

APPENDIX B1

CalEEMod INPUT AND RESULTS FOR AIR QUALITY ANALYSIS

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

Adams Avenue - Phase I Construction
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	119.00	Dwelling Unit	3.13	119,000.00	340

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2025
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

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Affordable housing = 119 units

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client - 2 backhoes and 2 loaders

Off-road Equipment - Full day

Off-road Equipment - Paving equipment

Trips and VMT - Number of truck trips and employees supplied by client

Grading - Material export data supplied by client

Vehicle Trips - Trip rates from VMT Analysis - Technical Memorandum

Construction Off-road Equipment Mitigation - Interim Tier 4 technology for mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	326.00
tblConstructionPhase	NumDays	18.00	17.00
tblGrading	AcresOfGrading	227.50	4.00
tblGrading	MaterialExported	0.00	840.00

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tblOffRoadEquipment	HorsePower	367.00	158.00
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	HaulingTripNumber	105.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	5.02
tblVehicleTrips	SU_TR	5.86	4.60
tblVehicleTrips	WD_TR	6.65	5.22

2.0 Emissions Summary

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1
Energy	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Mobile	0.9489	5.9132	11.4682	0.0553	4.5218	0.0302	4.5519	1.2094	0.0281	1.2375		5,655.172 8	5,655.172 8	0.2230		5,660.746 8
Total	35.0379	8.9398	81.9833	0.2130	4.5218	9.2108	13.7325	1.2094	9.2087	10.4181	1,114.663 3	8,382.294 7	9,496.958 0	3.5749	0.0861	9,611.976 1

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	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1
Energy	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Mobile	0.9489	5.9132	11.4682	0.0553	4.5218	0.0302	4.5519	1.2094	0.0281	1.2375		5,655.172 8	5,655.172 8	0.2230		5,660.746 8
Total	35.0379	8.9398	81.9833	0.2130	4.5218	9.2108	13.7325	1.2094	9.2087	10.4181	1,114.663 3	8,382.294 7	9,496.958 0	3.5749	0.0861	9,611.976 1

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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	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	Grading	Grading	1/1/2023	4/1/2023	5	65	
2	Offsite Improvements	Trenching	4/2/2023	6/1/2023	5	44	
3	Building Construction	Building Construction	6/2/2023	9/1/2024	5	326	
4	Paving	Paving	5/9/2024	6/1/2024	5	17	
5	Painting	Architectural Coating	8/8/2024	9/1/2024	5	17	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 240,975; Residential Outdoor: 80,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Scrapers	4	6.00	158	0.38
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Offsite Improvements	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Offsite Improvements	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Skid Steer Loaders	2	4.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Painting	Air Compressors	1	8.00	78	0.48

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
Grading	8	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Improvements	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	86.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Painting	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5724	0.0000	1.5724	0.8349	0.0000	0.8349			0.0000			0.0000
Off-Road	1.9668	19.8037	17.6288	0.0312		0.9289	0.9289		0.8546	0.8546		3,019.161 2	3,019.161 2	0.9765		3,043.572 7
Total	1.9668	19.8037	17.6288	0.0312	1.5724	0.9289	2.5013	0.8349	0.8546	1.6894		3,019.161 2	3,019.161 2	0.9765		3,043.572 7

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3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9300e-003	0.1152	0.0226	6.6000e-004	0.0161	2.2000e-004	0.0164	4.4300e-003	2.1000e-004	4.6400e-003		70.5252	70.5252	3.3200e-003		70.6081
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	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
Total	0.0653	0.1481	0.4946	2.1500e-003	0.1838	1.1600e-003	0.1850	0.0489	1.0700e-003	0.0500		218.5544	218.5544	6.3900e-003		218.7140

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					0.6132	0.0000	0.6132	0.3256	0.0000	0.3256			0.0000			0.0000
Off-Road	0.8733	14.3615	18.9528	0.0312		0.2934	0.2934		0.2722	0.2722	0.0000	3,019.1612	3,019.1612	0.9765		3,043.5727
Total	0.8733	14.3615	18.9528	0.0312	0.6132	0.2934	0.9066	0.3256	0.2722	0.5978	0.0000	3,019.1612	3,019.1612	0.9765		3,043.5727

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3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9300e-003	0.1152	0.0226	6.6000e-004	0.0161	2.2000e-004	0.0164	4.4300e-003	2.1000e-004	4.6400e-003		70.5252	70.5252	3.3200e-003		70.6081
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	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
Total	0.0653	0.1481	0.4946	2.1500e-003	0.1838	1.1600e-003	0.1850	0.0489	1.0700e-003	0.0500		218.5544	218.5544	6.3900e-003		218.7140

3.3 Offsite Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092		904.7295	904.7295	0.2926		912.0447
Total	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092		904.7295	904.7295	0.2926		912.0447

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.3 Offsite Improvements - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0416	0.0219	0.3147	9.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		98.6861	98.6861	2.0500e-003		98.7373
Total	0.0416	0.0219	0.3147	9.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		98.6861	98.6861	2.0500e-003		98.7373

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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092	0.0000	904.7295	904.7295	0.2926		912.0447
Total	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092	0.0000	904.7295	904.7295	0.2926		912.0447

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3.3 Offsite Improvements - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0416	0.0219	0.3147	9.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		98.6861	98.6861	2.0500e-003		98.7373
Total	0.0416	0.0219	0.3147	9.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		98.6861	98.6861	2.0500e-003		98.7373

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651		1,891.4212	1,891.4212	0.3932		1,901.2502
Total	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651		1,891.4212	1,891.4212	0.3932		1,901.2502

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0217	0.8535	0.1760	3.2500e-003	0.0832	8.6000e-004	0.0841	0.0240	8.2000e-004	0.0248		342.8354	342.8354	0.0185		343.2971
Worker	0.3576	0.1885	2.7065	8.5100e-003	0.9613	5.3800e-003	0.9667	0.2549	4.9600e-003	0.2599		848.7006	848.7006	0.0176		849.1407
Total	0.3793	1.0420	2.8825	0.0118	1.0445	6.2400e-003	1.0508	0.2789	5.7800e-003	0.2847		1,191.5361	1,191.5361	0.0361		1,192.4378

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	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651	0.0000	1,891.4212	1,891.4212	0.3932		1,901.2502
Total	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651	0.0000	1,891.4212	1,891.4212	0.3932		1,901.2502

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0217	0.8535	0.1760	3.2500e-003	0.0832	8.6000e-004	0.0841	0.0240	8.2000e-004	0.0248		342.8354	342.8354	0.0185		343.2971
Worker	0.3576	0.1885	2.7065	8.5100e-003	0.9613	5.3800e-003	0.9667	0.2549	4.9600e-003	0.2599		848.7006	848.7006	0.0176		849.1407
Total	0.3793	1.0420	2.8825	0.0118	1.0445	6.2400e-003	1.0508	0.2789	5.7800e-003	0.2847		1,191.5361	1,191.5361	0.0361		1,192.4378

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092		1,891.5393	1,891.5393	0.3896		1,901.2780
Total	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092		1,891.5393	1,891.5393	0.3896		1,901.2780

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3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0213	0.8488	0.1700	3.2300e-003	0.0832	8.5000e-004	0.0841	0.0240	8.2000e-004	0.0248		341.4942	341.4942	0.0181		341.9459
Worker	0.3370	0.1709	2.5378	8.2100e-003	0.9613	5.3300e-003	0.9666	0.2549	4.9000e-003	0.2598		818.4031	818.4031	0.0161		818.8044
Total	0.3583	1.0198	2.7077	0.0114	1.0445	6.1800e-003	1.0507	0.2789	5.7200e-003	0.2846		1,159.8973	1,159.8973	0.0341		1,160.7502

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	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092	0.0000	1,891.5393	1,891.5393	0.3896		1,901.2780
Total	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092	0.0000	1,891.5393	1,891.5393	0.3896		1,901.2780

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0213	0.8488	0.1700	3.2300e-003	0.0832	8.5000e-004	0.0841	0.0240	8.2000e-004	0.0248		341.4942	341.4942	0.0181		341.9459
Worker	0.3370	0.1709	2.5378	8.2100e-003	0.9613	5.3300e-003	0.9666	0.2549	4.9000e-003	0.2598		818.4031	818.4031	0.0161		818.8044
Total	0.3583	1.0198	2.7077	0.0114	1.0445	6.1800e-003	1.0507	0.2789	5.7200e-003	0.2846		1,159.8973	1,159.8973	0.0341		1,160.7502

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630		1,319.1620	1,319.1620	0.4100		1,329.4121
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630		1,319.1620	1,319.1620	0.4100		1,329.4121

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0196	9.9400e-003	0.1475	4.8000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		47.5816	47.5816	9.3000e-004		47.6049
Total	0.0196	9.9400e-003	0.1475	4.8000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		47.5816	47.5816	9.3000e-004		47.6049

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	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630	0.0000	1,319.1620	1,319.1620	0.4100		1,329.4121
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630	0.0000	1,319.1620	1,319.1620	0.4100		1,329.4121

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0196	9.9400e-003	0.1475	4.8000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		47.5816	47.5816	9.3000e-004		47.6049
Total	0.0196	9.9400e-003	0.1475	4.8000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		47.5816	47.5816	9.3000e-004		47.6049

3.6 Painting - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.8008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	44.0418	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.6 Painting - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0666	0.0338	0.5017	1.6200e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		161.7774	161.7774	3.1700e-003		161.8567
Total	0.0666	0.0338	0.5017	1.6200e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		161.7774	161.7774	3.1700e-003		161.8567

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	43.8008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	44.0418	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

3.6 Painting - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0666	0.0338	0.5017	1.6200e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		161.7774	161.7774	3.1700e-003		161.8567
Total	0.0666	0.0338	0.5017	1.6200e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		161.7774	161.7774	3.1700e-003		161.8567

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.9489	5.9132	11.4682	0.0553	4.5218	0.0302	4.5519	1.2094	0.0281	1.2375		5,655.1728	5,655.1728	0.2230		5,660.7468
Unmitigated	0.9489	5.9132	11.4682	0.0553	4.5218	0.0302	4.5519	1.2094	0.0281	1.2375		5,655.1728	5,655.1728	0.2230		5,660.7468

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	621.18	597.38	547.40	2,073,776	2,073,776
Total	621.18	597.38	547.40	2,073,776	2,073,776

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

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	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
NaturalGas Unmitigated	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4823.28	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

Adams Avenue - Phase I Construction - Riverside-South Coast County, Summer

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	lb/day										lb/day					
Apartments Mid Rise	4.82328	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131
Unmitigated	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.2040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	31.1823	2.4691	60.5177	0.1544		9.0902	9.0902		9.0902	9.0902	1,114.663 3	2,142.000 0	3,256.663 3	3.3241	0.0757	3,362.312 1
Landscaping	0.2945	0.1130	9.8084	5.2000e-004		0.0544	0.0544		0.0544	0.0544		17.6777	17.6777	0.0169		18.1009
Total	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.2040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	31.1823	2.4691	60.5177	0.1544		9.0902	9.0902		9.0902	9.0902	1,114.6633	2,142.0000	3,256.6633	3.3241	0.0757	3,362.3121
Landscaping	0.2945	0.1130	9.8084	5.2000e-004		0.0544	0.0544		0.0544	0.0544		17.6777	17.6777	0.0169		18.1009
Total	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131

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

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

Adams Avenue - Phase I Construction
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	119.00	Dwelling Unit	3.13	119,000.00	340

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2025
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

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Affordable housing = 119 units

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client - 2 backhoes and 2 loaders

Off-road Equipment - Full day

Off-road Equipment - Paving equipment

Trips and VMT - Number of truck trips and employees supplied by client

Grading - Material export data supplied by client

Vehicle Trips - Trip rates from VMT Analysis - Technical Memorandum

Construction Off-road Equipment Mitigation - Interim Tier 4 technology for mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	18.00	17.00
tblConstructionPhase	NumDays	230.00	326.00
tblConstructionPhase	NumDays	18.00	17.00
tblGrading	AcresOfGrading	227.50	4.00
tblGrading	MaterialExported	0.00	840.00

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

tblOffRoadEquipment	HorsePower	367.00	158.00
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	HaulingTripNumber	105.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	5.02
tblVehicleTrips	SU_TR	5.86	4.60
tblVehicleTrips	WD_TR	6.65	5.22

2.0 Emissions Summary

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1
Energy	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Mobile	0.7979	5.8835	9.8588	0.0511	4.5218	0.0304	4.5521	1.2094	0.0283	1.2377		5,233.191 5	5,233.191 5	0.2289		5,238.914 6
Total	34.8869	8.9100	80.3740	0.2088	4.5218	9.2109	13.7327	1.2094	9.2088	10.4182	1,114.663 3	7,960.313 3	9,074.976 6	3.5809	0.0861	9,190.143 9

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	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1
Energy	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Mobile	0.7979	5.8835	9.8588	0.0511	4.5218	0.0304	4.5521	1.2094	0.0283	1.2377		5,233.191 5	5,233.191 5	0.2289		5,238.914 6
Total	34.8869	8.9100	80.3740	0.2088	4.5218	9.2109	13.7327	1.2094	9.2088	10.4182	1,114.663 3	7,960.313 3	9,074.976 6	3.5809	0.0861	9,190.143 9

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	Grading	Grading	1/1/2023	4/1/2023	5	65	
2	Offsite Improvements	Trenching	4/2/2023	6/1/2023	5	44	
3	Building Construction	Building Construction	6/2/2023	9/1/2024	5	326	
4	Paving	Paving	5/9/2024	6/1/2024	5	17	
5	Painting	Architectural Coating	8/8/2024	9/1/2024	5	17	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 240,975; Residential Outdoor: 80,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Scrapers	4	6.00	158	0.38
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Offsite Improvements	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Offsite Improvements	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Skid Steer Loaders	2	4.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Painting	Air Compressors	1	8.00	78	0.48

Trips and VMT

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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
Grading	8	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Improvements	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	86.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Painting	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5724	0.0000	1.5724	0.8349	0.0000	0.8349			0.0000			0.0000
Off-Road	1.9668	19.8037	17.6288	0.0312		0.9289	0.9289		0.8546	0.8546		3,019.1612	3,019.1612	0.9765		3,043.5727
Total	1.9668	19.8037	17.6288	0.0312	1.5724	0.9289	2.5013	0.8349	0.8546	1.6894		3,019.1612	3,019.1612	0.9765		3,043.5727

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0900e-003	0.1145	0.0254	6.5000e-004	0.0161	2.2000e-004	0.0164	4.4300e-003	2.1000e-004	4.6400e-003		68.7555	68.7555	3.5900e-003		68.8452
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	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
Total	0.0647	0.1485	0.4053	1.9800e-003	0.1838	1.1600e-003	0.1850	0.0489	1.0700e-003	0.0500		201.5673	201.5673	6.2700e-003		201.7239

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					0.6132	0.0000	0.6132	0.3256	0.0000	0.3256			0.0000			0.0000
Off-Road	0.8733	14.3615	18.9528	0.0312		0.2934	0.2934		0.2722	0.2722	0.0000	3,019.1612	3,019.1612	0.9765		3,043.5727
Total	0.8733	14.3615	18.9528	0.0312	0.6132	0.2934	0.9066	0.3256	0.2722	0.5978	0.0000	3,019.1612	3,019.1612	0.9765		3,043.5727

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0900e-003	0.1145	0.0254	6.5000e-004	0.0161	2.2000e-004	0.0164	4.4300e-003	2.1000e-004	4.6400e-003		68.7555	68.7555	3.5900e-003		68.8452
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	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
Total	0.0647	0.1485	0.4053	1.9800e-003	0.1838	1.1600e-003	0.1850	0.0489	1.0700e-003	0.0500		201.5673	201.5673	6.2700e-003		201.7239

3.3 Offsite Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092		904.7295	904.7295	0.2926		912.0447
Total	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092		904.7295	904.7295	0.2926		912.0447

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.3 Offsite Improvements - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0411	0.0227	0.2533	8.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		88.5412	88.5412	1.7800e-003		88.5858
Total	0.0411	0.0227	0.2533	8.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		88.5412	88.5412	1.7800e-003		88.5858

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	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092	0.0000	904.7295	904.7295	0.2926		912.0447
Total	0.4541	4.6070	6.6940	9.3500e-003		0.2274	0.2274		0.2092	0.2092	0.0000	904.7295	904.7295	0.2926		912.0447

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.3 Offsite Improvements - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0411	0.0227	0.2533	8.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		88.5412	88.5412	1.7800e-003		88.5858
Total	0.0411	0.0227	0.2533	8.9000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		88.5412	88.5412	1.7800e-003		88.5858

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651		1,891.4212	1,891.4212	0.3932		1,901.2502
Total	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651		1,891.4212	1,891.4212	0.3932		1,901.2502

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0230	0.8419	0.2032	3.1300e-003	0.0832	8.9000e-004	0.0841	0.0240	8.5000e-004	0.0248		330.0734	330.0734	0.0205		330.5852
Worker	0.3531	0.1948	2.1782	7.6400e-003	0.9613	5.3800e-003	0.9667	0.2549	4.9600e-003	0.2599		761.4544	761.4544	0.0153		761.8379
Total	0.3761	1.0367	2.3814	0.0108	1.0445	6.2700e-003	1.0508	0.2789	5.8100e-003	0.2847		1,091.5278	1,091.5278	0.0358		1,092.4232

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	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651	0.0000	1,891.4212	1,891.4212	0.3932		1,901.2502
Total	1.1758	10.6427	11.1852	0.0201		0.4896	0.4896		0.4651	0.4651	0.0000	1,891.4212	1,891.4212	0.3932		1,901.2502

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0230	0.8419	0.2032	3.1300e-003	0.0832	8.9000e-004	0.0841	0.0240	8.5000e-004	0.0248		330.0734	330.0734	0.0205		330.5852
Worker	0.3531	0.1948	2.1782	7.6400e-003	0.9613	5.3800e-003	0.9667	0.2549	4.9600e-003	0.2599		761.4544	761.4544	0.0153		761.8379
Total	0.3761	1.0367	2.3814	0.0108	1.0445	6.2700e-003	1.0508	0.2789	5.8100e-003	0.2847		1,091.5278	1,091.5278	0.0358		1,092.4232

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092		1,891.5393	1,891.5393	0.3896		1,901.2780
Total	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092		1,891.5393	1,891.5393	0.3896		1,901.2780

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0226	0.8374	0.1967	3.1200e-003	0.0832	8.8000e-004	0.0841	0.0240	8.4000e-004	0.0248		328.9017	328.9017	0.0200		329.4023
Worker	0.3338	0.1766	2.0378	7.3600e-003	0.9613	5.3300e-003	0.9666	0.2549	4.9000e-003	0.2598		734.1591	734.1591	0.0140		734.5090
Total	0.3563	1.0139	2.2345	0.0105	1.0445	6.2100e-003	1.0507	0.2789	5.7400e-003	0.2847		1,063.0608	1,063.0608	0.0340		1,063.9113

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	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092	0.0000	1,891.5393	1,891.5393	0.3896		1,901.2780
Total	1.0979	9.9471	11.1025	0.0201		0.4310	0.4310		0.4092	0.4092	0.0000	1,891.5393	1,891.5393	0.3896		1,901.2780

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0226	0.8374	0.1967	3.1200e-003	0.0832	8.8000e-004	0.0841	0.0240	8.4000e-004	0.0248		328.9017	328.9017	0.0200		329.4023
Worker	0.3338	0.1766	2.0378	7.3600e-003	0.9613	5.3300e-003	0.9666	0.2549	4.9000e-003	0.2598		734.1591	734.1591	0.0140		734.5090
Total	0.3563	1.0139	2.2345	0.0105	1.0445	6.2100e-003	1.0507	0.2789	5.7400e-003	0.2847		1,063.0608	1,063.0608	0.0340		1,063.9113

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630		1,319.1620	1,319.1620	0.4100		1,329.4121
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630		1,319.1620	1,319.1620	0.4100		1,329.4121

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0194	0.0103	0.1185	4.3000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		42.6837	42.6837	8.1000e-004		42.7040
Total	0.0194	0.0103	0.1185	4.3000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		42.6837	42.6837	8.1000e-004		42.7040

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	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630	0.0000	1,319.1620	1,319.1620	0.4100		1,329.4121
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6485	6.0077	8.9061	0.0139		0.2840	0.2840		0.2630	0.2630	0.0000	1,319.1620	1,319.1620	0.4100		1,329.4121

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0194	0.0103	0.1185	4.3000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		42.6837	42.6837	8.1000e-004		42.7040
Total	0.0194	0.0103	0.1185	4.3000e-004	0.0559	3.1000e-004	0.0562	0.0148	2.9000e-004	0.0151		42.6837	42.6837	8.1000e-004		42.7040

3.6 Painting - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.8008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	44.0418	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.6 Painting - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0660	0.0349	0.4028	1.4500e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		145.1245	145.1245	2.7700e-003		145.1936
Total	0.0660	0.0349	0.4028	1.4500e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		145.1245	145.1245	2.7700e-003		145.1936

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	43.8008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	44.0418	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

3.6 Painting - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0660	0.0349	0.4028	1.4500e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		145.1245	145.1245	2.7700e-003		145.1936
Total	0.0660	0.0349	0.4028	1.4500e-003	0.1900	1.0500e-003	0.1911	0.0504	9.7000e-004	0.0514		145.1245	145.1245	2.7700e-003		145.1936

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.7979	5.8835	9.8588	0.0511	4.5218	0.0304	4.5521	1.2094	0.0283	1.2377		5,233.1915	5,233.1915	0.2289		5,238.9146
Unmitigated	0.7979	5.8835	9.8588	0.0511	4.5218	0.0304	4.5521	1.2094	0.0283	1.2377		5,233.1915	5,233.1915	0.2289		5,238.9146

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	621.18	597.38	547.40	2,073,776	2,073,776
Total	621.18	597.38	547.40	2,073,776	2,073,776

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

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	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
NaturalGas Unmitigated	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4823.28	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

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	lb/day										lb/day					
Apartments Mid Rise	4.82328	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131
Unmitigated	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.2040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	31.1823	2.4691	60.5177	0.1544		9.0902	9.0902		9.0902	9.0902	1,114.663 3	2,142.000 0	3,256.663 3	3.3241	0.0757	3,362.312 1
Landscaping	0.2945	0.1130	9.8084	5.2000e-004		0.0544	0.0544		0.0544	0.0544		17.6777	17.6777	0.0169		18.1009
Total	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.663 3	2,159.677 7	3,274.341 0	3.3411	0.0757	3,380.413 1

Adams Avenue - Phase I Construction - Riverside-South Coast County, 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	0.2040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	31.1823	2.4691	60.5177	0.1544		9.0902	9.0902		9.0902	9.0902	1,114.6633	2,142.0000	3,256.6633	3.3241	0.0757	3,362.3121
Landscaping	0.2945	0.1130	9.8084	5.2000e-004		0.0544	0.0544		0.0544	0.0544		17.6777	17.6777	0.0169		18.1009
Total	34.0370	2.5820	70.3260	0.1549		9.1446	9.1446		9.1446	9.1446	1,114.6633	2,159.6777	3,274.3410	3.3411	0.0757	3,380.4131

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

Adams Avenue - Phase I Construction - Riverside-South Coast County, Winter

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

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

Adams Avenue - Phase II Construction
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	81.00	Dwelling Unit	2.13	81,000.00	232

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
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

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Senior housing = 81 units

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Full day

Off-road Equipment - Paving equipment

Trips and VMT - Number of truck trips supplied by client

Grading - Entire lot is 22 acres

Vehicle Trips - CalEEMod glitch

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	6.00	35.00
tblConstructionPhase	PhaseEndDate	8/12/2024	7/18/2025
tblConstructionPhase	PhaseEndDate	7/15/2024	7/19/2025
tblConstructionPhase	PhaseEndDate	9/11/2023	7/19/2024
tblConstructionPhase	PhaseEndDate	7/29/2024	8/2/2025
tblConstructionPhase	PhaseStartDate	7/30/2024	7/7/2025
tblConstructionPhase	PhaseStartDate	9/12/2023	7/20/2024
tblConstructionPhase	PhaseStartDate	9/3/2023	6/3/2024
tblConstructionPhase	PhaseStartDate	7/16/2024	7/20/2025
tblGrading	AcresOfGrading	70.00	3.00
tblGrading	MaterialExported	0.00	140.00

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

tblOffRoadEquipment	HorsePower	367.00	158.00
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00

2.0 Emissions Summary

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Energy	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Mobile	0.7845	4.9882	9.4065	0.0467	3.9205	0.0254	3.9459	1.0485	0.0236	1.0721		4,779.2042	4,779.2042	0.1860		4,783.8536
Total	23.9879	7.0483	57.4042	0.1541	3.9205	6.2743	10.1948	1.0485	6.2726	7.3211	758.7204	6,635.4805	7,394.2009	2.4675	0.0586	7,473.3458

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	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Energy	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Mobile	0.7845	4.9882	9.4065	0.0467	3.9205	0.0254	3.9459	1.0485	0.0236	1.0721		4,779.2042	4,779.2042	0.1860		4,783.8536
Total	23.9879	7.0483	57.4042	0.1541	3.9205	6.2743	10.1948	1.0485	6.2726	7.3211	758.7204	6,635.4805	7,394.2009	2.4675	0.0586	7,473.3458

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	Grading	Grading	6/3/2024	7/19/2024	5	35	
2	Building Construction	Building Construction	7/20/2024	7/19/2025	5	260	
3	Paving	Paving	7/20/2025	8/2/2025	5	10	
4	Painting	Architectural Coating	7/7/2025	7/18/2025	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 164,025; Residential Outdoor: 54,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Scrapers	2	6.00	158	0.38
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Skid Steer Loaders	2	4.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Painting	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Grading	5	10.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	58.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Painting	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5969	0.0000	1.5969	0.8375	0.0000	0.8375			0.0000			0.0000
Off-Road	1.1342	11.6752	8.9138	0.0182		0.5127	0.5127		0.4717	0.4717		1,758.6697	1,758.6697	0.5688		1,772.8895
Total	1.1342	11.6752	8.9138	0.0182	1.5969	0.5127	2.1096	0.8375	0.4717	1.3091		1,758.6697	1,758.6697	0.5688		1,772.8895

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.2000e-004	0.0353	7.1500e-003	2.0000e-004	5.0000e-003	7.0000e-005	5.0600e-003	1.3700e-003	6.0000e-005	1.4300e-003		21.7481	21.7481	1.0200e-003		21.7735
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	0.0392	0.0199	0.2951	9.5000e-004	0.1118	6.2000e-004	0.1124	0.0296	5.7000e-004	0.0302		95.1632	95.1632	1.8700e-003		95.2098
Total	0.0401	0.0552	0.3022	1.1500e-003	0.1168	6.9000e-004	0.1175	0.0310	6.3000e-004	0.0316		116.9112	116.9112	2.8900e-003		116.9833

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					0.6228	0.0000	0.6228	0.3266	0.0000	0.3266			0.0000			0.0000
Off-Road	1.1342	11.6752	8.9138	0.0182		0.5127	0.5127		0.4717	0.4717	0.0000	1,758.6697	1,758.6697	0.5688		1,772.8895
Total	1.1342	11.6752	8.9138	0.0182	0.6228	0.5127	1.1355	0.3266	0.4717	0.7983	0.0000	1,758.6697	1,758.6697	0.5688		1,772.8895

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.2000e-004	0.0353	7.1500e-003	2.0000e-004	5.0000e-003	7.0000e-005	5.0600e-003	1.3700e-003	6.0000e-005	1.4300e-003		21.7481	21.7481	1.0200e-003		21.7735
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	0.0392	0.0199	0.2951	9.5000e-004	0.1118	6.2000e-004	0.1124	0.0296	5.7000e-004	0.0302		95.1632	95.1632	1.8700e-003		95.2098
Total	0.0401	0.0552	0.3022	1.1500e-003	0.1168	6.9000e-004	0.1175	0.0310	6.3000e-004	0.0316		116.9112	116.9112	2.8900e-003		116.9833

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209		2,376.3457	2,376.3457	0.4545		2,387.7079
Total	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209		2,376.3457	2,376.3457	0.4545		2,387.7079

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.3 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0147	0.5877	0.1177	2.2400e-003	0.0576	5.9000e-004	0.0582	0.0166	5.7000e-004	0.0172		236.4191	236.4191	0.0125		236.7318
Worker	0.2273	0.1153	1.7115	5.5400e-003	0.6483	3.5900e-003	0.6519	0.1719	3.3100e-003	0.1752		551.9463	551.9463	0.0108		552.2169
Total	0.2420	0.7030	1.8292	7.7800e-003	0.7059	4.1800e-003	0.7101	0.1885	3.8800e-003	0.1924		788.3653	788.3653	0.0233		788.9486

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	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209	0.0000	2,376.3457	2,376.3457	0.4545		2,387.7079
Total	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209	0.0000	2,376.3457	2,376.3457	0.4545		2,387.7079

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.3 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0147	0.5877	0.1177	2.2400e-003	0.0576	5.9000e-004	0.0582	0.0166	5.7000e-004	0.0172		236.4191	236.4191	0.0125		236.7318
Worker	0.2273	0.1153	1.7115	5.5400e-003	0.6483	3.5900e-003	0.6519	0.1719	3.3100e-003	0.1752		551.9463	551.9463	0.0108		552.2169
Total	0.2420	0.7030	1.8292	7.7800e-003	0.7059	4.1800e-003	0.7101	0.1885	3.8800e-003	0.1924		788.3653	788.3653	0.0233		788.9486

3.3 Building Construction - 2025

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	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571		2,376.3446	2,376.3446	0.4479		2,387.5424
Total	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571		2,376.3446	2,376.3446	0.4479		2,387.5424

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.3 Building Construction - 2025

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	0.0144	0.5813	0.1137	2.2200e-003	0.0576	5.8000e-004	0.0582	0.0166	5.6000e-004	0.0172		234.8808	234.8808	0.0122		235.1855
Worker	0.2148	0.1050	1.5881	5.3100e-003	0.6483	3.5300e-003	0.6518	0.1719	3.2500e-003	0.1752		529.8266	529.8266	9.8100e-003		530.0719
Total	0.2291	0.6863	1.7018	7.5300e-003	0.7059	4.1100e-003	0.7100	0.1885	3.8100e-003	0.1923		764.7073	764.7073	0.0220		765.2574

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	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571	0.0000	2,376.3446	2,376.3446	0.4479		2,387.5424
Total	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571	0.0000	2,376.3446	2,376.3446	0.4479		2,387.5424

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.3 Building Construction - 2025

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	0.0144	0.5813	0.1137	2.2200e-003	0.0576	5.8000e-004	0.0582	0.0166	5.6000e-004	0.0172		234.8808	234.8808	0.0122		235.1855
Worker	0.2148	0.1050	1.5881	5.3100e-003	0.6483	3.5300e-003	0.6518	0.1719	3.2500e-003	0.1752		529.8266	529.8266	9.8100e-003		530.0719
Total	0.2291	0.6863	1.7018	7.5300e-003	0.7059	4.1100e-003	0.7100	0.1885	3.8100e-003	0.1923		764.7073	764.7073	0.0220		765.2574

3.4 Paving - 2025

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	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255		1,293.8499	1,293.8499	0.4074		1,304.0340
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255		1,293.8499	1,293.8499	0.4074		1,304.0340

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.4 Paving - 2025

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	0.0555	0.0272	0.4107	1.3700e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		137.0241	137.0241	2.5400e-003		137.0876
Total	0.0555	0.0272	0.4107	1.3700e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		137.0241	137.0241	2.5400e-003		137.0876

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	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255	0.0000	1,293.8499	1,293.8499	0.4074		1,304.0340
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255	0.0000	1,293.8499	1,293.8499	0.4074		1,304.0340

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.4 Paving - 2025

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	0.0555	0.0272	0.4107	1.3700e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		137.0241	137.0241	2.5400e-003		137.0876
Total	0.0555	0.0272	0.4107	1.3700e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		137.0241	137.0241	2.5400e-003		137.0876

3.5 Painting - 2025

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	50.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	50.9115	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.5 Painting - 2025

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	0.0444	0.0217	0.3286	1.1000e-003	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		109.6193	109.6193	2.0300e-003		109.6701
Total	0.0444	0.0217	0.3286	1.1000e-003	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		109.6193	109.6193	2.0300e-003		109.6701

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	50.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	50.9115	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

3.5 Painting - 2025

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	0.0444	0.0217	0.3286	1.1000e-003	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		109.6193	109.6193	2.0300e-003		109.6701
Total	0.0444	0.0217	0.3286	1.1000e-003	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		109.6193	109.6193	2.0300e-003		109.6701

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.7845	4.9882	9.4065	0.0467	3.9205	0.0254	3.9459	1.0485	0.0236	1.0721		4,779.204 2	4,779.204 2	0.1860		4,783.853 6
Unmitigated	0.7845	4.9882	9.4065	0.0467	3.9205	0.0254	3.9459	1.0485	0.0236	1.0721		4,779.204 2	4,779.204 2	0.1860		4,783.853 6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	538.65	517.59	474.66	1,798,042	1,798,042
Total	538.65	517.59	474.66	1,798,042	1,798,042

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745

5.0 Energy Detail

Historical Energy Use: N

Adams Avenue - Phase II Construction - Riverside-South Coast County, Summer

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	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
NaturalGas Unmitigated	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3283.07	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Total		0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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					
Apartments Mid Rise	3.28307	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Total		0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Unmitigated	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.1389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	21.2249	1.6806	41.1927	0.1051		6.1875	6.1875		6.1875	6.1875	758.7204	1,458.0000	2,216.7204	2.2627	0.0515	2,288.6326
Landscaping	0.2005	0.0769	6.6763	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0327	12.0327	0.0115		12.3208
Total	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.1389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	21.2249	1.6806	41.1927	0.1051		6.1875	6.1875		6.1875	6.1875	758.7204	1,458.0000	2,216.7204	2.2627	0.0515	2,288.6326
Landscaping	0.2005	0.0769	6.6763	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0327	12.0327	0.0115		12.3208
Total	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

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

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

Adams Avenue - Phase II Construction
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	81.00	Dwelling Unit	2.13	81,000.00	232

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
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

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Senior housing = 81 units

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Equipment list provided by client

Off-road Equipment - Full day

Off-road Equipment - Paving equipment

Trips and VMT - Number of truck trips supplied by client

Grading - Entire lot is 22 acres

Vehicle Trips - CalEEMod glitch

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	6.00	35.00
tblConstructionPhase	PhaseEndDate	8/12/2024	7/18/2025
tblConstructionPhase	PhaseEndDate	7/15/2024	7/19/2025
tblConstructionPhase	PhaseEndDate	9/11/2023	7/19/2024
tblConstructionPhase	PhaseEndDate	7/29/2024	8/2/2025
tblConstructionPhase	PhaseStartDate	7/30/2024	7/7/2025
tblConstructionPhase	PhaseStartDate	9/12/2023	7/20/2024
tblConstructionPhase	PhaseStartDate	9/3/2023	6/3/2024
tblConstructionPhase	PhaseStartDate	7/16/2024	7/20/2025
tblGrading	AcresOfGrading	70.00	3.00
tblGrading	MaterialExported	0.00	140.00

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

tblOffRoadEquipment	HorsePower	367.00	158.00
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00

2.0 Emissions Summary

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Energy	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Mobile	0.6595	4.9579	8.0956	0.0432	3.9205	0.0255	3.9460	1.0485	0.0237	1.0722		4,425.2981	4,425.2981	0.1913		4,430.0804
Total	23.8630	7.0179	56.0933	0.1505	3.9205	6.2744	10.1950	1.0485	6.2727	7.3212	758.7204	6,281.5743	7,040.2947	2.4729	0.0586	7,119.5726

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	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Energy	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Mobile	0.6595	4.9579	8.0956	0.0432	3.9205	0.0255	3.9460	1.0485	0.0237	1.0722		4,425.2981	4,425.2981	0.1913		4,430.0804
Total	23.8630	7.0179	56.0933	0.1505	3.9205	6.2744	10.1950	1.0485	6.2727	7.3212	758.7204	6,281.5743	7,040.2947	2.4729	0.0586	7,119.5726

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	Grading	Grading	6/3/2024	7/19/2024	5	35	
2	Building Construction	Building Construction	7/20/2024	7/19/2025	5	260	
3	Paving	Paving	7/20/2025	8/2/2025	5	10	
4	Painting	Architectural Coating	7/7/2025	7/18/2025	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 164,025; Residential Outdoor: 54,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Scrapers	2	6.00	158	0.38
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Skid Steer Loaders	2	4.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Painting	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Grading	5	10.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	58.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Painting	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5969	0.0000	1.5969	0.8375	0.0000	0.8375			0.0000			0.0000
Off-Road	1.1342	11.6752	8.9138	0.0182		0.5127	0.5127		0.4717	0.4717		1,758.6697	1,758.6697	0.5688		1,772.8895
Total	1.1342	11.6752	8.9138	0.0182	1.5969	0.5127	2.1096	0.8375	0.4717	1.3091		1,758.6697	1,758.6697	0.5688		1,772.8895

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7000e-004	0.0351	8.0100e-003	2.0000e-004	5.0000e-003	7.0000e-005	5.0700e-003	1.3700e-003	7.0000e-005	1.4400e-003		21.2078	21.2078	1.1000e-003		21.2353
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	0.0388	0.0205	0.2370	8.6000e-004	0.1118	6.2000e-004	0.1124	0.0296	5.7000e-004	0.0302		85.3673	85.3673	1.6300e-003		85.4080
Total	0.0398	0.0556	0.2450	1.0600e-003	0.1168	6.9000e-004	0.1175	0.0310	6.4000e-004	0.0317		106.5752	106.5752	2.7300e-003		106.6433

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					0.6228	0.0000	0.6228	0.3266	0.0000	0.3266			0.0000			0.0000
Off-Road	1.1342	11.6752	8.9138	0.0182		0.5127	0.5127		0.4717	0.4717	0.0000	1,758.6697	1,758.6697	0.5688		1,772.8895
Total	1.1342	11.6752	8.9138	0.0182	0.6228	0.5127	1.1355	0.3266	0.4717	0.7983	0.0000	1,758.6697	1,758.6697	0.5688		1,772.8895

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7000e-004	0.0351	8.0100e-003	2.0000e-004	5.0000e-003	7.0000e-005	5.0700e-003	1.3700e-003	7.0000e-005	1.4400e-003		21.2078	21.2078	1.1000e-003		21.2353
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	0.0388	0.0205	0.2370	8.6000e-004	0.1118	6.2000e-004	0.1124	0.0296	5.7000e-004	0.0302		85.3673	85.3673	1.6300e-003		85.4080
Total	0.0398	0.0556	0.2450	1.0600e-003	0.1168	6.9000e-004	0.1175	0.0310	6.4000e-004	0.0317		106.5752	106.5752	2.7300e-003		106.6433

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209		2,376.3457	2,376.3457	0.4545		2,387.7079
Total	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209		2,376.3457	2,376.3457	0.4545		2,387.7079

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.3 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0156	0.5797	0.1362	2.1600e-003	0.0576	6.1000e-004	0.0582	0.0166	5.8000e-004	0.0172		227.7012	227.7012	0.0139		228.0477
Worker	0.2251	0.1191	1.3743	4.9600e-003	0.6483	3.5900e-003	0.6519	0.1719	3.3100e-003	0.1752		495.1305	495.1305	9.4400e-003		495.3665
Total	0.2407	0.6988	1.5105	7.1200e-003	0.7059	4.2000e-003	0.7101	0.1885	3.8900e-003	0.1924		722.8317	722.8317	0.0233		723.4143

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	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209	0.0000	2,376.3457	2,376.3457	0.4545		2,387.7079
Total	1.6110	13.1467	14.6517	0.0259		0.5442	0.5442		0.5209	0.5209	0.0000	2,376.3457	2,376.3457	0.4545		2,387.7079

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.3 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0156	0.5797	0.1362	2.1600e-003	0.0576	6.1000e-004	0.0582	0.0166	5.8000e-004	0.0172		227.7012	227.7012	0.0139		228.0477
Worker	0.2251	0.1191	1.3743	4.9600e-003	0.6483	3.5900e-003	0.6519	0.1719	3.3100e-003	0.1752		495.1305	495.1305	9.4400e-003		495.3665
Total	0.2407	0.6988	1.5105	7.1200e-003	0.7059	4.2000e-003	0.7101	0.1885	3.8900e-003	0.1924		722.8317	722.8317	0.0233		723.4143

3.3 Building Construction - 2025

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	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571		2,376.3446	2,376.3446	0.4479		2,387.5424
Total	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571		2,376.3446	2,376.3446	0.4479		2,387.5424

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.3 Building Construction - 2025

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	0.0152	0.5733	0.1318	2.1400e-003	0.0576	6.0000e-004	0.0582	0.0166	5.7000e-004	0.0172		226.2783	226.2783	0.0135		226.6160
Worker	0.2133	0.1084	1.2741	4.7600e-003	0.6483	3.5300e-003	0.6518	0.1719	3.2500e-003	0.1752		475.3173	475.3173	8.5600e-003		475.5314
Total	0.2285	0.6817	1.4059	6.9000e-003	0.7059	4.1300e-003	0.7101	0.1885	3.8200e-003	0.1923		701.5956	701.5956	0.0221		702.1473

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	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571	0.0000	2,376.3446	2,376.3446	0.4479		2,387.5424
Total	1.5047	12.3525	14.5550	0.0259		0.4779	0.4779		0.4571	0.4571	0.0000	2,376.3446	2,376.3446	0.4479		2,387.5424

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.3 Building Construction - 2025

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	0.0152	0.5733	0.1318	2.1400e-003	0.0576	6.0000e-004	0.0582	0.0166	5.7000e-004	0.0172		226.2783	226.2783	0.0135		226.6160
Worker	0.2133	0.1084	1.2741	4.7600e-003	0.6483	3.5300e-003	0.6518	0.1719	3.2500e-003	0.1752		475.3173	475.3173	8.5600e-003		475.5314
Total	0.2285	0.6817	1.4059	6.9000e-003	0.7059	4.1300e-003	0.7101	0.1885	3.8200e-003	0.1923		701.5956	701.5956	0.0221		702.1473

3.4 Paving - 2025

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	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255		1,293.8499	1,293.8499	0.4074		1,304.0340
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255		1,293.8499	1,293.8499	0.4074		1,304.0340

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.4 Paving - 2025

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	0.0552	0.0280	0.3295	1.2300e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		122.9269	122.9269	2.2100e-003		122.9823
Total	0.0552	0.0280	0.3295	1.2300e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		122.9269	122.9269	2.2100e-003		122.9823

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	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255	0.0000	1,293.8499	1,293.8499	0.4074		1,304.0340
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5775	5.3172	8.7287	0.0136		0.2439	0.2439		0.2255	0.2255	0.0000	1,293.8499	1,293.8499	0.4074		1,304.0340

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.4 Paving - 2025

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	0.0552	0.0280	0.3295	1.2300e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		122.9269	122.9269	2.2100e-003		122.9823
Total	0.0552	0.0280	0.3295	1.2300e-003	0.1677	9.1000e-004	0.1686	0.0445	8.4000e-004	0.0453		122.9269	122.9269	2.2100e-003		122.9823

3.5 Painting - 2025

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	50.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	50.9115	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.5 Painting - 2025

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	0.0441	0.0224	0.2636	9.9000e-004	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		98.3415	98.3415	1.7700e-003		98.3858
Total	0.0441	0.0224	0.2636	9.9000e-004	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		98.3415	98.3415	1.7700e-003		98.3858

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	50.6837					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	50.9115	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

3.5 Painting - 2025

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	0.0441	0.0224	0.2636	9.9000e-004	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		98.3415	98.3415	1.7700e-003		98.3858
Total	0.0441	0.0224	0.2636	9.9000e-004	0.1341	7.3000e-004	0.1349	0.0356	6.7000e-004	0.0362		98.3415	98.3415	1.7700e-003		98.3858

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.6595	4.9579	8.0956	0.0432	3.9205	0.0255	3.9460	1.0485	0.0237	1.0722		4,425.298 1	4,425.298 1	0.1913		4,430.080 4
Unmitigated	0.6595	4.9579	8.0956	0.0432	3.9205	0.0255	3.9460	1.0485	0.0237	1.0722		4,425.298 1	4,425.298 1	0.1913		4,430.080 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	538.65	517.59	474.66	1,798,042	1,798,042
Total	538.65	517.59	474.66	1,798,042	1,798,042

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745

5.0 Energy Detail

Historical Energy Use: N

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

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	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
NaturalGas Unmitigated	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3283.07	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Total		0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

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					
Apartments Mid Rise	3.28307	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Total		0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534
Unmitigated	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.1389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	21.2249	1.6806	41.1927	0.1051		6.1875	6.1875		6.1875	6.1875	758.7204	1,458.0000	2,216.7204	2.2627	0.0515	2,288.6326
Landscaping	0.2005	0.0769	6.6763	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0327	12.0327	0.0115		12.3208
Total	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

Adams Avenue - Phase II Construction - Riverside-South Coast County, 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	0.1389					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	21.2249	1.6806	41.1927	0.1051		6.1875	6.1875		6.1875	6.1875	758.7204	1,458.0000	2,216.7204	2.2627	0.0515	2,288.6326
Landscaping	0.2005	0.0769	6.6763	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0327	12.0327	0.0115		12.3208
Total	23.1680	1.7575	47.8690	0.1054		6.2245	6.2245		6.2245	6.2245	758.7204	1,470.0327	2,228.7531	2.2742	0.0515	2,300.9534

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

Adams Avenue - Phase II Construction - Riverside-South Coast County, Winter

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

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

Adams Avenue - Phase I & II Operational
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	81.00	Dwelling Unit	1.31	81,000.00	232
Apartments Mid Rise	119.00	Dwelling Unit	3.13	119,000.00	340

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
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

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Mid rise = Affordable housing

High rise = Senior housing

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Trips and VMT - Number of truck trips supplied by client

Grading - Entire lot is 22 acres

Vehicle Trips - Trip rates from VMT Analysis - Technical Memorandum

Woodstoves - No fireplaces or wood stoves are planned for the project

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	68.85	0.00
tblFireplaces	NumberGas	101.15	0.00
tblFireplaces	NumberNoFireplace	8.10	81.00
tblFireplaces	NumberNoFireplace	11.90	119.00
tblFireplaces	NumberWood	4.05	0.00
tblFireplaces	NumberWood	5.95	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	2.79
tblVehicleTrips	ST_TR	6.39	5.02
tblVehicleTrips	SU_TR	3.65	2.56
tblVehicleTrips	SU_TR	5.86	4.60
tblVehicleTrips	WD_TR	4.20	3.70
tblVehicleTrips	WD_TR	6.65	5.22
tblWoodstoves	NumberCatalytic	4.05	0.00
tblWoodstoves	NumberCatalytic	5.95	0.00
tblWoodstoves	NumberNoncatalytic	4.05	0.00
tblWoodstoves	NumberNoncatalytic	5.95	0.00

2.0 Emissions Summary

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Energy	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
Mobile	1.3412	8.5279	16.0814	0.0798	6.7025	0.0433	6.7459	1.7925	0.0404	1.8329		8,170.5627	8,170.5627	0.3179		8,178.5112
Total	6.2264	9.4648	32.8839	0.0855	6.7025	0.1952	6.8977	1.7925	0.1922	1.9848	0.0000	9,153.9608	9,153.9608	0.3647	0.0175	9,168.2879

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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Energy	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
Mobile	1.3412	8.5279	16.0814	0.0798	6.7025	0.0433	6.7459	1.7925	0.0404	1.8329		8,170.5627	8,170.5627	0.3179		8,178.5112
Total	6.2264	9.4648	32.8839	0.0855	6.7025	0.1952	6.8977	1.7925	0.1922	1.9848	0.0000	9,153.9608	9,153.9608	0.3647	0.0175	9,168.2879

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	Grading	Grading	1/1/2023	1/11/2023	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

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
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

3.1 Mitigation Measures Construction

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.6910	2,872.6910	0.9291		2,895.9182

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0239	0.9364	0.1834	5.3900e-003	0.1312	1.7800e-003	0.1330	0.0360	1.7100e-003	0.0377		573.0172	573.0172	0.0269		573.6906
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	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
Total	0.0862	0.9692	0.6555	6.8800e-003	0.2988	2.7200e-003	0.3016	0.0804	2.5700e-003	0.0830		721.0464	721.0464	0.0300		721.7965

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0239	0.9364	0.1834	5.3900e-003	0.1312	1.7800e-003	0.1330	0.0360	1.7100e-003	0.0377		573.0172	573.0172	0.0269		573.6906
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	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
Total	0.0862	0.9692	0.6555	6.8800e-003	0.2988	2.7200e-003	0.3016	0.0804	2.5700e-003	0.0830		721.0464	721.0464	0.0300		721.7965

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	1.3412	8.5279	16.0814	0.0798	6.7025	0.0433	6.7459	1.7925	0.0404	1.8329		8,170.5627	8,170.5627	0.3179		8,178.5112
Unmitigated	1.3412	8.5279	16.0814	0.0798	6.7025	0.0433	6.7459	1.7925	0.0404	1.8329		8,170.5627	8,170.5627	0.3179		8,178.5112

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	299.70	225.99	207.36	942,490	942,490
Apartments Mid Rise	621.18	597.38	547.40	2,073,776	2,073,776
Total	920.88	823.37	754.76	3,016,266	3,016,266

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745
Apartments Mid Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Summer

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	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
NaturalGas Unmitigated	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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					
Apartments High Rise	3283.07	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Apartments Mid Rise	4823.28	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

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					
Apartments High Rise	3.28307	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Apartments Mid Rise	4.82328	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

6.0 Area Detail

6.1 Mitigation Measures Area

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Unmitigated	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

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	0.3429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4949	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915		29.7105	29.7105	0.0285		30.4217
Total	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	0.3429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4949	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915		29.7105	29.7105	0.0285		30.4217
Total	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

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

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

Adams Avenue - Phase I & II Operational
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	81.00	Dwelling Unit	1.31	81,000.00	232
Apartments Mid Rise	119.00	Dwelling Unit	3.13	119,000.00	340

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Mid rise = Affordable housing

High rise = Senior housing

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Trips and VMT - Number of truck trips supplied by client

Grading - Entire lot is 22 acres

Vehicle Trips - Trip rates from VMT Analysis - Technical Memorandum

Woodstoves - No fireplaces or wood stoves are planned for the project

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	68.85	0.00
tblFireplaces	NumberGas	101.15	0.00
tblFireplaces	NumberNoFireplace	8.10	81.00
tblFireplaces	NumberNoFireplace	11.90	119.00
tblFireplaces	NumberWood	4.05	0.00
tblFireplaces	NumberWood	5.95	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	60.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	4.98	2.79
tblVehicleTrips	ST_TR	6.39	5.02
tblVehicleTrips	SU_TR	3.65	2.56
tblVehicleTrips	SU_TR	5.86	4.60
tblVehicleTrips	WD_TR	4.20	3.70
tblVehicleTrips	WD_TR	6.65	5.22
tblWoodstoves	NumberCatalytic	4.05	0.00
tblWoodstoves	NumberCatalytic	5.95	0.00
tblWoodstoves	NumberNoncatalytic	4.05	0.00
tblWoodstoves	NumberNoncatalytic	5.95	0.00

2.0 Emissions Summary

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Energy	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
Mobile	1.1275	8.4760	13.8402	0.0738	6.7025	0.0436	6.7461	1.7925	0.0406	1.8331		7,565.522 1	7,565.522 1	0.3270		7,573.698 1
Total	6.0128	9.4129	30.6428	0.0795	6.7025	0.1954	6.8980	1.7925	0.1924	1.9850	0.0000	8,548.920 2	8,548.920 2	0.3738	0.0175	8,563.474 8

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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Energy	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
Mobile	1.1275	8.4760	13.8402	0.0738	6.7025	0.0436	6.7461	1.7925	0.0406	1.8331		7,565.522 1	7,565.522 1	0.3270		7,573.698 1
Total	6.0128	9.4129	30.6428	0.0795	6.7025	0.1954	6.8980	1.7925	0.1924	1.9850	0.0000	8,548.920 2	8,548.920 2	0.3738	0.0175	8,563.474 8

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	Grading	Grading	1/1/2023	1/11/2023	5	8	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

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
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

3.1 Mitigation Measures Construction

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.6910	2,872.6910	0.9291		2,895.9182

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0251	0.9305	0.2063	5.2600e-003	0.1312	1.8100e-003	0.1330	0.0360	1.7400e-003	0.0377		558.6380	558.6380	0.0292		559.3674
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	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
Total	0.0867	0.9645	0.5862	6.5900e-003	0.2988	2.7500e-003	0.3016	0.0804	2.6000e-003	0.0830		691.4498	691.4498	0.0319		692.2461

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0251	0.9305	0.2063	5.2600e-003	0.1312	1.8100e-003	0.1330	0.0360	1.7400e-003	0.0377		558.6380	558.6380	0.0292		559.3674
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	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
Total	0.0867	0.9645	0.5862	6.5900e-003	0.2988	2.7500e-003	0.3016	0.0804	2.6000e-003	0.0830		691.4498	691.4498	0.0319		692.2461

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	1.1275	8.4760	13.8402	0.0738	6.7025	0.0436	6.7461	1.7925	0.0406	1.8331		7,565.522 1	7,565.522 1	0.3270		7,573.698 1
Unmitigated	1.1275	8.4760	13.8402	0.0738	6.7025	0.0436	6.7461	1.7925	0.0406	1.8331		7,565.522 1	7,565.522 1	0.3270		7,573.698 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	299.70	225.99	207.36	942,490	942,490
Apartments Mid Rise	621.18	597.38	547.40	2,073,776	2,073,776
Total	920.88	823.37	754.76	3,016,266	3,016,266

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745
Apartments Mid Rise	0.556393	0.035040	0.189382	0.106465	0.012088	0.004430	0.017405	0.070208	0.001420	0.001115	0.004429	0.000881	0.000745

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

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	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550
NaturalGas Unmitigated	0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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					
Apartments High Rise	3283.07	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Apartments Mid Rise	4823.28	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

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					
Apartments High Rise	3.28307	0.0354	0.3026	0.1288	1.9300e-003		0.0245	0.0245		0.0245	0.0245		386.2435	386.2435	7.4000e-003	7.0800e-003	388.5388
Apartments Mid Rise	4.82328	0.0520	0.4445	0.1892	2.8400e-003		0.0359	0.0359		0.0359	0.0359		567.4442	567.4442	0.0109	0.0104	570.8162
Total		0.0874	0.7471	0.3179	4.7700e-003		0.0604	0.0604		0.0604	0.0604		953.6877	953.6877	0.0183	0.0175	959.3550

6.0 Area Detail

6.1 Mitigation Measures Area

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217
Unmitigated	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

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	0.3429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4949	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915		29.7105	29.7105	0.0285		30.4217
Total	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, 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	0.3429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4949	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915		29.7105	29.7105	0.0285		30.4217
Total	4.7978	0.1899	16.4846	8.7000e-004		0.0915	0.0915		0.0915	0.0915	0.0000	29.7105	29.7105	0.0285	0.0000	30.4217

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

Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Winter

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
