

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

Garvey Walnut Mixed Use
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse High Rise	42.00	Dwelling Unit	0.25	42,000.00	120
General Office Building	54.70	1000sqft	0.25	54,700.00	0
Strip Mall	52.74	1000sqft	0.25	52,740.00	0
High Turnover (Sit Down Restaurant)	1.13	1000sqft	0.25	1,130.00	0
Health Club	55.20	1000sqft	0.10	55,200.00	0
Parking Lot	204.00	Space	0.10	81,600.00	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)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - total site acreage is 1.057

Construction Phase - 20 days demo, 4 days grading, 200 days construction, 10 days paving

Demolition - 5000 sf demo

Vehicle Trips - trip rates per tia

Construction Off-road Equipment Mitigation -

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	34.00
tblConstructionPhase	PhaseEndDate	12/10/2021	12/30/2021
tblConstructionPhase	PhaseStartDate	11/27/2021	11/13/2021
tblLandUse	LotAcreage	0.66	0.25
tblLandUse	LotAcreage	1.26	0.25
tblLandUse	LotAcreage	1.21	0.25
tblLandUse	LotAcreage	0.03	0.25
tblLandUse	LotAcreage	1.27	0.10
tblLandUse	LotAcreage	1.84	0.10
tblVehicleTrips	ST_TR	4.31	5.21
tblVehicleTrips	ST_TR	2.46	0.93
tblVehicleTrips	ST_TR	20.87	2.88
tblVehicleTrips	ST_TR	158.37	350.44
tblVehicleTrips	ST_TR	42.04	3.49
tblVehicleTrips	SU_TR	3.43	5.21
tblVehicleTrips	SU_TR	1.05	0.93
tblVehicleTrips	SU_TR	26.73	2.88
tblVehicleTrips	SU_TR	131.84	350.44
tblVehicleTrips	SU_TR	20.43	3.49
tblVehicleTrips	WD_TR	4.18	5.21
tblVehicleTrips	WD_TR	11.03	0.93
tblVehicleTrips	WD_TR	32.93	2.88
tblVehicleTrips	WD_TR	127.15	350.44
tblVehicleTrips	WD_TR	44.32	3.49

2.0 Emissions Summary

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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	15.7111	0.9118	24.8656	0.0547		3.2276	3.2276		3.2276	3.2276	393.4106	762.3197	1,155.7303	1.1795	0.0267	1,193.1739
Energy	0.0732	0.6566	0.4927	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0147	803.5993
Mobile	1.4513	6.7134	15.8006	0.0565	4.5515	0.0442	4.5957	1.2177	0.0412	1.2588		5,754.4944	5,754.4944	0.2823		5,761.5522
Total	17.2356	8.2818	41.1589	0.1152	4.5515	3.3224	7.8739	1.2177	3.3194	4.5370	393.4106	7,315.6661	7,709.0767	1.4771	0.0414	7,758.3253

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	4.7789	0.6674	3.7732	4.1900e-003		0.0700	0.0700		0.0700	0.0700	0.0000	806.7903	806.7903	0.0216	0.0147	811.7029
Energy	0.0732	0.6566	0.4927	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0147	803.5993
Mobile	1.4513	6.7134	15.8006	0.0565	4.5515	0.0442	4.5957	1.2177	0.0412	1.2588		5,754.4944	5,754.4944	0.2823		5,761.5522
Total	6.3035	8.0374	20.0665	0.0647	4.5515	0.1647	4.7163	1.2177	0.1618	1.3794	0.0000	7,360.1367	7,360.1367	0.3192	0.0293	7,376.8543

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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	63.43	2.95	51.25	43.83	0.00	95.04	40.10	0.00	95.13	69.60	100.00	-0.61	4.53	78.39	29.07	4.92

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	1/1/2021	1/28/2021	5	20	
2	Grading	Grading	2/2/2021	2/5/2021	5	4	
3	Building Construction	Building Construction	2/6/2021	11/12/2021	5	200	
4	Paving	Paving	11/13/2021	11/26/2021	5	10	
5	Architectural Coating	Architectural Coating	11/13/2021	12/30/2021	5	34	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.1

Residential Indoor: 85,050; Residential Outdoor: 28,350; Non-Residential Indoor: 245,655; Non-Residential Outdoor: 81,885; Striped Parking Area: 4,896 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	123.00	45.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					0.2461	0.0000	0.2461	0.0373	0.0000	0.0373			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.2461	1.0409	1.2870	0.0373	0.9715	1.0087		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

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3.2 Demolition - 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	8.7400e-003	0.2982	0.0659	8.8000e-004	0.0201	9.3000e-004	0.0210	5.5000e-003	8.9000e-004	6.3900e-003		95.8253	95.8253	6.7500e-003		95.9941
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	0.0632	0.3337	0.5540	2.3200e-003	0.1654	2.0100e-003	0.1674	0.0440	1.8800e-003	0.0459		239.7221	239.7221	0.0106		239.9879

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					0.1107	0.0000	0.1107	0.0168	0.0000	0.0168			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	0.1107	1.0409	1.1516	0.0168	0.9715	0.9882	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

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3.2 Demolition - 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	8.7400e-003	0.2982	0.0659	8.8000e-004	0.0201	9.3000e-004	0.0210	5.5000e-003	8.9000e-004	6.3900e-003		95.8253	95.8253	6.7500e-003		95.9941
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	0.0632	0.3337	0.5540	2.3200e-003	0.1654	2.0100e-003	0.1674	0.0440	1.8800e-003	0.0459		239.7221	239.7221	0.0106		239.9879

3.3 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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.9143	0.6379	5.5522	2.5256	0.5869	3.1125		1,365.0648	1,365.0648	0.4415		1,376.1020

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3.3 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	0.0000	0.0000	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	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
Total	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115

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					2.2114	0.0000	2.2114	1.1365	0.0000	1.1365			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	2.2114	0.6379	2.8493	1.1365	0.5869	1.7234	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020

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3.3 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	0.0000	0.0000	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	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
Total	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115

3.4 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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

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3.4 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	0.1266	4.3095	1.0464	0.0114	0.2879	8.8000e-003	0.2967	0.0829	8.4100e-003	0.0913		1,218.3469	1,218.3469	0.0753		1,220.2304
Worker	0.5148	0.3358	4.6183	0.0137	1.3749	0.0102	1.3850	0.3646	9.3700e-003	0.3740		1,361.4849	1,361.4849	0.0367		1,362.4023
Total	0.6414	4.6453	5.6647	0.0250	1.6628	0.0190	1.6818	0.4475	0.0178	0.4653		2,579.8318	2,579.8318	0.1120		2,582.6326

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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

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3.4 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	0.1266	4.3095	1.0464	0.0114	0.2879	8.8000e-003	0.2967	0.0829	8.4100e-003	0.0913		1,218.3469	1,218.3469	0.0753		1,220.2304
Worker	0.5148	0.3358	4.6183	0.0137	1.3749	0.0102	1.3850	0.3646	9.3700e-003	0.3740		1,361.4849	1,361.4849	0.0367		1,362.4023
Total	0.6414	4.6453	5.6647	0.0250	1.6628	0.0190	1.6818	0.4475	0.0178	0.4653		2,579.8318	2,579.8318	0.1120		2,582.6326

3.5 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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0262					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8001	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442

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3.5 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	0.0544	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	0.0544	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

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	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0262					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8001	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

3.5 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	0.0544	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	0.0544	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

3.6 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	53.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	53.2673	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

3.6 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	0.1046	0.0682	0.9387	2.7800e-003	0.2794	2.0700e-003	0.2815	0.0741	1.9000e-003	0.0760		276.7246	276.7246	7.4600e-003		276.9110
Total	0.1046	0.0682	0.9387	2.7800e-003	0.2794	2.0700e-003	0.2815	0.0741	1.9000e-003	0.0760		276.7246	276.7246	7.4600e-003		276.9110

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	53.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	53.2673	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

3.6 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	0.1046	0.0682	0.9387	2.7800e-003	0.2794	2.0700e-003	0.2815	0.0741	1.9000e-003	0.0760		276.7246	276.7246	7.4600e-003		276.9110
Total	0.1046	0.0682	0.9387	2.7800e-003	0.2794	2.0700e-003	0.2815	0.0741	1.9000e-003	0.0760		276.7246	276.7246	7.4600e-003		276.9110

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Garvey Walnut Mixed Use - 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	1.4513	6.7134	15.8006	0.0565	4.5515	0.0442	4.5957	1.2177	0.0412	1.2588		5,754.494 4	5,754.494 4	0.2823		5,761.552 2
Unmitigated	1.4513	6.7134	15.8006	0.0565	4.5515	0.0442	4.5957	1.2177	0.0412	1.2588		5,754.494 4	5,754.494 4	0.2823		5,761.552 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	218.82	218.82	218.82	747,741	747,741
General Office Building	50.87	50.87	50.87	163,879	163,879
Health Club	158.98	158.98	158.98	340,013	340,013
High Turnover (Sit Down Restaurant)	396.00	396.00	396.00	539,677	539,677
Parking Lot	0.00	0.00	0.00		
Strip Mall	184.06	184.06	184.06	350,197	350,197
Total	1,008.73	1,008.73	1,008.73	2,141,507	2,141,507

4.3 Trip Type Information

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

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
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
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	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	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
General Office Building	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
Health Club	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
High Turnover (Sit Down Restaurant)	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

Garvey Walnut Mixed Use - 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					
NaturalGas Mitigated	0.0732	0.6566	0.4927	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0147	803.5993
NaturalGas Unmitigated	0.0732	0.6566	0.4927	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0147	803.5993

Garvey Walnut Mixed Use - 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					
Condo/Townhouse High Rise	1541.48	0.0166	0.1421	0.0605	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.3503	181.3503	3.4800e-003	3.3200e-003	182.4279
General Office Building	1560.07	0.0168	0.1530	0.1285	9.2000e-004		0.0116	0.0116		0.0116	0.0116		183.5381	183.5381	3.5200e-003	3.3600e-003	184.6288
Health Club	2737.32	0.0295	0.2684	0.2254	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.0371	322.0371	6.1700e-003	5.9000e-003	323.9508
High Turnover (Sit Down Restaurant)	714.408	7.7000e-003	0.0700	0.0588	4.2000e-004		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003		84.0480	84.0480	1.6100e-003	1.5400e-003	84.5474
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	236.969	2.5600e-003	0.0232	0.0195	1.4000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		27.8787	27.8787	5.3000e-004	5.1000e-004	28.0444
Total		0.0732	0.6566	0.4927	4.0000e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0146	803.5993

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

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	lb/day										lb/day					
Condo/Townhouse High Rise	1.54148	0.0166	0.1421	0.0605	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.3503	181.3503	3.4800e-003	3.3200e-003	182.4279
General Office Building	1.56007	0.0168	0.1530	0.1285	9.2000e-004		0.0116	0.0116		0.0116	0.0116		183.5381	183.5381	3.5200e-003	3.3600e-003	184.6288
Health Club	2.73732	0.0295	0.2684	0.2254	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.0371	322.0371	6.1700e-003	5.9000e-003	323.9508
High Turnover (Sit Down Restaurant)	0.714408	7.7000e-003	0.0700	0.0588	4.2000e-004		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003		84.0480	84.0480	1.6100e-003	1.5400e-003	84.5474
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	0.236969	2.5600e-003	0.0232	0.0195	1.4000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003		27.8787	27.8787	5.3000e-004	5.1000e-004	28.0444
Total		0.0732	0.6566	0.4927	4.0000e-003		0.0506	0.0506		0.0506	0.0506		798.8521	798.8521	0.0153	0.0146	803.5993

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Garvey Walnut Mixed Use - 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	4.7789	0.6674	3.7732	4.1900e-003		0.0700	0.0700		0.0700	0.0700	0.0000	806.7903	806.7903	0.0216	0.0147	811.7029
Unmitigated	15.7111	0.9118	24.8656	0.0547		3.2276	3.2276		3.2276	3.2276	393.4106	762.3197	1,155.7303	1.1795	0.0267	1,193.1739

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	0.4942					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1032					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	11.0055	0.8714	21.3592	0.0545		3.2083	3.2083		3.2083	3.2083	393.4106	756.0000	1,149.4106	1.1732	0.0267	1,186.6984
Landscaping	0.1083	0.0404	3.5064	1.9000e-004		0.0193	0.0193		0.0193	0.0193		6.3197	6.3197	6.2300e-003		6.4755
Total	15.7111	0.9118	24.8656	0.0547		3.2276	3.2276		3.2276	3.2276	393.4106	762.3197	1,155.7303	1.1795	0.0267	1,193.1739

Garvey Walnut Mixed Use - 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	0.4942					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.1032					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0734	0.6270	0.2668	4.0000e-003		0.0507	0.0507		0.0507	0.0507	0.0000	800.4706	800.4706	0.0153	0.0147	805.2274
Landscaping	0.1083	0.0404	3.5064	1.9000e-004		0.0193	0.0193		0.0193	0.0193		6.3197	6.3197	6.2300e-003		6.4755
Total	4.7790	0.6674	3.7732	4.1900e-003		0.0700	0.0700		0.0700	0.0700	0.0000	806.7903	806.7903	0.0216	0.0147	811.7029

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

Garvey Walnut Mixed Use - South Coast Air Basin, Summer

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
