

Appendix A

Air Quality and Greenhouse Gas Modeling Results

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Annual

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	199.00	Space	1.79	79,600.00	0
Fast Food Restaurant with Drive Thru	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	42.45	1000sqft	1.78	42,450.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted per 2030 RPS

Land Use - per project plans

Construction Phase - Per applicant provided information

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Trips and VMT - Haul length per applicant provided information

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per project TIA

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 electricity reduced by 30% per 2019 Title 24

Water And Wastewater - Indoor water use reduced by 20% per 2016 CALGreen; aerobic only

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

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tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	230.00	157.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	8.11	5.68
tblEnergyUse	T24E	4.01	2.81
tblGrading	MaterialImported	0.00	3,444.00
tblLandUse	LotAcreage	0.97	1.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00

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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	DV_TP	40.00	31.00
tblVehicleTrips	PB_TP	15.00	34.00
tblVehicleTrips	PR_TP	45.00	35.00
tblVehicleTrips	WD_TR	496.12	458.67
tblVehicleTrips	WD_TR	44.32	36.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,365,901.71	1,092,721.37

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tblWater	IndoorWaterUseRate	3,144,378.54	2,515,502.83
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-15-2020	10-14-2020	0.4463	0.4463
2	10-15-2020	1-14-2021	0.6490	0.6490
3	1-15-2021	4-14-2021	0.9354	0.9354
4	4-15-2021	7-14-2021	0.7032	0.7032
		Highest	0.9354	0.9354

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003
Energy	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	177.5378	177.5378	6.1500e-003	2.0900e-003	178.3138
Mobile	0.7864	3.7642	7.1246	0.0226	1.7526	0.0191	1.7716	0.4696	0.0178	0.4873	0.0000	2,092.6687	2,092.6687	0.1198	0.0000	2,095.6626
Waste						0.0000	0.0000		0.0000	0.0000	19.5704	0.0000	19.5704	1.1566	0.0000	48.4847
Water						0.0000	0.0000		0.0000	0.0000	1.2766	11.1336	12.4102	4.8700e-003	2.8700e-003	13.3872
Total	0.9795	3.8185	7.1733	0.0229	1.7526	0.0232	1.7758	0.4696	0.0219	0.4915	20.8470	2,281.3461	2,302.1931	1.2874	4.9600e-003	2,335.8548

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003
Energy	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	177.5378	177.5378	6.1500e-003	2.0900e-003	178.3138
Mobile	0.7413	3.4374	5.9841	0.0176	1.3067	0.0152	1.3219	0.3501	0.0142	0.3643	0.0000	1,634.4553	1,634.4553	0.1009	0.0000	1,636.9782
Waste						0.0000	0.0000		0.0000	0.0000	19.5704	0.0000	19.5704	1.1566	0.0000	48.4847
Water						0.0000	0.0000		0.0000	0.0000	1.2766	10.9144	12.1910	4.8600e-003	2.8700e-003	13.1673
Total	0.9344	3.4918	6.0329	0.0180	1.3067	0.0194	1.3260	0.3501	0.0183	0.3684	20.8470	1,822.9136	1,843.7606	1.2685	4.9600e-003	1,876.9505

	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	4.60	8.56	15.90	21.67	25.44	16.47	25.33	25.44	16.30	25.04	0.00	20.09	19.91	1.46	0.00	19.65

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/15/2020	8/15/2020	6	28	
2	Site Preparation	Site Preparation	8/15/2020	9/15/2020	6	27	
3	Grading	Grading	12/1/2020	1/15/2021	6	40	
4	Building Construction	Building Construction	12/15/2020	6/15/2021	6	157	
5	Paving	Paving	4/1/2021	4/15/2021	6	13	
6	Architectural Coating	Architectural Coating	4/1/2021	6/15/2021	6	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,425; Non-Residential Outdoor: 23,475; Striped Parking Area: 4,776 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	8.00	63	0.31
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Aerial Lifts	3	7.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	7.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	112.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	431.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	49.00	21.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	10.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.2153	0.1216	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4209
Total	0.0206	0.2153	0.1216	2.1000e-004	0.0121	0.0112	0.0233	1.8400e-003	0.0103	0.0121	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4209

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3.2 Demolition - 2020

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	1.9000e-004	7.9700e-003	1.3900e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.4681	1.4681	1.5000e-004	0.0000	1.4718
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	6.2000e-004	4.8000e-004	5.3100e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3841	1.3841	4.0000e-005	0.0000	1.3851
Total	8.1000e-004	8.4500e-003	6.7000e-003	3.0000e-005	1.7800e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.8522	2.8522	1.9000e-004	0.0000	2.8569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4600e-003	0.0000	5.4600e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.2153	0.1216	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4208
Total	0.0206	0.2153	0.1216	2.1000e-004	5.4600e-003	0.0112	0.0167	8.3000e-004	0.0103	0.0111	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4208

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3.2 Demolition - 2020

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	1.9000e-004	7.9700e-003	1.3900e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.4681	1.4681	1.5000e-004	0.0000	1.4718
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	6.2000e-004	4.8000e-004	5.3100e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3841	1.3841	4.0000e-005	0.0000	1.3851
Total	8.1000e-004	8.4500e-003	6.7000e-003	3.0000e-005	1.7800e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.8522	2.8522	1.9000e-004	0.0000	2.8569

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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1841	0.0861	1.6000e-004		9.3000e-003	9.3000e-003		8.5800e-003	8.5800e-003	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2119
Total	0.0180	0.1841	0.0861	1.6000e-004	0.0813	9.3000e-003	0.0906	0.0447	8.5800e-003	0.0533	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2119

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3.3 Site Preparation - 2020

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	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685
Total	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0366	0.0000	0.0366	0.0201	0.0000	0.0201	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1841	0.0861	1.6000e-004		9.3000e-003	9.3000e-003		8.5800e-003	8.5800e-003	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2118
Total	0.0180	0.1841	0.0861	1.6000e-004	0.0366	9.3000e-003	0.0459	0.0201	8.5800e-003	0.0287	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2118

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3.3 Site Preparation - 2020

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	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685
Total	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685

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					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0184	0.1975	0.1340	2.5000e-004		9.8500e-003	9.8500e-003		9.0700e-003	9.0700e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168
Total	0.0184	0.1975	0.1340	2.5000e-004	0.0108	9.8500e-003	0.0207	1.1700e-003	9.0700e-003	0.0102	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168

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3.4 Grading - 2020

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	4.8000e-004	0.0207	3.6100e-003	4.0000e-005	8.5000e-004	4.0000e-005	8.9000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	3.8135	3.8135	3.9000e-004	0.0000	3.8231
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	7.8000e-004	6.0000e-004	6.6600e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7350	1.7350	5.0000e-005	0.0000	1.7363
Total	1.2600e-003	0.0213	0.0103	6.0000e-005	2.7800e-003	5.0000e-005	2.8300e-003	7.4000e-004	5.0000e-005	7.9000e-004	0.0000	5.5485	5.5485	4.4000e-004	0.0000	5.5594

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					4.8600e-003	0.0000	4.8600e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0184	0.1975	0.1340	2.5000e-004		9.8500e-003	9.8500e-003		9.0700e-003	9.0700e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168
Total	0.0184	0.1975	0.1340	2.5000e-004	4.8600e-003	9.8500e-003	0.0147	5.3000e-004	9.0700e-003	9.6000e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168

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3.4 Grading - 2020

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	4.8000e-004	0.0207	3.6100e-003	4.0000e-005	8.5000e-004	4.0000e-005	8.9000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	3.8135	3.8135	3.9000e-004	0.0000	3.8231
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	7.8000e-004	6.0000e-004	6.6600e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7350	1.7350	5.0000e-005	0.0000	1.7363
Total	1.2600e-003	0.0213	0.0103	6.0000e-005	2.7800e-003	5.0000e-005	2.8300e-003	7.4000e-004	5.0000e-005	7.9000e-004	0.0000	5.5485	5.5485	4.4000e-004	0.0000	5.5594

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					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2500e-003	0.0878	0.0639	1.2000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000
Total	8.2500e-003	0.0878	0.0639	1.2000e-004	0.0108	4.2600e-003	0.0151	1.1700e-003	3.9200e-003	5.0900e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000

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3.4 Grading - 2021

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	2.2000e-004	9.4700e-003	1.7000e-003	2.0000e-005	7.7000e-004	2.0000e-005	7.9000e-004	2.0000e-004	2.0000e-005	2.1000e-004	0.0000	1.8170	1.8170	1.8000e-004	0.0000	1.8215
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	3.5000e-004	2.6000e-004	2.9500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8084	0.8084	2.0000e-005	0.0000	0.8089
Total	5.7000e-004	9.7300e-003	4.6500e-003	3.0000e-005	1.7000e-003	3.0000e-005	1.7200e-003	4.5000e-004	3.0000e-005	4.6000e-004	0.0000	2.6254	2.6254	2.0000e-004	0.0000	2.6304

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					4.8600e-003	0.0000	4.8600e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2500e-003	0.0878	0.0639	1.2000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000
Total	8.2500e-003	0.0878	0.0639	1.2000e-004	4.8600e-003	4.2600e-003	9.1200e-003	5.3000e-004	3.9200e-003	4.4500e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000

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3.4 Grading - 2021

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	2.2000e-004	9.4700e-003	1.7000e-003	2.0000e-005	7.7000e-004	2.0000e-005	7.9000e-004	2.0000e-004	2.0000e-005	2.1000e-004	0.0000	1.8170	1.8170	1.8000e-004	0.0000	1.8215
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	3.5000e-004	2.6000e-004	2.9500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8084	0.8084	2.0000e-005	0.0000	0.8089
Total	5.7000e-004	9.7300e-003	4.6500e-003	3.0000e-005	1.7000e-003	3.0000e-005	1.7200e-003	4.5000e-004	3.0000e-005	4.6000e-004	0.0000	2.6254	2.6254	2.0000e-004	0.0000	2.6304

3.5 Building Construction - 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					
Off-Road	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9232
Total	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9232

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3.5 Building Construction - 2020

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	5.3000e-004	0.0169	4.2600e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.8532	3.8532	2.6000e-004	0.0000	3.8596
Worker	1.6400e-003	1.2600e-003	0.0139	4.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.6332	3.6332	1.0000e-004	0.0000	3.6358
Total	2.1700e-003	0.0182	0.0182	8.0000e-005	5.0200e-003	1.1000e-004	5.1400e-003	1.3600e-003	1.1000e-004	1.4700e-003	0.0000	7.4864	7.4864	3.6000e-004	0.0000	7.4955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9231
Total	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9231

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3.5 Building Construction - 2020

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	5.3000e-004	0.0169	4.2600e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.8532	3.8532	2.6000e-004	0.0000	3.8596
Worker	1.6400e-003	1.2600e-003	0.0139	4.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.6332	3.6332	1.0000e-004	0.0000	3.6358
Total	2.1700e-003	0.0182	0.0182	8.0000e-005	5.0200e-003	1.1000e-004	5.1400e-003	1.3600e-003	1.1000e-004	1.4700e-003	0.0000	7.4864	7.4864	3.6000e-004	0.0000	7.4955

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	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1169	178.1169	0.0401	0.0000	179.1200
Total	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1169	178.1169	0.0401	0.0000	179.1200

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3.5 Building Construction - 2021

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	4.2900e-003	0.1450	0.0367	3.7000e-004	9.4000e-003	3.0000e-004	9.6900e-003	2.7100e-003	2.8000e-004	2.9900e-003	0.0000	36.2025	36.2025	2.3300e-003	0.0000	36.2608
Worker	0.0145	0.0107	0.1214	3.7000e-004	0.0382	2.9000e-004	0.0385	0.0101	2.7000e-004	0.0104	0.0000	33.2819	33.2819	9.0000e-004	0.0000	33.3043
Total	0.0188	0.1558	0.1581	7.4000e-004	0.0476	5.9000e-004	0.0482	0.0129	5.5000e-004	0.0134	0.0000	69.4844	69.4844	3.2300e-003	0.0000	69.5651

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1167	178.1167	0.0401	0.0000	179.1198
Total	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1167	178.1167	0.0401	0.0000	179.1198

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3.5 Building Construction - 2021

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	4.2900e-003	0.1450	0.0367	3.7000e-004	9.4000e-003	3.0000e-004	9.6900e-003	2.7100e-003	2.8000e-004	2.9900e-003	0.0000	36.2025	36.2025	2.3300e-003	0.0000	36.2608
Worker	0.0145	0.0107	0.1214	3.7000e-004	0.0382	2.9000e-004	0.0385	0.0101	2.7000e-004	0.0104	0.0000	33.2819	33.2819	9.0000e-004	0.0000	33.3043
Total	0.0188	0.1558	0.1581	7.4000e-004	0.0476	5.9000e-004	0.0482	0.0129	5.5000e-004	0.0134	0.0000	69.4844	69.4844	3.2300e-003	0.0000	69.5651

3.6 Paving - 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	2.8500e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0499
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1900e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0499

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3.6 Paving - 2021

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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3111
Total	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3111

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	2.8500e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0498
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1900e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0498

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3.7 Architectural Coating - 2021

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	1.3500e-003	1.0000e-003	0.0113	3.0000e-005	3.5700e-003	3.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	3.1091	3.1091	8.0000e-005	0.0000	3.1112
Total	1.3500e-003	1.0000e-003	0.0113	3.0000e-005	3.5700e-003	3.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	3.1091	3.1091	8.0000e-005	0.0000	3.1112

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

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	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	0.7413	3.4374	5.9841	0.0176	1.3067	0.0152	1.3219	0.3501	0.0142	0.3643	0.0000	1,634.455 3	1,634.455 3	0.1009	0.0000	1,636.978 2
Unmitigated	0.7864	3.7642	7.1246	0.0226	1.7526	0.0191	1.7716	0.4696	0.0178	0.4873	0.0000	2,092.668 7	2,092.668 7	0.1198	0.0000	2,095.662 6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,064.02	3,249.14	2442.24	2,407,179	1,794,728
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,547.73	1,784.60	867.25	2,207,188	1,645,620
Total	3,611.74	5,033.73	3,309.49	4,614,367	3,440,348

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	35	31	34

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Strip Mall	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

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	118.4086	118.4086	5.0200e-003	1.0000e-003	118.8333
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	118.4086	118.4086	5.0200e-003	1.0000e-003	118.8333
NaturalGas Mitigated	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0800e-003	59.4805
NaturalGas Unmitigated	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0800e-003	59.4805

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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					
Fast Food Restaurant with Drive Thru	1.03842e+006	5.6000e-003	0.0509	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4141	55.4141	1.0600e-003	1.0200e-003	55.7433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	69618	3.8000e-004	3.4100e-003	2.8700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7151	3.7151	7.0000e-005	7.0000e-005	3.7372
Total		5.9800e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0900e-003	59.4805

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					
Fast Food Restaurant with Drive Thru	1.03842e+006	5.6000e-003	0.0509	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4141	55.4141	1.0600e-003	1.0200e-003	55.7433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	69618	3.8000e-004	3.4100e-003	2.8700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7151	3.7151	7.0000e-005	7.0000e-005	3.7372
Total		5.9800e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0900e-003	59.4805

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	187695	30.1274	1.2800e-003	2.6000e-004	30.2355
Parking Lot	27860	4.4719	1.9000e-004	4.0000e-005	4.4879
Strip Mall	522135	83.8093	3.5500e-003	7.1000e-004	84.1099
Total		118.4086	5.0200e-003	1.0100e-003	118.8333

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	187695	30.1274	1.2800e-003	2.6000e-004	30.2355
Parking Lot	27860	4.4719	1.9000e-004	4.0000e-005	4.4879
Strip Mall	522135	83.8093	3.5500e-003	7.1000e-004	84.1099
Total		118.4086	5.0200e-003	1.0100e-003	118.8333

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	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	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003
Unmitigated	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003

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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	0.0120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003
Total	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003

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	0.0120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003
Total	0.1871	3.0000e-005	3.1400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5100e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.1910	4.8600e-003	2.8700e-003	13.1673
Unmitigated	12.4102	4.8700e-003	2.8700e-003	13.3872

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.09272 / 0.0871852	2.8259	1.4300e-003	8.6000e-004	3.1185
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.5155 / 1.9272	9.5843	3.4300e-003	2.0100e-003	10.2688
Total		12.4102	4.8600e-003	2.8700e-003	13.3872

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.09272 / 0.0818669	2.8164	1.4300e-003	8.6000e-004	3.1090
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.5155 / 1.80964	9.3746	3.4200e-003	2.0100e-003	10.0584
Total		12.1910	4.8500e-003	2.8700e-003	13.1673

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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.5704	1.1566	0.0000	48.4847
Unmitigated	19.5704	1.1566	0.0000	48.4847

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.57	9.0473	0.5347	0.0000	22.4143
Total		19.5704	1.1566	0.0000	48.4847

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.57	9.0473	0.5347	0.0000	22.4143
Total		19.5704	1.1566	0.0000	48.4847

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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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

2539 East Garvey Avenue Project Proposed
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	199.00	Space	1.79	79,600.00	0
Fast Food Restaurant with Drive Thru	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	42.45	1000sqft	1.78	42,450.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

Project Characteristics - Adjusted per 2030 RPS

Land Use - per project plans

Construction Phase - Per applicant provided information

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Trips and VMT - Haul length per applicant provided information

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per project TIA

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 electricty reduced by 30% per 2019 Title 24

Water And Wastewater - Indoor water use reduced by 20% per 2016 CALGreen; aerobic only

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

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tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	230.00	157.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	8.11	5.68
tblEnergyUse	T24E	4.01	2.81
tblGrading	MaterialImported	0.00	3,444.00
tblLandUse	LotAcreage	0.97	1.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00

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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	DV_TP	40.00	31.00
tblVehicleTrips	PB_TP	15.00	34.00
tblVehicleTrips	PR_TP	45.00	35.00
tblVehicleTrips	WD_TR	496.12	458.67
tblVehicleTrips	WD_TR	44.32	36.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,365,901.71	1,092,721.37

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tblWater	IndoorWaterUseRate	3,144,378.54	2,515,502.83
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
Mobile	6.2487	26.9548	52.0558	0.1704	12.9075	0.1377	13.0451	3.4531	0.1283	3.5814		17,379.7849	17,379.7849	0.9496		17,403.5256
Total	7.3073	27.2527	52.3309	0.1722	12.9075	0.1604	13.0678	3.4531	0.1510	3.6041		17,736.9823	17,736.9823	0.9566	6.5500e-003	17,762.8489

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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
Mobile	5.9160	24.7624	43.0827	0.1330	9.6235	0.1100	9.7334	2.5746	0.1024	2.6770		13,583.1401	13,583.1401	0.7959		13,603.0363
Total	6.9745	25.0603	43.3579	0.1348	9.6235	0.1327	9.7561	2.5746	0.1251	2.6997		13,940.3375	13,940.3375	0.8028	6.5500e-003	13,962.3596

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	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	4.55	8.04	17.15	21.70	25.44	17.26	25.34	25.44	17.12	25.09	0.00	21.41	21.41	16.08	0.00	21.40

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	7/15/2020	8/15/2020	6	28	
2	Site Preparation	Site Preparation	8/15/2020	9/15/2020	6	27	
3	Grading	Grading	12/1/2020	1/15/2021	6	40	
4	Building Construction	Building Construction	12/15/2020	6/15/2021	6	157	
5	Paving	Paving	4/1/2021	4/15/2021	6	13	
6	Architectural Coating	Architectural Coating	4/1/2021	6/15/2021	6	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,425; Non-Residential Outdoor: 23,475; Striped Parking Area: 4,776 (Architectural Coating – sqft)

OffRoad Equipment

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	8.00	63	0.31
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Aerial Lifts	3	7.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	7.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

Trips and VMT

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	112.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	431.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	49.00	21.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	10.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
Fugitive Dust					0.8666	0.0000	0.8666	0.1312	0.0000	0.1312			0.0000			0.0000
Off-Road	1.4726	15.3785	8.6858	0.0148		0.7991	0.7991		0.7352	0.7352		1,438.7617	1,438.7617	0.4653		1,450.3948
Total	1.4726	15.3785	8.6858	0.0148	0.8666	0.7991	1.6657	0.1312	0.7352	0.8664		1,438.7617	1,438.7617	0.4653		1,450.3948

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0129	0.5650	0.0917	1.0900e-003	0.0175	1.0200e-003	0.0186	4.8100e-003	9.8000e-004	5.7900e-003		118.0103	118.0103	0.0113		118.2920
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
Worker	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003		114.4660
Total	0.0577	0.5953	0.4993	2.2400e-003	0.1293	1.8700e-003	0.1312	0.0345	1.7700e-003	0.0362		232.3939	232.3939	0.0146		232.7580

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	lb/day										lb/day					
Fugitive Dust					0.3900	0.0000	0.3900	0.0590	0.0000	0.0590			0.0000			0.0000
Off-Road	1.4726	15.3785	8.6858	0.0148		0.7991	0.7991		0.7352	0.7352	0.0000	1,438.7617	1,438.7617	0.4653		1,450.3948
Total	1.4726	15.3785	8.6858	0.0148	0.3900	0.7991	1.1890	0.0590	0.7352	0.7942	0.0000	1,438.7617	1,438.7617	0.4653		1,450.3948

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0129	0.5650	0.0917	1.0900e-003	0.0175	1.0200e-003	0.0186	4.8100e-003	9.8000e-004	5.7900e-003		118.0103	118.0103	0.0113		118.2920
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
Worker	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003		114.4660
Total	0.0577	0.5953	0.4993	2.2400e-003	0.1293	1.8700e-003	0.1312	0.0345	1.7700e-003	0.0362		232.3939	232.3939	0.0146		232.7580

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	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3363	13.6392	6.3772	0.0120		0.6892	0.6892		0.6354	0.6354		1,151.4553	1,151.4553	0.3592		1,160.4362
Total	1.3363	13.6392	6.3772	0.0120	6.0221	0.6892	6.7112	3.3102	0.6354	3.9457		1,151.4553	1,151.4553	0.3592		1,160.4362

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.3 Site Preparation - 2020

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	lb/day										lb/day					
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
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
Worker	0.0359	0.0243	0.3261	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		91.5069	91.5069	2.6400e-003		91.5728
Total	0.0359	0.0243	0.3261	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		91.5069	91.5069	2.6400e-003		91.5728

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	lb/day										lb/day					
Fugitive Dust					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000			0.0000
Off-Road	1.3363	13.6392	6.3772	0.0120		0.6892	0.6892		0.6354	0.6354	0.0000	1,151.4553	1,151.4553	0.3592		1,160.4362
Total	1.3363	13.6392	6.3772	0.0120	2.7099	0.6892	3.3991	1.4896	0.6354	2.1250	0.0000	1,151.4553	1,151.4553	0.3592		1,160.4362

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.3 Site Preparation - 2020

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	lb/day										lb/day					
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
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
Worker	0.0359	0.0243	0.3261	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		91.5069	91.5069	2.6400e-003		91.5728
Total	0.0359	0.0243	0.3261	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		91.5069	91.5069	2.6400e-003		91.5728

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	lb/day										lb/day					
Fugitive Dust					0.5400	0.0000	0.5400	0.0587	0.0000	0.0587			0.0000			0.0000
Off-Road	1.3640	14.6281	9.9238	0.0184		0.7296	0.7296		0.6720	0.6720		1,767.3010	1,767.3010	0.5640		1,781.4012
Total	1.3640	14.6281	9.9238	0.0184	0.5400	0.7296	1.2696	0.0587	0.6720	0.7307		1,767.3010	1,767.3010	0.5640		1,781.4012

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0347	1.5219	0.2471	2.9300e-003	0.0644	2.7600e-003	0.0671	0.0172	2.6400e-003	0.0198		317.8903	317.8903	0.0304		318.6490
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
Worker	0.0583	0.0394	0.5299	1.4900e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		148.6987	148.6987	4.2900e-003		148.8059
Total	0.0930	1.5613	0.7770	4.4200e-003	0.2097	3.8700e-003	0.2136	0.0557	3.6600e-003	0.0594		466.5890	466.5890	0.0346		467.4549

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	lb/day										lb/day					
Fugitive Dust					0.2430	0.0000	0.2430	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.3640	14.6281	9.9238	0.0184		0.7296	0.7296		0.6720	0.6720	0.0000	1,767.3010	1,767.3010	0.5640		1,781.4012
Total	1.3640	14.6281	9.9238	0.0184	0.2430	0.7296	0.9726	0.0264	0.6720	0.6984	0.0000	1,767.3010	1,767.3010	0.5640		1,781.4012

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0347	1.5219	0.2471	2.9300e-003	0.0644	2.7600e-003	0.0671	0.0172	2.6400e-003	0.0198		317.8903	317.8903	0.0304		318.6490
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
Worker	0.0583	0.0394	0.5299	1.4900e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		148.6987	148.6987	4.2900e-003		148.8059
Total	0.0930	1.5613	0.7770	4.4200e-003	0.2097	3.8700e-003	0.2136	0.0557	3.6600e-003	0.0594		466.5890	466.5890	0.0346		467.4549

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	lb/day										lb/day					
Fugitive Dust					0.5400	0.0000	0.5400	0.0587	0.0000	0.0587			0.0000			0.0000
Off-Road	1.2686	13.5002	9.8335	0.0184		0.6547	0.6547		0.6031	0.6031		1,766.5656	1,766.5656	0.5638		1,780.6598
Total	1.2686	13.5002	9.8335	0.0184	0.5400	0.6547	1.1947	0.0587	0.6031	0.6619		1,766.5656	1,766.5656	0.5638		1,780.6598

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.4 Grading - 2021

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	lb/day										lb/day					
Hauling	0.0329	1.4459	0.2413	2.9000e-003	0.1212	2.4600e-003	0.1237	0.0311	2.3500e-003	0.0335		314.6142	314.6142	0.0294		315.3488
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
Worker	0.0544	0.0355	0.4881	1.4400e-003	0.1453	1.0800e-003	0.1464	0.0385	9.9000e-004	0.0395		143.8968	143.8968	3.8800e-003		143.9937
Total	0.0873	1.4813	0.7294	4.3400e-003	0.2665	3.5400e-003	0.2700	0.0697	3.3400e-003	0.0730		458.5109	458.5109	0.0333		459.3426

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	lb/day										lb/day					
Fugitive Dust					0.2430	0.0000	0.2430	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.2686	13.5002	9.8335	0.0184		0.6547	0.6547		0.6031	0.6031	0.0000	1,766.5655	1,766.5655	0.5638		1,780.6598
Total	1.2686	13.5002	9.8335	0.0184	0.2430	0.6547	0.8977	0.0264	0.6031	0.6296	0.0000	1,766.5655	1,766.5655	0.5638		1,780.6598

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.4 Grading - 2021

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	lb/day										lb/day					
Hauling	0.0329	1.4459	0.2413	2.9000e-003	0.1212	2.4600e-003	0.1237	0.0311	2.3500e-003	0.0335		314.6142	314.6142	0.0294		315.3488
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
Worker	0.0544	0.0355	0.4881	1.4400e-003	0.1453	1.0800e-003	0.1464	0.0385	9.9000e-004	0.0395		143.8968	143.8968	3.8800e-003		143.9937
Total	0.0873	1.4813	0.7294	4.3400e-003	0.2665	3.5400e-003	0.2700	0.0697	3.3400e-003	0.0730		458.5109	458.5109	0.0333		459.3426

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340		2,765.3076	2,765.3076	0.6369		2,781.2291
Total	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340		2,765.3076	2,765.3076	0.6369		2,781.2291

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.5 Building Construction - 2020

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	lb/day										lb/day					
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
Vendor	0.0697	2.2118	0.5380	5.3600e-003	0.1344	0.0110	0.1453	0.0387	0.0105	0.0492		572.8618	572.8618	0.0367		573.7784
Worker	0.2198	0.1486	1.9971	5.6300e-003	0.5477	4.1800e-003	0.5519	0.1453	3.8500e-003	0.1491		560.4798	560.4798	0.0162		560.8836
Total	0.2895	2.3603	2.5352	0.0110	0.6821	0.0151	0.6972	0.1839	0.0143	0.1983		1,133.3416	1,133.3416	0.0528		1,134.6620

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	lb/day										lb/day					
Off-Road	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340	0.0000	2,765.3076	2,765.3076	0.6369		2,781.2291
Total	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340	0.0000	2,765.3076	2,765.3076	0.6369		2,781.2291

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.5 Building Construction - 2020

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	lb/day										lb/day					
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
Vendor	0.0697	2.2118	0.5380	5.3600e-003	0.1344	0.0110	0.1453	0.0387	0.0105	0.0492		572.8618	572.8618	0.0367		573.7784
Worker	0.2198	0.1486	1.9971	5.6300e-003	0.5477	4.1800e-003	0.5519	0.1453	3.8500e-003	0.1491		560.4798	560.4798	0.0162		560.8836
Total	0.2895	2.3603	2.5352	0.0110	0.6821	0.0151	0.6972	0.1839	0.0143	0.1983		1,133.3416	1,133.3416	0.0528		1,134.6620

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	lb/day										lb/day					
Off-Road	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872		2,765.3554	2,765.3554	0.6230		2,780.9297
Total	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872		2,765.3554	2,765.3554	0.6230		2,780.9297

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0591	2.0111	0.4883	5.3100e-003	0.1344	4.1100e-003	0.1385	0.0387	3.9300e-003	0.0426		568.5619	568.5619	0.0352		569.4408
Worker	0.2051	0.1338	1.8398	5.4400e-003	0.5477	4.0500e-003	0.5518	0.1453	3.7300e-003	0.1490		542.3802	542.3802	0.0146		542.7456
Total	0.2642	2.1449	2.3281	0.0108	0.6821	8.1600e-003	0.6902	0.1839	7.6600e-003	0.1916		1,110.9420	1,110.9420	0.0498		1,112.1865

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	lb/day										lb/day					
Off-Road	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872	0.0000	2,765.3554	2,765.3554	0.6230		2,780.9297
Total	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872	0.0000	2,765.3554	2,765.3554	0.6230		2,780.9297

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0591	2.0111	0.4883	5.3100e-003	0.1344	4.1100e-003	0.1385	0.0387	3.9300e-003	0.0426		568.5619	568.5619	0.0352		569.4408
Worker	0.2051	0.1338	1.8398	5.4400e-003	0.5477	4.0500e-003	0.5518	0.1453	3.7300e-003	0.1490		542.3802	542.3802	0.0146		542.7456
Total	0.2642	2.1449	2.3281	0.0108	0.6821	8.1600e-003	0.6902	0.1839	7.6600e-003	0.1916		1,110.9420	1,110.9420	0.0498		1,112.1865

3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.4383	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035		849.5166	849.5166	0.2748		856.3853
Paving	0.3608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7990	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035		849.5166	849.5166	0.2748		856.3853

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.6 Paving - 2021

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	lb/day										lb/day					
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
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
Worker	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822
Total	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822

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	lb/day										lb/day					
Off-Road	0.4383	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035	0.0000	849.5166	849.5166	0.2748		856.3853
Paving	0.3608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7990	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035	0.0000	849.5166	849.5166	0.2748		856.3853

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.6 Paving - 2021

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	lb/day										lb/day					
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
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
Worker	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822
Total	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.7 Architectural Coating - 2021

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	lb/day										lb/day					
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
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
Worker	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644
Total	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644

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	lb/day										lb/day					
Archit. Coating	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

3.7 Architectural Coating - 2021

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	lb/day										lb/day					
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
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
Worker	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644
Total	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

	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	5.9160	24.7624	43.0827	0.1330	9.6235	0.1100	9.7334	2.5746	0.1024	2.6770		13,583.1401	13,583.1401	0.7959		13,603.0363
Unmitigated	6.2487	26.9548	52.0558	0.1704	12.9075	0.1377	13.0451	3.4531	0.1283	3.5814		17,379.7849	17,379.7849	0.9496		17,403.5256

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,064.02	3,249.14	2442.24	2,407,179	1,794,728
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,547.73	1,784.60	867.25	2,207,188	1,645,620
Total	3,611.74	5,033.73	3,309.49	4,614,367	3,440,348

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	35	31	34

4.4 Fleet Mix

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Strip Mall	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

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	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
NaturalGas Unmitigated	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

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					
Fast Food Restaurant with Drive Thru	2844.99	0.0307	0.2789	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.7043	334.7043	6.4200e-003	6.1400e-003	336.6933
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	190.734	2.0600e-003	0.0187	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.4393	22.4393	4.3000e-004	4.1000e-004	22.5727
Total		0.0327	0.2976	0.2500	1.7800e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

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	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	2.84499	0.0307	0.2789	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.7043	334.7043	6.4200e-003	6.1400e-003	336.6933
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.190734	2.0600e-003	0.0187	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.4393	22.4393	4.3000e-004	4.1000e-004	22.5727
Total		0.0327	0.2976	0.2500	1.7800e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Unmitigated	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Summer

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	0.0657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Total	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574

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	0.0657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Total	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

2539 East Garvey Avenue Project Proposed
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	199.00	Space	1.79	79,600.00	0
Fast Food Restaurant with Drive Thru	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	42.45	1000sqft	1.78	42,450.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

Project Characteristics - Adjusted per 2030 RPS

Land Use - per project plans

Construction Phase - Per applicant provided information

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Trips and VMT - Haul length per applicant provided information

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per project TIA

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 electricty reduced by 30% per 2019 Title 24

Water And Wastewater - Indoor water use reduced by 20% per 2016 CALGreen; aerobic only

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	230.00	157.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	8.11	5.68
tblEnergyUse	T24E	4.01	2.81
tblGrading	MaterialImported	0.00	3,444.00
tblLandUse	LotAcreage	0.97	1.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleTrips	DV_TP	40.00	31.00
tblVehicleTrips	PB_TP	15.00	34.00
tblVehicleTrips	PR_TP	45.00	35.00
tblVehicleTrips	WD_TR	496.12	458.67
tblVehicleTrips	WD_TR	44.32	36.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,365,901.71	1,092,721.37

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

tblWater	IndoorWaterUseRate	3,144,378.54	2,515,502.83
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
Mobile	5.9702	27.0047	51.7015	0.1611	12.9075	0.1394	13.0469	3.4531	0.1299	3.5831		16,429.5797	16,429.5797	0.9774		16,454.0148
Total	7.0288	27.3026	51.9766	0.1629	12.9075	0.1621	13.0696	3.4531	0.1527	3.6058		16,786.7771	16,786.7771	0.9844	6.5500e-003	16,813.3381

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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
Mobile	5.6470	24.6893	43.6734	0.1255	9.6235	0.1117	9.7352	2.5746	0.1041	2.6787		12,816.1081	12,816.1081	0.8281		12,836.8104
Total	6.7055	24.9871	43.9486	0.1273	9.6235	0.1344	9.7579	2.5746	0.1268	2.7014		13,173.3056	13,173.3056	0.8351	6.5500e-003	13,196.1337

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

	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	4.60	8.48	15.45	21.82	25.44	17.07	25.34	25.44	16.93	25.08	0.00	21.53	21.53	15.17	0.00	21.51

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	7/15/2020	8/15/2020	6	28	
2	Site Preparation	Site Preparation	8/15/2020	9/15/2020	6	27	
3	Grading	Grading	12/1/2020	1/15/2021	6	40	
4	Building Construction	Building Construction	12/15/2020	6/15/2021	6	157	
5	Paving	Paving	4/1/2021	4/15/2021	6	13	
6	Architectural Coating	Architectural Coating	4/1/2021	6/15/2021	6	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,425; Non-Residential Outdoor: 23,475; Striped Parking Area: 4,776 (Architectural Coating – sqft)

OffRoad Equipment

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	8.00	63	0.31
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Aerial Lifts	3	7.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	7.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

Trips and VMT

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	112.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	431.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	49.00	21.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	10.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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	lb/day										lb/day					
Fugitive Dust					0.8666	0.0000	0.8666	0.1312	0.0000	0.1312			0.0000			0.0000
Off-Road	1.4726	15.3785	8.6858	0.0148		0.7991	0.7991		0.7352	0.7352		1,438.7617	1,438.7617	0.4653		1,450.3948
Total	1.4726	15.3785	8.6858	0.0148	0.8666	0.7991	1.6657	0.1312	0.7352	0.8664		1,438.7617	1,438.7617	0.4653		1,450.3948

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0137	0.5575	0.1084	1.0400e-003	0.0175	1.0800e-003	0.0186	4.8100e-003	1.0300e-003	5.8400e-003		112.2554	112.2554	0.0122		112.5602
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
Worker	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
Total	0.0631	0.5908	0.4780	2.1200e-003	0.1293	1.9300e-003	0.1312	0.0345	1.8200e-003	0.0363		219.5405	219.5405	0.0153		219.9225

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	lb/day										lb/day					
Fugitive Dust					0.3900	0.0000	0.3900	0.0590	0.0000	0.0590			0.0000			0.0000
Off-Road	1.4726	15.3785	8.6858	0.0148		0.7991	0.7991		0.7352	0.7352	0.0000	1,438.7617	1,438.7617	0.4653		1,450.3948
Total	1.4726	15.3785	8.6858	0.0148	0.3900	0.7991	1.1890	0.0590	0.7352	0.7942	0.0000	1,438.7617	1,438.7617	0.4653		1,450.3948

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.2 Demolition - 2020

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	lb/day										lb/day					
Hauling	0.0137	0.5575	0.1084	1.0400e-003	0.0175	1.0800e-003	0.0186	4.8100e-003	1.0300e-003	5.8400e-003		112.2554	112.2554	0.0122		112.5602
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
Worker	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
Total	0.0631	0.5908	0.4780	2.1200e-003	0.1293	1.9300e-003	0.1312	0.0345	1.8200e-003	0.0363		219.5405	219.5405	0.0153		219.9225

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	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3363	13.6392	6.3772	0.0120		0.6892	0.6892		0.6354	0.6354		1,151.4553	1,151.4553	0.3592		1,160.4362
Total	1.3363	13.6392	6.3772	0.0120	6.0221	0.6892	6.7112	3.3102	0.6354	3.9457		1,151.4553	1,151.4553	0.3592		1,160.4362

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.3 Site Preparation - 2020

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	lb/day										lb/day					
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
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
Worker	0.0395	0.0267	0.2957	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		85.8281	85.8281	2.4700e-003		85.8899
Total	0.0395	0.0267	0.2957	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		85.8281	85.8281	2.4700e-003		85.8899

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	lb/day										lb/day					
Fugitive Dust					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000			0.0000
Off-Road	1.3363	13.6392	6.3772	0.0120		0.6892	0.6892		0.6354	0.6354	0.0000	1,151.4553	1,151.4553	0.3592		1,160.4362
Total	1.3363	13.6392	6.3772	0.0120	2.7099	0.6892	3.3991	1.4896	0.6354	2.1250	0.0000	1,151.4553	1,151.4553	0.3592		1,160.4362

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.3 Site Preparation - 2020

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	lb/day										lb/day					
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
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
Worker	0.0395	0.0267	0.2957	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		85.8281	85.8281	2.4700e-003		85.8899
Total	0.0395	0.0267	0.2957	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.3000e-004	0.0243		85.8281	85.8281	2.4700e-003		85.8899

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	lb/day										lb/day					
Fugitive Dust					0.5400	0.0000	0.5400	0.0587	0.0000	0.0587			0.0000			0.0000
Off-Road	1.3640	14.6281	9.9238	0.0184		0.7296	0.7296		0.6720	0.6720		1,767.3010	1,767.3010	0.5640		1,781.4012
Total	1.3640	14.6281	9.9238	0.0184	0.5400	0.7296	1.2696	0.0587	0.6720	0.7307		1,767.3010	1,767.3010	0.5640		1,781.4012

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0369	1.5019	0.2920	2.7900e-003	0.0644	2.9100e-003	0.0673	0.0172	2.7800e-003	0.0199		302.3880	302.3880	0.0328		303.2089
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
Worker	0.0642	0.0433	0.4805	1.4000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		139.4707	139.4707	4.0100e-003		139.5710
Total	0.1011	1.5452	0.7725	4.1900e-003	0.2097	4.0200e-003	0.2137	0.0557	3.8000e-003	0.0595		441.8587	441.8587	0.0369		442.7799

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	lb/day										lb/day					
Fugitive Dust					0.2430	0.0000	0.2430	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.3640	14.6281	9.9238	0.0184		0.7296	0.7296		0.6720	0.6720	0.0000	1,767.3010	1,767.3010	0.5640		1,781.4012
Total	1.3640	14.6281	9.9238	0.0184	0.2430	0.7296	0.9726	0.0264	0.6720	0.6984	0.0000	1,767.3010	1,767.3010	0.5640		1,781.4012

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.4 Grading - 2020

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	lb/day										lb/day					
Hauling	0.0369	1.5019	0.2920	2.7900e-003	0.0644	2.9100e-003	0.0673	0.0172	2.7800e-003	0.0199		302.3880	302.3880	0.0328		303.2089
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
Worker	0.0642	0.0433	0.4805	1.4000e-003	0.1453	1.1100e-003	0.1464	0.0385	1.0200e-003	0.0396		139.4707	139.4707	4.0100e-003		139.5710
Total	0.1011	1.5452	0.7725	4.1900e-003	0.2097	4.0200e-003	0.2137	0.0557	3.8000e-003	0.0595		441.8587	441.8587	0.0369		442.7799

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	lb/day										lb/day					
Fugitive Dust					0.5400	0.0000	0.5400	0.0587	0.0000	0.0587			0.0000			0.0000
Off-Road	1.2686	13.5002	9.8335	0.0184		0.6547	0.6547		0.6031	0.6031		1,766.5656	1,766.5656	0.5638		1,780.6598
Total	1.2686	13.5002	9.8335	0.0184	0.5400	0.6547	1.1947	0.0587	0.6031	0.6619		1,766.5656	1,766.5656	0.5638		1,780.6598

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.4 Grading - 2021

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	lb/day										lb/day					
Hauling	0.0350	1.4262	0.2840	2.7600e-003	0.1212	2.5900e-003	0.1238	0.0311	2.4800e-003	0.0336		299.1983	299.1983	0.0318		299.9925
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
Worker	0.0600	0.0390	0.4418	1.3500e-003	0.1453	1.0800e-003	0.1464	0.0385	9.9000e-004	0.0395		134.9597	134.9597	3.6300e-003		135.0504
Total	0.0950	1.4652	0.7258	4.1100e-003	0.2665	3.6700e-003	0.2702	0.0697	3.4700e-003	0.0731		434.1580	434.1580	0.0354		435.0429

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	lb/day										lb/day					
Fugitive Dust					0.2430	0.0000	0.2430	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	1.2686	13.5002	9.8335	0.0184		0.6547	0.6547		0.6031	0.6031	0.0000	1,766.5655	1,766.5655	0.5638		1,780.6598
Total	1.2686	13.5002	9.8335	0.0184	0.2430	0.6547	0.8977	0.0264	0.6031	0.6296	0.0000	1,766.5655	1,766.5655	0.5638		1,780.6598

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.4 Grading - 2021

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	lb/day										lb/day					
Hauling	0.0350	1.4262	0.2840	2.7600e-003	0.1212	2.5900e-003	0.1238	0.0311	2.4800e-003	0.0336		299.1983	299.1983	0.0318		299.9925
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
Worker	0.0600	0.0390	0.4418	1.3500e-003	0.1453	1.0800e-003	0.1464	0.0385	9.9000e-004	0.0395		134.9597	134.9597	3.6300e-003		135.0504
Total	0.0950	1.4652	0.7258	4.1100e-003	0.2665	3.6700e-003	0.2702	0.0697	3.4700e-003	0.0731		434.1580	434.1580	0.0354		435.0429

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340		2,765.3076	2,765.3076	0.6369		2,781.2291
Total	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340		2,765.3076	2,765.3076	0.6369		2,781.2291

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.5 Building Construction - 2020

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	lb/day										lb/day					
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
Vendor	0.0729	2.2109	0.5962	5.2100e-003	0.1344	0.0111	0.1455	0.0387	0.0106	0.0493		557.2925	557.2925	0.0392		558.2722
Worker	0.2418	0.1632	1.8110	5.2800e-003	0.5477	4.1800e-003	0.5519	0.1453	3.8500e-003	0.1491		525.6971	525.6971	0.0151		526.0754
Total	0.3147	2.3741	2.4071	0.0105	0.6821	0.0153	0.6974	0.1839	0.0145	0.1984		1,082.9897	1,082.9897	0.0543		1,084.3476

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	lb/day										lb/day					
Off-Road	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340	0.0000	2,765.3076	2,765.3076	0.6369		2,781.2291
Total	2.4224	19.6988	18.2136	0.0296		1.0831	1.0831		1.0340	1.0340	0.0000	2,765.3076	2,765.3076	0.6369		2,781.2291

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.5 Building Construction - 2020

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	lb/day										lb/day					
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
Vendor	0.0729	2.2109	0.5962	5.2100e-003	0.1344	0.0111	0.1455	0.0387	0.0106	0.0493		557.2925	557.2925	0.0392		558.2722
Worker	0.2418	0.1632	1.8110	5.2800e-003	0.5477	4.1800e-003	0.5519	0.1453	3.8500e-003	0.1491		525.6971	525.6971	0.0151		526.0754
Total	0.3147	2.3741	2.4071	0.0105	0.6821	0.0153	0.6974	0.1839	0.0145	0.1984		1,082.9897	1,082.9897	0.0543		1,084.3476

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	lb/day										lb/day					
Off-Road	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872		2,765.3554	2,765.3554	0.6230		2,780.9297
Total	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872		2,765.3554	2,765.3554	0.6230		2,780.9297

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0621	2.0064	0.5428	5.1700e-003	0.1344	4.2400e-003	0.1386	0.0387	4.0500e-003	0.0427		553.0849	553.0849	0.0376		554.0243
Worker	0.2260	0.1469	1.6654	5.1000e-003	0.5477	4.0500e-003	0.5518	0.1453	3.7300e-003	0.1490		508.6941	508.6941	0.0137		509.0361
Total	0.2880	2.1533	2.2082	0.0103	0.6821	8.2900e-003	0.6904	0.1839	7.7800e-003	0.1917		1,061.7790	1,061.7790	0.0513		1,063.0604

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	lb/day										lb/day					
Off-Road	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872	0.0000	2,765.3554	2,765.3554	0.6230		2,780.9297
Total	2.1803	18.0324	17.9000	0.0296		0.9296	0.9296		0.8872	0.8872	0.0000	2,765.3554	2,765.3554	0.6230		2,780.9297

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0621	2.0064	0.5428	5.1700e-003	0.1344	4.2400e-003	0.1386	0.0387	4.0500e-003	0.0427		553.0849	553.0849	0.0376		554.0243
Worker	0.2260	0.1469	1.6654	5.1000e-003	0.5477	4.0500e-003	0.5518	0.1453	3.7300e-003	0.1490		508.6941	508.6941	0.0137		509.0361
Total	0.2880	2.1533	2.2082	0.0103	0.6821	8.2900e-003	0.6904	0.1839	7.7800e-003	0.1917		1,061.7790	1,061.7790	0.0513		1,063.0604

3.6 Paving - 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	lb/day										lb/day					
Off-Road	0.4383	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035		849.5166	849.5166	0.2748		856.3853
Paving	0.3608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7990	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035		849.5166	849.5166	0.2748		856.3853

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.6 Paving - 2021

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	lb/day										lb/day					
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
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
Worker	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425
Total	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425

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	lb/day										lb/day					
Off-Road	0.4383	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035	0.0000	849.5166	849.5166	0.2748		856.3853
Paving	0.3608					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7990	4.5353	5.4462	8.7700e-003		0.2212	0.2212		0.2035	0.2035	0.0000	849.5166	849.5166	0.2748		856.3853

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.6 Paving - 2021

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	lb/day										lb/day					
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
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
Worker	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425
Total	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.7 Architectural Coating - 2021

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	lb/day										lb/day					
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
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
Worker	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849
Total	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849

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	lb/day										lb/day					
Archit. Coating	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.6885					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

3.7 Architectural Coating - 2021

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	lb/day										lb/day					
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
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
Worker	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849
Total	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

	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	5.6470	24.6893	43.6734	0.1255	9.6235	0.1117	9.7352	2.5746	0.1041	2.6787		12,816.1081	12,816.1081	0.8281		12,836.8104
Unmitigated	5.9702	27.0047	51.7015	0.1611	12.9075	0.1394	13.0469	3.4531	0.1299	3.5831		16,429.5797	16,429.5797	0.9774		16,454.0148

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,064.02	3,249.14	2442.24	2,407,179	1,794,728
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,547.73	1,784.60	867.25	2,207,188	1,645,620
Total	3,611.74	5,033.73	3,309.49	4,614,367	3,440,348

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	35	31	34

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Strip Mall	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

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	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659
NaturalGas Unmitigated	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

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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					
Fast Food Restaurant with Drive Thru	2844.99	0.0307	0.2789	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.7043	334.7043	6.4200e-003	6.1400e-003	336.6933
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	190.734	2.0600e-003	0.0187	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.4393	22.4393	4.3000e-004	4.1000e-004	22.5727
Total		0.0327	0.2976	0.2500	1.7800e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

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	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	2.84499	0.0307	0.2789	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.7043	334.7043	6.4200e-003	6.1400e-003	336.6933
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.190734	2.0600e-003	0.0187	0.0157	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003		22.4393	22.4393	4.3000e-004	4.1000e-004	22.5727
Total		0.0327	0.2976	0.2500	1.7800e-003		0.0226	0.0226		0.0226	0.0226		357.1436	357.1436	6.8500e-003	6.5500e-003	359.2659

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	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	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004			0.0574
Unmitigated	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004			0.0574

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

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	0.0657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Total	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574

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	0.0657					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574
Total	1.0258	2.3000e-004	0.0252	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0538	0.0538	1.4000e-004		0.0574

7.0 Water Detail

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Winter

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

8.0 Waste Detail**8.1 Mitigation Measures Waste****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

Garvey Avenue Existing - South Coast Air Basin, Annual

**Garvey Avenue Existing
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	24.65	1000sqft	0.57	24,650.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Garvey Avenue Existing - South Coast Air Basin, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Auto dealership/repair modeled as auto care center

Construction Phase - No construction

Off-road Equipment - No construction

Trips and VMT - no construction

Demolition -

Grading -

Vehicle Trips - Trip rate= ITE trip rate for Used Auto Sales

Area Coating - SCAQMD Rule 1113

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	23.72	27.06
tblVehicleTrips	SU_TR	11.88	27.06
tblVehicleTrips	WD_TR	23.72	27.06

2.0 Emissions Summary

Garvey Avenue Existing - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	75.6615	75.6615	2.6000e-003	9.0000e-004	75.9942
Mobile	0.1421	0.6873	1.3352	4.3300e-003	0.3394	3.6200e-003	0.3430	0.0909	3.3800e-003	0.0943	0.0000	400.3245	400.3245	0.0224	0.0000	400.8851
Waste						0.0000	0.0000		0.0000	0.0000	19.1136	0.0000	19.1136	1.1296	0.0000	47.3532
Water						0.0000	0.0000		0.0000	0.0000	0.7357	7.3818	8.1175	0.0759	1.8500e-003	10.5649
Total	0.2395	0.7112	1.3557	4.4700e-003	0.3394	5.4400e-003	0.3448	0.0909	5.2000e-003	0.0961	19.8494	483.3684	503.2178	1.2305	2.7500e-003	534.7980

Garvey Avenue Existing - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	75.6615	75.6615	2.6000e-003	9.0000e-004	75.9942
Mobile	0.1421	0.6873	1.3352	4.3300e-003	0.3394	3.6200e-003	0.3430	0.0909	3.3800e-003	0.0943	0.0000	400.3245	400.3245	0.0224	0.0000	400.8851
Waste						0.0000	0.0000		0.0000	0.0000	19.1136	0.0000	19.1136	1.1296	0.0000	47.3532
Water						0.0000	0.0000		0.0000	0.0000	0.7357	7.3818	8.1175	0.0759	1.8500e-003	10.5649
Total	0.2395	0.7112	1.3557	4.4700e-003	0.3394	5.4400e-003	0.3448	0.0909	5.2000e-003	0.0961	19.8494	483.3684	503.2178	1.2305	2.7500e-003	534.7980

	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No Construction	Site Preparation	7/15/2020	7/16/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Garvey Avenue Existing - South Coast Air Basin, Annual

3.2 No Construction - 2020

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
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
Worker					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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Garvey Avenue Existing - South Coast Air Basin, Annual

	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	0.1421	0.6873	1.3352	4.3300e-003	0.3394	3.6200e-003	0.3430	0.0909	3.3800e-003	0.0943	0.0000	400.3245	400.3245	0.0224	0.0000	400.8851
Unmitigated	0.1421	0.6873	1.3352	4.3300e-003	0.3394	3.6200e-003	0.3430	0.0909	3.3800e-003	0.0943	0.0000	400.3245	400.3245	0.0224	0.0000	400.8851

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	667.03	667.03	667.03	893,520	893,520
Total	667.03	667.03	667.03	893,520	893,520

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: Y

Garvey Avenue Existing - South Coast Air Basin, Annual

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	49.6163	49.6163	2.1000e-003	4.2000e-004	49.7942
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	49.6163	49.6163	2.1000e-003	4.2000e-004	49.7942
NaturalGas Mitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
NaturalGas Unmitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

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					
Automobile Care Center	488070	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

Garvey Avenue Existing - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

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					
Automobile Care Center	488070	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	309111	49.6163	2.1000e-003	4.2000e-004	49.7942
Total		49.6163	2.1000e-003	4.2000e-004	49.7942

Garvey Avenue Existing - South Coast Air Basin, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	309111	49.6163	2.1000e-003	4.2000e-004	49.7942
Total		49.6163	2.1000e-003	4.2000e-004	49.7942

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Garvey Avenue Existing - South Coast Air Basin, Annual

	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	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Unmitigated	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

Garvey Avenue Existing - South Coast Air Basin, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	0.0948	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Garvey Avenue Existing - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.1175	0.0759	1.8500e-003	10.5649
Unmitigated	8.1175	0.0759	1.8500e-003	10.5649

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	2.3191 / 1.42138	8.1175	0.0759	1.8500e-003	10.5649
Total		8.1175	0.0759	1.8500e-003	10.5649

Garvey Avenue Existing - South Coast Air Basin, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	2.3191 / 1.42138	8.1175	0.0759	1.8500e-003	10.5649
Total		8.1175	0.0759	1.8500e-003	10.5649

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.1136	1.1296	0.0000	47.3532
Unmitigated	19.1136	1.1296	0.0000	47.3532

Garvey Avenue Existing - South Coast Air Basin, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	94.16	19.1136	1.1296	0.0000	47.3532
Total		19.1136	1.1296	0.0000	47.3532

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	94.16	19.1136	1.1296	0.0000	47.3532
Total		19.1136	1.1296	0.0000	47.3532

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Garvey Avenue Existing - South Coast Air Basin, Annual

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

Garvey Avenue Existing - South Coast Air Basin, Summer

Garvey Avenue Existing
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	24.65	1000sqft	0.57	24,650.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Garvey Avenue Existing - South Coast Air Basin, Summer

Project Characteristics - Adjusted for 2030 RPS

Land Use - Auto dealership/repair modeled as auto care center

Construction Phase - No construction

Off-road Equipment - No construction

Trips and VMT - no construction

Demolition -

Grading -

Vehicle Trips - Trip rate= ITE trip rate for Used Auto Sales

Area Coating - SCAQMD Rule 1113

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	23.72	27.06
tblVehicleTrips	SU_TR	11.88	27.06
tblVehicleTrips	WD_TR	23.72	27.06

2.0 Emissions Summary

Garvey Avenue Existing - South Coast Air Basin, Summer

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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Energy	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Mobile	0.8472	3.6978	7.4136	0.0247	1.8991	0.0198	1.9189	0.5081	0.0185	0.5265		2,521.1672	2,521.1672	0.1347		2,524.5340
Total	1.3812	3.8289	7.5262	0.0255	1.8991	0.0298	1.9289	0.5081	0.0285	0.5365		2,678.4877	2,678.4877	0.1377	2.8800e-003	2,682.7897

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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Energy	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Mobile	0.8472	3.6978	7.4136	0.0247	1.8991	0.0198	1.9189	0.5081	0.0185	0.5265		2,521.1672	2,521.1672	0.1347		2,524.5340
Total	1.3812	3.8289	7.5262	0.0255	1.8991	0.0298	1.9289	0.5081	0.0285	0.5365		2,678.4877	2,678.4877	0.1377	2.8800e-003	2,682.7897

Garvey Avenue Existing - South Coast Air Basin, Summer

	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No Construction	Site Preparation	7/15/2020	7/16/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
No Construction			0.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

Garvey Avenue Existing - South Coast Air Basin, Summer

3.2 No Construction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Garvey Avenue Existing - South Coast Air Basin, Summer

3.2 No Construction - 2020

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

4.0 Operational Detail - Mobile

Garvey Avenue Existing - South Coast Air Basin, Summer

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	0.8472	3.6978	7.4136	0.0247	1.8991	0.0198	1.9189	0.5081	0.0185	0.5265		2,521.1672	2,521.1672	0.1347		2,524.5340
Unmitigated	0.8472	3.6978	7.4136	0.0247	1.8991	0.0198	1.9189	0.5081	0.0185	0.5265		2,521.1672	2,521.1672	0.1347		2,524.5340

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	667.03	667.03	667.03	893,520	893,520
Total	667.03	667.03	667.03	893,520	893,520

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

Garvey Avenue Existing - South Coast Air Basin, Summer

5.0 Energy Detail

Historical Energy Use: Y

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	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
NaturalGas Unmitigated	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

Garvey Avenue Existing - South Coast Air Basin, Summer

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					
Automobile Care Center	1337.18	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Total		0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

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	lb/day										lb/day					
Automobile Care Center	1.33718	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Total		0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

6.0 Area Detail

6.1 Mitigation Measures Area

Garvey Avenue Existing - South Coast Air Basin, Summer

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Unmitigated	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

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	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Total	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

Garvey Avenue Existing - South Coast Air Basin, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Total	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Garvey Avenue Existing - South Coast Air Basin, Summer

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
----------------	--------

11.0 Vegetation

Garvey Avenue Existing - South Coast Air Basin, Winter

Garvey Avenue Existing
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	24.65	1000sqft	0.57	24,650.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Garvey Avenue Existing - South Coast Air Basin, Winter

Project Characteristics - Adjusted for 2030 RPS

Land Use - Auto dealership/repair modeled as auto care center

Construction Phase - No construction

Off-road Equipment - No construction

Trips and VMT - no construction

Demolition -

Grading -

Vehicle Trips - Trip rate= ITE trip rate for Used Auto Sales

Area Coating - SCAQMD Rule 1113

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	23.72	27.06
tblVehicleTrips	SU_TR	11.88	27.06
tblVehicleTrips	WD_TR	23.72	27.06

2.0 Emissions Summary

Garvey Avenue Existing - South Coast Air Basin, Winter

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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Energy	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Mobile	0.8097	3.7115	7.3123	0.0234	1.8991	0.0201	1.9191	0.5081	0.0187	0.5268		2,384.7294	2,384.7294	0.1381		2,388.1818
Total	1.3437	3.8426	7.4250	0.0242	1.8991	0.0300	1.9291	0.5081	0.0287	0.5367		2,542.0499	2,542.0499	0.1411	2.8800e-003	2,546.4375

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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Energy	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Mobile	0.8097	3.7115	7.3123	0.0234	1.8991	0.0201	1.9191	0.5081	0.0187	0.5268		2,384.7294	2,384.7294	0.1381		2,388.1818
Total	1.3437	3.8426	7.4250	0.0242	1.8991	0.0300	1.9291	0.5081	0.0287	0.5367		2,542.0499	2,542.0499	0.1411	2.8800e-003	2,546.4375

Garvey Avenue Existing - South Coast Air Basin, Winter

	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No Construction	Site Preparation	7/15/2020	7/16/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
No Construction			0.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

Garvey Avenue Existing - South Coast Air Basin, Winter

3.2 No Construction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Garvey Avenue Existing - South Coast Air Basin, Winter

3.2 No Construction - 2020

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

4.0 Operational Detail - Mobile

Garvey Avenue Existing - South Coast Air Basin, Winter

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	0.8097	3.7115	7.3123	0.0234	1.8991	0.0201	1.9191	0.5081	0.0187	0.5268		2,384.7294	2,384.7294	0.1381		2,388.1818
Unmitigated	0.8097	3.7115	7.3123	0.0234	1.8991	0.0201	1.9191	0.5081	0.0187	0.5268		2,384.7294	2,384.7294	0.1381		2,388.1818

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	667.03	667.03	667.03	893,520	893,520
Total	667.03	667.03	667.03	893,520	893,520

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

Garvey Avenue Existing - South Coast Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: Y

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	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
NaturalGas Unmitigated	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

Garvey Avenue Existing - South Coast Air Basin, Winter

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					
Automobile Care Center	1337.18	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Total		0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

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	lb/day										lb/day					
Automobile Care Center	1.33718	0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499
Total		0.0144	0.1311	0.1101	7.9000e-004		9.9600e-003	9.9600e-003		9.9600e-003	9.9600e-003		157.3151	157.3151	3.0200e-003	2.8800e-003	158.2499

6.0 Area Detail

6.1 Mitigation Measures Area

Garvey Avenue Existing - South Coast Air Basin, Winter

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Unmitigated	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

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	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Total	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

Garvey Avenue Existing - South Coast Air Basin, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4881					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003
Total	0.5196	2.0000e-005	2.5200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3900e-003	5.3900e-003	1.0000e-005		5.7500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Garvey Avenue Existing - South Coast Air Basin, Winter

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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South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	199.00	Space	1.79	79,600.00	0
Fast Food Restaurant with Drive Thru	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	42.45	1000sqft	1.78	42,450.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted per 2030 RPS

Land Use - per project plans

Construction Phase - Per applicant provided information

Off-road Equipment -

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information

Trips and VMT - Haul length per applicant provided information

Demolition -

Grading -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Per project TIA

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 electricty reduced by 30% per 2019 Title 24

Water And Wastewater - Indoor water use reduced by 20% per 2016 CALGreen; aerobic only

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50

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tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	230.00	157.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	8.00	40.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDays	5.00	27.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	8.11	5.68
tblEnergyUse	T24E	4.01	2.81
tblFleetMix	HHD	0.03	0.03
tblFleetMix	HHD	0.03	0.03
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.21	0.20
tblFleetMix	LDT2	0.21	0.20

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tblFleetMix	LDT2	0.21	0.20
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.7730e-003	5.8630e-003
tblFleetMix	LHD2	5.7730e-003	5.8630e-003
tblFleetMix	LHD2	5.7730e-003	5.8630e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003

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tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblGrading	MaterialImported	0.00	3,444.00
tblLandUse	LotAcreage	0.97	1.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingTripLength	20.00	5.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerVehicleClass		LD_Mix

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tblVehicleTrips	DV_TP	40.00	31.00
tblVehicleTrips	PB_TP	15.00	34.00
tblVehicleTrips	PR_TP	45.00	35.00
tblVehicleTrips	WD_TR	496.12	458.67
tblVehicleTrips	WD_TR	44.32	36.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,365,901.71	1,092,721.37
tblWater	IndoorWaterUseRate	3,144,378.54	2,515,502.83
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-15-2020	10-14-2020	0.4463	0.4463
2	10-15-2020	1-14-2021	0.6490	0.6490
3	1-15-2021	4-14-2021	0.9354	0.9354
4	4-15-2021	7-14-2021	0.7032	0.7032
		Highest	0.9354	0.9354

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003
Energy	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	177.5378	177.5378	6.1500e-003	2.0900e-003	178.3138
Mobile	0.5105	2.6414	4.5215	0.0183	1.7520	0.0123	1.7643	0.4693	0.0114	0.4807	0.0000	1,707.3439	1,707.3439	0.0800	0.0000	1,709.3447
Waste						0.0000	0.0000		0.0000	0.0000	19.5704	0.0000	19.5704	1.1566	0.0000	48.4847
Water						0.0000	0.0000		0.0000	0.0000	1.2766	11.1336	12.4102	4.8700e-003	2.8700e-003	13.3872
Total	0.7036	2.6958	4.5703	0.0187	1.7520	0.0164	1.7685	0.4693	0.0155	0.4849	20.8470	1,896.0214	1,916.8683	1.2477	4.9600e-003	1,949.5369

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003
Energy	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	177.5378	177.5378	6.1500e-003	2.0900e-003	178.3138
Mobile	0.4794	2.4819	3.7682	0.0143	1.3063	9.9100e-003	1.3162	0.3499	9.1900e-003	0.3591	0.0000	1,336.3715	1,336.3715	0.0667	0.0000	1,338.0394
Waste						0.0000	0.0000		0.0000	0.0000	19.5704	0.0000	19.5704	1.1566	0.0000	48.4847
Water						0.0000	0.0000		0.0000	0.0000	1.2766	10.9144	12.1910	4.8600e-003	2.8700e-003	13.1673
Total	0.6724	2.5362	3.8169	0.0147	1.3063	0.0141	1.3203	0.3499	0.0133	0.3633	20.8470	1,524.8298	1,545.6768	1.2343	4.9600e-003	1,578.0117

	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	4.42	5.92	16.48	21.49	25.44	14.49	25.34	25.44	14.22	25.08	0.00	19.58	19.36	1.07	0.00	19.06

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/15/2020	8/15/2020	6	28	
2	Site Preparation	Site Preparation	8/15/2020	9/15/2020	6	27	
3	Grading	Grading	12/1/2020	1/15/2021	6	40	
4	Building Construction	Building Construction	12/15/2020	6/15/2021	6	157	
5	Paving	Paving	4/1/2021	4/15/2021	6	13	
6	Architectural Coating	Architectural Coating	4/1/2021	6/15/2021	6	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,425; Non-Residential Outdoor: 23,475; Striped Parking Area: 4,776 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	1	8.00	63	0.31
Demolition	Forklifts	1	8.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Aerial Lifts	3	7.00	63	0.31
Building Construction	Air Compressors	2	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	7.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	112.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	431.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	49.00	21.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	10.00	0.00	0.00	14.70	6.90	5.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					0.0121	0.0000	0.0121	1.8400e-003	0.0000	1.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.2153	0.1216	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4209
Total	0.0206	0.2153	0.1216	2.1000e-004	0.0121	0.0112	0.0233	1.8400e-003	0.0103	0.0121	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4209

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3.2 Demolition - 2020

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	1.9000e-004	7.9700e-003	1.3900e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.4681	1.4681	1.5000e-004	0.0000	1.4718
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	6.2000e-004	4.8000e-004	5.3100e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3841	1.3841	4.0000e-005	0.0000	1.3851
Total	8.1000e-004	8.4500e-003	6.7000e-003	3.0000e-005	1.7800e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.8522	2.8522	1.9000e-004	0.0000	2.8569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4600e-003	0.0000	5.4600e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0206	0.2153	0.1216	2.1000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4208
Total	0.0206	0.2153	0.1216	2.1000e-004	5.4600e-003	0.0112	0.0167	8.3000e-004	0.0103	0.0111	0.0000	18.2731	18.2731	5.9100e-003	0.0000	18.4208

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3.2 Demolition - 2020

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	1.9000e-004	7.9700e-003	1.3900e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.4681	1.4681	1.5000e-004	0.0000	1.4718
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	6.2000e-004	4.8000e-004	5.3100e-003	2.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3841	1.3841	4.0000e-005	0.0000	1.3851
Total	8.1000e-004	8.4500e-003	6.7000e-003	3.0000e-005	1.7800e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.8522	2.8522	1.9000e-004	0.0000	2.8569

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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1841	0.0861	1.6000e-004		9.3000e-003	9.3000e-003		8.5800e-003	8.5800e-003	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2119
Total	0.0180	0.1841	0.0861	1.6000e-004	0.0813	9.3000e-003	0.0906	0.0447	8.5800e-003	0.0533	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2119

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3.3 Site Preparation - 2020

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	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685
Total	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0366	0.0000	0.0366	0.0201	0.0000	0.0201	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1841	0.0861	1.6000e-004		9.3000e-003	9.3000e-003		8.5800e-003	8.5800e-003	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2118
Total	0.0180	0.1841	0.0861	1.6000e-004	0.0366	9.3000e-003	0.0459	0.0201	8.5800e-003	0.0287	0.0000	14.1019	14.1019	4.4000e-003	0.0000	14.2118

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3.3 Site Preparation - 2020

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	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685
Total	4.8000e-004	3.7000e-004	4.1000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0677	1.0677	3.0000e-005	0.0000	1.0685

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					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0184	0.1975	0.1340	2.5000e-004		9.8500e-003	9.8500e-003		9.0700e-003	9.0700e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168
Total	0.0184	0.1975	0.1340	2.5000e-004	0.0108	9.8500e-003	0.0207	1.1700e-003	9.0700e-003	0.0102	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168

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3.4 Grading - 2020

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	4.8000e-004	0.0207	3.6100e-003	4.0000e-005	8.5000e-004	4.0000e-005	8.9000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	3.8135	3.8135	3.9000e-004	0.0000	3.8231
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	7.8000e-004	6.0000e-004	6.6600e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7350	1.7350	5.0000e-005	0.0000	1.7363
Total	1.2600e-003	0.0213	0.0103	6.0000e-005	2.7800e-003	5.0000e-005	2.8300e-003	7.4000e-004	5.0000e-005	7.9000e-004	0.0000	5.5485	5.5485	4.4000e-004	0.0000	5.5594

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					4.8600e-003	0.0000	4.8600e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0184	0.1975	0.1340	2.5000e-004		9.8500e-003	9.8500e-003		9.0700e-003	9.0700e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168
Total	0.0184	0.1975	0.1340	2.5000e-004	4.8600e-003	9.8500e-003	0.0147	5.3000e-004	9.0700e-003	9.6000e-003	0.0000	21.6441	21.6441	6.9100e-003	0.0000	21.8168

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3.4 Grading - 2020

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	4.8000e-004	0.0207	3.6100e-003	4.0000e-005	8.5000e-004	4.0000e-005	8.9000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	3.8135	3.8135	3.9000e-004	0.0000	3.8231
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	7.8000e-004	6.0000e-004	6.6600e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7350	1.7350	5.0000e-005	0.0000	1.7363
Total	1.2600e-003	0.0213	0.0103	6.0000e-005	2.7800e-003	5.0000e-005	2.8300e-003	7.4000e-004	5.0000e-005	7.9000e-004	0.0000	5.5485	5.5485	4.4000e-004	0.0000	5.5594

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					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2500e-003	0.0878	0.0639	1.2000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000
Total	8.2500e-003	0.0878	0.0639	1.2000e-004	0.0108	4.2600e-003	0.0151	1.1700e-003	3.9200e-003	5.0900e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000

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3.4 Grading - 2021

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	2.2000e-004	9.4700e-003	1.7000e-003	2.0000e-005	7.7000e-004	2.0000e-005	7.9000e-004	2.0000e-004	2.0000e-005	2.1000e-004	0.0000	1.8170	1.8170	1.8000e-004	0.0000	1.8215
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	3.5000e-004	2.6000e-004	2.9500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8084	0.8084	2.0000e-005	0.0000	0.8089
Total	5.7000e-004	9.7300e-003	4.6500e-003	3.0000e-005	1.7000e-003	3.0000e-005	1.7200e-003	4.5000e-004	3.0000e-005	4.6000e-004	0.0000	2.6254	2.6254	2.0000e-004	0.0000	2.6304

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					4.8600e-003	0.0000	4.8600e-003	5.3000e-004	0.0000	5.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2500e-003	0.0878	0.0639	1.2000e-004		4.2600e-003	4.2600e-003		3.9200e-003	3.9200e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000
Total	8.2500e-003	0.0878	0.0639	1.2000e-004	4.8600e-003	4.2600e-003	9.1200e-003	5.3000e-004	3.9200e-003	4.4500e-003	0.0000	10.4169	10.4169	3.3200e-003	0.0000	10.5000

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3.4 Grading - 2021

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	2.2000e-004	9.4700e-003	1.7000e-003	2.0000e-005	7.7000e-004	2.0000e-005	7.9000e-004	2.0000e-004	2.0000e-005	2.1000e-004	0.0000	1.8170	1.8170	1.8000e-004	0.0000	1.8215
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	3.5000e-004	2.6000e-004	2.9500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8084	0.8084	2.0000e-005	0.0000	0.8089
Total	5.7000e-004	9.7300e-003	4.6500e-003	3.0000e-005	1.7000e-003	3.0000e-005	1.7200e-003	4.5000e-004	3.0000e-005	4.6000e-004	0.0000	2.6254	2.6254	2.0000e-004	0.0000	2.6304

3.5 Building Construction - 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					
Off-Road	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9232
Total	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9232

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3.5 Building Construction - 2020

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	5.3000e-004	0.0169	4.2600e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.8532	3.8532	2.6000e-004	0.0000	3.8596
Worker	1.6400e-003	1.2600e-003	0.0139	4.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.6332	3.6332	1.0000e-004	0.0000	3.6358
Total	2.1700e-003	0.0182	0.0182	8.0000e-005	5.0200e-003	1.1000e-004	5.1400e-003	1.3600e-003	1.1000e-004	1.4700e-003	0.0000	7.4864	7.4864	3.6000e-004	0.0000	7.4955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9231
Total	0.0182	0.1477	0.1366	2.2000e-004		8.1200e-003	8.1200e-003		7.7500e-003	7.7500e-003	0.0000	18.8148	18.8148	4.3300e-003	0.0000	18.9231

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3.5 Building Construction - 2020

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	5.3000e-004	0.0169	4.2600e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0800e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.8532	3.8532	2.6000e-004	0.0000	3.8596
Worker	1.6400e-003	1.2600e-003	0.0139	4.0000e-005	4.0300e-003	3.0000e-005	4.0600e-003	1.0700e-003	3.0000e-005	1.1000e-003	0.0000	3.6332	3.6332	1.0000e-004	0.0000	3.6358
Total	2.1700e-003	0.0182	0.0182	8.0000e-005	5.0200e-003	1.1000e-004	5.1400e-003	1.3600e-003	1.1000e-004	1.4700e-003	0.0000	7.4864	7.4864	3.6000e-004	0.0000	7.4955

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	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1169	178.1169	0.0401	0.0000	179.1200
Total	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1169	178.1169	0.0401	0.0000	179.1200

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3.5 Building Construction - 2021

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	4.2900e-003	0.1450	0.0367	3.7000e-004	9.4000e-003	3.0000e-004	9.6900e-003	2.7100e-003	2.8000e-004	2.9900e-003	0.0000	36.2025	36.2025	2.3300e-003	0.0000	36.2608
Worker	0.0145	0.0107	0.1214	3.7000e-004	0.0382	2.9000e-004	0.0385	0.0101	2.7000e-004	0.0104	0.0000	33.2819	33.2819	9.0000e-004	0.0000	33.3043
Total	0.0188	0.1558	0.1581	7.4000e-004	0.0476	5.9000e-004	0.0482	0.0129	5.5000e-004	0.0134	0.0000	69.4844	69.4844	3.2300e-003	0.0000	69.5651

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1167	178.1167	0.0401	0.0000	179.1198
Total	0.1548	1.2803	1.2709	2.1000e-003		0.0660	0.0660		0.0630	0.0630	0.0000	178.1167	178.1167	0.0401	0.0000	179.1198

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3.5 Building Construction - 2021**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	4.2900e-003	0.1450	0.0367	3.7000e-004	9.4000e-003	3.0000e-004	9.6900e-003	2.7100e-003	2.8000e-004	2.9900e-003	0.0000	36.2025	36.2025	2.3300e-003	0.0000	36.2608
Worker	0.0145	0.0107	0.1214	3.7000e-004	0.0382	2.9000e-004	0.0385	0.0101	2.7000e-004	0.0104	0.0000	33.2819	33.2819	9.0000e-004	0.0000	33.3043
Total	0.0188	0.1558	0.1581	7.4000e-004	0.0476	5.9000e-004	0.0482	0.0129	5.5000e-004	0.0134	0.0000	69.4844	69.4844	3.2300e-003	0.0000	69.5651

3.6 Paving - 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	2.8500e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0499
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1900e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0499

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3.6 Paving - 2021

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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3111
Total	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3109	0.3109	1.0000e-005	0.0000	0.3111

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	2.8500e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0498
Paving	2.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1900e-003	0.0295	0.0354	6.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	5.0093	5.0093	1.6200e-003	0.0000	5.0498

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3.7 Architectural Coating - 2021

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	1.3500e-003	1.0000e-003	0.0113	3.0000e-005	3.5700e-003	3.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	3.1091	3.1091	8.0000e-005	0.0000	3.1112
Total	1.3500e-003	1.0000e-003	0.0113	3.0000e-005	3.5700e-003	3.0000e-005	3.5900e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	3.1091	3.1091	8.0000e-005	0.0000	3.1112

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

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	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	0.4794	2.4819	3.7682	0.0143	1.3063	9.9100e-003	1.3162	0.3499	9.1900e-003	0.3591	0.0000	1,336.3715	1,336.3715	0.0667	0.0000	1,338.0394
Unmitigated	0.5105	2.6414	4.5215	0.0183	1.7520	0.0123	1.7643	0.4693	0.0114	0.4807	0.0000	1,707.3439	1,707.3439	0.0800	0.0000	1,709.3447

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,064.02	3,249.14	2442.24	2,407,179	1,794,728
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,547.73	1,784.60	867.25	2,207,188	1,645,620
Total	3,611.74	5,033.73	3,309.49	4,614,367	3,440,348

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	35	31	34

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Strip Mall	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

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	118.4086	118.4086	5.0200e-003	1.0000e-003	118.8333
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	118.4086	118.4086	5.0200e-003	1.0000e-003	118.8333
NaturalGas Mitigated	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0800e-003	59.4805
NaturalGas Unmitigated	5.9700e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0800e-003	59.4805

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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					
Fast Food Restaurant with Drive Thru	1.03842e+006	5.6000e-003	0.0509	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4141	55.4141	1.0600e-003	1.0200e-003	55.7433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	69618	3.8000e-004	3.4100e-003	2.8700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7151	3.7151	7.0000e-005	7.0000e-005	3.7372
Total		5.9800e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0900e-003	59.4805

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					
Fast Food Restaurant with Drive Thru	1.03842e+006	5.6000e-003	0.0509	0.0428	3.1000e-004		3.8700e-003	3.8700e-003		3.8700e-003	3.8700e-003	0.0000	55.4141	55.4141	1.0600e-003	1.0200e-003	55.7433
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	69618	3.8000e-004	3.4100e-003	2.8700e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7151	3.7151	7.0000e-005	7.0000e-005	3.7372
Total		5.9800e-003	0.0543	0.0456	3.3000e-004		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	59.1291	59.1291	1.1300e-003	1.0900e-003	59.4805

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	187695	30.1274	1.2800e-003	2.6000e-004	30.2355
Parking Lot	27860	4.4719	1.9000e-004	4.0000e-005	4.4879
Strip Mall	522135	83.8093	3.5500e-003	7.1000e-004	84.1099
Total		118.4086	5.0200e-003	1.0100e-003	118.8333

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	187695	30.1274	1.2800e-003	2.6000e-004	30.2355
Parking Lot	27860	4.4719	1.9000e-004	4.0000e-005	4.4879
Strip Mall	522135	83.8093	3.5500e-003	7.1000e-004	84.1099
Total		118.4086	5.0200e-003	1.0100e-003	118.8333

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	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	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003
Unmitigated	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003

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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	0.0120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003
Total	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003

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	0.0120					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003
Total	0.1871	3.0000e-005	3.1200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1000e-003	6.1000e-003	2.0000e-005	0.0000	6.5000e-003

7.0 Water Detail

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7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.1910	4.8600e-003	2.8700e-003	13.1673
Unmitigated	12.4102	4.8700e-003	2.8700e-003	13.3872

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.09272 / 0.0871852	2.8259	1.4300e-003	8.6000e-004	3.1185
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.5155 / 1.9272	9.5843	3.4300e-003	2.0100e-003	10.2688
Total		12.4102	4.8600e-003	2.8700e-003	13.3872

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.09272 / 0.0818669	2.8164	1.4300e-003	8.6000e-004	3.1090
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.5155 / 1.80964	9.3746	3.4200e-003	2.0100e-003	10.0584
Total		12.1910	4.8500e-003	2.8700e-003	13.1673

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Annual

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.5704	1.1566	0.0000	48.4847
Unmitigated	19.5704	1.1566	0.0000	48.4847

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.57	9.0473	0.5347	0.0000	22.4143
Total		19.5704	1.1566	0.0000	48.4847

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.57	9.0473	0.5347	0.0000	22.4143
Total		19.5704	1.1566	0.0000	48.4847

2539 East Garvey Avenue Project Proposed - South Coast Air Basin, Annual

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

Garvey Avenue Existing - South Coast Air Basin, Annual

**Garvey Avenue Existing
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	24.65	1000sqft	0.57	24,650.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Garvey Avenue Existing - South Coast Air Basin, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Auto dealership/repair modeled as auto care center

Construction Phase - No construction

Off-road Equipment - No construction

Trips and VMT - no construction

Demolition -

Grading -

Vehicle Trips - Trip rate= ITE trip rate for Used Auto Sales

Area Coating - SCAQMD Rule 1113

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation - SCAQMD Rule 1113

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	23.72	27.06
tblVehicleTrips	SU_TR	11.88	27.06
tblVehicleTrips	WD_TR	23.72	27.06

2.0 Emissions Summary

Garvey Avenue Existing - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	75.6615	75.6615	2.6000e-003	9.0000e-004	75.9942
Mobile	0.0923	0.4777	0.8493	3.5000e-003	0.3393	2.3300e-003	0.3416	0.0909	2.1600e-003	0.0930	0.0000	326.4231	326.4231	0.0150	0.0000	326.7989
Waste						0.0000	0.0000		0.0000	0.0000	19.1136	0.0000	19.1136	1.1296	0.0000	47.3532
Water						0.0000	0.0000		0.0000	0.0000	0.7357	7.3818	8.1175	0.0759	1.8500e-003	10.5649
Total	0.1898	0.5016	0.8698	3.6400e-003	0.3393	4.1500e-003	0.3434	0.0909	3.9800e-003	0.0949	19.8494	409.4670	429.3163	1.2231	2.7500e-003	460.7119

Garvey Avenue Existing - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Energy	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	75.6615	75.6615	2.6000e-003	9.0000e-004	75.9942
Mobile	0.0923	0.4777	0.8493	3.5000e-003	0.3393	2.3300e-003	0.3416	0.0909	2.1600e-003	0.0930	0.0000	326.4231	326.4231	0.0150	0.0000	326.7989
Waste						0.0000	0.0000		0.0000	0.0000	19.1136	0.0000	19.1136	1.1296	0.0000	47.3532
Water						0.0000	0.0000		0.0000	0.0000	0.7357	7.3818	8.1175	0.0759	1.8500e-003	10.5649
Total	0.1898	0.5016	0.8698	3.6400e-003	0.3393	4.1500e-003	0.3434	0.0909	3.9800e-003	0.0949	19.8494	409.4670	429.3163	1.2231	2.7500e-003	460.7119

	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No Construction	Site Preparation	7/15/2020	7/16/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Garvey Avenue Existing - South Coast Air Basin, Annual

3.2 No Construction - 2020

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
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
Worker					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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Garvey Avenue Existing - South Coast Air Basin, Annual

	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	0.0923	0.4777	0.8493	3.5000e-003	0.3393	2.3300e-003	0.3416	0.0909	2.1600e-003	0.0930	0.0000	326.4231	326.4231	0.0150	0.0000	326.7989
Unmitigated	0.0923	0.4777	0.8493	3.5000e-003	0.3393	2.3300e-003	0.3416	0.0909	2.1600e-003	0.0930	0.0000	326.4231	326.4231	0.0150	0.0000	326.7989

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	667.03	667.03	667.03	893,520	893,520
Total	667.03	667.03	667.03	893,520	893,520

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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: Y

Garvey Avenue Existing - South Coast Air Basin, Annual

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	49.6163	49.6163	2.1000e-003	4.2000e-004	49.7942
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	49.6163	49.6163	2.1000e-003	4.2000e-004	49.7942
NaturalGas Mitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
NaturalGas Unmitigated	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

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					
Automobile Care Center	488070	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

Garvey Avenue Existing - South Coast Air Basin, Annual

5.2 Energy by Land Use - Natural Gas

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					
Automobile Care Center	488070	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001
Total		2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	26.0453	26.0453	5.0000e-004	4.8000e-004	26.2001

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	309111	49.6163	2.1000e-003	4.2000e-004	49.7942
Total		49.6163	2.1000e-003	4.2000e-004	49.7942

Garvey Avenue Existing - South Coast Air Basin, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	309111	49.6163	2.1000e-003	4.2000e-004	49.7942
Total		49.6163	2.1000e-003	4.2000e-004	49.7942

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Garvey Avenue Existing - South Coast Air Basin, Annual

	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	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Unmitigated	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

Garvey Avenue Existing - South Coast Air Basin, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.7100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004
Total	0.0948	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.5000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Garvey Avenue Existing - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.1175	0.0759	1.8500e-003	10.5649
Unmitigated	8.1175	0.0759	1.8500e-003	10.5649

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	2.3191 / 1.42138	8.1175	0.0759	1.8500e-003	10.5649
Total		8.1175	0.0759	1.8500e-003	10.5649

Garvey Avenue Existing - South Coast Air Basin, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	2.3191 / 1.42138	8.1175	0.0759	1.8500e-003	10.5649
Total		8.1175	0.0759	1.8500e-003	10.5649

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.1136	1.1296	0.0000	47.3532
Unmitigated	19.1136	1.1296	0.0000	47.3532

Garvey Avenue Existing - South Coast Air Basin, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	94.16	19.1136	1.1296	0.0000	47.3532
Total		19.1136	1.1296	0.0000	47.3532

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	94.16	19.1136	1.1296	0.0000	47.3532
Total		19.1136	1.1296	0.0000	47.3532

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Garvey Avenue Existing - South Coast Air Basin, Annual

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

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: Garvey Avenue Project (Proposed)

Vehicle Population Breakdown*		VMT per Vehicle Type	
12642012	Gasoline vehicles	3,440,348	Project VMT (CalEEMod output)
662745	Diesel vehicles	3268975	Gasoline vehicle VMT
95.0%	Gasoline vehicle %	171373	Diesel vehicle VMT
5.0%	Diesel vehicle %		

Gasoline Vehicles	
95.0%	Gasoline vehicle %
2.4819	Tons per year mobile NOX emissions (annual output in CalEEMod)
2.36	Gasoline vehicle tons per year NOX emissions
0.1113	Tons per year N2O emissions for gasoline vehicles**
0.1010	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
23.38	Diesel average miles per gallon*
0.06843	grams per mile N2O for diesel vehicles
11727.4	grams per year N2O for diesel vehicles
0.0117274	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.1127	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
33.6	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2017 (v1.0.2) Emissions Inventory Region Type: Air Basin Region: SOUTH COAST Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: Garvey Avenue Project (Existing)

Vehicle Population Breakdown*	
12642012	Gasoline vehicles
662745	Diesel vehicles
95.0%	Gasoline vehicle %
5.0%	Diesel vehicle %

VMT per Vehicle Type	
893,520	Project VMT (CalEEMod output)
849011	Gasoline vehicle VMT
44509	Diesel vehicle VMT

Gasoline Vehicles	
95.0%	Gasoline vehicle %
0.4777	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.45	Gasoline vehicle tons per year NOX emissions
0.0353	Tons per year N2O emissions for gasoline vehicles**
0.0320	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
23.38	Diesel average miles per gallon*
0.06843	grams per mile N2O for diesel vehicles
3045.8	grams per year N2O for diesel vehicles
0.0030458	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0351	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
10.4	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2017 (v1.0.2) Emissions Inventory Region Type: Air Basin Region: SOUTH COAST Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>