
APPENDIX B2

**CalEEMod INPUT AND RESULTS FOR GREENHOUSE GAS
EMISSIONS ANALYSIS**

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

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

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

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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, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.7066	0.4965
2	4-1-2023	6-30-2023	0.2566	0.2543
3	7-1-2023	9-30-2023	0.4350	0.4350
4	10-1-2023	12-31-2023	0.4347	0.4347
5	1-1-2024	3-31-2024	0.4035	0.4035
6	4-1-2024	6-30-2024	0.4611	0.4611
7	7-1-2024	9-30-2024	0.6882	0.6882
		Highest	0.7066	0.6882

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806
Energy	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	267.1358	267.1358	8.9500e-003	3.2000e-003	268.3137
Mobile	0.1425	1.0641	1.8112	9.3000e-003	0.7914	5.3800e-003	0.7967	0.2119	5.0100e-003	0.2170	0.0000	863.6049	863.6049	0.0360	0.0000	864.5050
Waste						0.0000	0.0000		0.0000	0.0000	11.1117	0.0000	11.1117	0.6567	0.0000	27.5288
Water						0.0000	0.0000		0.0000	0.0000	2.4598	49.4696	51.9294	0.2547	6.3900e-003	60.2001
Total	1.0458	1.1902	3.8282	0.0118	0.7914	0.1324	0.9237	0.2119	0.1320	0.3439	26.2116	1,206.5048	1,232.7164	0.9959	0.0105	1,260.7282

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806
Energy	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	267.1358	267.1358	8.9500e-003	3.2000e-003	268.3137
Mobile	0.1425	1.0641	1.8112	9.3000e-003	0.7914	5.3800e-003	0.7967	0.2119	5.0100e-003	0.2170	0.0000	863.6049	863.6049	0.0360	0.0000	864.5050
Waste						0.0000	0.0000		0.0000	0.0000	11.1117	0.0000	11.1117	0.6567	0.0000	27.5288
Water						0.0000	0.0000		0.0000	0.0000	2.4598	49.4696	51.9294	0.2547	6.3900e-003	60.2001
Total	1.0458	1.1902	3.8282	0.0118	0.7914	0.1324	0.9237	0.2119	0.1320	0.3439	26.2116	1,206.5048	1,232.7164	0.9959	0.0105	1,260.7282

	ROG	NOx	CO	SO2	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

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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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0511	0.0000	0.0511	0.0271	0.0000	0.0271	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0639	0.6436	0.5729	1.0100e-003		0.0302	0.0302		0.0278	0.0278	0.0000	89.0155	89.0155	0.0288	0.0000	89.7352
Total	0.0639	0.6436	0.5729	1.0100e-003	0.0511	0.0302	0.0813	0.0271	0.0278	0.0549	0.0000	89.0155	89.0155	0.0288	0.0000	89.7352

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

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	tons/yr										MT/yr					
Hauling	1.0000e-004	3.7800e-003	7.7000e-004	2.0000e-005	5.2000e-004	1.0000e-005	5.2000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	2.0574	2.0574	1.0000e-004	0.0000	2.0600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.1400e-003	0.0130	4.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.0166	4.0166	8.0000e-005	0.0000	4.0186
Total	1.9400e-003	4.9200e-003	0.0138	6.0000e-005	5.8800e-003	4.0000e-005	5.9100e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	6.0740	6.0740	1.8000e-004	0.0000	6.0785

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0199	0.0000	0.0199	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0284	0.4668	0.6160	1.0100e-003		9.5300e-003	9.5300e-003		8.8500e-003	8.8500e-003	0.0000	89.0154	89.0154	0.0288	0.0000	89.7351
Total	0.0284	0.4668	0.6160	1.0100e-003	0.0199	9.5300e-003	0.0295	0.0106	8.8500e-003	0.0194	0.0000	89.0154	89.0154	0.0288	0.0000	89.7351

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

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	tons/yr										MT/yr					
Hauling	1.0000e-004	3.7800e-003	7.7000e-004	2.0000e-005	5.2000e-004	1.0000e-005	5.2000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	2.0574	2.0574	1.0000e-004	0.0000	2.0600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.1400e-003	0.0130	4.0000e-005	5.3600e-003	3.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4500e-003	0.0000	4.0166	4.0166	8.0000e-005	0.0000	4.0186
Total	1.9400e-003	4.9200e-003	0.0138	6.0000e-005	5.8800e-003	4.0000e-005	5.9100e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	6.0740	6.0740	1.8000e-004	0.0000	6.0785

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	tons/yr										MT/yr					
Off-Road	9.9900e-003	0.1014	0.1473	2.1000e-004		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	18.0567	18.0567	5.8400e-003	0.0000	18.2027
Total	9.9900e-003	0.1014	0.1473	2.1000e-004		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	18.0567	18.0567	5.8400e-003	0.0000	18.2027

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.2000e-004	5.8800e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8126	1.8126	4.0000e-005	0.0000	1.8135
Total	8.3000e-004	5.2000e-004	5.8800e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8126	1.8126	4.0000e-005	0.0000	1.8135

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9900e-003	0.1014	0.1473	2.1000e-004		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	18.0566	18.0566	5.8400e-003	0.0000	18.2026
Total	9.9900e-003	0.1014	0.1473	2.1000e-004		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	18.0566	18.0566	5.8400e-003	0.0000	18.2026

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	5.2000e-004	5.8800e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8126	1.8126	4.0000e-005	0.0000	1.8135
Total	8.3000e-004	5.2000e-004	5.8800e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8126	1.8126	4.0000e-005	0.0000	1.8135

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0888	0.8035	0.8445	1.5200e-003		0.0370	0.0370		0.0351	0.0351	0.0000	129.5481	129.5481	0.0269	0.0000	130.2213
Total	0.0888	0.8035	0.8445	1.5200e-003		0.0370	0.0370		0.0351	0.0351	0.0000	129.5481	129.5481	0.0269	0.0000	130.2213

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0645	0.0143	2.4000e-004	6.2000e-003	7.0000e-005	6.2600e-003	1.7900e-003	6.0000e-005	1.8500e-003	0.0000	23.1145	23.1145	1.3200e-003	0.0000	23.1476
Worker	0.0245	0.0152	0.1736	5.9000e-004	0.0714	4.1000e-004	0.0718	0.0190	3.7000e-004	0.0193	0.0000	53.4963	53.4963	1.0900e-003	0.0000	53.5235
Total	0.0262	0.0797	0.1878	8.3000e-004	0.0776	4.8000e-004	0.0780	0.0207	4.3000e-004	0.0212	0.0000	76.6108	76.6108	2.4100e-003	0.0000	76.6711

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0888	0.8035	0.8445	1.5200e-003		0.0370	0.0370		0.0351	0.0351	0.0000	129.5479	129.5479	0.0269	0.0000	130.2211
Total	0.0888	0.8035	0.8445	1.5200e-003		0.0370	0.0370		0.0351	0.0351	0.0000	129.5479	129.5479	0.0269	0.0000	130.2211

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0645	0.0143	2.4000e-004	6.2000e-003	7.0000e-005	6.2600e-003	1.7900e-003	6.0000e-005	1.8500e-003	0.0000	23.1145	23.1145	1.3200e-003	0.0000	23.1476
Worker	0.0245	0.0152	0.1736	5.9000e-004	0.0714	4.1000e-004	0.0718	0.0190	3.7000e-004	0.0193	0.0000	53.4963	53.4963	1.0900e-003	0.0000	53.5235
Total	0.0262	0.0797	0.1878	8.3000e-004	0.0776	4.8000e-004	0.0780	0.0207	4.3000e-004	0.0212	0.0000	76.6108	76.6108	2.4100e-003	0.0000	76.6711

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0961	0.8704	0.9715	1.7600e-003		0.0377	0.0377		0.0358	0.0358	0.0000	150.1479	150.1479	0.0309	0.0000	150.9209
Total	0.0961	0.8704	0.9715	1.7600e-003		0.0377	0.0377		0.0358	0.0358	0.0000	150.1479	150.1479	0.0309	0.0000	150.9209

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0743	0.0160	2.8000e-004	7.1800e-003	8.0000e-005	7.2600e-003	2.0700e-003	7.0000e-005	2.1400e-003	0.0000	26.6875	26.6875	1.5000e-003	0.0000	26.7251
Worker	0.0268	0.0160	0.1883	6.6000e-004	0.0827	4.7000e-004	0.0832	0.0220	4.3000e-004	0.0224	0.0000	59.7847	59.7847	1.1500e-003	0.0000	59.8133
Total	0.0287	0.0903	0.2043	9.4000e-004	0.0899	5.5000e-004	0.0904	0.0240	5.0000e-004	0.0245	0.0000	86.4722	86.4722	2.6500e-003	0.0000	86.5384

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0961	0.8704	0.9715	1.7600e-003		0.0377	0.0377		0.0358	0.0358	0.0000	150.1477	150.1477	0.0309	0.0000	150.9207
Total	0.0961	0.8704	0.9715	1.7600e-003		0.0377	0.0377		0.0358	0.0358	0.0000	150.1477	150.1477	0.0309	0.0000	150.9207

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-003	0.0743	0.0160	2.8000e-004	7.1800e-003	8.0000e-005	7.2600e-003	2.0700e-003	7.0000e-005	2.1400e-003	0.0000	26.6875	26.6875	1.5000e-003	0.0000	26.7251
Worker	0.0268	0.0160	0.1883	6.6000e-004	0.0827	4.7000e-004	0.0832	0.0220	4.3000e-004	0.0224	0.0000	59.7847	59.7847	1.1500e-003	0.0000	59.8133
Total	0.0287	0.0903	0.2043	9.4000e-004	0.0899	5.5000e-004	0.0904	0.0240	5.0000e-004	0.0245	0.0000	86.4722	86.4722	2.6500e-003	0.0000	86.5384

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	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0511	0.0757	1.2000e-004		2.4100e-003	2.4100e-003		2.2400e-003	2.2400e-003	0.0000	10.1722	10.1722	3.1600e-003	0.0000	10.2512
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5100e-003	0.0511	0.0757	1.2000e-004		2.4100e-003	2.4100e-003		2.2400e-003	2.2400e-003	0.0000	10.1722	10.1722	3.1600e-003	0.0000	10.2512

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	9.0000e-005	1.0600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3377	0.3377	1.0000e-005	0.0000	0.3378
Total	1.5000e-004	9.0000e-005	1.0600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3377	0.3377	1.0000e-005	0.0000	0.3378

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0511	0.0757	1.2000e-004		2.4100e-003	2.4100e-003		2.2400e-003	2.2400e-003	0.0000	10.1721	10.1721	3.1600e-003	0.0000	10.2512
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.5100e-003	0.0511	0.0757	1.2000e-004		2.4100e-003	2.4100e-003		2.2400e-003	2.2400e-003	0.0000	10.1721	10.1721	3.1600e-003	0.0000	10.2512

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	9.0000e-005	1.0600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3377	0.3377	1.0000e-005	0.0000	0.3378
Total	1.5000e-004	9.0000e-005	1.0600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3377	0.3377	1.0000e-005	0.0000	0.3378

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	tons/yr										MT/yr					
Archit. Coating	0.3723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0138	0.0205	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.8937	2.8937	1.6000e-004	0.0000	2.8978
Total	0.3744	0.0138	0.0205	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.8937	2.8937	1.6000e-004	0.0000	2.8978

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.1000e-004	3.6200e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1480	1.1480	2.0000e-005	0.0000	1.1486
Total	5.1000e-004	3.1000e-004	3.6200e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1480	1.1480	2.0000e-005	0.0000	1.1486

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0138	0.0205	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.8937	2.8937	1.6000e-004	0.0000	2.8978
Total	0.3744	0.0138	0.0205	3.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	2.8937	2.8937	1.6000e-004	0.0000	2.8978

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.1000e-004	3.6200e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1480	1.1480	2.0000e-005	0.0000	1.1486
Total	5.1000e-004	3.1000e-004	3.6200e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1480	1.1480	2.0000e-005	0.0000	1.1486

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1425	1.0641	1.8112	9.3000e-003	0.7914	5.3800e-003	0.7967	0.2119	5.0100e-003	0.2170	0.0000	863.6049	863.6049	0.0360	0.0000	864.5050
Unmitigated	0.1425	1.0641	1.8112	9.3000e-003	0.7914	5.3800e-003	0.7967	0.2119	5.0100e-003	0.2170	0.0000	863.6049	863.6049	0.0360	0.0000	864.5050

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, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	173.1891	173.1891	7.1500e-003	1.4800e-003	173.8087
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	173.1891	173.1891	7.1500e-003	1.4800e-003	173.8087
NaturalGas Mitigated	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050
NaturalGas Unmitigated	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.7605e+006	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050
Total		9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.7605e+006	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050
Total		9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	543557	173.1891	7.1500e-003	1.4800e-003	173.8087
Total		173.1891	7.1500e-003	1.4800e-003	173.8087

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	543557	173.1891	7.1500e-003	1.4800e-003	173.8087
Total		173.1891	7.1500e-003	1.4800e-003	173.8087

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806
Unmitigated	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3898	0.0309	0.7565	1.9300e-003		0.1136	0.1136		0.1136	0.1136	12.6401	24.2899	36.9299	0.0377	8.6000e-004	38.1280
Landscaping	0.0368	0.0141	1.2260	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0046	2.0046	1.9200e-003	0.0000	2.0526
Total	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3898	0.0309	0.7565	1.9300e-003		0.1136	0.1136		0.1136	0.1136	12.6401	24.2899	36.9299	0.0377	8.6000e-004	38.1280
Landscaping	0.0368	0.0141	1.2260	6.0000e-005		6.8000e-003	6.8000e-003		6.8000e-003	6.8000e-003	0.0000	2.0046	2.0046	1.9200e-003	0.0000	2.0526
Total	0.8938	0.0450	1.9825	1.9900e-003		0.1204	0.1204		0.1204	0.1204	12.6401	26.2945	38.9346	0.0396	8.6000e-004	40.1806

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	51.9294	0.2547	6.3900e-003	60.2001
Unmitigated	51.9294	0.2547	6.3900e-003	60.2001

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.75333 / 4.88797	51.9294	0.2547	6.3900e-003	60.2001
Total		51.9294	0.2547	6.3900e-003	60.2001

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.75333 / 4.88797	51.9294	0.2547	6.3900e-003	60.2001
Total		51.9294	0.2547	6.3900e-003	60.2001

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.1117	0.6567	0.0000	27.5288
Unmitigated	11.1117	0.6567	0.0000	27.5288

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	54.74	11.1117	0.6567	0.0000	27.5288
Total		11.1117	0.6567	0.0000	27.5288

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	54.74	11.1117	0.6567	0.0000	27.5288
Total		11.1117	0.6567	0.0000	27.5288

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Adams Avenue - Phase I Construction - Riverside-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

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

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/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 II Construction - Riverside-South Coast County, Annual

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, Annual

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, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	6-3-2024	9-2-2024	0.4690	0.4690
5	9-3-2024	12-2-2024	0.5102	0.5102
6	12-3-2024	3-2-2025	0.4843	0.4843
7	3-3-2025	6-2-2025	0.4853	0.4853
8	6-3-2025	9-2-2025	0.5029	0.5029
		Highest	0.5102	0.5102

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6084	0.0306	1.3494	1.3600e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498
Energy	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	181.8319	181.8319	6.0900e-003	2.1800e-003	182.6337
Mobile	0.1178	0.8966	1.4863	7.8500e-003	0.6860	4.5100e-003	0.6906	0.1837	4.2000e-003	0.1879	0.0000	730.1501	730.1501	0.0301	0.0000	730.9018
Waste						0.0000	0.0000		0.0000	0.0000	7.5634	0.0000	7.5634	0.4470	0.0000	18.7381
Water						0.0000	0.0000		0.0000	0.0000	1.6743	33.6726	35.3469	0.1734	4.3500e-003	40.9766
Total	0.7327	0.9824	2.8592	9.5600e-003	0.6860	0.0909	0.7770	0.1837	0.0906	0.2744	17.8415	963.5526	981.3941	0.6835	7.1100e-003	1,000.6000

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6084	0.0306	1.3494	1.3600e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498
Energy	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	181.8319	181.8319	6.0900e-003	2.1800e-003	182.6337
Mobile	0.1178	0.8966	1.4863	7.8500e-003	0.6860	4.5100e-003	0.6906	0.1837	4.2000e-003	0.1879	0.0000	730.1501	730.1501	0.0301	0.0000	730.9018
Waste						0.0000	0.0000		0.0000	0.0000	7.5634	0.0000	7.5634	0.4470	0.0000	18.7381
Water						0.0000	0.0000		0.0000	0.0000	1.6743	33.6726	35.3469	0.1734	4.3500e-003	40.9766
Total	0.7327	0.9824	2.8592	9.5600e-003	0.6860	0.0909	0.7770	0.1837	0.0906	0.2744	17.8415	963.5526	981.3941	0.6835	7.1100e-003	1,000.6000

	ROG	NOx	CO	SO2	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

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

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, Annual

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, Annual

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	tons/yr										MT/yr					
Fugitive Dust					0.0280	0.0000	0.0280	0.0147	0.0000	0.0147	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.2043	0.1560	3.2000e-004		8.9700e-003	8.9700e-003		8.2500e-003	8.2500e-003	0.0000	27.9202	27.9202	9.0300e-003	0.0000	28.1459
Total	0.0199	0.2043	0.1560	3.2000e-004	0.0280	8.9700e-003	0.0369	0.0147	8.2500e-003	0.0229	0.0000	27.9202	27.9202	9.0300e-003	0.0000	28.1459

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

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	tons/yr										MT/yr					
Hauling	2.0000e-005	6.2000e-004	1.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3417	0.3417	2.0000e-005	0.0000	0.3421
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	3.7000e-004	4.3800e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.3903	1.3903	3.0000e-005	0.0000	1.3910
Total	6.4000e-004	9.9000e-004	4.5100e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7320	1.7320	5.0000e-005	0.0000	1.7331

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0109	0.0000	0.0109	5.7200e-003	0.0000	5.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.2043	0.1560	3.2000e-004		8.9700e-003	8.9700e-003		8.2500e-003	8.2500e-003	0.0000	27.9201	27.9201	9.0300e-003	0.0000	28.1459
Total	0.0199	0.2043	0.1560	3.2000e-004	0.0109	8.9700e-003	0.0199	5.7200e-003	8.2500e-003	0.0140	0.0000	27.9201	27.9201	9.0300e-003	0.0000	28.1459

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

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	tons/yr										MT/yr					
Hauling	2.0000e-005	6.2000e-004	1.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3417	0.3417	2.0000e-005	0.0000	0.3421
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	3.7000e-004	4.3800e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9300e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.3903	1.3903	3.0000e-005	0.0000	1.3910
Total	6.4000e-004	9.9000e-004	4.5100e-003	2.0000e-005	2.0100e-003	1.0000e-005	2.0200e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7320	1.7320	5.0000e-005	0.0000	1.7331

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	tons/yr										MT/yr					
Off-Road	0.0942	0.7691	0.8571	1.5200e-003		0.0318	0.0318		0.0305	0.0305	0.0000	126.1134	126.1134	0.0241	0.0000	126.7164
Total	0.0942	0.7691	0.8571	1.5200e-003		0.0318	0.0318		0.0305	0.0305	0.0000	126.1134	126.1134	0.0241	0.0000	126.7164

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.8000e-004	0.0344	7.4000e-003	1.3000e-004	3.3200e-003	4.0000e-005	3.3600e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	12.3525	12.3525	6.9000e-004	0.0000	12.3699
Worker	0.0121	7.2100e-003	0.0849	3.0000e-004	0.0373	2.1000e-004	0.0375	9.9000e-003	1.9000e-004	0.0101	0.0000	26.9567	26.9567	5.2000e-004	0.0000	26.9697
Total	0.0130	0.0416	0.0923	4.3000e-004	0.0406	2.5000e-004	0.0409	0.0109	2.2000e-004	0.0111	0.0000	39.3092	39.3092	1.2100e-003	0.0000	39.3396

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0942	0.7691	0.8571	1.5200e-003		0.0318	0.0318		0.0305	0.0305	0.0000	126.1133	126.1133	0.0241	0.0000	126.7162
Total	0.0942	0.7691	0.8571	1.5200e-003		0.0318	0.0318		0.0305	0.0305	0.0000	126.1133	126.1133	0.0241	0.0000	126.7162

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.8000e-004	0.0344	7.4000e-003	1.3000e-004	3.3200e-003	4.0000e-005	3.3600e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	12.3525	12.3525	6.9000e-004	0.0000	12.3699
Worker	0.0121	7.2100e-003	0.0849	3.0000e-004	0.0373	2.1000e-004	0.0375	9.9000e-003	1.9000e-004	0.0101	0.0000	26.9567	26.9567	5.2000e-004	0.0000	26.9697
Total	0.0130	0.0416	0.0923	4.3000e-004	0.0406	2.5000e-004	0.0409	0.0109	2.2000e-004	0.0111	0.0000	39.3092	39.3092	1.2100e-003	0.0000	39.3396

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	tons/yr										MT/yr					
Off-Road	0.1076	0.8832	1.0407	1.8500e-003		0.0342	0.0342		0.0327	0.0327	0.0000	154.1385	154.1385	0.0291	0.0000	154.8649
Total	0.1076	0.8832	1.0407	1.8500e-003		0.0342	0.0342		0.0327	0.0327	0.0000	154.1385	154.1385	0.0291	0.0000	154.8649

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0416	8.7500e-003	1.6000e-004	4.0600e-003	4.0000e-005	4.1100e-003	1.1700e-003	4.0000e-005	1.2100e-003	0.0000	15.0009	15.0009	8.3000e-004	0.0000	15.0216
Worker	0.0140	8.0200e-003	0.0962	3.5000e-004	0.0456	2.5000e-004	0.0458	0.0121	2.3000e-004	0.0123	0.0000	31.6285	31.6285	5.7000e-004	0.0000	31.6428
Total	0.0150	0.0496	0.1050	5.1000e-004	0.0496	2.9000e-004	0.0499	0.0133	2.7000e-004	0.0136	0.0000	46.6294	46.6294	1.4000e-003	0.0000	46.6644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1076	0.8832	1.0407	1.8500e-003		0.0342	0.0342		0.0327	0.0327	0.0000	154.1383	154.1383	0.0291	0.0000	154.8647
Total	0.1076	0.8832	1.0407	1.8500e-003		0.0342	0.0342		0.0327	0.0327	0.0000	154.1383	154.1383	0.0291	0.0000	154.8647

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0416	8.7500e-003	1.6000e-004	4.0600e-003	4.0000e-005	4.1100e-003	1.1700e-003	4.0000e-005	1.2100e-003	0.0000	15.0009	15.0009	8.3000e-004	0.0000	15.0216
Worker	0.0140	8.0200e-003	0.0962	3.5000e-004	0.0456	2.5000e-004	0.0458	0.0121	2.3000e-004	0.0123	0.0000	31.6285	31.6285	5.7000e-004	0.0000	31.6428
Total	0.0150	0.0496	0.1050	5.1000e-004	0.0496	2.9000e-004	0.0499	0.0133	2.7000e-004	0.0136	0.0000	46.6294	46.6294	1.4000e-003	0.0000	46.6644

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	tons/yr										MT/yr					
Off-Road	2.8900e-003	0.0266	0.0436	7.0000e-005		1.2200e-003	1.2200e-003		1.1300e-003	1.1300e-003	0.0000	5.8688	5.8688	1.8500e-003	0.0000	5.9150
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.8900e-003	0.0266	0.0436	7.0000e-005		1.2200e-003	1.2200e-003		1.1300e-003	1.1300e-003	0.0000	5.8688	5.8688	1.8500e-003	0.0000	5.9150

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.7400e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5720	0.5720	1.0000e-005	0.0000	0.5723
Total	2.5000e-004	1.5000e-004	1.7400e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5720	0.5720	1.0000e-005	0.0000	0.5723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8900e-003	0.0266	0.0436	7.0000e-005		1.2200e-003	1.2200e-003		1.1300e-003	1.1300e-003	0.0000	5.8688	5.8688	1.8500e-003	0.0000	5.9150
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.8900e-003	0.0266	0.0436	7.0000e-005		1.2200e-003	1.2200e-003		1.1300e-003	1.1300e-003	0.0000	5.8688	5.8688	1.8500e-003	0.0000	5.9150

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.5000e-004	1.7400e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5720	0.5720	1.0000e-005	0.0000	0.5723
Total	2.5000e-004	1.5000e-004	1.7400e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5720	0.5720	1.0000e-005	0.0000	0.5723

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	tons/yr										MT/yr					
Archit. Coating	0.2534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1400e-003	7.6400e-003	0.0121	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.7022	1.7022	9.0000e-005	0.0000	1.7045
Total	0.2546	7.6400e-003	0.0121	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.7022	1.7022	9.0000e-005	0.0000	1.7045

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.2000e-004	1.3900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4576	0.4576	1.0000e-005	0.0000	0.4578
Total	2.0000e-004	1.2000e-004	1.3900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4576	0.4576	1.0000e-005	0.0000	0.4578

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1400e-003	7.6400e-003	0.0121	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.7022	1.7022	9.0000e-005	0.0000	1.7045
Total	0.2546	7.6400e-003	0.0121	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.7022	1.7022	9.0000e-005	0.0000	1.7045

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

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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.2000e-004	1.3900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4576	0.4576	1.0000e-005	0.0000	0.4578
Total	2.0000e-004	1.2000e-004	1.3900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4576	0.4576	1.0000e-005	0.0000	0.4578

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1178	0.8966	1.4863	7.8500e-003	0.6860	4.5100e-003	0.6906	0.1837	4.2000e-003	0.1879	0.0000	730.1501	730.1501	0.0301	0.0000	730.9018
Unmitigated	0.1178	0.8966	1.4863	7.8500e-003	0.6860	4.5100e-003	0.6906	0.1837	4.2000e-003	0.1879	0.0000	730.1501	730.1501	0.0301	0.0000	730.9018

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, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.8850	117.8850	4.8700e-003	1.0100e-003	118.3067
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.8850	117.8850	4.8700e-003	1.0100e-003	118.3067
NaturalGas Mitigated	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270
NaturalGas Unmitigated	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.19832e+006	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270
Total		6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.19832e+006	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270
Total		6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	369985	117.8850	4.8700e-003	1.0100e-003	118.3067
Total		117.8850	4.8700e-003	1.0100e-003	118.3067

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	369985	117.8850	4.8700e-003	1.0100e-003	118.3067
Total		117.8850	4.8700e-003	1.0100e-003	118.3067

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6084	0.0306	1.3494	1.3600e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498
Unmitigated	0.6084	0.0306	1.3494	1.3600e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2653	0.0210	0.5149	1.3100e-003		0.0773	0.0773		0.0773	0.0773	8.6037	16.5334	25.1372	0.0257	5.8000e-004	25.9527
Landscaping	0.0251	9.6100e-003	0.8345	4.0000e-005		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	1.3645	1.3645	1.3100e-003	0.0000	1.3972
Total	0.6084	0.0306	1.3494	1.3500e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2653	0.0210	0.5149	1.3100e-003		0.0773	0.0773		0.0773	0.0773	8.6037	16.5334	25.1372	0.0257	5.8000e-004	25.9527
Landscaping	0.0251	9.6100e-003	0.8345	4.0000e-005		4.6300e-003	4.6300e-003		4.6300e-003	4.6300e-003	0.0000	1.3645	1.3645	1.3100e-003	0.0000	1.3972
Total	0.6084	0.0306	1.3494	1.3500e-003		0.0820	0.0820		0.0820	0.0820	8.6037	17.8979	26.5017	0.0270	5.8000e-004	27.3498

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.3469	0.1734	4.3500e-003	40.9766
Unmitigated	35.3469	0.1734	4.3500e-003	40.9766

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.27748 / 3.3271	35.3469	0.1734	4.3500e-003	40.9766
Total		35.3469	0.1734	4.3500e-003	40.9766

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.27748 / 3.3271	35.3469	0.1734	4.3500e-003	40.9766
Total		35.3469	0.1734	4.3500e-003	40.9766

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.5634	0.4470	0.0000	18.7381
Unmitigated	7.5634	0.4470	0.0000	18.7381

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	37.26	7.5634	0.4470	0.0000	18.7381
Total		7.5634	0.4470	0.0000	18.7381

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	37.26	7.5634	0.4470	0.0000	18.7381
Total		7.5634	0.4470	0.0000	18.7381

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Adams Avenue - Phase II Construction - Riverside-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

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

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, Annual

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, Annual

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, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.0813	0.0813
		Highest	0.0813	0.0813

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498
Energy	0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	448.9677	448.9677	0.0150	5.3800e-003	450.9474
Mobile	0.1976	1.5040	2.4932	0.0132	1.1509	7.5700e-003	1.1584	0.3082	7.0500e-003	0.3153	0.0000	1,224.8474	1,224.8474	0.0504	0.0000	1,226.1084
Waste						0.0000	0.0000		0.0000	0.0000	18.6752	0.0000	18.6752	1.1037	0.0000	46.2669
Water						0.0000	0.0000		0.0000	0.0000	4.1341	83.1422	87.2763	0.4280	0.0107	101.1767
Total	1.0607	1.6641	4.6118	0.0142	1.1509	0.0300	1.1809	0.3082	0.0295	0.3377	22.8092	1,760.3265	1,783.1357	1.6004	0.0161	1,827.9491

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498
Energy	0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	448.9677	448.9677	0.0150	5.3800e-003	450.9474
Mobile	0.1976	1.5040	2.4932	0.0132	1.1509	7.5700e-003	1.1584	0.3082	7.0500e-003	0.3153	0.0000	1,224.8474	1,224.8474	0.0504	0.0000	1,226.1084
Waste						0.0000	0.0000		0.0000	0.0000	18.6752	0.0000	18.6752	1.1037	0.0000	46.2669
Water						0.0000	0.0000		0.0000	0.0000	4.1341	83.1422	87.2763	0.4280	0.0107	101.1767
Total	1.0607	1.6641	4.6118	0.0142	1.1509	0.0300	1.1809	0.3082	0.0295	0.3377	22.8092	1,760.3265	1,783.1357	1.6004	0.0161	1,827.9491

	ROG	NOx	CO	SO2	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

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

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

3.1 Mitigation Measures Construction

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
Total	6.8400e-003	0.0717	0.0590	1.2000e-004	0.0262	3.1000e-003	0.0293	0.0135	2.8500e-003	0.0163	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.7800e-003	7.7000e-004	2.0000e-005	5.2000e-004	1.0000e-005	5.2000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	2.0574	2.0574	1.0000e-004	0.0000	2.0600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.6000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4943	0.4943	1.0000e-005	0.0000	0.4946
Total	3.3000e-004	3.9200e-003	2.3700e-003	3.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	2.5518	2.5518	1.1000e-004	0.0000	2.5546

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

3.2 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
Total	6.8400e-003	0.0717	0.0590	1.2000e-004	0.0262	3.1000e-003	0.0293	0.0135	2.8500e-003	0.0163	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.7800e-003	7.7000e-004	2.0000e-005	5.2000e-004	1.0000e-005	5.2000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	2.0574	2.0574	1.0000e-004	0.0000	2.0600
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.6000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4943	0.4943	1.0000e-005	0.0000	0.4946
Total	3.3000e-004	3.9200e-003	2.3700e-003	3.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	2.5518	2.5518	1.1000e-004	0.0000	2.5546

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1976	1.5040	2.4932	0.0132	1.1509	7.5700e-003	1.1584	0.3082	7.0500e-003	0.3153	0.0000	1,224.8474	1,224.8474	0.0504	0.0000	1,226.1084
Unmitigated	0.1976	1.5040	2.4932	0.0132	1.1509	7.5700e-003	1.1584	0.3082	7.0500e-003	0.3153	0.0000	1,224.8474	1,224.8474	0.0504	0.0000	1,226.1084

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

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

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	291.0741	291.0741	0.0120	2.4900e-003	292.1154
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	291.0741	291.0741	0.0120	2.4900e-003	292.1154
NaturalGas Mitigated	0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8937	157.8937	3.0300e-003	2.8900e-003	158.8320
NaturalGas Unmitigated	0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8937	157.8937	3.0300e-003	2.8900e-003	158.8320

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.19832e+006	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270
Apartments Mid Rise	1.7605e+006	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050
Total		0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8937	157.8937	3.0300e-003	2.8900e-003	158.8320

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.19832e+006	6.4600e-003	0.0552	0.0235	3.5000e-004		4.4600e-003	4.4600e-003		4.4600e-003	4.4600e-003	0.0000	63.9469	63.9469	1.2300e-003	1.1700e-003	64.3270
Apartments Mid Rise	1.7605e+006	9.4900e-003	0.0811	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003	0.0000	93.9468	93.9468	1.8000e-003	1.7200e-003	94.5050
Total		0.0160	0.1363	0.0580	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.8937	157.8937	3.0300e-003	2.8900e-003	158.8320

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	369985	117.8850	4.8700e-003	1.0100e-003	118.3067
Apartments Mid Rise	543557	173.1891	7.1500e-003	1.4800e-003	173.8087
Total		291.0741	0.0120	2.4900e-003	292.1154

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	369985	117.8850	4.8700e-003	1.0100e-003	118.3067
Apartments Mid Rise	543557	173.1891	7.1500e-003	1.4800e-003	173.8087
Total		291.0741	0.0120	2.4900e-003	292.1154

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498
Unmitigated	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	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	0.0619	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498
Total	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498

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

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	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	0.0619	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498
Total	0.8471	0.0237	2.0606	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2300e-003	0.0000	3.4498

7.0 Water Detail**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	87.2763	0.4280	0.0107	101.1767
Unmitigated	87.2763	0.4280	0.0107	101.1767

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	5.27748 / 3.3271	35.3469	0.1734	4.3500e-003	40.9766
Apartments Mid Rise	7.75333 / 4.88797	51.9294	0.2547	6.3900e-003	60.2001
Total		87.2763	0.4280	0.0107	101.1767

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	5.27748 / 3.3271	35.3469	0.1734	4.3500e-003	40.9766
Apartments Mid Rise	7.75333 / 4.88797	51.9294	0.2547	6.3900e-003	60.2001
Total		87.2763	0.4280	0.0107	101.1767

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.6752	1.1037	0.0000	46.2669
Unmitigated	18.6752	1.1037	0.0000	46.2669

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	37.26	7.5634	0.4470	0.0000	18.7381
Apartments Mid Rise	54.74	11.1117	0.6567	0.0000	27.5288
Total		18.6752	1.1037	0.0000	46.2669

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	37.26	7.5634	0.4470	0.0000	18.7381
Apartments Mid Rise	54.74	11.1117	0.6567	0.0000	27.5288
Total		18.6752	1.1037	0.0000	46.2669

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Adams Avenue - Phase I & II Operational - Riverside-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
