

APPENDIX F - AIR QUALITY CALCULATION DATA

Camino Ruiz Apartment Community - Ventura County, Summer

**Camino Ruiz Apartment Community
Ventura County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	386.00	Dwelling Unit	9.10	386,000.00	965
Parking Lot	546.00	Space	4.90	218,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2024
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 - Project site lot area is approximately 14 acres. Population is estimated to be 965 persons based on a City average of 2.5 persons per apartment unit.

Construction Phase - Default dates changed to reflect anticipated construction schedule.

Vehicle Trips - Default trip generation rates changed to be consistent with project traffic report.

Energy Mitigation - Assumes a minimum building energy efficiency of 15% per CalGreen Code requirements.

Water Mitigation - Assumes indoor water use reduction features per CalGreen Code requirements.

Waste Mitigation - Assumes a minimum 79% reduction in solid waste per current City efforts.

Off-road Equipment - Default number of excavators reduced from 2 to 1 based on extended grading schedule and minimal excavation. Default grader deleted due to scraper use at the site.

Off-road Equipment - X.

Off-road Equipment -

Off-road Equipment - Default number of air compressors increased from 1 to 2.

Grading -

Construction Off-road Equipment Mitigation - Engine Tier 3 is evaluated as mitigation for grading phase equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	468.00
tblConstructionPhase	NumDays	20.00	50.00

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tblConstructionPhase	NumDays	30.00	79.00
tblConstructionPhase	NumDays	300.00	705.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	3/2/22	6/30/23
tblConstructionPhase	PhaseEndDate	1/5/22	2/27/21
tblConstructionPhase	PhaseEndDate	11/11/20	12/31/20
tblConstructionPhase	PhaseEndDate	2/2/22	5/31/23
tblConstructionPhase	PhaseStartDate	2/3/22	1/1/22
tblConstructionPhase	PhaseStartDate	11/12/20	1/1/21
tblConstructionPhase	PhaseStartDate	1/6/22	3/1/21
tblLandUse	LotAcreage	10.16	9.10
tblLandUse	LotAcreage	4.91	4.90
tblLandUse	Population	1,181.00	965.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	77.00
tblTripsAndVMT	VendorTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	WD_TR	6.65	6.00

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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.8518	31.1274	20.5715	0.0389	6.2305	1.3920	7.6225	2.6871	1.2806	3.9677	0.0000	3,766.3435	3,766.3435	1.1828	0.0000	3,795.9130
2021	3.1682	20.3760	26.0245	0.0555	3.0395	0.9797	4.0192	0.8062	0.9207	1.7269	0.0000	5,402.3233	5,402.3233	0.8792	0.0000	5,419.5108
2022	12.2561	19.2250	30.4875	0.0659	3.6474	0.9971	4.6445	0.9675	0.9473	1.9148	0.0000	6,410.2872	6,410.2872	0.7262	0.0000	6,428.4416
2023	12.0125	17.7067	29.5674	0.0646	3.6474	0.8655	4.5128	0.9675	0.8222	1.7897	0.0000	6,284.9844	6,284.9844	0.7115	0.0000	6,302.7718
Maximum	12.2561	31.1274	30.4875	0.0659	6.2305	1.3920	7.6225	2.6871	1.2806	3.9677	0.0000	6,410.2872	6,410.2872	1.1828	0.0000	6,428.4416

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439
Energy	0.1303	1.1137	0.4739	7.1100e-003		0.0900	0.0900		0.0900	0.0900		1,421.7565	1,421.7565	0.0273	0.0261	1,430.2053
Mobile	2.8698	9.9449	34.9285	0.1363	13.5439	0.1003	13.6442	3.6167	0.0931	3.7098		13,824.2997	13,824.2997	0.5039		13,836.8974
Total	13.4171	11.4259	67.2902	0.1451	13.5439	0.3670	13.9109	3.6167	0.3598	3.9765	0.0000	15,303.5168	15,303.5168	0.5865	0.0261	15,325.9466

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	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439
Energy	0.1202	1.0273	0.4371	6.5600e-003		0.0831	0.0831		0.0831	0.0831		1,311.4347	1,311.4347	0.0251	0.0240	1,319.2279
Mobile	2.8698	9.9449	34.9285	0.1363	13.5439	0.1003	13.6442	3.6167	0.0931	3.7098		13,824.2997	13,824.2997	0.5039		13,836.8974
Total	13.4069	11.3395	67.2534	0.1445	13.5439	0.3600	13.9039	3.6167	0.3528	3.9695	0.0000	15,193.1950	15,193.1950	0.5844	0.0240	15,214.9692

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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	0.08	0.76	0.05	0.38	0.00	1.90	0.05	0.00	1.94	0.18	0.00	0.72	0.72	0.36	7.79	0.72

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 & Utility Installation	Grading	10/1/2020	12/31/2020	6	79	
2	Paving and Concrete Installation	Paving	1/1/2021	2/27/2021	6	50	
3	Building Construction	Building Construction	3/1/2021	5/31/2023	6	705	
4	Architectural Coating	Architectural Coating	1/1/2022	6/30/2023	6	468	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.9

Residential Indoor: 781,650; Residential Outdoor: 260,550; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 13,104 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading & Utility Installation	Excavators	1	6.00	158	0.38
Grading & Utility Installation	Graders	0	8.00	187	0.41
Grading & Utility Installation	Rubber Tired Dozers	1	6.00	247	0.40
Grading & Utility Installation	Scrapers	2	6.00	367	0.48
Grading & Utility Installation	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving and Concrete Installation	Cranes	0		231	0.29
Paving and Concrete Installation	Forklifts	0		89	0.20
Paving and Concrete Installation	Generator Sets	0		84	0.74
Paving and Concrete Installation	Tractors/Loaders/Backhoes	0		97	0.37
Paving and Concrete Installation	Welders	0		46	0.45
Building Construction	Pavers	0		130	0.42
Building Construction	Paving Equipment	0		132	0.36
Building Construction	Rollers	0		80	0.38
Architectural Coating	Air Compressors	2	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving and Concrete Installation	Pavers	2	8.00	130	0.42
Paving and Concrete Installation	Paving Equipment	2	8.00	132	0.36
Paving and Concrete Installation	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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 & Utility Installation	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving and Concrete Installation	6	15.00	77.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	370.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	74.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading & Utility Installation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1073	0.0000	6.1073	2.6544	0.0000	2.6544			0.0000			0.0000
Off-Road	2.7970	31.0945	20.1570	0.0377		1.3911	1.3911		1.2798	1.2798		3,647.2711	3,647.2711	1.1796		3,676.7612
Total	2.7970	31.0945	20.1570	0.0377	6.1073	1.3911	7.4984	2.6544	1.2798	3.9343		3,647.2711	3,647.2711	1.1796		3,676.7612

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3.2 Grading & Utility Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0329	0.4145	1.2000e-003	0.1232	8.7000e-004	0.1241	0.0327	8.0000e-004	0.0335		119.0724	119.0724	3.1800e-003		119.1518
Total	0.0548	0.0329	0.4145	1.2000e-003	0.1232	8.7000e-004	0.1241	0.0327	8.0000e-004	0.0335		119.0724	119.0724	3.1800e-003		119.1518

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3819	0.0000	2.3819	1.0352	0.0000	1.0352			0.0000			0.0000
Off-Road	0.9253	18.2883	21.9666	0.0377		0.7964	0.7964		0.7964	0.7964	0.0000	3,647.2711	3,647.2711	1.1796		3,676.7612
Total	0.9253	18.2883	21.9666	0.0377	2.3819	0.7964	3.1782	1.0352	0.7964	1.8316	0.0000	3,647.2711	3,647.2711	1.1796		3,676.7612

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3.2 Grading & Utility Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0329	0.4145	1.2000e-003	0.1232	8.7000e-004	0.1241	0.0327	8.0000e-004	0.0335		119.0724	119.0724	3.1800e-003		119.1518
Total	0.0548	0.0329	0.4145	1.2000e-003	0.1232	8.7000e-004	0.1241	0.0327	8.0000e-004	0.0335		119.0724	119.0724	3.1800e-003		119.1518

3.3 Paving and Concrete Installation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5123	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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3.3 Paving and Concrete Installation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2162	7.4273	1.9034	0.0197	0.5205	0.0207	0.5412	0.1498	0.0198	0.1696		2,122.0099	2,122.0099	0.1624		2,126.0708
Worker	0.0514	0.0297	0.3831	1.1600e-003	0.1232	8.5000e-004	0.1241	0.0327	7.9000e-004	0.0335		115.4984	115.4984	2.9000e-003		115.5708
Total	0.2676	7.4569	2.2865	0.0209	0.6437	0.0215	0.6653	0.1825	0.0206	0.2030		2,237.5082	2,237.5082	0.1653		2,241.6416

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.2568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5123	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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3.3 Paving and Concrete Installation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2162	7.4273	1.9034	0.0197	0.5205	0.0207	0.5412	0.1498	0.0198	0.1696		2,122.0099	2,122.0099	0.1624		2,126.0708
Worker	0.0514	0.0297	0.3831	1.1600e-003	0.1232	8.5000e-004	0.1241	0.0327	7.9000e-004	0.0335		115.4984	115.4984	2.9000e-003		115.5708
Total	0.2676	7.4569	2.2865	0.0209	0.6437	0.0215	0.6653	0.1825	0.0206	0.2030		2,237.5082	2,237.5082	0.1653		2,241.6416

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	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	1.2672	0.7316	9.4493	0.0286	3.0395	0.0211	3.0605	0.8062	0.0194	0.8256		2,848.9594	2,848.9594	0.0715			2,850.7465
Total	1.2672	0.7316	9.4493	0.0286	3.0395	0.0211	3.0605	0.8062	0.0194	0.8256		2,848.9594	2,848.9594	0.0715			2,850.7465

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	1.6087	17.0084	16.7900	0.0269		0.9842	0.9842		0.9504	0.9504	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.6087	17.0084	16.7900	0.0269		0.9842	0.9842		0.9504	0.9504	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	1.2672	0.7316	9.4493	0.0286	3.0395	0.0211	3.0605	0.8062	0.0194	0.8256		2,848.9594	2,848.9594	0.0715		2,850.7465
Total	1.2672	0.7316	9.4493	0.0286	3.0395	0.0211	3.0605	0.8062	0.0194	0.8256		2,848.9594	2,848.9594	0.0715		2,850.7465

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Camino Ruiz Apartment Community - Ventura County, Summer

3.4 Building Construction - 2022

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	1.1916	0.6603	8.7474	0.0275	3.0395	0.0205	3.0600	0.8062	0.0189	0.8251		2,744.2146	2,744.2146	0.0647		2,745.8309
Total	1.1916	0.6603	8.7474	0.0275	3.0395	0.0205	3.0600	0.8062	0.0189	0.8251		2,744.2146	2,744.2146	0.0647		2,745.8309

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	1.4733	15.7699	16.6367	0.0269		0.8915	0.8915		0.8626	0.8626	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.4733	15.7699	16.6367	0.0269		0.8915	0.8915		0.8626	0.8626	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Camino Ruiz Apartment Community - Ventura County, Summer

3.4 Building Construction - 2022

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	1.1916	0.6603	8.7474	0.0275	3.0395	0.0205	3.0600	0.8062	0.0189	0.8251		2,744.2146	2,744.2146	0.0647		2,745.8309
Total	1.1916	0.6603	8.7474	0.0275	3.0395	0.0205	3.0600	0.8062	0.0189	0.8251		2,744.2146	2,744.2146	0.0647		2,745.8309

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Camino Ruiz Apartment Community - Ventura 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	0.0000	0.0000	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	1.1212	0.5965	8.0843	0.0265	3.0395	0.0201	3.0595	0.8062	0.0185	0.8247		2,639.065 3	2,639.065 3	0.0583		2,640.523 1
Total	1.1212	0.5965	8.0843	0.0265	3.0395	0.0201	3.0595	0.8062	0.0185	0.8247		2,639.065 3	2,639.065 3	0.0583		2,640.523 1

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	1.3748	14.9065	16.5347	0.0269		0.8198	0.8198		0.7944	0.7944	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.3748	14.9065	16.5347	0.0269		0.8198	0.8198		0.7944	0.7944	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Camino Ruiz Apartment Community - Ventura 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	0.0000	0.0000	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	1.1212	0.5965	8.0843	0.0265	3.0395	0.0201	3.0595	0.8062	0.0185	0.8247		2,639.065 3	2,639.065 3	0.0583		2,640.523 1
Total	1.1212	0.5965	8.0843	0.0265	3.0395	0.0201	3.0595	0.8062	0.0185	0.8247		2,639.065 3	2,639.065 3	0.0583		2,640.523 1

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.7109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123
Total	9.1200	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634		562.8961	562.8961	0.0367		563.8123

Camino Ruiz Apartment Community - Ventura County, Summer

3.5 Architectural Coating - 2022

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	0.2383	0.1321	1.7495	5.5100e-003	0.6079	4.1100e-003	0.6120	0.1612	3.7800e-003	0.1650		548.8429	548.8429	0.0129		549.1662
Total	0.2383	0.1321	1.7495	5.5100e-003	0.6079	4.1100e-003	0.6120	0.1612	3.7800e-003	0.1650		548.8429	548.8429	0.0129		549.1662

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	8.7109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4091	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634	0.0000	562.8961	562.8961	0.0367		563.8123
Total	9.1200	2.8170	3.6272	5.9400e-003		0.1634	0.1634		0.1634	0.1634	0.0000	562.8961	562.8961	0.0367		563.8123

Camino Ruiz Apartment Community - Ventura County, Summer

3.5 Architectural Coating - 2022

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	0.2383	0.1321	1.7495	5.5100e-003	0.6079	4.1100e-003	0.6120	0.1612	3.7800e-003	0.1650		548.8429	548.8429	0.0129		549.1662
Total	0.2383	0.1321	1.7495	5.5100e-003	0.6079	4.1100e-003	0.6120	0.1612	3.7800e-003	0.1650		548.8429	548.8429	0.0129		549.1662

3.5 Architectural Coating - 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					
Archit. Coating	8.7109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380
Total	9.0942	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416		562.8961	562.8961	0.0337		563.7380

Camino Ruiz Apartment Community - Ventura County, Summer

3.5 Architectural Coating - 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	0.2243	0.1193	1.6169	5.2900e-003	0.6079	4.0100e-003	0.6119	0.1612	3.7000e-003	0.1649		527.8131	527.8131	0.0117		528.1046
Total	0.2243	0.1193	1.6169	5.2900e-003	0.6079	4.0100e-003	0.6119	0.1612	3.7000e-003	0.1649		527.8131	527.8131	0.0117		528.1046

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	8.7109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3833	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380
Total	9.0942	2.6060	3.6222	5.9400e-003		0.1416	0.1416		0.1416	0.1416	0.0000	562.8961	562.8961	0.0337		563.7380

Camino Ruiz Apartment Community - Ventura County, Summer

3.5 Architectural Coating - 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	0.2243	0.1193	1.6169	5.2900e-003	0.6079	4.0100e-003	0.6119	0.1612	3.7000e-003	0.1649		527.8131	527.8131	0.0117		528.1046
Total	0.2243	0.1193	1.6169	5.2900e-003	0.6079	4.0100e-003	0.6119	0.1612	3.7000e-003	0.1649		527.8131	527.8131	0.0117		528.1046

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Camino Ruiz Apartment Community - Ventura 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	2.8698	9.9449	34.9285	0.1363	13.5439	0.1003	13.6442	3.6167	0.0931	3.7098		13,824.29 97	13,824.29 97	0.5039		13,836.89 74
Unmitigated	2.8698	9.9449	34.9285	0.1363	13.5439	0.1003	13.6442	3.6167	0.0931	3.7098		13,824.29 97	13,824.29 97	0.5039		13,836.89 74

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,316.00	2,316.00	2261.96	6,377,945	6,377,945
Parking Lot	0.00	0.00	0.00		
Total	2,316.00	2,316.00	2,261.96	6,377,945	6,377,945

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.597457	0.040465	0.187858	0.105115	0.017041	0.006067	0.020072	0.018206	0.001182	0.001040	0.003816	0.000389	0.001293
Parking Lot	0.597457	0.040465	0.187858	0.105115	0.017041	0.006067	0.020072	0.018206	0.001182	0.001040	0.003816	0.000389	0.001293

Camino Ruiz Apartment Community - Ventura County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.1202	1.0273	0.4371	6.5600e-003		0.0831	0.0831		0.0831	0.0831		1,311.4347	1,311.4347	0.0251	0.0240	1,319.2279
NaturalGas Unmitigated	0.1303	1.1137	0.4739	7.1100e-003		0.0900	0.0900		0.0900	0.0900		1,421.7565	1,421.7565	0.0273	0.0261	1,430.2053

Camino Ruiz Apartment Community - Ventura 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 Mid Rise	12084.9	0.1303	1.1137	0.4739	7.1100e-003		0.0900	0.0900		0.0900	0.0900		1,421.7565	1,421.7565	0.0273	0.0261	1,430.2053
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1303	1.1137	0.4739	7.1100e-003		0.0900	0.0900		0.0900	0.0900		1,421.7565	1,421.7565	0.0273	0.0261	1,430.2053

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	11.1472	0.1202	1.0273	0.4371	6.5600e-003		0.0831	0.0831		0.0831	0.0831		1,311.4347	1,311.4347	0.0251	0.0240	1,319.2279
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1202	1.0273	0.4371	6.5600e-003		0.0831	0.0831		0.0831	0.0831		1,311.4347	1,311.4347	0.0251	0.0240	1,319.2279

6.0 Area Detail

6.1 Mitigation Measures Area

Camino Ruiz Apartment Community - Ventura 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	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439
Unmitigated	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3378					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	0.9623	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766		57.4607	57.4607	0.0553		58.8439
Total	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439

Camino Ruiz Apartment Community - Ventura 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	1.1169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3378					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	0.9623	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766		57.4607	57.4607	0.0553		58.8439
Total	10.4169	0.3673	31.8878	1.6900e-003		0.1766	0.1766		0.1766	0.1766	0.0000	57.4607	57.4607	0.0553	0.0000	58.8439

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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