.96	3978.315	0.17387	0.21862	0.23541	0.40637	3978.3151	0.00077	6.01787	1.86201E-07	0.21862	1.95708E-07	0.23541	1			

582884	41980174.0	935.4661	0.00289	0.17041	1.30918	2.13204	935.4661	0.0018	0.00289	4.11425E-07	0.17041	7.71188E-07	1.30918	8.08805E-06	2.13204	1.15733E-05	0.00200	0.00289
5829034	41980184.0	871.7576	0.00299	0.17041	1.30918	2.13204	871.7576	0.0018	0.00299	4.11425E-07	0.17041	7.71188E-07	1.30918	8.08805E-06	2.13204	1.15733E-05	0.00200	0.00299
582866	4197975.95	860.3236	0.00781	0.11515	0.94071	1.54079	860.3236	0.0017	0.00781	8.81247E-07	0.11515	5.49607E-07	0.94071	5.83388E-06	1.54079	8.14971E-06	0.0018	0.00781
5829038	4197995.56	850.0599	0.00701	0.11515	0.8749	1.47577	850.0599	0.0017	0.00701	8.82420E-07	0.11515	5.49607E-07	0.8749	5.40576E-06	1.47577	8.01087E-06	0.0018	0.00701
5829218	4197996.84	847.8493	0.00722	0.11514	0.84475	1.52752	847.8493	0.0016	0.00722	8.82466E-07	0.11514	5.49607E-07	0.84475	5.23497E-06	1.52752	8.29178E-06	0.0018	0.00722
5829252	4197982.63	846.4141	0.7112	0.11514	0.84475	1.52752	846.4141	0.0016	0.7112	8.82466E-07	0.11514	5.49607E-07	0.84475	5.23497E-06	1.52752	8.29178E-06	0.0018	0.7112
5829024	4197980.21	792.4673	0.00723	0.11518	0.87075	1.15587	792.4673	0.0015	0.00723	8.52908E-07	0.11518	5.49607E-07	0.87075	4.24386E-06	1.15587	6.28315E-06	0.0017	0.00723
5829158	4197960.41	715.9972	0.00722	0.11425	0.56361	0.88363	715.9972	0.0014	0.00722	8.33647E-07	0.11425	5.62255E-07	0.56361	3.31259E-06	0.88363	4.79675E-06	0.0016	0.00722
5829304	4197970.66	745.3958	0.00728	0.11425	0.60901	1.0165	745.3958	0.0014	0.00728	8.50244E-07	0.11425	5.62255E-07	0.60901	1.80650E-06	1.0165	5.63938E-06	0.0016	0.00728
5829313	4197971.31	744.4123	0.00728	0.11425	0.60901	1.0165	744.4123	0.0014	0.00728	8.50244E-07	0.11425	5.62255E-07	0.60901	1.80650E-06	1.0165	5.63938E-06	0.0016	0.00728
5829311	4197973.27	684.0405	0.00657	0.12043	0.48813	0.8119	684.0405	0.0013	0.00657	8.29584E-07	0.12043	5.44966E-07	0.48813	3.01611E-06	0.8119	4.04721E-06	0.0015	0.00657
5829461	4197967.59	723.1099	0.00693	0.12043	0.56677	0.98835	723.1099	0.0013	0.00693	8.47398E-07	0.12043	5.44966E-07	0.56677	3.50160E-06	0.98835	5.43930E-06	0.0015	0.00693
5829512	4197975.53	675.9901	0.00691	0.12231	0.49091	0.96997	675.9901	0.0013	0.00691	8.31238E-07	0.12231	5.44966E-07	0.49091	3.09283E-06	0.96997	4.64529E-06	0.0015	0.00691
5829561	4197969.98	719.0071	0.00706	0.11569	0.56823	1.04061	719.0071	0.0014	0.00706	8.52707E-07	0.11569	5.49607E-07	0.56823	3.51059E-06	1.04061	5.64870E-06	0.0015	0.00706
5829689	4197961.12	681.0226	0.00896	0.11569	0.51143	0.92811	681.0226	0.0013	0.00896	8.42283E-07	0.11569	5.49607E-07	0.51143	3.57886E-06	0.92811	5.83002E-06	0.0014	0.00896
582975	4197950.9	639.7585	0.00636	0.12191	0.54749	0.80974	639.7585	0.0012	0.00636	8.29787E-07	0.12191	5.56192E-07	0.54749	2.81002E-06	0.80974	4.39548E-06	0.0013	0.00636
5829741	4197951.95	630.0093	0.00619	0.12191	0.54749	0.80974	630.0093	0.0012	0.00619	8.29787E-07	0.12191	5.56192E-07	0.54749	2.81002E-06	0.80974	4.39548E-06	0.0013	0.00619
5828618	4197948.6	809.8373	0.00758	0.11851	0.78409	1.14149	809.8376	0.0016	0.00758	8.52886E-07	0.11851	5.48467E-07	0.78409	2.84007E-06	1.14149	6.19813E-06	0.0017	0.00758
5828693	4197973.74	774.3523	0.00601	0.12819	0.6603	0.98156	774.3525	0.0015	0.00601	8.42532E-07	0.12819	5.80085E-07	0.6603	4.07980E-06	0.98156	5.32816E-06	0.0016	0.00601
5828821	4197984.1	811.7111	0.00785	0.11857	0.7040	1.15205	811.7105	0.0016	0.00785	8.52998E-07	0.11857	5.49607E-07	0.7040	2.77255E-06	1.15205	6.47916E-06	0.0017	0.00785
582885	4197976.66	762.9292	0.00682	0.12819	0.6603	0.98712	762.9284	0.0015	0.00682	8.41539E-07	0.12819	5.80085E-07	0.6603	3.87294E-06	0.98712	5.24978E-06	0.0016	0.00682
5828908	4197955.66	712.7378	0.00677	0.11254	0.50985	0.78465	712.7378	0.0014	0.00677	8.21486E-07	0.11254	5.38005E-07	0.50985	3.14466E-06	0.78465	4.29296E-06	0.0015	0.00677
5829017	4197961.57	740.2208	0.00787	0.11254	0.57609	0.91877	740.2208	0.0014	0.00787	8.36878E-07	0.11254	5.38005E-07	0.57609	3.55949E-06	0.91877	4.98732E-06	0.0015	0.00787
5829079	4197915.17	680.0939	0.00643	0.11256	0.48723	0.92374	680.0939	0.0013	0.00643	8.19548E-07	0.11256	5.26506E-07	0.48723	2.98259E-06	0.92374	4.14978E-06	0.0014	0.00643
582758	4198042.28	882.669	0.08191	0.11755	2.92553	3.11818	882.6692	0.0017	0.08191	4.06561E-07	0.11755	7.76297E-07	2.92553	1.80760E-05	3.11818	1.16263E-05	0.0020	0.08191
582768	4198016.61	846.112	0.07098	0.15412	1.92462	2.1514	846.1196	0.0016	0.07098	8.28091E-07	0.15412	6.97423E-07	1.92462	1.10197E-05	2.1514	1.04282E-05	0.0019	0.07098
5827752	4198017.9	851.2005	0.07098	0.15412	1.92462	2.1514	851.2005	0.0016	0.07098	8.28091E-07	0.15412	6.97423E-07	1.92462	1.10197E-05	2.1514	1.04282E-05	0.0019	0.07098
582782	4198007.07	794.9877	0.07107	0.11516	1.04473	1.15263	794.9874	0.0015	0.07107	8.52756E-07	0.11516	5.11626E-07	1.04473	6.45509E-06	1.15263	6.24567E-06	0.0017	0.07107
5827513	4197978.5	731.9301	0.06409	0.11848	0.60316	0.69511	731.9301	0.0014	0.06409	8.11811E-07	0.11848	5.19854E-07	0.60316	3.73725E-06	0.69511	3.73725E-06	0.0015	0.06409
582793	4198005.45	834.9234	0.07332	0.141	1.4496	1.34775	833.9235	0.0016	0.07332	8.63924E-07	0.141	6.38052E-07	1.4496	7.40748E-06	1.34775	7.31594E-06	0.0015	0.07332
582782	4197977.77	782.2147	0.06697	0.12819	0.6603	0.98712	782.2147	0.0015	0.06697	8.28091E-07	0.12819	5.80085E-07	0.6603	4.07980E-06	0.98712	5.32816E-06	0.0016	0.06697
5827708	4197974.78	744.2134	0.06846	0.11663	0.62841	0.76554	743.9235	0.0016	0.06846	8.21933E-07	0.11663	5.17934E-07	0.62841	3.68215E-06	0.76554	4.07548E-06	0.0015	0.06846
5827865	4197996.76	738.3721	0.06414	0.1145	0.58396	0.72302	738.3724	0.0014	0.06414	8.18395E-07	0.1145	5.18135E-07	0.58396	3.06123E-06	0.72302	3.92474E-06	0.0015	0.06414
5827572	4198004.7	702.0348	0.06086	0.10749	0.49979	0.58178	702.0348	0.0014	0.06086	8.10718E-07	0.10749	4.87207E-07	0.49979	2.50233E-06	0.58178	3.15805E-06	0.0014	0.06086
582752	4198004.7	702.0348	0.06086	0.10749	0.49979	0.58178	702.0348	0.0014	0.06086	8.10718E-07	0.10749	4.87207E-07	0.49979	2.50233E-06	0.58178	3.15805E-06	0.0014	0.06086
582942	4198121.39	1604.813	0.14883	0.39978	2.3749	0.64551	1604.8139	0.0031	0.14883	7.88719E-07	0.39978	1.80080E-06	2.3749	1.46589E-05	0.64551	3.28166E-06	0.0036	0.14883
5834294	4198055.05	2451.7181	0.04883	0.2034	0.26637	0.55195	2451.7197	0.0048	0.04883	8.10842E-07	0.2034	1.49824E-06	0.26637	1.44882E-06	0.55195	2.99613E-06	0.0048	0.04883
5834312	4198020.23	1496.4631	0.04883	0.2034	0.26637	0.55195	1496.4631	0.0048	0.04883	8.10842E-07	0.2034	1.49824E-06	0.26637	1.44882E-06	0.55195	2.99613E-06	0.0048	0.04883
5834387	4198046.26	2276.734	0.14087	0.19273	0.2538	0.5176	2276.7381	0.0044	0.14087	8.69209E-07	0.19273	0.87214E-07	0.2538	1.56816E-06	0.5176	2.80972E-06	0.0045	0.14087
5834547	4198025.15	2020.331	0.12852	0.17931	0.23342	0.46288	2020.3308	0.0039	0.12852	8.67910E-07	0.17931	7.96027E-07	0.23342	1.44224E-06	0.46288	2.51263E-06	0.0040	0.12852
5834328	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583439	4198026.17	2020.331	0.12852	0.17931	0.23342	0.46288	2020.3308	0.0039	0.12852	8.67910E-07	0.17931	7.96027E-07	0.23342	1.44224E-06	0.46288	2.51263E-06	0.0040	0.12852
583465	4198037.1	2207.5527	0.10558	0.24809	0.24059	0.47832	2207.5527	0.0035	0.10558	8.72926E-07	0.24809	8.33043E-07	0.24059	2.07591E-06	0.47832	2.59487E-06	0.0045	0.10558
5834671	4198134.82	4903.244	0.13132	0.26039	0.30098	0.57528	4903.24408	0.0075	0.13132	1.04889E-06	0.26039	1.19958E-06	0.30098	1.89967E-06	0.57528	3.12277E-06	0.0076	0.13132
583465	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583465	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583465	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583465	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583465	4198012.4	1777.0119	0.12122	0.17126	0.23575	0.47803	1777.0196	0.0043	0.12122	8.60444E-07	0.17126	7.24985E-07	0.23575	1.45661E-06	0.47803	2.59487E-06	0.0045	0.12122
583465	4198012.4	1777.0119	0.12															

583444.2	4198599.3	9664.95	0.49151	0.49489	0.39654	0.35983	9664.94951	0.00188	0.49151	2.43961E-06	0.49489	2.23947E-06	0.39654	2.45011E-06	0.35983	1.99335E-06	0.00189
583451	4198591.68	10074.78	0.49085	0.49648	0.39853	0.36641	10074.78003	0.00196	0.49085	2.43634E-06	0.49648	2.24607E-06	0.39853	2.45020E-06	0.36641	1.98897E-06	0.00197
583472.8	4198576.19	10562.05	0.47294	0.48213	0.38944	0.36871	10562.95103	0.00205	0.47294	2.34744E-06	0.48213	2.18173E-06	0.38944	2.40624E-06	0.36871	2.00145E-06	0.00206
583502.4	4198541.54	11778.44	0.45587	0.47179	0.38559	0.38561	11778.44274	0.00229	0.45587	2.26271E-06	0.47179	2.13494E-06	0.38559	2.38245E-06	0.38561	2.09319E-06	0.00230
583511.6	4198518.82	11949.8	0.44729	0.46454	0.38122	0.38706	11949.80161	0.00232	0.44729	2.22013E-06	0.46454	2.10213E-06	0.38122	2.35545E-06	0.38706	2.10106E-06	0.00233
583423.7	4198414.1	12547.68	0.40254	0.46176	0.32261	0.77887	12547.6841	0.00691	0.40254	3.48706E-06	0.46176	2.44711E-06	0.32261	3.90890E-06	0.77887	4.22791E-06	0.00693
583432.3	4198422.34	12513.82	0.67848	0.73404	0.60864	0.73584	12513.82202	0.00632	0.67848	3.36764E-06	0.73404	3.32167E-06	0.60864	3.76061E-06	0.73584	3.99433E-06	0.00634
583422.1	4198423.92	13506.73	0.71615	0.7748	0.63995	0.77285	13506.73005	0.00690	0.71615	3.55462E-06	0.7748	3.50612E-06	0.63995	3.95407E-06	0.77285	4.19523E-06	0.00692
583567.3	4198408.46	12582.02	0.38238	0.41095	0.35207	0.4128	12582.02229	0.00245	0.38238	1.90331E-06	0.41095	1.85963E-06	0.35207	2.17534E-06	0.4128	2.24079E-06	0.00245
583578.3	4198409.36	11844.01	0.36827	0.38071	0.33900	0.3875	11844.91036	0.00230	0.36827	1.82791E-06	0.38071	1.76144E-06	0.33900	2.09514E-06	0.3875	2.15773E-06	0.00231
583572.5	4198417.09	12405.85	0.37377	0.40232	0.34694	0.41423	12405.85115	0.00241	0.37377	1.85521E-06	0.40232	1.82058E-06	0.34694	2.14346E-06	0.41423	2.24855E-06	0.00242
583629.2	4198416.06	9256.179	0.30805	0.33662	0.28873	0.34296	9256.17906	0.00180	0.30805	1.52901E-06	0.33662	1.49612E-06	0.28873	1.78398E-06	0.34296	1.86168E-06	0.00181
583611.1	4198417.07	9083.953	0.30761	0.32898	0.28623	0.3354	9083.95336	0.00177	0.30761	1.52682E-06	0.32898	1.48870E-06	0.28623	1.76533E-06	0.3354	1.82064E-06	0.00177
583573.3	4198409.48	12496.96	0.37235	0.40173	0.34752	0.41936	12496.96277	0.00243	0.37235	1.84816E-06	0.40173	1.81719E-06	0.34752	2.14733E-06	0.41936	2.27404E-06	0.00244
583573.1	4198438.36	12040.61	0.37615	0.40221	0.34403	0.39884	12040.60998	0.00234	0.37615	1.86702E-06	0.40221	1.82008E-06	0.34403	2.12566E-06	0.39884	2.16501E-06	0.00235
583544.7	4198398.78	14738.54	0.40812	0.44236	0.382	0.47071	14738.5375	0.00287	0.40812	2.02571E-06	0.44236	2.00176E-06	0.382	2.36150E-06	0.47071	2.55514E-06	0.00287
583610.3	4198415.19	10143.9	0.32814	0.352	0.3062	0.36293	10143.89742	0.00157	0.32814	1.62878E-06	0.352	1.59377E-06	0.3062	1.89081E-06	0.36293	1.96954E-06	0.00158
583629	4198402.13	9341.205	0.30588	0.32971	0.2895	0.34978	9341.20503	0.00182	0.30588	1.51824E-06	0.32971	1.49200E-06	0.2895	1.78874E-06	0.34978	1.88870E-06	0.00182
583136.4	4198819.19	2340.289	0.44746	0.29281	0.23458	0.16122	2340.2892	0.00045	0.44746	2.22097E-06	0.29281	1.32502E-06	0.23458	1.44940E-06	0.16122	8.75144E-07	0.00046
583141.1	4198807.26	2498.185	0.46004	0.31109	0.24862	0.17658	2498.18504	0.00049	0.46004	2.31219E-06	0.31109	1.40774E-06	0.24862	1.53615E-06	0.17658	8.25935E-07	0.00049
583149.3	4198820.33	2351.323	0.43196	0.2875	0.23061	0.16043	2351.32289	0.00046	0.43196	2.14404E-06	0.2875	1.30099E-06	0.23061	1.42487E-06	0.16043	8.78865E-07	0.00046
583160.8	4198823.3	2347.671	0.41693	0.28116	0.22584	0.15874	2347.67146	0.00046	0.41693	2.06944E-06	0.28116	1.27230E-06	0.22584	1.39540E-06	0.15874	8.61682E-07	0.00046
583164.5	4198815.06	2456.144	0.42808	0.2925	0.2346	0.16478	2456.14422	0.00048	0.42808	2.12478E-06	0.2925	1.32362E-06	0.2346	1.44953E-06	0.16478	8.94469E-07	0.00048
583168.2	4198820.56	2396.348	0.41506	0.28331	0.22757	0.16066	2396.34789	0.00047	0.41506	2.06055E-06	0.28331	1.28203E-06	0.22757	1.40069E-06	0.16066	8.71104E-07	0.00047
583155.9	4198812.33	2470.913	0.44136	0.29906	0.23955	0.16691	2470.91318	0.00048	0.44136	2.19069E-06	0.29906	1.35330E-06	0.23955	1.48011E-06	0.16691	9.06031E-07	0.00049
583145.9	4198802.02	2579.924	0.47149	0.31886	0.25462	0.17503	2579.92387	0.00050	0.47149	2.34024E-06	0.31886	1.44290E-06	0.25462	1.57322E-06	0.17503	9.50109E-07	0.00051
583164.4	4198803.82	3652.16	0.45272	0.31512	0.25198	0.17622	3652.15954	0.00052	0.45272	2.24708E-06	0.31512	1.42598E-06	0.25198	1.55691E-06	0.17622	9.56568E-07	0.00052
583567.1	4198452.26	12119.89	0.38452	0.40991	0.34841	0.36839	12119.88787	0.00236	0.38452	1.93555E-06	0.40991	1.85492E-06	0.34841	2.15737E-06	0.36839	2.15171E-06	0.00236
583548.7	4198455.15	13342.01	0.41215	0.43897	0.37104	0.42055	13342.00887	0.00259	0.41215	2.04571E-06	0.43897	1.98642E-06	0.37104	2.29255E-06	0.42055	2.28286E-06	0.00260
583563.7	4198474.32	11679.61	0.38808	0.41037	0.34609	0.38213	11679.61069	0.00227	0.38808	1.92624E-06	0.41037	1.85700E-06	0.34609	2.13899E-06	0.38213	2.07430E-06	0.00228
583581.9	4198515.56	9304.816	0.3405	0.36851	0.30896	0.32415	9304.8161	0.00181	0.3405	1.75733E-06	0.36851	1.66758E-06	0.30896	1.90899E-06	0.32415	1.75957E-06	0.00182
582675.5	4198584.18	1051.703	0.50397	0.61897	0.47424	0.13154	1051.70304	0.00020	0.50397	2.48372E-05	0.61897	2.80096E-06	0.47424	2.13899E-06	0.13154	7.14033E-07	0.00024
582678.2	4198584.19	1043.963	0.40761	0.75958	0.57458	0.14049	1043.96299	0.00020	0.40761	1.51268E-05	0.75958	3.43725E-06	0.57458	3.50516E-06	0.14049	7.62616E-07	0.00023

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Del Hombre Project

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate (grams/m2/sec):	1.94E-07
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 1 (grams/sec):	4.96E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 2 (grams/sec):	4.53E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 3 (grams/sec):	6.18E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 4 (grams/sec):	5.43E-06

Unmitigated Concentrations at MIR

X (m)	Y (m)	Onsite		Offsite-Road Segment 1		Offsite-Road Segment 2		Offsite-Road Segment 3		Offsite-Road Segment 4		Total DPM (ug/m3)
		Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	
583256.46	4198419.85	401494.3175	0.07805	2.34539	1.16414E-05	2.53551	1.14737E-05	1.99294	1.23138E-05	2.58776	1.40470E-05	0.07810

Construction Annual DPM Emissions (as PM2.5 Exhaust)

Annual Average Onsite DPM Exhaust Emission Rate (grams/m2/sec):	3.75E-08
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 1 (grams/sec):	4.96E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 2 (grams/sec):	4.53E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 3 (grams/sec):	6.18E-06
Annual Average Offsite DPM Exhaust Emission Rate - Road Segment 4 (grams/sec):	5.43E-06

Mitigated Concentrations at MIR

X (m)	Y (m)	Onsite		Offsite-Road Segment 1		Offsite-Road Segment 2		Offsite-Road Segment 3		Offsite-Road Segment 4		Total DPM (ug/m3)
		Annual DPM Exhaust w/Unit Emissions (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 1 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 2 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 3 Annual DPM Exhaust w/Actual Emissions (ug/m3)	Annual DPM Exhaust w/Unit Emissions (ug/m3)	Offsite-Road Segment 4 Annual DPM Exhaust w/Actual Emissions (ug/m3)	
583256.46	4198419.85	401494.3175	0.01506	2.34539	1.16414E-05	2.53551	1.14737E-05	1.99294	1.23138E-05	2.58776	1.40470E-05	0.01511

Construction Annual PM2.5 Total Emissions

Annual Average Onsite PM2.5 Total Exhaust Emission Rate (grams/m2/sec):	1.97E-07
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 1 (grams/sec):	4.96E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 2 (grams/sec):	4.53E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 3 (grams/sec):	6.18E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 4 (grams/sec):	5.43E-06

Unmitigated Concentrations at MIR

X (m)	Y (m)	Onsite		Offsite-Road Segment 1		Offsite-Road Segment 2		Offsite-Road Segment 3		Offsite-Road Segment 4		Total PM2.5 (ug/m3)
		Annual PM2.5 Total w/Unit Emissions (ug/m3)	Onsite Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 1 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 2 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 3 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 4 Annual PM2.5 Total w/Actual Emissions (ug/m3)	
583256.46	4198419.85	401494.3175	0.07918	2.34539	1.16414E-05	2.53551	1.14737E-05	1.99294	1.23138E-05	2.58776	1.40470E-05	0.07923

Construction Annual PM2.5 Total Emissions

Annual Average Onsite PM2.5 Total Exhaust Emission Rate (grams/m2/sec):	4.09E-08
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 1 (grams/sec):	4.96E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 2 (grams/sec):	4.53E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 3 (grams/sec):	6.18E-06
Annual Average Offsite PM2.5 Total Exhaust Emission Rate - Road Segment 4 (grams/sec):	5.43E-06

Mitigated Concentrations at MIR

X (m)	Y (m)	Onsite		Offsite-Road Segment 1		Offsite-Road Segment 2		Offsite-Road Segment 3		Offsite-Road Segment 4		Total PM2.5 (ug/m3)
		Annual PM2.5 Total w/Unit Emissions (ug/m3)	Onsite Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 1 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 2 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 3 Annual PM2.5 Total w/Actual Emissions (ug/m3)	Annual PM2.5 Total w/Unit Emissions (ug/m3)	Offsite-Road Segment 4 Annual PM2.5 Total w/Actual Emissions (ug/m3)	
583256.46	4198419.85	401494.3175	0.01642	2.34539	1.16414E-05	2.53551	1.14737E-05	1.99294	1.23138E-05	2.58776	1.40470E-05	0.01647

Cancer Risk Calculations Using OEHA/BAAQMD Cancer Risk Assumptions

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infan
UTM: (583256.46, 4198419.85)

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
Exposure Frequency: 350 days/year
Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
	Concentration (ug/m3)	Age Sensitivity Factor				
3rd Trimester	0.078101087	10	361	0.85	0.25	0.9
1	0.078101087	10	1090	0.85	1.00	10.9
2	0.078101087	10	1090	0.85	0.72	7.9
Total						19.7

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
	Concentration (ug/m3)	Age Sensitivity Factor				
3rd Trimester	0.015109127	10	361	0.85	0.25	0.2
1	0.015109127	10	1090	0.85	1.00	2.1
2	0.015109127	10	1090	0.85	0.72	1.5
Total						3.8

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Chil
UTM: (583256.46, 4198419.85)

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
Exposure Frequency: 350 days/year
Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
	Concentration (ug/m3)	Age Sensitivity Factor				
1	0.078101087	3	572	0.72	1.00	1.5
2	0.078101087	3	572	0.72	0.97	1.4
Total						2.9

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
	Concentration (ug/m3)	Age Sensitivity Factor				
1	0.015109127	3	572	0.72	1.00	0.3
2	0.015109127	3	572	0.72	0.97	0.3
Total						0.6

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adul
UTM: (583256.46, 4198419.85)

Cancer Potency Factor: 1.1 (mg/kg-day)⁻¹
Exposure Frequency: 350 days/year
Averaging Period: 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
	Concentration (ug/m3)	Age Sensitivity Factor				
1	0.078101087	1	261	0.73	1.00	0.2
2	0.078101087	1	261	0.73	0.97	0.2
Total						0.4

Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM		Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3) ⁻¹
	Concentration (ug/m3)	Age Sensitivity Factor				
1	0.015109127	1	261	0.73	1.00	0.0
2	0.015109127	1	261	0.73	0.97	0.0
Total						0.1

Del Hombre Project

UTM for MIR: (583256.46, 4198419.85)

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)

Unmitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL		Average DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
X (m)	Y (m)			
583256.46	4198419.85	0.0781	0.0781	0.01562

Unmitigated

Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Average PM2.5 Total (ug/m3)	Max PM2.5 (ug/m3)
583256.46	4198419.85	0.0792	0.0792

Mitigated

Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor

Reference Exposure Level (REL) for DPM: 5 ug/m3

CNCHI = DPM/REL		Average DPM (ug/m3)	Max DPM (ug/m3)	CNCHI
X (m)	Y (m)			
583256.46	4198419.85	0.0151	0.0151	0.00302

Mitigated

Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Average PM2.5 Total (ug/m3)	Max PM2.5 (ug/m3)
583256.46	4198419.85	0.0165	0.0165

* AERMOD (1808	1: C:\Users\j	ohnson\Desktop\	26480011\	Del Hombr	e HRA\De	l Hombre	HRA\isc	2/2/2001	9			
* AERMET (1413	4):							16:06:00	3			
* MODELING OPTI	ONS USED:	Reg	DEFAULT	CONC	E	LEV	URBA	N				
* PLOT	FILE OF ANNUAL	VALUES AVERAGED	ACROSS	5 YEARS	FOR SOUR	CE GROUP	: AREA					
* FOR A	TOTAL OF 964	RECEPTORS.										
* FORM A	T: (3(1X,F13.5)	,3(1X,F8.2),2X,	A6,2X,A8,	2X,I8.8,2	X,A8)	ZLEV	ZHILL	ZFLAG	AVE	GRP	NUM YRS	NET ID
* X	Y	AVERAGE CONC										
583262.24	4198439.47	341876.8992	26	26	0	ANNUAL	AREA				5	
583259.75	4198430.4	377683.3261	26	26	0	ANNUAL	AREA				5	
583267.37	4198447.43	280513.8568	26	26	0	ANNUAL	AREA				5	
583272.46	4198439.69	280985.6111	26	26	0	ANNUAL	AREA				5	
583269.82	4198428.2	321260.9984	26	26	0	ANNUAL	AREA				5	
583256.46	4198419.85	401494.3175	26	26	0	ANNUAL	AREA				5	
583268.83	4198415.96	332560.9809	26	26	0	ANNUAL	AREA				5	
583302.22	4198438.42	150451.059	26	26	0	ANNUAL	AREA				5	
583307.13	4198428.59	146590.8425	26	26	0	ANNUAL	AREA				5	
583299.15	4198418.46	175381.8756	26	26	0	ANNUAL	AREA				5	
583312.35	4198410.79	139022.6568	26	26	0	ANNUAL	AREA				5	
583299.15	4198404.96	174194.4154	26	26	0	ANNUAL	AREA				5	
583251.57	4198386.84	378551.2955	26	26	0	ANNUAL	AREA				5	
583253.72	4198374.56	327245.846	26	26	0	ANNUAL	AREA				5	
583264.77	4198385.92	312047.7786	26	26	0	ANNUAL	AREA				5	
583264.77	4198376.1	278542.8376	26	26	0	ANNUAL	AREA				5	
583281.96	4198388.07	222080.5821	26	26	0	ANNUAL	AREA				5	
583295.78	4198388.99	172165.4999	26	26	0	ANNUAL	AREA				5	
583282.88	4198376.71	194878.8242	26	26	0	ANNUAL	AREA				5	
583294.86	4198377.94	159383.4886	26	26	0	ANNUAL	AREA				5	
583312.05	4198384.39	127287.8529	26	26	0	ANNUAL	AREA				5	
583311.74	4198373.03	116562.5261	26	26	0	ANNUAL	AREA				5	
583321.26	4198378.25	106385.4138	26	26	0	ANNUAL	AREA				5	
583332.31	4198387.15	96254.6735	26	26	0	ANNUAL	AREA				5	
583332.31	4198373.64	88685.25905	26	26	0	ANNUAL	AREA				5	
583342.75	4198379.17	80579.64539	26	26	0	ANNUAL	AREA				5	
583351.65	4198386.23	74603.39551	26	26	0	ANNUAL	AREA				5	
583353.18	4198373.03	68698.95463	26	26	0	ANNUAL	AREA				5	
583188.33	4198476.48	151237.9315	25	25	0	ANNUAL	AREA				5	
583202.15	4198475.26	174647.5954	25	25	0	ANNUAL	AREA				5	
583197.23	4198485.69	116932.2883	25	25	0	ANNUAL	AREA				5	
583222.1	4198513.32	56589.43405	25	25	0	ANNUAL	AREA				5	
583230.08	4198503.5	73022.28611	25	25	0	ANNUAL	AREA				5	
583236.22	4198486.61	118902.3801	25	25	0	ANNUAL	AREA				5	
583239.91	4198475.26	170685.2284	25.19	25.19	0	ANNUAL	AREA				5	
583245.74	4198481.47	122519.1052	25.04	25.04	0	ANNUAL	AREA				5	
583277.66	4198485.69	93921.01512	25.01	25.01	0	ANNUAL	AREA				5	
583271.52	4198495.21	78355.94316	25	25	0	ANNUAL	AREA				5	
583281.96	4198494.9	73519.02156	25	25	0	ANNUAL	AREA				5	
583284.72	4198503.81	59822.0659	25.01	25.01	0	ANNUAL	AREA				5	
583291.48	4198494.29	69386.81212	25.19	25.19	0	ANNUAL	AREA				5	
583294.24	4198503.5	56785.912	25.15	25.15	0	ANNUAL	AREA				5	
583297.31	4198510.25	49162.09579	25.09	25.09	0	ANNUAL	AREA				5	
583303.14	4198501.96	50900.40364	25.3	25.3	0	ANNUAL	AREA				5	
583243.9	4198533.28	37159.90809	25	25	0	ANNUAL	AREA				5	
583256.48	4198540.34	32324.92166	25	25	0	ANNUAL	AREA				5	
583258.02	4198524.68	43258.54619	25	25	0	ANNUAL	AREA				5	
583257.71	4198512.71	55680.62166	25	25	0	ANNUAL	AREA				5	
583369.99	4198515.85	47111.09159	25	25	0	ANNUAL	AREA				5	
583323.93	4198476.14	69088.12221	26	26	0	ANNUAL	AREA				5	
583329.2	4198463.25	76813.87058	26	26	0	ANNUAL	AREA				5	
583336.91	4198476.18	60281.09648	26	26	0	ANNUAL	AREA				5	
583343.97	4198489.68	47776.85596	25.88	25.88	0	ANNUAL	AREA				5	
583351.65	4198476.79	51718.0845	26	26	0	ANNUAL	AREA				5	
583327.7	4198498.28	48755.14578	25.59	25.59	0	ANNUAL	AREA				5	
583324.63	4198509.64	42118.02398	25.21	25.21	0	ANNUAL	AREA				5	
583336.91	4198508.41	39586.67855	25.26	25.26	0	ANNUAL	AREA				5	
583357.79	4198443.33	64417.36105	26	26	0	ANNUAL	AREA				5	
583364.85	4198434.73	61969.28331	26	26	0	ANNUAL	AREA				5	
583370.68	4198446.4	54614.81537	26	26	0	ANNUAL	AREA				5	
583329.85	4198430.13	100450.2311	26	26	0	ANNUAL	AREA				5	
583342.44	4198436.27	81465.44359	26	26	0	ANNUAL	AREA				5	
583340.29	4198423.68	88567.55656	26	26	0	ANNUAL	AREA				5	
583338.14	4198412.63	93227.69407	26	26	0	ANNUAL	AREA				5	
583349.5	4198417.54	79304.63669	26	26	0	ANNUAL	AREA				5	
583348.27	4198406.49	81264.28035	26	26	0	ANNUAL	AREA				5	
583366.38	4198416.01	64305.99663	26	26	0	ANNUAL	AREA				5	
583386.03	4198415.09	51510.87128	26	26	0	ANNUAL	AREA				5	
583378.66	4198423.38	54985.0246	26	26	0	ANNUAL	AREA				5	
583375.29	4198409.25	58333.26306	26	26	0	ANNUAL	AREA				5	
583380.2	4198389.3	54265.00441	26	26	0	ANNUAL	AREA				5	
583387.56	4198380.09	49027.9986	26	26	0	ANNUAL	AREA				5	
583393.7	4198391.14	47305.1503	26	26	0	ANNUAL	AREA				5	
583400.46	4198401.11	44637.58096	26	26	0	ANNUAL	AREA				5	
583405.68	4198392.37	42097.96019	26	26	0	ANNUAL	AREA				5	
583272.73	4198545.5	28900.76946	25	25	0	ANNUAL	AREA				5	
583279.79	4198559.32	23046.61371	25	25	0	ANNUAL	AREA				5	
583286.24	4198550.11	26131.91477	25	25	0	ANNUAL	AREA				5	
583302.2	4198556.86	22785.82187	25	25	0	ANNUAL	AREA				5	
583292.07	4198561.47	21842.59078	25	25	0	ANNUAL	AREA				5	
583322.77	4198586.03	14987.87752	25	25	0	ANNUAL	AREA				5	
583335.97	4198593.09	13471.35887	25	25	0	ANNUAL	AREA				5	
583336.89	4198578.66	15826.32814	25	25	0	ANNUAL	AREA				5	
583333.51	4198566.99	18357.70228	25	25	0	ANNUAL	AREA				5	
583361.14	4198579.27	14762.80776	25	25	0	ANNUAL	AREA				5	
583347.94	4198566.33	17257.5085	25	25	0	ANNUAL	AREA				5	
583351.01	4198540.59	24017.19043	25	25	0	ANNUAL	AREA				5	
583365.13	4198547.96	20728.74144	25	25	0	ANNUAL	AREA				5	
583364.52	4198535.99	23891.97581	25	25	0	ANNUAL	AREA				5	
583362.37	4198525.24	27418.14171	25	25	0	ANNUAL	AREA				5	
583376.8	4198531.38	23702.06297	25.05	25.05	0	ANNUAL	AREA				5	
583373.42	4198517.57	28107.75175	25	25	0	ANNUAL	AREA				5	
583385.7	4198551.03	18423.7208	25	25	0	ANNUAL	AREA				5	
583401.97	4198547.96	17739.65227	25	25	0	ANNUAL	AREA				5	
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583398.9	4198579.58	13175.39519	25	25	0	ANNUAL	AREA				5	
583382.02	4198579.89	13827.52448	25	25	0	ANNUAL	AREA				5	
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583372.81	4198594.93	12163.38745	25	25	0	ANNUAL	AREA				5	
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583350.09	4198595.85	12693.57895	25	25	0	ANNUAL	AREA				5	
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583421.62	4198487.17	26521.723	26	26	0	ANNUAL	AREA				5	
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583501.44	4198442.66	18392.20527	26	26	0	ANNUAL	AREA				5	
583504.81	4198453.1	17503.21536	26	26	0	ANNUAL	AREA				5	
583451.2	4198395.17	28243.46335	26	26	0	ANNUAL	AREA					

583456.25	4198360.5	25635.76332	26.14	26.14	0	ANNUAL	AREA	5
583484.79	4198395.17	21862.4037	26.02	26.02	0	ANNUAL	AREA	5
583548.62	4198378.79	14311.25502	26.58	26.58	0	ANNUAL	AREA	5
583552.61	4198387.69	14045.54052	26.28	26.28	0	ANNUAL	AREA	5
583544.5	4198369.07	14529.65078	26.9	26.9	0	ANNUAL	AREA	5
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583243.45	4198340.59	17452.5854	26	26	0	ANNUAL	AREA	5
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583283.38	4198354.81	135318.9149	26	26	0	ANNUAL	AREA	5
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583177.43	4198343.58	81429.68703	26	26	0	ANNUAL	AREA	5
583171.69	4198337.84	55354.96791	26	26	0	ANNUAL	AREA	5
583165.69	4198331.32	37152.69652	26	26	0	ANNUAL	AREA	5
583177.43	4198332.36	48615.62282	26	26	0	ANNUAL	AREA	5
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583200.13	4198293.48	18548.95462	26	26	0	ANNUAL	AREA	5
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583240.06	4198291.91	26262.30072	26	26	0	ANNUAL	AREA	5
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583277.38	4198277.82	22907.77358	26.74	26.74	0	ANNUAL	AREA	5
583275.55	4198264.77	17515.5931	26.83	26.83	0	ANNUAL	AREA	5
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583317.83	4198273.83	22589.89912	27	27	0	ANNUAL	AREA	5
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583328.27	4198273.12	22576.32954	27	27	0	ANNUAL	AREA	5
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583352.8	4198289.82	27755.47916	27	27	0	ANNUAL	AREA	5
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583352.54	4198301.57	32647.23022	27	27	0	ANNUAL	AREA	5
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583315.22	4198296.35	33933.83855	27	27	0	ANNUAL	AREA	5
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583316.79	4198310.18	43303.27545	26.86	26.86	0	ANNUAL	AREA	5
583329.57	4198314.62	44035.94492	26.71	26.71	0	ANNUAL	AREA	5
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583337.14	4198330.54	53035.71337	26.18	26.18	0	ANNUAL	AREA	5
583345.23	4198339.41	55478.74751	26	26	0	ANNUAL	AREA	5
583356.45	4198335.23	48281.63429	26.03	26.03	0	ANNUAL	AREA	5
583370.81	4198339.67	44896.01013	26	26	0	ANNUAL	AREA	5
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583374.16	4198241.39	14158.83195	27	27	0	ANNUAL	AREA	5
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583159.52	4198240.41	4955.66678	26.16	26.16	0	ANNUAL	AREA	5
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583195.75	4198223.52	4675.64711	26.77	26.77	0	ANNUAL	AREA	5
583205.27	4198219.53	4721.57309	26.93	26.93	0	ANNUAL	AREA	5
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583179.14	4198190.55	2849.7231	27	27	0	ANNUAL	AREA	5
583191.11	4198196.08	3207.36776	27	27	0	ANNUAL	AREA	5
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583231.64	4198176.43	3364.5538	27	27	0	ANNUAL	AREA	5
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583286.75	4198203.75	6887.67907	27	27	0	ANNUAL	AREA	5
583276.93	4198195.77	5639.40804	27	27	0	ANNUAL	AREA	5
583287.67	4198189.02	5685.49455	27	27	0	ANNUAL	AREA	5
583277.85	4198179.19	4749.13744	27	27	0	ANNUAL	AREA	5
583260.65	4198180.73	4336.73286	27	27	0	ANNUAL	AREA	5
583153.81	4198216.65	3559.74957	26.66	26.66	0	ANNUAL	AREA	5
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583165.48	4198168.75	2206.00399	27	27	0	ANNUAL	AREA	5
583177.45	4198174.89	2420.46862	27	27	0	ANNUAL	AREA	5
583137.84	4198132.22	1577.0251	27	27	0	ANNUAL	AREA	5
583142.76	4198116.86	1405.98901	27	27	0	ANNUAL	AREA	5
583155.04	4198123	1481.65591	27	27	0	ANNUAL	AREA	5
583171.62	4198121.47	1514.5879	27	27	0	ANNUAL	AREA	5
583184.82	4198118.71	1541.15731	27	27	0	ANNUAL	AREA	5
583216.75	4198168.14	2780.52825	27	27	0	ANNUAL	AREA	5
583212.14	4198157.7	2434.57897	27	27	0	ANNUAL	AREA	5

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583233.64	4198141.43	2370.84396	27	27	0	ANNUAL	AREA	5
583248.99	4198142.04	2621.31461	27	27	0	ANNUAL	AREA	5
583264.65	4198122.39	2379.01803	27	27	0	ANNUAL	AREA	5
583274.47	4198133.14	2791.87261	27	27	0	ANNUAL	AREA	5
583354.34	4198141.43	2851.47226	27	27	0	ANNUAL	AREA	5
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583283.07	4198162	3993.75817	27	27	0	ANNUAL	AREA	5
583297.19	4198161.08	4266.75912	27	27	0	ANNUAL	AREA	5
583298.73	4198149.72	3788.532	27	27	0	ANNUAL	AREA	5
583311.01	4198154.01	4214.59247	27	27	0	ANNUAL	AREA	5
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583570.55	4198751.05	2850.60632	24.53	24.53	0	ANNUAL	AREA	5
583582.04	4198756.01	2737.95351	24.06	24.06	0	ANNUAL	AREA	5
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583619.36	4198737.21	2846.35162	24.63	24.63	0	ANNUAL	AREA	5
583626.41	4198742.96	2739.25383	24.44	24.44	0	ANNUAL	AREA	5
583631.89	4198707.46	3227.20661	25	25	0	ANNUAL	AREA	5
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583451.46	4198604.96	9046.59491	25	25	0	ANNUAL	AREA	5
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583542.63	4198501.58	11813.83478	26	26	0	ANNUAL	AREA	5
583550	4198501.08	10576.94844	26	26	0	ANNUAL	AREA	5
583549.7	4198530.83	10083.31552	26	26	0	ANNUAL	AREA	5
583478.35	4198567.73	11005.7731	25.28	25.28	0	ANNUAL	AREA	5
583539.06	4198568.88	8633.50789	26	26	0	ANNUAL	AREA	5
583540.34	4198578.65	8130.60158	25.91	25.91	0	ANNUAL	AREA	5
583567.96	4198565.48	7893.92569	26	26	0	ANNUAL	AREA	5
583570.51	4198579.08	7299.82736	25.9	25.9	0	ANNUAL	AREA	5
583596.87	4198558.25	7339.72771	25.82	25.82	0	ANNUAL	AREA	5
583613.87	4198516.17	8063.14752	26	26	0	ANNUAL	AREA	5
583607.49	4198502.14	8676.14556	26	26	0	ANNUAL	AREA	5
583588.06	4198459.84	10675.99377	25.87	25.87	0	ANNUAL	AREA	5
583407.43	4198128.14	4341.48639	27	27	0	ANNUAL	AREA	5
583420.8	4198121.44	4254.3096	27	27	0	ANNUAL	AREA	5
583435.61	4198118.38	4156.96022	27	27	0	ANNUAL	AREA	5
583424.41	4198109.35	3782.21258	27	27	0	ANNUAL	AREA	5
583336.66	4198216.55	9944.64343	27	27	0	ANNUAL	AREA	5
583337.24	4198200.03	8040.78722	27	27	0	ANNUAL	AREA	5
583336.37	4198184.67	6638.5776	27	27	0	ANNUAL	AREA	5
583352.31	4198208.43	9244.71301	27	27	0	ANNUAL	AREA	5
583363.61	4198213.94	10059.544	27	27	0	ANNUAL	AREA	5
583374.91	4198204.67	9115.33824	27	27	0	ANNUAL	AREA	5
583383.31	4198220.31	10981.97366	27	27	0	ANNUAL	AREA	5
583365.92	4198186.7	7316.31026	27	27	0	ANNUAL	AREA	5
583365.35	4198171.93	6194.49728	27	27	0	ANNUAL	AREA	5
583366.79	4198156.28	5253.61725	27	27	0	ANNUAL	AREA	5
582913.15	4198387.77	2014.07466	26	26	0	ANNUAL	AREA	5
582932.5	4198201.45	2270.90345	26	26	0	ANNUAL	AREA	5
582944.76	4198219.85	2558.97369	26	26	0	ANNUAL	AREA	5
582960.8	4198192.96	2405.53147	26	26	0	ANNUAL	AREA	5
582959.39	4198165.12	2077.25946	26	26	0	ANNUAL	AREA	5
582934.38	4198163.71	1945.45985	26	26	0	ANNUAL	AREA	5
582908.43	4198160.41	1790.85884	26	26	0	ANNUAL	AREA	5
582907.02	4198134.46	1605.65391	26	26	0	ANNUAL	AREA	5
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582958.92	4198118.89	1613.22198	26.04	26.04	0	ANNUAL	AREA	5
582962.69	4198139.65	1818.62712	26	26	0	ANNUAL	AREA	5
582957.13	4198139.19	1872.07389	26.25	26.25	0	ANNUAL	AREA	5
582909.4	4198123.13	1683.50687	26.87	26.87	0	ANNUAL	AREA	5
583024.02	4198138.23	1863.49541	26.59	26.59	0	ANNUAL	AREA	5
583040.54	4198124.08	1659.55104	27	27	0	ANNUAL	AREA	5
583055.16	4198141.53	1868.80581	26.68	26.68	0	ANNUAL	AREA	5

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583016	4198173.14	2390.66822	26	26	0 ANNUAL AREA	5
583039.59	4198165.6	2284.87258	26	26	0 ANNUAL AREA	5
583064.6	4198180.22	2562.59827	26.14	26.14	0 ANNUAL AREA	5
583051.86	4198198.15	2990.72855	26	26	0 ANNUAL AREA	5
583060.35	4198218.91	3618.25829	26	26	0 ANNUAL AREA	5
582995.72	4198188.73	2572.60045	26	26	0 ANNUAL AREA	5
583003.74	4198210.42	3011.84012	26	26	0 ANNUAL AREA	5
583032.51	4198212.77	3284.47174	26	26	0 ANNUAL AREA	5
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583423.16	4197977.82	1372.13155	27.96	27.96	0 ANNUAL AREA	5
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583478.83	4197995.28	1784.12732	26.18	26.18	0 ANNUAL AREA	5
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583558.56	4197954.23	1563.28189	24.39	24.39	0 ANNUAL AREA	5
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583133.01	4197953.29	544.31877	28	28	0 ANNUAL AREA	5
582758.13	4198746.52	1373.16776	22.15	22.15	0 ANNUAL AREA	5
582758.82	4198727.43	1408.07455	22.48	22.48	0 ANNUAL AREA	5
582776.2	4198745.15	1458.60771	22.36	22.36	0 ANNUAL AREA	5
582782.68	4198726.75	1529.84845	22.98	22.98	0 ANNUAL AREA	5
582802.79	4198746.18	1586.1554	22.33	22.33	0 ANNUAL AREA	5
582819.15	4198737.31	1699.89003	22.63	22.63	0 ANNUAL AREA	5
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582838.92	4198747.88	1771.71798	22.27	22.27	0 ANNUAL AREA	5
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582835.86	4198731.52	1817.0719	22.82	22.82	0 ANNUAL AREA	5
582851.54	4198734.93	1899.07836	22.7	22.7	0 ANNUAL AREA	5
582871.99	4198728.11	2063.98408	22.93	22.93	0 ANNUAL AREA	5
582878.47	4198746.86	2003.98421	22.31	22.31	0 ANNUAL AREA	5
582897.21	4198739.7	2163.69944	22.55	22.55	0 ANNUAL AREA	5
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582915.96	4198748.22	2222.97304	22.26	22.26	0 ANNUAL AREA	5
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582948.01	4198734.93	2546.51701	22.94	22.94	0 ANNUAL AREA	5
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582787.45	4198683.8	1634.79049	23	23	0 ANNUAL AREA	5
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582821.88	4198682.09	1875.93803	23	23	0 ANNUAL AREA	5
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582958.57	4198647.32	3640.56823	23.69	23.69	0 ANNUAL AREA	5
582951.76	4198664.37	3331.61116	23.05	23.05	0 ANNUAL AREA	5
582696.44	4198539.94	1111.14605	23.54	23.54	0 ANNUAL AREA	5
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582711.43	4198536.19	1177.97486	23.95	23.95	0 ANNUAL AREA	5
582711.09	4198521.54	1163.93264	23.98	23.98	0 ANNUAL AREA	5
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582773.47	4198639.82	1586.28125	23	23	0 ANNUAL AREA	5
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582826.99	4198637.09	2013.70322	23.97	23.97	0 ANNUAL AREA	5
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582848.13	4198613.23	2268.00923	24.28	24.28	0 ANNUAL AREA	5
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582898.58	4198603.01	2974.17332	23.02	23.02	0 ANNUAL AREA	5
582869.94	4198616.98	2519.37842	23.5	23.5	0 ANNUAL AREA	5
582903.01	4198584.94	3114.40538	23.22	23.22	0 ANNUAL AREA	5
582883.58	4198589.37	2778.6173	23.53	23.53	0 ANNUAL AREA	5
582940.85	4198611.87	3693.89127	23.57	23.57	0 ANNUAL AREA	5
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582960.62	4198590.74	4362.54126	24.12	24.12	0 ANNUAL AREA	5
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582937.1	4198561.76	3952.51723	24	24	0 ANNUAL AREA	5
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582985.84	4198602.33	4894.89156	24.19	24.19	0 ANNUAL AREA	5
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582987.55	4198581.19	5314.80852	24.85	24.85	0 ANNUAL AREA	5
582987.89	4198560.74	5650.80333	25	25	0 ANNUAL AREA	5
582986.53	4198541.31	5842.03547	25	25	0 ANNUAL AREA	5
583005.96	4198581.53	5985.29934	24.95	24.95	0 ANNUAL AREA	5
583021.98	4198580.51	6673.07889	25	25	0 ANNUAL AREA	5
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583091.86	4198591.12	9297.62172	25	25	0 ANNUAL AREA	5
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583030.16	4198534.49	8587.77295	25	25	0 ANNUAL AREA	5
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583035.27	4198510.97	9715.74559	25	25	0 ANNUAL AREA	5
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583045.16	4198538.32	9635.74393	25	25	0 ANNUAL AREA	5
583061.52	4198515.4	12623.50017	25	25	0 ANNUAL AREA	5
583059.47	4198543.35	10669.06688	25	25	0 ANNUAL AREA	5
583082.31	4198548.81	12455.38396	25	25	0 ANNUAL AREA	5
583090.83	4198535.51	14897.43589	25	25	0 ANNUAL AREA	5

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582752.68	4198576.42	1441.11891	24.29	24.29	0 ANNUAL	AREA	5
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582771.43	4198557.67	1556.08727	24.92	24.92	0 ANNUAL	AREA	5
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582828.02	4198544.72	2049.24902	26.68	26.68	0 ANNUAL	AREA	5
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582816.08	4198531.76	1886.33913	27.13	27.13	0 ANNUAL	AREA	5
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582905.74	4198503.81	3212.41652	24.6	24.6	0 ANNUAL	AREA	5
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582987.89	4198687.89	3476.71192	23.37	23.37	0 ANNUAL	AREA	5
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582988.91	4198667.77	3814.54653	23.95	23.95	0 ANNUAL	AREA	5
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582988.57	4198647.32	4159.4278	24	24	0 ANNUAL	AREA	5
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582988.23	4198632.66	4413.33812	24.02	24.02	0 ANNUAL	AREA	5
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582993.34	4198702.2	3316.52188	23.26	23.26	0 ANNUAL	AREA	5
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583038.68	4198735.27	3148.91123	23	23	0 ANNUAL	AREA	5
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583060.5	4198684.48	4392.21232	24	24	0 ANNUAL	AREA	5
583071.75	4198674.93	4799.39243	24	24	0 ANNUAL	AREA	5
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583085.04	4198749.59	3164.23294	23.22	23.22	0 ANNUAL	AREA	5
582778.93	4198803.79	1332.56021	22	22	0 ANNUAL	AREA	5
582796.65	4198803.79	1395.44801	22	22	0 ANNUAL	AREA	5
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582797	4198788.45	1440.71193	22	22	0 ANNUAL	AREA	5
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582825.63	4198786.06	1564.95727	22	22	0 ANNUAL	AREA	5
582823.24	4198771.4	1606.02176	22	22	0 ANNUAL	AREA	5
582846.42	4198770.72	1717.48867	22	22	0 ANNUAL	AREA	5
582858.35	4198771.06	1773.62452	22	22	0 ANNUAL	AREA	5
582880.51	4198773.45	1869.79038	22	22	0 ANNUAL	AREA	5
582893.46	4198773.79	1931.16098	22	22	0 ANNUAL	AREA	5
582891.76	4198786.06	1852.20751	22	22	0 ANNUAL	AREA	5
582889.03	4198798.67	1770.67679	22	22	0 ANNUAL	AREA	5
582884.94	4198811.63	1686.74429	22	22	0 ANNUAL	AREA	5
582847.79	4198811.29	1554.489	22	22	0 ANNUAL	AREA	5
582905.28	4198774.38	1985.3111	22	22	0 ANNUAL	AREA	5
582916.86	4198766.5	2096.4015	22	22	0 ANNUAL	AREA	5
582927.94	4198767.49	2146.96885	22.09	22.09	0 ANNUAL	AREA	5
582919.32	4198795.57	1910.44393	22	22	0 ANNUAL	AREA	5
582920.55	4198783.01	1999.72729	22	22	0 ANNUAL	AREA	5
582931.64	4198779.5	2073.05407	22.06	22.06	0 ANNUAL	AREA	5
582931.14	4198804.43	1896.7172	22	22	0 ANNUAL	AREA	5
582943.21	4198808.13	1913.86826	22	22	0 ANNUAL	AREA	5
582954.29	4198800	2012.92854	22	22	0 ANNUAL	AREA	5
582963.16	4198805.42	2002.00345	22	22	0 ANNUAL	AREA	5
582977.2	4198811.08	2002.36542	22	22	0 ANNUAL	AREA	5
582984.83	4198801.48	2107.38203	22.02	22.02	0 ANNUAL	AREA	5
582994.44	4198809.36	2069.367	22.08	22.08	0 ANNUAL	AREA	5
583002.08	4198799.75	2180.78278	22.33	22.33	0 ANNUAL	AREA	5
583015.13	4198802.95	2191.67728	22.46	22.46	0 ANNUAL	AREA	5
582984.83	4198780.3	2303.21762	22.22	22.22	0 ANNUAL	AREA	5
583000.35	4198781.03	2360.53182	22.63	22.63	0 ANNUAL	AREA	5
583498.58	4198816.02	2246.49078	24	24	0 ANNUAL	AREA	5
583505.72	4198823.9	2150.37029	24	24	0 ANNUAL	AREA	5
583476.66	4198822.42	2219.56489	24	24	0 ANNUAL	AREA	5
583461.39	4198822.42	2246.27457	24	24	0 ANNUAL	AREA	5
583452.27	4198819.47	2294.88572	24	24	0 ANNUAL	AREA	5
583435.28	4198817.74	2343.54897	24	24	0 ANNUAL	AREA	5
583430.35	4198806.91	2485.84051	24	24	0 ANNUAL	AREA	5
583444.64	4198806.17	2468.62603	23.88	23.88	0 ANNUAL	AREA	5
583439.47	4198796.07	2612.35757	23.87	23.87	0 ANNUAL	AREA	5
583409.42	4198820.94	2345.88917	24	24	0 ANNUAL	AREA	5
583401.04	4198824.64	2314.02776	23.97	23.97	0 ANNUAL	AREA	5
583399.56	4198808.38	2519.75683	24	24	0 ANNUAL	AREA	5
583398.58	4198800.99	2627.55283	24	24	0 ANNUAL	AREA	5
583398.58	4198790.16	2781.63398	24	24	0 ANNUAL	AREA	5
583397.1	4198768.48	3147.55899	24	24	0 ANNUAL	AREA	5
583408.92	4198767.74	3130.73737	24	24	0 ANNUAL	AREA	5
583405.97	4198760.11	3280.9898	24	24	0 ANNUAL	AREA	5
583424.69	4198767.99	3083.86811	24	24	0 ANNUAL	AREA	5
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583438.48	4198780.06	2848.72001	23.87	23.87	0 ANNUAL	AREA	5
583236.75	4198817.99	2528.43949	24	24	0 ANNUAL	AREA	5
583247.34	4198809.61	2649.71138	24	24	0 ANNUAL	AREA	5
583273.94	4198819.71	2510.27745	24	24	0 ANNUAL	AREA	5
583292.17	4198823.16	2456.2789	23.93	23.93	0 ANNUAL	AREA	5
583304.24	4198817.74	2518.43245	23.96	23.96	0 ANNUAL	AREA	5
583327.15	4198823.16	2454.88626	23.88	23.88	0 ANNUAL	AREA	5
583345.62	4198823.65	2398.3147	23.98	23.98	0 ANNUAL	AREA	5
583356.46	4198819.47	2437.63995	23.95	23.95	0 ANNUAL	AREA	5
583212.89	4198818.86	2494.98471	23.97	23.97	0 ANNUAL	AREA	5
583217.23	4198811.03	2605.91272	24	24	0 ANNUAL	AREA	5

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583205.35	4198776.84	3133.24562	24	24	0	ANNUAL	AREA	5
583202.74	4198761.77	3421.40406	24	24	0	ANNUAL	AREA	5
583197.24	4198742.65	3838.65064	24	24	0	ANNUAL	AREA	5
583246.5	4198773.94	3245.41059	24	24	0	ANNUAL	AREA	5
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583195.5	4198731.92	4110.83551	24	24	0	ANNUAL	AREA	5
583202.74	4198713.38	4702.69157	24	24	0	ANNUAL	AREA	5
583190.28	4198715.12	4583.98744	24	24	0	ANNUAL	AREA	5
583191.44	4198693.67	5364.26175	24	24	0	ANNUAL	AREA	5
583190.28	4198680.92	5910.12248	24	24	0	ANNUAL	AREA	5
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583174.93	4198653.39	7236.80079	24.42	24.42	0	ANNUAL	AREA	5
583196.66	4198654.26	7458.33584	24.39	24.39	0	ANNUAL	AREA	5
583184.78	4198648.18	7720.82477	24.6	24.6	0	ANNUAL	AREA	5
583171.74	4198635.43	8448.57887	25	25	0	ANNUAL	AREA	5
583212.31	4198641.51	8571.79259	24.82	24.82	0	ANNUAL	AREA	5
583225.64	4198653.39	7778.26447	24.46	24.46	0	ANNUAL	AREA	5
583269.97	4198622.97	10595.48137	25	25	0	ANNUAL	AREA	5
583274.61	4198642.09	8741.9799	25	25	0	ANNUAL	AREA	5
583247.95	4198669.91	6805.75829	24.7	24.7	0	ANNUAL	AREA	5
583246.79	4198680.63	6220.1805	24.4	24.4	0	ANNUAL	AREA	5
583234.91	4198699.47	5335.57644	24	24	0	ANNUAL	AREA	5
583238.68	4198711.64	4881.97997	24	24	0	ANNUAL	AREA	5
583246.79	4198728.16	4353.90892	24	24	0	ANNUAL	AREA	5
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583278.38	4198758.58	3566.89975	24	24	0	ANNUAL	AREA	5
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583270.26	4198706.71	5085.56851	24	24	0	ANNUAL	AREA	5
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583296.34	4198698.02	5388.79674	24	24	0	ANNUAL	AREA	5
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583325.32	4198705.55	5007.37074	24	24	0	ANNUAL	AREA	5
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583323.29	4198725.84	4345.29358	24	24	0	ANNUAL	AREA	5
583320.97	4198740.91	3933.83847	24	24	0	ANNUAL	AREA	5
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583318.66	4198781.77	3059.71194	24	24	0	ANNUAL	AREA	5
583342.13	4198773.94	3165.38903	24	24	0	ANNUAL	AREA	5
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583572.1	4198102.55	3848.08755	25.08	25.08	0	ANNUAL	AREA	5
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583582.94	4198108.71	3965.60484	25.01	25.01	0	ANNUAL	AREA	5
583570.62	4198120.29	4295.52666	25.35	25.35	0	ANNUAL	AREA	5
583557.56	4198117.58	4266.6384	25.63	25.63	0	ANNUAL	AREA	5
583562.24	4198106.98	3978.3511	25.26	25.26	0	ANNUAL	AREA	5
583606.83	4198129.15	4350.51741	25.02	25.02	0	ANNUAL	AREA	5
583612	4198143.93	4679.02139	25.03	25.03	0	ANNUAL	AREA	5
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583490.81	4198141.96	5203.47907	27	27	0	ANNUAL	AREA	5
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583570.62	4198141.96	4908.68151	25.74	25.74	0	ANNUAL	AREA	5
583555.59	4198146.15	5128.98448	25.98	25.98	0	ANNUAL	AREA	5
583567.66	4198152.8	5264.10576	25.95	25.95	0	ANNUAL	AREA	5
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583571.36	4198167.09	5703.84175	26	26	0	ANNUAL	AREA	5
583580.72	4198178.67	5991.48536	26	26	0	ANNUAL	AREA	5
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583556.58	4198172.01	6028.85357	26	26	0	ANNUAL	AREA	5
583563.23	4198185.56	6463.66447	26	26	0	ANNUAL	AREA	5
583433.41	4198161.67	6101.20789	27	27	0	ANNUAL	AREA	5
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583088.43	4198822.1	2192.80904	23	23	0	ANNUAL	AREA	5
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583072.72	4198788.8	2530.57089	23	23	0	ANNUAL	AREA	5
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583358.93	4198689.5	5468.5223	24.61	24.61	0	ANNUAL	AREA	5
583313.53	4198662.06	7116.60324	25	25	0	ANNUAL	AREA	5
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583619.83	4198416.66	9691.00219	25.25	25.25	0	ANNUAL	AREA	5
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583631.76	4198361.76	9137.74127	26.06	26.06	0	ANNUAL	AREA	5
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583594.59	4198216.14	7040.29848	26.64	26.64	0	ANNUAL	AREA	5
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583570.04	4198225.01	7909.98124	27	27	0	ANNUAL	AREA	5
583534.57	4198242.4	9736.16082	27	27	0	ANNUAL	AREA	5
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583525.37	4198215.12	8458.04224	27	27	0	ANNUAL	AREA	5
583513.43	4198215.46	8729.58131	27	27	0	ANNUAL	AREA	5
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582956.62	4198037.16	1026.4336	27	27	0 ANNUAL AREA	5
582984.24	4198048.08	1069.68157	27	27	0 ANNUAL AREA	5
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582968.89	4197961.12	681.02602	28	28	0 ANNUAL AREA	5
582975.03	4197950.2	639.75847	28	28	0 ANNUAL AREA	5
582874.09	4197995.9	851.26852	27	27	0 ANNUAL AREA	5
582861.81	4197984.65	809.83726	27	27	0 ANNUAL AREA	5
582869.32	4197973.73	774.33525	27.01	27.01	0 ANNUAL AREA	5
582882.62	4197984.65	811.37105	27	27	0 ANNUAL AREA	5
582885	4197970.66	762.92841	27.13	27.13	0 ANNUAL AREA	5
582890.8	4197955.66	712.73782	27.61	27.61	0 ANNUAL AREA	5
582901.71	4197965.21	740.2208	27.36	27.36	0 ANNUAL AREA	5
582907.85	4197951.57	693.06927	27.82	27.82	0 ANNUAL AREA	5
582758.83	4198044.28	882.66902	26.79	26.79	0 ANNUAL AREA	5
582756.78	4198027.61	846.11396	27	27	0 ANNUAL AREA	5
582775.19	4198030	877.57761	27	27	0 ANNUAL AREA	5
582752.01	4198007.49	794.58774	27	27	0 ANNUAL AREA	5
582751.32	4197978.85	731.93011	27	27	0 ANNUAL AREA	5
582793.27	4198005.45	833.92235	27	27	0 ANNUAL AREA	5
582788.15	4197987.71	782.52096	27	27	0 ANNUAL AREA	5
582770.76	4197977.48	744.27135	27	27	0 ANNUAL AREA	5
582786.45	4197970.66	738.37214	27	27	0 ANNUAL AREA	5
582775.19	4197958.05	702.0248	27	27	0 ANNUAL AREA	5
582775.19	4198004.77	814.12233	27	27	0 ANNUAL AREA	5
582941.95	4198121.39	1604.81339	26	26	0 ANNUAL AREA	5
583429.4	4198055.01	2451.7197	27	27	0 ANNUAL AREA	5
583453.17	4198048.21	2440.41282	27	27	0 ANNUAL AREA	5
583438.66	4198041.66	2276.3381	27	27	0 ANNUAL AREA	5
583454.72	4198021.05	2020.3308	26.65	26.65	0 ANNUAL AREA	5
583432.8	4198010.24	1777.01916	27.03	27.03	0 ANNUAL AREA	5
583439.28	4198026.6	2028.20599	26.94	26.94	0 ANNUAL AREA	5
583455.95	4198033.7	2207.55257	26.94	26.94	0 ANNUAL AREA	5
583467.14	4198134.82	4903.24408	27	27	0 ANNUAL AREA	5
583464.98	4198120.62	4360.77407	27	27	0 ANNUAL AREA	5
583446.45	4198104.26	3743.82989	27	27	0 ANNUAL AREA	5
583462.51	4198104.87	3832.26363	27	27	0 ANNUAL AREA	5
583468.37	4198093.76	3531.42026	26.99	26.99	0 ANNUAL AREA	5
583482.27	4198090.36	3488.4971	26.88	26.88	0 ANNUAL AREA	5
583494.92	4198092.83	3586.85626	26.89	26.89	0 ANNUAL AREA	5
583494	4198104.56	3911.04573	27	27	0 ANNUAL AREA	5
583627.68	4198216.84	6410.76975	26.03	26.03	0 ANNUAL AREA	5
583428.67	4198207.79	9455.83653	27	27	0 ANNUAL AREA	5
583435.16	4198216.43	10208.02949	27	27	0 ANNUAL AREA	5
583469.12	4198226.01	10467.20797	27	27	0 ANNUAL AREA	5
583454.92	4198233.42	11496.21099	27	27	0 ANNUAL AREA	5
583445.66	4198238.66	12294.12551	27	27	0 ANNUAL AREA	5
583500	4198239.28	10651.65323	27	27	0 ANNUAL AREA	5
583489.81	4198251.02	11926.09565	27	27	0 ANNUAL AREA	5
583465.73	4198248.85	12680.83446	27	27	0 ANNUAL AREA	5
583462.64	4198257.81	13736.86717	27	27	0 ANNUAL AREA	5
583467.89	4198261.51	13873.02648	27	27	0 ANNUAL AREA	5
583453.07	4198267.38	15315.063	27	27	0 ANNUAL AREA	5
583483.02	4198283.13	15117.5437	27	27	0 ANNUAL AREA	5
583473.45	4198290.23	16512.51539	27	27	0 ANNUAL AREA	5
583487.65	4198310.61	17185.59048	27	27	0 ANNUAL AREA	5
583494.44	4198318.64	17164.0472	27	27	0 ANNUAL AREA	5
583502.16	4198329.75	17139.13071	27	27	0 ANNUAL AREA	5
583518.22	4198335.93	15917.5601	27	27	0 ANNUAL AREA	5
583526.86	4198341.18	15353.2053	27	27	0 ANNUAL AREA	5
583549.71	4198333.15	13257.85233	27	27	0 ANNUAL AREA	5
583573.49	4198329.44	11610.99447	27	27	0 ANNUAL AREA	5
583566.08	4198318.94	11748.88154	27	27	0 ANNUAL AREA	5
583543.23	4198301.34	12431.0199	27	27	0 ANNUAL AREA	5
583541.99	4198289.92	11954.34689	27	27	0 ANNUAL AREA	5
583509.57	4198267.38	12588.87253	27	27	0 ANNUAL AREA	5
583522.85	4198263.06	11391.38621	27	27	0 ANNUAL AREA	5
583533.96	4198258.12	10629.91945	27	27	0 ANNUAL AREA	5
583545.7	4198254.41	9980.84779	27	27	0 ANNUAL AREA	5
583538.29	4198267.69	10978.21496	27	27	0 ANNUAL AREA	5

583618.8	4198104.31	3742.66283	24.83	24.83	0	ANNUAL	AREA	5
583037.22	4198057.09	1056.09297	27	27	0	ANNUAL	AREA	5
582784.76	4198056.73	962.62548	26.31	26.31	0	ANNUAL	AREA	5
582798.2	4198046.92	957.69407	26.64	26.64	0	ANNUAL	AREA	5
582912.99	4198057.09	1137.55193	26.75	26.75	0	ANNUAL	AREA	5
582955.49	4198055.27	1132.82341	27	27	0	ANNUAL	AREA	5
582847.24	4197998.6	852.15336	27	27	0	ANNUAL	AREA	5
582852.33	4198014.59	910.8541	27	27	0	ANNUAL	AREA	5
582852.69	4198043.29	1019.96777	26.76	26.76	0	ANNUAL	AREA	5
582869.4	4198041.11	1027.83979	26.83	26.83	0	ANNUAL	AREA	5
582854.51	4198030.21	970.80383	27	27	0	ANNUAL	AREA	5
582747.29	4198209.58	1136.78446	26	26	0	ANNUAL	AREA	5
582773.49	4198214.42	1256.86798	26	26	0	ANNUAL	AREA	5
582776.45	4198239.25	1298.01248	26	26	0	ANNUAL	AREA	5
582760.86	4198227.68	1211.75371	26	26	0	ANNUAL	AREA	5
582720.29	4198191.21	1020.28376	26	26	0	ANNUAL	AREA	5
582696.78	4198176.25	934.23582	26	26	0	ANNUAL	AREA	5
582815.16	4198134.79	1269.2924	26	26	0	ANNUAL	AREA	5
582797.64	4198115.99	1156.45566	26	26	0	ANNUAL	AREA	5
582808.75	4198124.54	1216.13295	26	26	0	ANNUAL	AREA	5
582858.33	4198127.1	1394.32676	26	26	0	ANNUAL	AREA	5
582859.78	4198139.84	1457.84695	26	26	0	ANNUAL	AREA	5
582861.12	4198150.32	1511.28742	26	26	0	ANNUAL	AREA	5
582863.35	4198162.37	1576.61864	26	26	0	ANNUAL	AREA	5
582866.47	4198174.42	1647.85655	26	26	0	ANNUAL	AREA	5
582752.57	4198188.63	1136.18189	26	26	0	ANNUAL	AREA	5
582772.18	4198192.63	1222.41928	26	26	0	ANNUAL	AREA	5
582794.71	4198187.18	1315.22321	26	26	0	ANNUAL	AREA	5
582761.65	4198176.28	1155.57559	26	26	0	ANNUAL	AREA	5
582781.99	4198175.55	1236.85446	26	26	0	ANNUAL	AREA	5
582752.2	4198158.12	1094.19985	26	26	0	ANNUAL	AREA	5
582772.91	4198159.91	1172.22504	26	26	0	ANNUAL	AREA	5
582789.62	4198158.12	1233.23694	26	26	0	ANNUAL	AREA	5
582778.72	4198140.68	1155.23585	26	26	0	ANNUAL	AREA	5
582749.3	4198127.6	1036.03009	26	26	0	ANNUAL	AREA	5
582758.74	4198143.58	1093.10285	26	26	0	ANNUAL	AREA	5
582723.84	4198344.47	1099.69713	24	24	0	ANNUAL	AREA	5
582735.83	4198332.84	1148.49484	24.11	24.11	0	ANNUAL	AREA	5
582736.92	4198347.01	1158.51504	24	24	0	ANNUAL	AREA	5
582743.46	4198361.91	1195.93374	24	24	0	ANNUAL	AREA	5
582756.9	4198349.19	1258.183	24.25	24.25	0	ANNUAL	AREA	5
582757.63	4198365.91	1270.20626	24	24	0	ANNUAL	AREA	5
582776.16	4198369.9	1378.42604	24.08	24.08	0	ANNUAL	AREA	5
582768.17	4198378.79	1344.17338	24	24	0	ANNUAL	AREA	5
582760.54	4198405.51	1313.44889	24	24	0	ANNUAL	AREA	5
582744.55	4198397.88	1222.03905	24	24	0	ANNUAL	AREA	5
582753.63	4198385.52	1260.8191	24	24	0	ANNUAL	AREA	5
582936.42	4198437.5	3735.04555	25	25	0	ANNUAL	AREA	5
582953.01	4198455.6	4390.07743	25	25	0	ANNUAL	AREA	5
582974.13	4198474.71	5408.20597	25	25	0	ANNUAL	AREA	5
583005.82	4198474.71	7386.82414	25	25	0	ANNUAL	AREA	5
582920.83	4198403.31	3164.14163	25	25	0	ANNUAL	AREA	5
582951.51	4198413.36	4056.66874	25	25	0	ANNUAL	AREA	5
582946.48	4198380.68	3707.9704	25	25	0	ANNUAL	AREA	5
582972.12	4198351.51	4343.47847	25	25	0	ANNUAL	AREA	5
582980.17	4198379.17	4887.80628	25	25	0	ANNUAL	AREA	5
583013.36	4198381.69	5814.18935	25	25	0	ANNUAL	AREA	5
582976.65	4198406.83	4985.06195	25	25	0	ANNUAL	AREA	5
582967.6	4198439.51	4866.15504	25	25	0	ANNUAL	AREA	5
582987.71	4198458.12	6050.06051	25	25	0	ANNUAL	AREA	5
582991.23	4198434.48	6045.00386	25	25	0	ANNUAL	AREA	5
583017.88	4198451.58	8298.31246	25	25	0	ANNUAL	AREA	5
583045.04	4198467.17	11708.77342	25	25	0	ANNUAL	AREA	5
583065.15	4198441.02	15655.25532	25	25	0	ANNUAL	AREA	5
583040.51	4198441.02	10881.89586	25	25	0	ANNUAL	AREA	5
583043.53	4198417.39	10843.08331	25	25	0	ANNUAL	AREA	5
583028.44	4198401.29	8518.22632	25	25	0	ANNUAL	AREA	5
583007.83	4198411.35	6873.58782	25	25	0	ANNUAL	AREA	5
583021.91	4198428.95	8397.76132	25	25	0	ANNUAL	AREA	5
583541.98	4198818.56	2129.62881	24	24	0	ANNUAL	AREA	5
583523.64	4198810.87	2248.05973	24	24	0	ANNUAL	AREA	5
583468.57	4198525.26	15371.03997	26	26	0	ANNUAL	AREA	5
583436.01	4198505.04	21238.67971	26	26	0	ANNUAL	AREA	5
583429.19	4198497.69	23380.60026	26	26	0	ANNUAL	AREA	5
583464.37	4198513.71	16955.81969	26	26	0	ANNUAL	AREA	5
583447.83	4198523.95	17319.55263	25.86	25.86	0	ANNUAL	AREA	5
583441.79	4198533.4	16688.38241	25.58	25.58	0	ANNUAL	AREA	5
583411.33	4198556.76	15681.02375	25	25	0	ANNUAL	AREA	5
583444.15	4198599.3	9664.94951	25	25	0	ANNUAL	AREA	5
583450.98	4198591.68	10074.78003	25	25	0	ANNUAL	AREA	5
583472.77	4198576.19	10562.35103	25	25	0	ANNUAL	AREA	5
583502.44	4198541.54	11778.44274	26	26	0	ANNUAL	AREA	5
583511.62	4198531.82	11949.80161	26	26	0	ANNUAL	AREA	5
583423.67	4198414.2	35547.6841	26	26	0	ANNUAL	AREA	5
583432.34	4198422.34	32513.82202	26	26	0	ANNUAL	AREA	5
583422.1	4198423.92	35506.73005	26	26	0	ANNUAL	AREA	5
583567.28	4198430.48	12582.02229	26	26	0	ANNUAL	AREA	5
583578.31	4198429.96	11844.91026	26	26	0	ANNUAL	AREA	5
583572.53	4198417.09	12405.85115	26	26	0	ANNUAL	AREA	5
583629.24	4198416.04	9256.17906	25.16	25.16	0	ANNUAL	AREA	5
583631.08	4198427.07	9083.95336	25	25	0	ANNUAL	AREA	5
583572.27	4198409.48	12496.96277	26	26	0	ANNUAL	AREA	5
583573.06	4198438.36	12040.60998	26	26	0	ANNUAL	AREA	5
583544.7	4198398.71	14738.5375	26	26	0	ANNUAL	AREA	5
583610.34	4198419.19	10143.89742	25.32	25.32	0	ANNUAL	AREA	5
583628.98	4198402.13	9341.20503	25.39	25.39	0	ANNUAL	AREA	5
583136.41	4198819.19	2340.2892	23	23	0	ANNUAL	AREA	5
583141.07	4198807.26	2498.18504	23.07	23.07	0	ANNUAL	AREA	5
583149.29	4198820.83	2351.32289	23	23	0	ANNUAL	AREA	5
583160.81	4198823.3	2347.67146	23	23	0	ANNUAL	AREA	5
583164.51	4198815.08	2456.14422	23.06	23.06	0	ANNUAL	AREA	5
583168.21	4198820.56	2396.34789	23.13	23.13	0	ANNUAL	AREA	5
583155.87	4198812.33	2470.91318	23.09	23.09	0	ANNUAL	AREA	5
583145.86	4198802.05	2579.92387	23.19	23.19	0	ANNUAL	AREA	5
583166.43	4198800.82	2652.15954	23.55	23.55	0	ANNUAL	AREA	5
583567.1	4198452.26	12119.88787	26	26	0	ANNUAL	AREA	5
583548.72	4198455.15	13342.00887	26	26	0	ANNUAL	AREA	5
583563.69	4198474.32	11679.61069	26	26	0	ANNUAL	AREA	5
583581.81	4198515.56	9304.8161	26	26	0	ANNUAL	AREA	5
582675.45	4198584.19	1051.70304	23	23	0	ANNUAL	AREA	5
582678.18	4198554.19	1043.96299	23	23	0	ANNUAL	AREA	5

** CONCNIT ug/m³
 ** DEPUNIT g/m³

Search Parameters		Results	
County	<input type="text" value="Contra Costa"/>	<u>Contra Costa County</u>	
Roadway Direction	<input type="text" value="East-West"/>	EAST-WEST DIRECTIONAL ROADWAY	
Side of the Roadway	<input type="text" value="North"/>	PM2.5 annual average	
Distance from Roadway	<input type="text" value="1000"/> feet	0.057 ($\mu\text{g}/\text{m}^3$)	
Annual Average Daily Traffic (ADT)	<input type="text" value="55,600"/>	Cancer Risk	
		2.21 (per million)	
Data for Contra Costa County based on meteorological data collected from Chevron Refinery in 2005			

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.

Search Parameters		Results	
County	<input type="text" value="Contra Costa"/>	<u>Contra Costa County</u>	
Roadway Direction	<input type="text" value="East-West"/>	EAST-WEST DIRECTIONAL ROADWAY	
Side of the Roadway	<input type="text" value="North"/>	PM2.5 annual average	
Distance from Roadway	<input type="text" value="850"/> feet	0.066 ($\mu\text{g}/\text{m}^3$)	
Annual Average Daily Traffic (ADT)	<input type="text" value="55,600"/>	Cancer Risk	
		2.54 (per million)	
Data for Contra Costa County based on meteorological data collected from Chevron Refinery in 2005			

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.

B.2 - Additional Energy Supporting Information

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Del Hombre Apts EIR - Energy Calculations

Summary of Energy Use During Construction

Construction vehicle fuel	62,074 gallons (gasoline, diesel)
Construction equipment	18,353 gallons (diesel)
Construction office electricity	17,725 kilowatt hours

Summary of Energy Use During Operations

(Annually)

Operation Vehicle Fuel	117,378 gallons (gasoline, diesel)
Building Natural Gas	2.48 million kilo-British Thermal Units
Building Electricity	2.15 million kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board. 2019. EMFAC2014 Web Database. March. Website: <https://www.arb.ca.gov/emfac/2014/>. Accessed March 11, 2019

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Contra Costa

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled

FE = Fuel Economy

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Calculations				
						Population VMT (mi/day)	Fuel_Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE	
Contra Costa	2020	LDA	Aggregated	Aggregated	GAS	375941.7	13873675.48	475.5561	29.17358	404744794.6
Contra Costa	2020	LDA	Aggregated	Aggregated	DSL	4037.482	154150.9251	4.146123	37.17954	5731259.976
Contra Costa	2020	LDT1	Aggregated	Aggregated	GAS	28691.82	1000864.831	40.81187	24.52387	24545077.98
Contra Costa	2020	LDT1	Aggregated	Aggregated	DSL	29.62387	694.2283102	0.024293	28.57786	19839.55811
Contra Costa	2020	LDT2	Aggregated	Aggregated	GAS	117533.4	4655122.482	213.7882	21.77446	101362770.2
Contra Costa	2020	LDT2	Aggregated	Aggregated	DSL	188.449	8542.865993	0.293175	29.13912	248931.5561
Contra Costa	2020	MDV	Aggregated	Aggregated	GAS	87641.1	3100544.976	192.6995	16.09005	49887921.93
Contra Costa	2020	MDV	Aggregated	Aggregated	DSL	1220.276	55669.71214	2.511713	22.16404	1233865.781
Contra Costa	2020	LHDT1	Aggregated	Aggregated	GAS	7419.059	222935.3793	23.16166	9.625191	2145795.594
Contra Costa	2020	LHDT1	Aggregated	Aggregated	DSL	6618.41	228776.9056	13.16801	17.37368	3974697.829
Contra Costa	2020	LHDT2	Aggregated	Aggregated	GAS	1041.286	39183.95295	4.448419	8.808513	345152.3577
Contra Costa	2020	LHDT2	Aggregated	Aggregated	DSL	2226.021	88701.94598	5.641779	15.72234	1394601.896
Contra Costa	2020	MHDT	Aggregated	Aggregated	GAS	700.326	37713.19735	5.855984	6.440112	242877.2321
Contra Costa	2020	MHDT	Aggregated	Aggregated	DSL	4716.972	225227.9109	27.23674	8.269267	1862469.704
Contra Costa	2020	HHDT	Aggregated	Aggregated	GAS	35.17952	4605.044124	0.981073	4.693887	21615.55699
Contra Costa	2020	HHDT	Aggregated	Aggregated	DSL	4208.886	575424.7814	99.44635	5.786283	3329570.832

Worker Trips

Sum of VMT*FE (Column BI) **587774461.5**
 Total VMT **22849265.5**
 Weighted Average FE **25.72399806 miles/gallon**

Vendor

Sum of VMT*FE (Column BI) **13316781**
 Total VMT **1678477.386**
 Weighted Average FE **7.933845944 miles/gallon**

Haul

Sum of VMT*FE (Column BI) **3351186.389**
 Total VMT **580029.8255**
 Weighted Average FE **5.777610464 miles/gallon**

Del Hombre Apartments Project Construction Assumptions

AQ/GHG Appendix: CalEEMod Del Hombre Apts Annual & Off-site Roadway Improvements Annual

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days		5
				Week	Num Days	
Demolition	Demolition	7/13/2020	8/23/2020	5	30	5
Site Preparation	Site Preparation	8/24/2020	9/20/2020	5	20	
Grading	Grading	9/21/2020	1/10/2021	5	80	
Building Construction	Building Construction	1/11/2021	5/8/2022	5	345	
Architectural Coating	Architectural Coating	2/14/2022	6/5/2022	5	80	
Paving	Paving	6/6/2022	7/3/2022	5	20	
Off-site Roadway Improvements	Grading	6/6/2022	6/7/2022	5	2	
Off-site Roadway Improvements	Paving	6/8/2022	6/14/2022	5	5	

Trips and VMT	Trips per Day			Total Trips				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor		Num Days	Worker Trip Number	Vendor		Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
					Trip Length	Hauling Trip Length			Trip Number	Trip Number						
Demolition	13	0	4	10.8	7.3	20	30	390	0	4	4,212	0	80	163.74	0.00	0.69
Site Preparation	8	0	0	10.8	7.3	20	20	160	0	0	1,728	0	0	67.17	0.00	0.00
Grading	10	0	3,675	10.8	7.3	20	80	800	0	3,675	8,640	0	73,500	335.87	0.00	636.08
Building Construction	277	59	0	10.8	7.3	20	345	95,565	20,355	0	1,032,102	148,592	0	40,122.15	18,728.81	0.00
Architectural Coating	55	0	0	10.8	7.3	20	80	4,400	0	0	47,520	0	0	1,847.30	0.00	0.00
Paving	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	125.95	0.00	0.00
Off-site Roadway Grading	10	0	0	10.8	7.3	20	2	20	0	0	216	0	0	8.40	0.00	0.00
Off-site Roadway Paving	18	0	0	10.8	7.3	20	5	90	0	0	972	0	0	37.79	0.00	0.00

Total Construction VMT
1,320,802

Total Fuel Consumption (gallons)
62,074

Construction Equipment Fuel Calculation

OffRoad Equipment

Lafayette Terraces - Construction Phase

From CalEEMod

Run	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Diesel Fuel Usage	Notes
Project	Phase Name	Offroad Equipment Type	1	1.90	81	0.73	30	3,370.41	168.52	
Project	Demolition	Concrete/Industrial Saws	1	1.9	158	0.38	30	3,422.28	171.11	
Project	Demolition	Excavators	3	1.0	97	0.37	30	3,230.10	161.51	
Project	Demolition	Tractors/Loaders/Backhoes	1	4.0	187	0.41	20	6,133.60	306.68	
Project	Site Preparation	Graders	1	3.5	97	0.37	20	2,512.30	125.62	
Project	Site Preparation	Tractors/Loaders/Backhoes	1	6.0	158	0.38	80	28,819.20	1,440.96	
Project	Grading	Excavators	1	3.0	402	0.38	80	36,662.40	1,833.12	
Project	Grading	Off-Highway Trucks	2	3.9	97	0.37	80	22,395.36	1,119.77	
Project	Grading	Tractors/Loaders/Backhoes	1	8.0	231	0.29	345	184,892.40	9,244.62	
Project	Building Construction	Cranes	1	7.0	89	0.20	345	42,987.00	0.00	Electric
Project	Building Construction	Forklifts	1	1.3	46	0.45	345	9,283.95	0.00	Liquid propane or compressed natural gas
Project	Building Construction	Welders	1	1.0	63	0.31	80	1,562.40	78.12	
Project	Architectural Coating	Aerial Lifts	5	4.5	78	0.48	80	67,392.00	3,369.60	
Project	Architectural Coating	Air Compressors	1	2.0	130	0.42	20	2,184.00	109.20	
Project	Paving	Pavers	1	2.0	132	0.36	20	1,900.80	95.04	
Project	Paving	Paving Equipment	1	0.8	80	0.38	20	486.40	24.32	
Project	Paving	Rollers	1	1.6	97	0.37	20	1,148.48	57.42	
Project	Paving	Tractors/Loaders/Backhoes	1	8.0	81	0.73	2	946.08	47.30	
Off-site	Grading	Concrete/Industrial Saws	1	1.0	247	0.40	2	197.60	9.88	
Off-site	Grading	Rubber Tired Dozers	2	6.0	97	0.37	2	861.36	43.07	
Off-site	Grading	Tractors/Loaders/Backhoes	4	6.0	9	0.56	5	604.80	30.24	
Off-site	Paving	Cement and Mortar Mixers	1	7.0	130	0.42	5	1,911.00	95.55	
Off-site	Paving	Pavers	1	7.0	80	0.38	5	1,064.00	53.20	
Off-site	Paving	Rollers	1	7.0	97	0.37	5	1,256.15	62.81	
Off-site	Paving	Tractors/Loaders/Backhoes								

Total Construction Equipment Fuel Consumption

18,352.91 gallons

Notes:

Equipment assumptions are provided in the CalEEMod output files.

Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.

Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>. Accessed April 18, 2019.

Construction Schedule**Construction**

Phase Name	Phase Type	Start Date	End Date	Num Days	
				Week	Num Days
Demolition	Demolition	7/13/2020	8/23/2020	5	30
Site Preparation	Site Preparation	8/24/2020	9/20/2020	5	20
Grading	Grading	9/21/2020	1/10/2021	5	80
Building Construction	Building Construction	1/11/2021	5/8/2022	5	345
Architectural Coating	Architectural Coating	2/14/2022	6/5/2022	5	80
Paving	Paving	6/6/2022	7/3/2022	5	20
Off-site Roadway Improver	Grading	6/6/2022	6/7/2022	5	2
Off-site Roadway Improver	Paving	6/8/2022	6/14/2022	5	5

Construction Office Electricity Calculation

Appendix B (Energy): CalEEMod Construction Office Electricity

kWh/yr = kilowatt hours per year

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8985.6	2.0039	1.2000e-004	2.0000e-005	2.0141
Total		2.0039	1.2000e-004	2.0000e-005	2.0141

Start of Construction 7/13/2020
 End of Construction 7/3/2022
 Number of Workdays 515 (non-weekends)
 Days 720
 Days in a year 365
 Years of Construction 1.97260274

Time (year: Electricity Use
 1 year 8,985.60 kWh/yr
 1.972603 **17,725.02 kwWh/yr**

Operation Fuel Calculation

Appendix B (AQ/GHG): CalEEMod Del Hombro Apts ANNUAL

VMT = Vehicle Miles Traveled

FE = Fuel Economy

5
6
7
8
9
0
1
2
3
4
5
6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,800.56	1,965.28	1516.56	4,119,231	4,119,231
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,800.56	1,965.28	1,516.56	4,119,231	4,119,231

VMT 4119231 miles
FE 35.09372 miles/gallon 35.1 miles/gallon was assumed, based on FCS-calculated fuel economy
Fuel consumption **117378 gallons (gasoline, diesel)**

Operation Natural Gas Use

Appendix B (AQ/GHG): CalEEMod Del Hombre Apts ANNUAL

kBTU/yr = kilo-British Thermal Units/year
 CF = cubic feet

5.2 Energy by Land Use - NaturalGas

Mitigated

Land Use	NaturalGas Use kBTU/yr	tons/yr									MT/yr						
		POG	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
Apartments Mid Rise	2.47944e+006	0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987	
Enclosed Parking with Elevator	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	0.0000	
Other Asphalt Surfaces	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	0.0000	
Other Non-Asphalt Surfaces	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	0.0000	
Total		0.0134	0.1143	0.0486	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	0.0000	132.3125	132.3125	2.5400e-003	2.4300e-003	133.0987	

Conversion from kBTU/yr to CF/yr

Abraxas. 2019. Energy Conversion Calculator. Website: <https://www.abraxasenergy.com/energy-resources/toolbox/conversion-calculators/energy/>. Accessed March 11, 2020

Energy Conversion Calculator

Convert From:

2480000000

Btu

Equivalency:

2480000 kBTU/yr

2480000000 BTU/yr

2.43 million CF/yr natural gas

how many decimal places?

Convert

To:

2480000000 Btu

2480000 kBtu

2480 Million BTU

26165487999 Joules

2616548800 kiloJoules

2616548.8 MegaJoules

726816.08 kWh

726.816 MWh

24800 therm

2480 decatherm

24313.722 natural gas CCF

2431372.549 natural gas CF

Operation Electricity Use

Appendix B (AQ/GHG): CalEEMod Del Hombre Apts ANNUAL

kWh/yr = kilowatt hours per year

5.3 Energy by Land Use - Electricity					
Mitigated					
Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Apartments Mid Rise	1.19905e+006	267.3975	0.0158	3.2600e-003	268.7643
Enclosed Parking with Elevator	949320	211.7066	0.0125	2.5800e-003	212.7887
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total	2.15E+06	479.1041	0.0283	5.8400e-003	481.5530

Contra Costa County Energy Use by Sector

Contra Costa County. 2015. Contra Costa County Climate Action Plan.

Website: <http://www.co.contra-costa.ca.us/4554/Climate-Action-Plan>. Accessed February 26, 2019.

Energy Use by Major Industrial Facilities—Electricity and natural gas use by refineries, chemical facilities, and major manufacturing plants in the unincorporated county.

	Electricity (kWh)	%	
residential	478,219,710	41%	41
indu	390,955,560	34%	34
other	284,558,070	25%	25
total	1,153,733,340	100.00%	100.00

Contra Costa County FINAL CAP_201603171314388145.pdf - Adobe Acrobat Standard 2017

Table C.1. Energy Use of Major Industrial Facilities

	2005		2013	
	Electricity (kWh)	Natural Gas (therms)	Electricity (kWh)	Natural Gas (therms)
All nonresidential activities	675,513,630	621,939,360	741,594,630	940,717,040
Major industrial activities	390,955,560	611,688,000	475,377,970	926,932,630
All other nonresidential activities	284,558,070	10,251,360	266,216,660	13,784,410
Percent from major industrial activities	58%	98%	64%	99%

Source: Michael Baker International 2015

Contra Costa County FINAL CAP_201603171314388145.pdf - Adobe Acrobat Standard 2017

#3 Climate Action Plan

Table 3.2. 2013 Activity Data and GHG Emissions by Sector and Subsector

Sector	Subsector	Activity Data	Unit	MTCO ₂ e	Total MTCO ₂ e	Percent of Total MTCO ₂ e
Residential energy	Residential electricity	478,219,710	kWh	93,380	258,420	19%
	Residential natural gas	31,007,110	Therms	165,040		
Nonresidential energy	Nonresidential electricity	266,216,660	kWh	51,980	125,350	9%
	Nonresidential natural gas	13,784,410	Therms	73,370		
Solid waste	Waste disposed	92,780	Tons disposed	26,540	26,540	2%
Landfill	Waste in place	41,785,650	Tons in place	196,500	196,500	14%
On-road transportation	On-road transportation	1,349,279,980	Annual VMT	651,130	651,130	47%
Off-road equipment	Lawn and garden equipment	-	None	3,180	66,230	5%
	Construction equipment	-	None	63,050		

Typical Construction Trailer - Contra Costa County, Annual

**Typical Construction Trailer
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2020	
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Typical construction trailer for estimate of energy usage

Land Use - 12'x60' single-wide unit (720 sq ft)

Construction Phase - Typical construction trailer for energy use estimates - estimates would be included in the operational component of the results

Off-road Equipment - Zeroed out construction equipment

Vehicle Trips - Zeroed out off-site trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

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					
2020	3.7500e-003	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
Maximum	3.7500e-003	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

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					
2020	3.7500e-003	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
Maximum	3.7500e-003	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

	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
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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-13-2020	9-30-2020	0.0027	0.0027
		Highest	0.0027	0.0027

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	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
Unmitigated	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.577244	0.040114	0.186710	0.126359	0.018084	0.005120	0.010527	0.023222	0.001588	0.001850	0.005513	0.002759	0.000910

5.0 Energy Detail

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	2.0039	2.0039	1.2000e-004	2.0000e-005	2.0141
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.0039	2.0039	1.2000e-004	2.0000e-005	2.0141
NaturalGas Mitigated	8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471
NaturalGas Unmitigated	8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471

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					
General Office Building	13917.6	8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471
Total		8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471

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					
General Office Building	13917.6	8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471
Total		8.0000e-005	6.8000e-004	5.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7427	0.7427	1.0000e-005	1.0000e-005	0.7471

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8985.6	2.0039	1.2000e-004	2.0000e-005	2.0141
Total		2.0039	1.2000e-004	2.0000e-005	2.0141

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8985.6	2.0039	1.2000e-004	2.0000e-005	2.0141
Total		2.0039	1.2000e-004	2.0000e-005	2.0141

6.0 Area Detail

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					

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	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2562	4.1800e-003	1.0000e-004	0.3909
Unmitigated	0.2562	4.1800e-003	1.0000e-004	0.3909

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.2562	4.1800e-003	1.0000e-004	0.3909
Total		0.2562	4.1800e-003	1.0000e-004	0.3909

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.2562	4.1800e-003	1.0000e-004	0.3909
Total		0.2562	4.1800e-003	1.0000e-004	0.3909

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1360	8.0400e-003	0.0000	0.3369
Unmitigated	0.1360	8.0400e-003	0.0000	0.3369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		0.1360	8.0400e-003	0.0000	0.3369

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		0.1360	8.0400e-003	0.0000	0.3369

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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