

APPENDIX B

CalEEMod Version 2020.4.0 Output Tables

For the

Village Specific Plan

January, 2022

Prepared for

Town of Apple Valley
14955 Dale Evans Parkway
Apple Valley, CA 92307

Prepared by

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Proposed Project Buildout

CalEEMod Outputs

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan, Apple Valley

Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,367.27	1000sqft	130.20	2,367,271.00	0
Research & Development	2,367.27	1000sqft	130.20	2,367,271.00	0
Apartments Low Rise	971.00	Dwelling Unit	130.20	971,000.00	2855
Strip Mall	2,761.82	1000sqft	130.20	2,761,816.00	0
High Turnover (Sit Down Restaurant)	394.55	1000sqft	130.20	394,545.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan proposed project buildout, 2040.

Land Use - Assumes same percentage land use breakdown used in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,761,820.00	2,761,816.00
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	60.69	130.20
tblLandUse	LotAcreage	63.40	130.20
tblLandUse	LotAcreage	9.06	130.20
tblLandUse	Population	2,777.00	2,855.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated 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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

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

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Highest		
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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	tons/yr										MT/yr					
Area	45.5365	0.4467	7.4047	2.7000e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515
Energy	1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	29,283.0481	29,283.0481	1.7301	0.3917	29,443.0217
Mobile	47.1931	66.1851	442.7621	0.8909	121.1697	0.5993	121.7690	32.3329	0.5639	32.8967	0.0000	89,614.3978	89,614.3978	4.9430	4.9189	91,203.8161
Waste						0.0000	0.0000		0.0000	0.0000	2,115.8113	0.0000	2,115.8113	125.0409	0.0000	5,241.8331
Water						0.0000	0.0000		0.0000	0.0000	625.7245	5,403.2877	6,029.0122	64.7240	1.5728	8,115.8009
Total	93.8781	77.0295	458.6204	0.9562	121.1697	1.4624	122.6321	32.3329	1.4270	33.7598	2,741.5359	124,733.2960	127,474.8319	196.4576	6.8911	134,439.8233

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	45.5365	0.4467	7.4047	2.7000e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515
Energy	1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	29,283.0481	29,283.0481	1.7301	0.3917	29,443.0217
Mobile	47.1931	66.1851	442.7621	0.8909	121.1697	0.5993	121.7690	32.3329	0.5639	32.8967	0.0000	89,614.3978	89,614.3978	4.9430	4.9189	91,203.8161
Waste						0.0000	0.0000		0.0000	0.0000	2,115.8113	0.0000	2,115.8113	125.0409	0.0000	5,241.8331
Water						0.0000	0.0000		0.0000	0.0000	625.7245	5,403.2877	6,029.0122	64.7240	1.5728	8,115.8009
Total	93.8781	77.0295	458.6204	0.9562	121.1697	1.4624	122.6321	32.3329	1.4270	33.7598	2,741.5359	124,733.2960	127,474.8319	196.4576	6.8911	134,439.8233

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	3,264.00	1,397.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	47.1931	66.1851	442.7621	0.8909	121.1697	0.5993	121.7690	32.3329	0.5639	32.8967	0.0000	89,614.3978	89,614.3978	4.9430	4.9189	91,203.8161
Unmitigated	47.1931	66.1851	442.7621	0.8909	121.1697	0.5993	121.7690	32.3329	0.5639	32.8967	0.0000	89,614.3978	89,614.3978	4.9430	4.9189	91,203.8161

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,282.24	5,282.24	5282.24	15,002,196	15,002,196
General Office Building	23,057.22	5,231.67	1657.09	41,709,672	41,709,672
Research & Development	26,655.47	4,497.81	2627.67	50,269,180	50,269,180
Strip Mall	104,258.55	104,258.55	104258.55	160,561,618	160,561,618
High Turnover (Sit Down Restaurant)	44,260.06	48,292.31	56277.90	54,013,713	54,013,713
Total	203,513.54	167,562.59	170,103.45	321,556,378	321,556,378

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	17,916.9036	17,916.9036	1.5123	0.1833	18,009.3339
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	17,916.9036	17,916.9036	1.5123	0.1833	18,009.3339
NaturalGas Mitigated	1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	11,366.1445	11,366.1445	0.2179	0.2084	11,433.6878
NaturalGas Unmitigated	1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	11,366.1445	11,366.1445	0.2179	0.2084	11,433.6878

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	1.46873e+007	0.0792	0.6768	0.2880	4.3200e-003		0.0547	0.0547		0.0547	0.0547	0.0000	783.7681	783.7681	0.0150	0.0144	788.4256
General Office Building	8.11974e+006	0.0438	0.3980	0.3343	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.3002	433.3002	8.3000e-003	7.9400e-003	435.8751
High Turnover (Sit Down Restaurant)	1.07577e+008	0.5801	5.2734	4.4296	0.0316		0.4008	0.4008		0.4008	0.4008	0.0000	5,740.6992	5,740.6992	0.1100	0.1053	5,774.8133
Research & Development	7.65339e+007	0.4127	3.7517	3.1514	0.0225		0.2851	0.2851		0.2851	0.2851	0.0000	4,084.1388	4,084.1388	0.0783	0.0749	4,108.4088
Strip Mall	6.076e+006	0.0328	0.2978	0.2502	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	324.2382	324.2382	6.2100e-003	5.9400e-003	326.1650
Total		1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	11,366.1445	11,366.1445	0.2178	0.2084	11,433.6878

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.46873e+007	0.0792	0.6768	0.2880	4.3200e-003		0.0547	0.0547		0.0547	0.0547	0.0000	783.7681	783.7681	0.0150	0.0144	788.4256
General Office Building	8.11974e+006	0.0438	0.3980	0.3343	2.3900e-003		0.0303	0.0303		0.0303	0.0303	0.0000	433.3002	433.3002	8.3000e-003	7.9400e-003	435.8751
High Turnover (Sit Down Restaurant)	1.07577e+008	0.5801	5.2734	4.4296	0.0316		0.4008	0.4008		0.4008	0.4008	0.0000	5,740.6992	5,740.6992	0.1100	0.1053	5,774.8133
Research & Development	7.65339e+007	0.4127	3.7517	3.1514	0.0225		0.2851	0.2851		0.2851	0.2851	0.0000	4,084.1388	4,084.1388	0.0783	0.0749	4,108.4088
Strip Mall	6.076e+006	0.0328	0.2978	0.2502	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	324.2382	324.2382	6.2100e-003	5.9400e-003	326.1650
Total		1.1485	10.3977	8.4535	0.0627		0.7935	0.7935		0.7935	0.7935	0.0000	11,366.1445	11,366.1445	0.2178	0.2084	11,433.6878

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4.04902e+006	718.0759	0.0606	7.3500e-003	721.7804
General Office Building	2.17552e+007	3,858.1914	0.3256	0.0395	3,878.0952
High Turnover (Sit Down Restaurant)	1.82122e+007	3,229.8520	0.2726	0.0330	3,246.5143
Research & Development	2.34833e+007	4,164.6637	0.3515	0.0426	4,186.1485
Strip Mall	3.35284e+007	5,946.1206	0.5019	0.0608	5,976.7956
Total		17,916.9036	1.5122	0.1833	18,009.3339

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4.04902e+006	718.0759	0.0606	7.3500e-003	721.7804
General Office Building	2.17552e+007	3,858.1914	0.3256	0.0395	3,878.0952
High Turnover (Sit Down Restaurant)	1.82122e+007	3,229.8520	0.2726	0.0330	3,246.5143
Research & Development	2.34833e+007	4,164.6637	0.3515	0.0426	4,186.1485
Strip Mall	3.35284e+007	5,946.1206	0.5019	0.0608	5,976.7956
Total		17,916.9036	1.5122	0.1833	18,009.3339

6.0 Area Detail

6.1 Mitigation Measures Area

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	45.5365	0.4467	7.4047	2.7000e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515
Unmitigated	45.5365	0.4467	7.4047	2.7000e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515

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	10.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.6102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0425	0.3632	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294	0.0000	420.6444	420.6444	8.0600e-003	7.7100e-003	423.1441
Landscaping	0.2213	0.0835	7.2502	3.9000e-004		0.0402	0.0402		0.0402	0.0402	0.0000	11.9181	11.9181	0.0116	0.0000	12.2074
Total	45.5365	0.4467	7.4047	2.7100e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	10.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	34.6102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0425	0.3632	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294	0.0000	420.6444	420.6444	8.0600e-003	7.7100e-003	423.1441
Landscaping	0.2213	0.0835	7.2502	3.9000e-004		0.0402	0.0402		0.0402	0.0402	0.0000	11.9181	11.9181	0.0116	0.0000	12.2074
Total	45.5365	0.4467	7.4047	2.7100e-003		0.0696	0.0696		0.0696	0.0696	0.0000	432.5624	432.5624	0.0196	7.7100e-003	435.3515

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6,029,012 2	64.7240	1.5728	8,115,800 9
Unmitigated	6,029,012 2	64.7240	1.5728	8,115,800 9

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	63.2646 / 39.8842	244.7466	2.0804	0.0510	311.9480
General Office Building	420.744 / 257.875	1,613.164 8	13.8348	0.3389	2,060.015 8
High Turnover (Sit Down Restaurant)	119.759 / 7.64421	329.6055	3.9270	0.0951	456.1274
Research & Development	1163.97 / 0	3,057.138 6	38.1549	0.9231	4,286.084 2
Strip Mall	204.575 / 125.385	784.3566	6.7268	0.1648	1,001.625 5
Total		6,029.012 2	64.7240	1.5728	8,115.800 9

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	63.2646 / 39.8842	244.7466	2.0804	0.0510	311.9480
General Office Building	420.744 / 257.875	1,613.1648	13.8348	0.3389	2,060.0158
High Turnover (Sit Down Restaurant)	119.759 / 7.64421	329.6055	3.9270	0.0951	456.1274
Research & Development	1163.97 / 0	3,057.1386	38.1549	0.9231	4,286.0842
Strip Mall	204.575 / 125.385	784.3566	6.7268	0.1648	1,001.6255
Total		6,029.0122	64.7240	1.5728	8,115.8009

8.0 Waste Detail

8.1 Mitigation Measures Waste

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,115.811 3	125.0409	0.0000	5,241.833 1
Unmitigated	2,115.811 3	125.0409	0.0000	5,241.833 1

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	446.66	90.6679	5.3583	0.0000	224.6260
General Office Building	2201.56	446.8968	26.4108	0.0000	1,107.1679
High Turnover (Sit Down Restaurant)	4695.15	953.0730	56.3250	0.0000	2,361.1981
Research & Development	179.9	36.5181	2.1582	0.0000	90.4720
Strip Mall	2899.91	588.6555	34.7885	0.0000	1,458.3691
Total		2,115.811 3	125.0409	0.0000	5,241.833 0

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	446.66	90.6679	5.3583	0.0000	224.6260
General Office Building	2201.56	446.8968	26.4108	0.0000	1,107.1679
High Turnover (Sit Down Restaurant)	4695.15	953.0730	56.3250	0.0000	2,361.1981
Research & Development	179.9	36.5181	2.1582	0.0000	90.4720
Strip Mall	2899.91	588.6555	34.7885	0.0000	1,458.3691
Total		2,115.8113	125.0409	0.0000	5,241.8330

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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Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Village Specific Plan, Apple Valley
Mojave Desert Air Basin, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,367.27	1000sqft	130.20	2,367,271.00	0
Research & Development	2,367.27	1000sqft	130.20	2,367,271.00	0
Apartments Low Rise	971.00	Dwelling Unit	130.20	971,000.00	2855
Strip Mall	2,761.82	1000sqft	130.20	2,761,816.00	0
High Turnover (Sit Down Restaurant)	394.55	1000sqft	130.20	394,545.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan proposed project buildout, 2040.

Land Use - Assumes same percentage land use breakdown used in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,761,820.00	2,761,816.00
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	60.69	130.20
tblLandUse	LotAcreage	63.40	130.20
tblLandUse	LotAcreage	9.06	130.20
tblLandUse	Population	2,777.00	2,855.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Energy	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
Mobile	373.1970	379.1250	2,820.6268	5.8963	765.0815	3.7096	768.7911	203.8548	3.4903	207.3452		654,546.9970	654,546.9970	31.6705	32.2826	664,958.9867
Total	631.0551	445.8852	2,951.2746	6.3004	765.0815	9.2209	774.3024	203.8548	9.0017	212.8565	0.0000	734,654.4797	734,654.4797	33.3449	33.7486	745,545.1844

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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Energy	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
Mobile	373.1970	379.1250	2,820.6268	5.8963	765.0815	3.7096	768.7911	203.8548	3.4903	207.3452		654,546.9970	654,546.9970	31.6705	32.2826	664,958.9867
Total	631.0551	445.8852	2,951.2746	6.3004	765.0815	9.2209	774.3024	203.8548	9.0017	212.8565	0.0000	734,654.4797	734,654.4797	33.3449	33.7486	745,545.1844

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	3,264.00	1,397.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	373.1970	379.1250	2,820.6268	5.8963	765.0815	3.7096	768.7911	203.8548	3.4903	207.3452		654,546.9970	654,546.9970	31.6705	32.2826	664,958.9867
Unmitigated	373.1970	379.1250	2,820.6268	5.8963	765.0815	3.7096	768.7911	203.8548	3.4903	207.3452		654,546.9970	654,546.9970	31.6705	32.2826	664,958.9867

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,282.24	5,282.24	5282.24	15,002,196	15,002,196
General Office Building	23,057.22	5,231.67	1657.09	41,709,672	41,709,672
Research & Development	26,655.47	4,497.81	2627.67	50,269,180	50,269,180
Strip Mall	104,258.55	104,258.55	104258.55	160,561,618	160,561,618
High Turnover (Sit Down Restaurant)	44,260.06	48,292.31	56277.90	54,013,713	54,013,713
Total	203,513.54	167,562.59	170,103.45	321,556,378	321,556,378

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

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
	lb/day										lb/day					
NaturalGas Mitigated	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
NaturalGas Unmitigated	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	40239.1	0.4340	3.7083	1.5780	0.0237		0.2998	0.2998		0.2998	0.2998		4,734.0076	4,734.0076	0.0907	0.0868	4,762.1395
General Office Building	22245.9	0.2399	2.1810	1.8320	0.0131		0.1658	0.1658		0.1658	0.1658		2,617.1602	2,617.1602	0.0502	0.0480	2,632.7127
High Turnover (Sit Down Restaurant)	294731	3.1785	28.8952	24.2719	0.1734		2.1960	2.1960		2.1960	2.1960		34,674.1788	34,674.1788	0.6646	0.6357	34,880.2301
Research & Development	209682	2.2613	20.5570	17.2679	0.1233		1.5623	1.5623		1.5623	1.5623		24,668.4517	24,668.4517	0.4728	0.4523	24,815.0440
Strip Mall	16646.6	0.1795	1.6320	1.3709	9.7900e-003		0.1240	0.1240		0.1240	0.1240		1,958.4191	1,958.4191	0.0375	0.0359	1,970.0570
Total		6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	40.2391	0.4340	3.7083	1.5780	0.0237		0.2998	0.2998		0.2998	0.2998		4,734.0076	4,734.0076	0.0907	0.0868	4,762.1395
General Office Building	22.2459	0.2399	2.1810	1.8320	0.0131		0.1658	0.1658		0.1658	0.1658		2,617.1602	2,617.1602	0.0502	0.0480	2,632.7127
High Turnover (Sit Down Restaurant)	294.731	3.1785	28.8952	24.2719	0.1734		2.1960	2.1960		2.1960	2.1960		34,674.1788	34,674.1788	0.6646	0.6357	34,880.2301
Research & Development	209.682	2.2613	20.5570	17.2679	0.1233		1.5623	1.5623		1.5623	1.5623		24,668.4517	24,668.4517	0.4728	0.4523	24,815.0440
Strip Mall	16.6466	0.1795	1.6320	1.3709	9.7900e-003		0.1240	0.1240		0.1240	0.1240		1,958.4191	1,958.4191	0.0375	0.0359	1,970.0570
Total		6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

6.0 Area Detail

6.1 Mitigation Measures Area

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Unmitigated	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145

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	58.4248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	189.6447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0367	8.8590	3.7698	0.0566		0.7163	0.7163		0.7163	0.7163	0.0000	11,309.2941	11,309.2941	0.2168	0.2073	11,376.4996
Landscaping	2.4587	0.9278	80.5573	4.2900e-003		0.4471	0.4471		0.4471	0.4471		145.9712	145.9712	0.1418		149.5149
Total	251.5650	9.7867	84.3271	0.0608		1.1634	1.1634		1.1634	1.1634	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	58.4248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	189.6447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0367	8.8590	3.7698	0.0566		0.7163	0.7163		0.7163	0.7163	0.0000	11,309.29 41	11,309.29 41	0.2168	0.2073	11,376.49 96
Landscaping	2.4587	0.9278	80.5573	4.2900e-003		0.4471	0.4471		0.4471	0.4471		145.9712	145.9712	0.1418		149.5149
Total	251.5650	9.7867	84.3271	0.0608		1.1634	1.1634		1.1634	1.1634	0.0000	11,455.26 54	11,455.26 54	0.3585	0.2073	11,526.01 45

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Village Specific Plan, Apple Valley
Mojave Desert Air Basin, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2,367.27	1000sqft	130.20	2,367,271.00	0
Research & Development	2,367.27	1000sqft	130.20	2,367,271.00	0
Apartments Low Rise	971.00	Dwelling Unit	130.20	971,000.00	2855
Strip Mall	2,761.82	1000sqft	130.20	2,761,816.00	0
High Turnover (Sit Down Restaurant)	394.55	1000sqft	130.20	394,545.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan proposed project buildout, 2040.

Land Use - Assumes same percentage land use breakdown used in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,367,270.00	2,367,271.00
tblLandUse	LandUseSquareFeet	2,761,820.00	2,761,816.00
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	54.35	130.20
tblLandUse	LotAcreage	60.69	130.20
tblLandUse	LotAcreage	63.40	130.20
tblLandUse	LotAcreage	9.06	130.20
tblLandUse	Population	2,777.00	2,855.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Energy	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
Mobile	292.0640	406.4759	2,596.2493	5.4161	765.0815	3.7186	768.8001	203.8548	3.4989	207.3538		600,382.2840	600,382.2840	33.0124	33.0285	611,050.0900
Total	549.9221	473.2362	2,726.8972	5.8202	765.0815	9.2299	774.3114	203.8548	9.0102	212.8651	0.0000	680,489.7667	680,489.7667	34.6867	34.4945	691,636.2876

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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Energy	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
Mobile	292.0640	406.4759	2,596.2493	5.4161	765.0815	3.7186	768.8001	203.8548	3.4989	207.3538		600,382.2840	600,382.2840	33.0124	33.0285	611,050.0900
Total	549.9221	473.2362	2,726.8972	5.8202	765.0815	9.2299	774.3114	203.8548	9.0102	212.8651	0.0000	680,489.7667	680,489.7667	34.6867	34.4945	691,636.2876

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	3,264.00	1,397.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	292.0640	406.4759	2,596.2493	5.4161	765.0815	3.7186	768.8001	203.8548	3.4989	207.3538		600,382.2840	600,382.2840	33.0124	33.0285	611,050.0900
Unmitigated	292.0640	406.4759	2,596.2493	5.4161	765.0815	3.7186	768.8001	203.8548	3.4989	207.3538		600,382.2840	600,382.2840	33.0124	33.0285	611,050.0900

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,282.24	5,282.24	5282.24	15,002,196	15,002,196
General Office Building	23,057.22	5,231.67	1657.09	41,709,672	41,709,672
Research & Development	26,655.47	4,497.81	2627.67	50,269,180	50,269,180
Strip Mall	104,258.55	104,258.55	104258.55	160,561,618	160,561,618
High Turnover (Sit Down Restaurant)	44,260.06	48,292.31	56277.90	54,013,713	54,013,713
Total	203,513.54	167,562.59	170,103.45	321,556,378	321,556,378

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

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
	lb/day										lb/day					
NaturalGas Mitigated	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832
NaturalGas Unmitigated	6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	40239.1	0.4340	3.7083	1.5780	0.0237		0.2998	0.2998		0.2998	0.2998		4,734.0076	4,734.0076	0.0907	0.0868	4,762.1395
General Office Building	22245.9	0.2399	2.1810	1.8320	0.0131		0.1658	0.1658		0.1658	0.1658		2,617.1602	2,617.1602	0.0502	0.0480	2,632.7127
High Turnover (Sit Down Restaurant)	294731	3.1785	28.8952	24.2719	0.1734		2.1960	2.1960		2.1960	2.1960		34,674.1788	34,674.1788	0.6646	0.6357	34,880.2301
Research & Development	209682	2.2613	20.5570	17.2679	0.1233		1.5623	1.5623		1.5623	1.5623		24,668.4517	24,668.4517	0.4728	0.4523	24,815.0440
Strip Mall	16646.6	0.1795	1.6320	1.3709	9.7900e-003		0.1240	0.1240		0.1240	0.1240		1,958.4191	1,958.4191	0.0375	0.0359	1,970.0570
Total		6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	40.2391	0.4340	3.7083	1.5780	0.0237		0.2998	0.2998		0.2998	0.2998		4,734.0076	4,734.0076	0.0907	0.0868	4,762.1395
General Office Building	22.2459	0.2399	2.1810	1.8320	0.0131		0.1658	0.1658		0.1658	0.1658		2,617.1602	2,617.1602	0.0502	0.0480	2,632.7127
High Turnover (Sit Down Restaurant)	294.731	3.1785	28.8952	24.2719	0.1734		2.1960	2.1960		2.1960	2.1960		34,674.1788	34,674.1788	0.6646	0.6357	34,880.2301
Research & Development	209.682	2.2613	20.5570	17.2679	0.1233		1.5623	1.5623		1.5623	1.5623		24,668.4517	24,668.4517	0.4728	0.4523	24,815.0440
Strip Mall	16.6466	0.1795	1.6320	1.3709	9.7900e-003		0.1240	0.1240		0.1240	0.1240		1,958.4191	1,958.4191	0.0375	0.0359	1,970.0570
Total		6.2931	56.9735	46.3208	0.3433		4.3480	4.3480		4.3480	4.3480		68,652.2174	68,652.2174	1.3158	1.2586	69,060.1832

6.0 Area Detail

6.1 Mitigation Measures Area

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145
Unmitigated	251.5650	9.7867	84.3271	0.0608		1.1633	1.1633		1.1633	1.1633	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145

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	58.4248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	189.6447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0367	8.8590	3.7698	0.0566		0.7163	0.7163		0.7163	0.7163	0.0000	11,309.2941	11,309.2941	0.2168	0.2073	11,376.4996
Landscaping	2.4587	0.9278	80.5573	4.2900e-003		0.4471	0.4471		0.4471	0.4471		145.9712	145.9712	0.1418		149.5149
Total	251.5650	9.7867	84.3271	0.0608		1.1634	1.1634		1.1634	1.1634	0.0000	11,455.2654	11,455.2654	0.3585	0.2073	11,526.0145

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	58.4248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	189.6447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0367	8.8590	3.7698	0.0566		0.7163	0.7163		0.7163	0.7163	0.0000	11,309.29 41	11,309.29 41	0.2168	0.2073	11,376.49 96
Landscaping	2.4587	0.9278	80.5573	4.2900e-003		0.4471	0.4471		0.4471	0.4471		145.9712	145.9712	0.1418		149.5149
Total	251.5650	9.7867	84.3271	0.0608		1.1634	1.1634		1.1634	1.1634	0.0000	11,455.26 54	11,455.26 54	0.3585	0.2073	11,526.01 45

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Alternative 1
Buildout

CalEEMod Outputs

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan, Apple Valley - Existing Conditions

Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	789.00	Dwelling Unit	70.00	789,000.00	2257
Strip Mall	7,236.97	1000sqft	581.00	7,236,965.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan area 2040 buildout under existing conditions.

Land Use - Based on existing land use table. Commercial, service commercial, and public facility are the only non-residential uses currently allowed in the SP area.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	7,236,970.00	7,236,965.00

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	49.31	70.00
tblLandUse	LotAcreage	166.14	581.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated 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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

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

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Highest	
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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	tons/yr										MT/yr					
Area	41.1805	0.3631	6.0243	2.2000e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668
Energy	0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	17,650.9714	17,650.9714	1.3928	0.1926	17,743.1947
Mobile	65.9653	91.7045	609.4042	1.2041	163.1341	0.8130	163.9471	43.5306	0.7648	44.2954	0.0000	121,114.8783	121,114.8783	6.8251	6.7646	123,301.3607
Waste						0.0000	0.0000		0.0000	0.0000	1,616.1653	0.0000	1,616.1653	95.5126	0.0000	4,003.9812
Water						0.0000	0.0000		0.0000	0.0000	186.3762	2,067.7949	2,254.1711	19.3172	0.4732	2,878.0998
Total	107.2960	93.3979	616.3181	1.2145	163.1341	0.9733	164.1074	43.5306	0.9252	44.4558	1,802.5416	141,185.1442	142,987.6857	123.0637	7.4367	148,280.4032

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	41.1805	0.3631	6.0243	2.2000e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668
Energy	0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	17,650.9714	17,650.9714	1.3928	0.1926	17,743.1947
Mobile	65.9653	91.7045	609.4042	1.2041	163.1341	0.8130	163.9471	43.5306	0.7648	44.2954	0.0000	121,114.8783	121,114.8783	6.8251	6.7646	123,301.3607
Waste						0.0000	0.0000		0.0000	0.0000	1,616.1653	0.0000	1,616.1653	95.5126	0.0000	4,003.9812
Water						0.0000	0.0000		0.0000	0.0000	186.3762	2,067.7949	2,254.1711	19.3172	0.4732	2,878.0998
Total	107.2960	93.3979	616.3181	1.2145	163.1341	0.9733	164.1074	43.5306	0.9252	44.4558	1,802.5416	141,185.1442	142,987.6857	123.0637	7.4367	148,280.4032

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	2,884.00	1,270.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	65.9653	91.7045	609.4042	1.2041	163.1341	0.8130	163.9471	43.5306	0.7648	44.2954	0.0000	121,114.8783	121,114.8783	6.8251	6.7646	123,301.3607
Unmitigated	65.9653	91.7045	609.4042	1.2041	163.1341	0.8130	163.9471	43.5306	0.7648	44.2954	0.0000	121,114.8783	121,114.8783	6.8251	6.7646	123,301.3607

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	4,292.16	4,292.16	4292.16	12,190,250	12,190,250
Strip Mall	273,195.43	273,195.43	273195.43	420,729,987	420,729,987
Total	277,487.59	277,487.59	277,487.59	432,920,236	432,920,236

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16,164.4870	16,164.4870	1.3643	0.1654	16,247.8769
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16,164.4870	16,164.4870	1.3643	0.1654	16,247.8769
NaturalGas Mitigated	0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.4844	1,486.4844	0.0285	0.0273	1,495.3179
NaturalGas Unmitigated	0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.4844	1,486.4844	0.0285	0.0273	1,495.3179

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	1.19343e+007	0.0644	0.5499	0.2340	3.5100e-003		0.0445	0.0445		0.0445	0.0445	0.0000	636.8620	636.8620	0.0122	0.0117	640.6465
Strip Mall	1.59213e+007	0.0859	0.7805	0.6556	4.6800e-003		0.0593	0.0593		0.0593	0.0593	0.0000	849.6224	849.6224	0.0163	0.0156	854.6713
Total		0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.4844	1,486.4844	0.0285	0.0273	1,495.3179

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.19343e+007	0.0644	0.5499	0.2340	3.5100e-003		0.0445	0.0445		0.0445	0.0445	0.0000	636.8620	636.8620	0.0122	0.0117	640.6465
Strip Mall	1.59213e+007	0.0859	0.7805	0.6556	4.6800e-003		0.0593	0.0593		0.0593	0.0593	0.0000	849.6224	849.6224	0.0163	0.0156	854.6713
Total		0.1502	1.3304	0.8896	8.1900e-003		0.1038	0.1038		0.1038	0.1038	0.0000	1,486.4844	1,486.4844	0.0285	0.0273	1,495.3179

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.29009e+006	583.4829	0.0493	5.9700e-003	586.4930
Strip Mall	8.78568e+007	15,581.0041	1.3151	0.1594	15,661.3839
Total		16,164.4870	1.3643	0.1654	16,247.8769

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3.29009e+006	583.4829	0.0493	5.9700e-003	586.4930
Strip Mall	8.78568e+007	15,581.0041	1.3151	0.1594	15,661.3839
Total		16,164.4870	1.3643	0.1654	16,247.8769

6.0 Area Detail

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	41.1805	0.3631	6.0243	2.2000e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668
Unmitigated	41.1805	0.3631	6.0243	2.2000e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	9.6201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	31.3454					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0345	0.2951	0.1256	1.8800e-003		0.0239	0.0239		0.0239	0.0239	0.0000	341.8006	341.8006	6.5500e-003	6.2700e-003	343.8318
Landscaping	0.1805	0.0679	5.8988	3.1000e-004		0.0327	0.0327		0.0327	0.0327	0.0000	9.6989	9.6989	9.4400e-003	0.0000	9.9350
Total	41.1805	0.3631	6.0243	2.1900e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	9.6201					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	31.3454					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0345	0.2951	0.1256	1.8800e-003		0.0239	0.0239		0.0239	0.0239	0.0000	341.8006	341.8006	6.5500e-003	6.2700e-003	343.8318
Landscaping	0.1805	0.0679	5.8988	3.1000e-004		0.0327	0.0327		0.0327	0.0327	0.0000	9.6989	9.6989	9.4400e-003	0.0000	9.9350
Total	41.1805	0.3631	6.0243	2.1900e-003		0.0566	0.0566		0.0566	0.0566	0.0000	351.4996	351.4996	0.0160	6.2700e-003	353.7668

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,254.171 1	19.3172	0.4732	2,878.099 8
Unmitigated	2,254.171 1	19.3172	0.4732	2,878.099 8

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	51.4065 / 32.4085	198.8724	1.6905	0.0414	253.4779
Strip Mall	536.061 / 328.553	2,055.298 7	17.6267	0.4317	2,624.622 0
Total		2,254.171 1	19.3172	0.4732	2,878.099 8

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	51.4065 / 32.4085	198.8724	1.6905	0.0414	253.4779
Strip Mall	536.061 / 328.553	2,055.2987	17.6267	0.4317	2,624.6220
Total		2,254.1711	19.3172	0.4732	2,878.0998

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,616.1653	95.5126	0.0000	4,003.9812
Unmitigated	1,616.1653	95.5126	0.0000	4,003.9812

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	362.94	73.6735	4.3540	0.0000	182.5231
Strip Mall	7598.82	1,542.4918	91.1587	0.0000	3,821.4581
Total		1,616.1653	95.5126	0.0000	4,003.9812

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	362.94	73.6735	4.3540	0.0000	182.5231
Strip Mall	7598.82	1,542.4918	91.1587	0.0000	3,821.4581
Total		1,616.1653	95.5126	0.0000	4,003.9812

9.0 Operational Offroad

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan, Apple Valley - Existing Conditions

Mojave Desert Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	789.00	Dwelling Unit	70.00	789,000.00	2257
Strip Mall	7,236.97	1000sqft	581.00	7,236,965.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan area 2040 buildout under existing conditions.

Land Use - Based on existing land use table. Commercial, service commercial, and public facility are the only non-residential uses currently allowed in the SP area.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	7,236,970.00	7,236,965.00

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	49.31	70.00
tblLandUse	LotAcreage	166.14	581.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Energy	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
Mobile	469.3684	468.8486	3,441.3967	7.0671	913.0350	4.4673	917.5024	243.2768	4.2026	247.4795		784,474.9156	784,474.9156	38.8480	39.5248	797,224.4906
Total	697.5078	484.0914	3,514.8761	7.1615	913.0350	5.9816	919.0166	243.2768	5.7169	248.9937	0.0000	802,761.6946	802,761.6946	39.3118	39.8578	815,622.1239

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	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Energy	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
Mobile	469.3684	468.8486	3,441.3967	7.0671	913.0350	4.4673	917.5024	243.2768	4.2026	247.4795		784,474.9156	784,474.9156	38.8480	39.5248	797,224.4906
Total	697.5078	484.0914	3,514.8761	7.1615	913.0350	5.9816	919.0166	243.2768	5.7169	248.9937	0.0000	802,761.6946	802,761.6946	39.3118	39.8578	815,622.1239

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	2,884.00	1,270.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	469.3684	468.8486	3,441.3967	7.0671	913.0350	4.4673	917.5024	243.2768	4.2026	247.4795		784,474.9156	784,474.9156	38.8480	39.5248	797,224.4906
Unmitigated	469.3684	468.8486	3,441.3967	7.0671	913.0350	4.4673	917.5024	243.2768	4.2026	247.4795		784,474.9156	784,474.9156	38.8480	39.5248	797,224.4906

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	4,292.16	4,292.16	4292.16	12,190,250	12,190,250
Strip Mall	273,195.43	273,195.43	273195.43	420,729,987	420,729,987
Total	277,487.59	277,487.59	277,487.59	432,920,236	432,920,236

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
NaturalGas Unmitigated	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	32696.8	0.3526	3.0132	1.2822	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.6859	3,846.6859	0.0737	0.0705	3,869.5448
Strip Mall	43620.1	0.4704	4.2765	3.5922	0.0257		0.3250	0.3250		0.3250	0.3250		5,131.7721	5,131.7721	0.0984	0.0941	5,162.2677
Total		0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

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 Low Rise	32.6968	0.3526	3.0132	1.2822	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.6859	3,846.6859	0.0737	0.0705	3,869.5448
Strip Mall	43.6201	0.4704	4.2765	3.5922	0.0257		0.3250	0.3250		0.3250	0.3250		5,131.7721	5,131.7721	0.0984	0.0941	5,162.2677
Total		0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

6.0 Area Detail

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Unmitigated	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	52.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	171.7557					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8424	7.1985	3.0632	0.0460		0.5820	0.5820		0.5820	0.5820	0.0000	9,189.529 4	9,189.529 4	0.1761	0.1685	9,244.138 2
Landscaping	2.0055	0.7546	65.5417	3.4900e-003		0.3636	0.3636		0.3636	0.3636		118.7916	118.7916	0.1156		121.6827
Total	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.321 0	9,308.321 0	0.2918	0.1685	9,365.820 9

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	52.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	171.7557					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8424	7.1985	3.0632	0.0460		0.5820	0.5820		0.5820	0.5820	0.0000	9,189.529 4	9,189.529 4	0.1761	0.1685	9,244.138 2
Landscaping	2.0055	0.7546	65.5417	3.4900e-003		0.3636	0.3636		0.3636	0.3636		118.7916	118.7916	0.1156		121.6827
Total	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.321 0	9,308.321 0	0.2918	0.1685	9,365.820 9

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan, Apple Valley - Existing Conditions

Mojave Desert Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	789.00	Dwelling Unit	70.00	789,000.00	2257
Strip Mall	7,236.97	1000sqft	581.00	7,236,965.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan area 2040 buildout under existing conditions.

Land Use - Based on existing land use table. Commercial, service commercial, and public facility are the only non-residential uses currently allowed in the SP area.

Construction Phase - Construction emissions are not being analyzed, program EIR is not development specific.

Vehicle Trips - Trip rates adjusted per traffic report. Assumes default trip lengths and distribution.

Woodstoves - The use of wood burning appliances is unlikely.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00
tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	7,236,970.00	7,236,965.00

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	49.31	70.00
tblLandUse	LotAcreage	166.14	581.00
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Energy	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
Mobile	364.9734	502.7692	3,183.3236	6.4946	913.0350	4.4789	917.5139	243.2768	4.2137	247.4905		719,898.1928	719,898.1928	40.6056	40.4501	732,967.4619
Total	593.1127	518.0120	3,256.8030	6.5890	913.0350	5.9931	919.0281	243.2768	5.7279	249.0047	0.0000	738,184.9718	738,184.9718	41.0695	40.7832	751,365.0953

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	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Energy	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
Mobile	364.9734	502.7692	3,183.3236	6.4946	913.0350	4.4789	917.5139	243.2768	4.2137	247.4905		719,898.1928	719,898.1928	40.6056	40.4501	732,967.4619
Total	593.1127	518.0120	3,256.8030	6.5890	913.0350	5.9931	919.0281	243.2768	5.7279	249.0047	0.0000	738,184.9718	738,184.9718	41.0695	40.7832	751,365.0953

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	2,884.00	1,270.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	364.9734	502.7692	3,183.3236	6.4946	913.0350	4.4789	917.5139	243.2768	4.2137	247.4905		719,898.1928	719,898.1928	40.6056	40.4501	732,967.4619
Unmitigated	364.9734	502.7692	3,183.3236	6.4946	913.0350	4.4789	917.5139	243.2768	4.2137	247.4905		719,898.1928	719,898.1928	40.6056	40.4501	732,967.4619

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	4,292.16	4,292.16	4292.16	12,190,250	12,190,250
Strip Mall	273,195.43	273,195.43	273195.43	420,729,987	420,729,987
Total	277,487.59	277,487.59	277,487.59	432,920,236	432,920,236

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125
NaturalGas Unmitigated	0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	32696.8	0.3526	3.0132	1.2822	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.6859	3,846.6859	0.0737	0.0705	3,869.5448
Strip Mall	43620.1	0.4704	4.2765	3.5922	0.0257		0.3250	0.3250		0.3250	0.3250		5,131.7721	5,131.7721	0.0984	0.0941	5,162.2677
Total		0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

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 Low Rise	32.6968	0.3526	3.0132	1.2822	0.0192		0.2436	0.2436		0.2436	0.2436		3,846.6859	3,846.6859	0.0737	0.0705	3,869.5448
Strip Mall	43.6201	0.4704	4.2765	3.5922	0.0257		0.3250	0.3250		0.3250	0.3250		5,131.7721	5,131.7721	0.0984	0.0941	5,162.2677
Total		0.8230	7.2897	4.8745	0.0449		0.5686	0.5686		0.5686	0.5686		8,978.4580	8,978.4580	0.1721	0.1646	9,031.8125

6.0 Area Detail

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209
Unmitigated	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.3210	9,308.3210	0.2918	0.1685	9,365.8209

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	52.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	171.7557					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8424	7.1985	3.0632	0.0460		0.5820	0.5820		0.5820	0.5820	0.0000	9,189.529 4	9,189.529 4	0.1761	0.1685	9,244.138 2
Landscaping	2.0055	0.7546	65.5417	3.4900e-003		0.3636	0.3636		0.3636	0.3636		118.7916	118.7916	0.1156		121.6827
Total	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.321 0	9,308.321 0	0.2918	0.1685	9,365.820 9

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	52.7128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	171.7557					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.8424	7.1985	3.0632	0.0460		0.5820	0.5820		0.5820	0.5820	0.0000	9,189.529 4	9,189.529 4	0.1761	0.1685	9,244.138 2
Landscaping	2.0055	0.7546	65.5417	3.4900e-003		0.3636	0.3636		0.3636	0.3636		118.7916	118.7916	0.1156		121.6827
Total	227.3163	7.9531	68.6049	0.0494		0.9456	0.9456		0.9456	0.9456	0.0000	9,308.321 0	9,308.321 0	0.2918	0.1685	9,365.820 9

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan, Apple Valley - Existing Conditions - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Alternative 2
Buildout

CalEEMod Outputs

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan Alternative 2, Apple Valley

Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,240.61	1000sqft	130.20	1,240,608.00	0
Research & Development	1,240.61	1000sqft	130.20	1,240,608.00	0
High Turnover (Sit Down Restaurant)	206.77	1000sqft	130.20	206,768.00	0
Apartments Low Rise	526.00	Dwelling Unit	130.20	526,000.00	1504
Strip Mall	1,447.38	1000sqft	130.20	1,447,376.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan Alternative 2 buildout, 2040.

Land Use - Assumes same percentage land use breakdown used for the Proposed Project in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions not calculated for program EIR.

Vehicle Trips - Assumes same trip rates as proposed project - see Traffic Report.

Woodstoves - No wood burning appliances.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,447,380.00	1,447,376.00
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	4.75	130.20
tblLandUse	LotAcreage	32.88	130.20
tblLandUse	LotAcreage	33.23	130.20
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated 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	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

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

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Highest	
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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	tons/yr										MT/yr					
Area	23.9624	0.2420	4.0099	1.4600e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314
Energy	0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	15,372.7706	15,372.7706	0.9080	0.2057	15,456.7550
Mobile	24.7617	34.7297	232.3491	0.4676	63.6008	0.3145	63.9153	16.9712	0.2959	17.2671	0.0000	47,035.8681	47,035.8681	2.5939	2.5813	47,869.9546
Waste						0.0000	0.0000		0.0000	0.0000	1,110.4255	0.0000	1,110.4255	65.6243	0.0000	2,751.0322
Water						0.0000	0.0000		0.0000	0.0000	328.2761	2,835.6519	3,163.9279	33.9564	0.8251	4,258.7319
Total	49.3274	40.4327	240.7943	0.5020	63.6008	0.7691	64.3698	16.9712	0.7505	17.7217	1,438.7016	65,478.6113	66,917.3128	103.0932	3.6163	70,572.3051

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	23.9624	0.2420	4.0099	1.4600e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314
Energy	0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	15,372.7706	15,372.7706	0.9080	0.2057	15,456.7550
Mobile	24.7617	34.7297	232.3491	0.4676	63.6008	0.3145	63.9153	16.9712	0.2959	17.2671	0.0000	47,035.8681	47,035.8681	2.5939	2.5813	47,869.9546
Waste						0.0000	0.0000		0.0000	0.0000	1,110.4255	0.0000	1,110.4255	65.6243	0.0000	2,751.0322
Water						0.0000	0.0000		0.0000	0.0000	328.2761	2,835.6519	3,163.9279	33.9564	0.8251	4,258.7319
Total	49.3274	40.4327	240.7943	0.5020	63.6008	0.7691	64.3698	16.9712	0.7505	17.7217	1,438.7016	65,478.6113	66,917.3128	103.0932	3.6163	70,572.3051

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	1,723.00	734.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	24.7617	34.7297	232.3491	0.4676	63.6008	0.3145	63.9153	16.9712	0.2959	17.2671	0.0000	47,035.86 81	47,035.86 81	2.5939	2.5813	47,869.95 46
Unmitigated	24.7617	34.7297	232.3491	0.4676	63.6008	0.3145	63.9153	16.9712	0.2959	17.2671	0.0000	47,035.86 81	47,035.86 81	2.5939	2.5813	47,869.95 46

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,861.44	2,861.44	2861.44	8,126,833	8,126,833
General Office Building	12,083.52	2,741.74	868.43	21,858,652	21,858,652
Research & Development	13,969.25	2,357.16	1377.07	26,344,405	26,344,405
Strip Mall	54,638.44	54,638.44	54638.44	84,145,009	84,145,009
High Turnover (Sit Down Restaurant)	23,195.23	25,308.40	29493.39	28,306,802	28,306,802
Total	106,747.89	87,907.19	89,238.77	168,781,702	168,781,702

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	9,402.3231	9,402.3231	0.7936	0.0962	9,450.8281
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,402.3231	9,402.3231	0.7936	0.0962	9,450.8281
Natural Gas Mitigated	0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	5,970.4475	5,970.4475	0.1144	0.1095	6,005.9269
Natural Gas Unmitigated	0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	5,970.4475	5,970.4475	0.1144	0.1095	6,005.9269

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	7.95623e+006	0.0429	0.3666	0.1560	2.3400e-003		0.0296	0.0296		0.0296	0.0296	0.0000	424.5747	424.5747	8.1400e-003	7.7800e-003	427.0977
General Office Building	4.25529e+006	0.0230	0.2086	0.1752	1.2500e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.0782	227.0782	4.3500e-003	4.1600e-003	228.4277
High Turnover (Sit Down Restaurant)	5.63774e+007	0.3040	2.7636	2.3214	0.0166		0.2100	0.2100		0.2100	0.2100	0.0000	3,008.5108	3,008.5108	0.0577	0.0552	3,026.3889
Research & Development	4.01089e+007	0.2163	1.9661	1.6515	0.0118		0.1494	0.1494		0.1494	0.1494	0.0000	2,140.3613	2,140.3613	0.0410	0.0392	2,153.0804
Strip Mall	3.18423e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	169.9225	169.9225	3.2600e-003	3.1200e-003	170.9323
Total		0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	5,970.4475	5,970.4475	0.1144	0.1095	6,005.9269

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	7.95623e+006	0.0429	0.3666	0.1560	2.3400e-003		0.0296	0.0296		0.0296	0.0296	0.0000	424.5747	424.5747	8.1400e-003	7.7800e-003	427.0977
General Office Building	4.25529e+006	0.0230	0.2086	0.1752	1.2500e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.0782	227.0782	4.3500e-003	4.1600e-003	228.4277
High Turnover (Sit Down Restaurant)	5.63774e+007	0.3040	2.7636	2.3214	0.0166		0.2100	0.2100		0.2100	0.2100	0.0000	3,008.5108	3,008.5108	0.0577	0.0552	3,026.3889
Research & Development	4.01089e+007	0.2163	1.9661	1.6515	0.0118		0.1494	0.1494		0.1494	0.1494	0.0000	2,140.3613	2,140.3613	0.0410	0.0392	2,153.0804
Strip Mall	3.18423e+006	0.0172	0.1561	0.1311	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	169.9225	169.9225	3.2600e-003	3.1200e-003	170.9323
Total		0.6033	5.4610	4.4353	0.0329		0.4168	0.4168		0.4168	0.4168	0.0000	5,970.4475	5,970.4475	0.1144	0.1095	6,005.9269

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	2.19339e+006	388.9886	0.0328	3.9800e-003	390.9953
General Office Building	1.14012e+007	2,021.9498	0.1707	0.0207	2,032.3807
High Turnover (Sit Down Restaurant)	9.54441e+006	1,692.6588	0.1429	0.0173	1,701.3909
Research & Development	1.23068e+007	2,182.5617	0.1842	0.0223	2,193.8212
Strip Mall	1.75711e+007	3,116.1642	0.2630	0.0319	3,132.2400
Total		9,402.3231	0.7936	0.0962	9,450.8281

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Low Rise	2.19339e+006	388.9886	0.0328	3.9800e-003	390.9953
General Office Building	1.14012e+007	2,021.9498	0.1707	0.0207	2,032.3807
High Turnover (Sit Down Restaurant)	9.54441e+006	1,692.6588	0.1429	0.0173	1,701.3909
Research & Development	1.23068e+007	2,182.5617	0.1842	0.0223	2,193.8212
Strip Mall	1.75711e+007	3,116.1642	0.2630	0.0319	3,132.2400
Total		9,402.3231	0.7936	0.0962	9,450.8281

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	23.9624	0.2420	4.0099	1.4600e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314
Unmitigated	23.9624	0.2420	4.0099	1.4600e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.6147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	18.2049					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0230	0.1968	0.0837	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.8671	227.8671	4.3700e-003	4.1800e-003	229.2212
Landscaping	0.1198	0.0452	3.9262	2.1000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	6.4536	6.4536	6.2600e-003	0.0000	6.6102
Total	23.9624	0.2420	4.0099	1.4700e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.6147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	18.2049					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0230	0.1968	0.0837	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	227.8671	227.8671	4.3700e-003	4.1800e-003	229.2212
Landscaping	0.1198	0.0452	3.9262	2.1000e-004		0.0218	0.0218		0.0218	0.0218	0.0000	6.4536	6.4536	6.2600e-003	0.0000	6.6102
Total	23.9624	0.2420	4.0099	1.4700e-003		0.0377	0.0377		0.0377	0.0377	0.0000	234.3207	234.3207	0.0106	4.1800e-003	235.8314

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,163.9279	33.9564	0.8251	4,258.7319
Unmitigated	3,163.9279	33.9564	0.8251	4,258.7319

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	34.271 / 21.6056	132.5816	1.1270	0.0276	168.9852
General Office Building	220.498 / 135.144	845.4078	7.2504	0.1776	1,079.5880
High Turnover (Sit Down Restaurant)	62.7617 / 4.00606	172.7348	2.0580	0.0499	239.0406
Research & Development	610 / 0	1,602.1480	19.9958	0.4838	2,246.1988
Strip Mall	107.211 / 65.71	411.0558	3.5253	0.0864	524.9193
Total		3,163.9279	33.9564	0.8252	4,258.7319

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	34.271 / 21.6056	132.5816	1.1270	0.0276	168.9852
General Office Building	220.498 / 135.144	845.4078	7.2504	0.1776	1,079.5880
High Turnover (Sit Down Restaurant)	62.7617 / 4.00606	172.7348	2.0580	0.0499	239.0406
Research & Development	610 / 0	1,602.1480	19.9958	0.4838	2,246.1988
Strip Mall	107.211 / 65.71	411.0558	3.5253	0.0864	524.9193
Total		3,163.9279	33.9564	0.8252	4,258.7319

8.0 Waste Detail

8.1 Mitigation Measures Waste

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,110.425 5	65.6243	0.0000	2,751.032 2
Unmitigated	1,110.425 5	65.6243	0.0000	2,751.032 2

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	241.96	49.1157	2.9027	0.0000	121.6821
General Office Building	1153.77	234.2049	13.8411	0.0000	580.2327
High Turnover (Sit Down Restaurant)	2460.56	499.4714	29.5179	0.0000	1,237.419 4
Research & Development	94.28	19.1380	1.1310	0.0000	47.4136
Strip Mall	1519.75	308.4955	18.2316	0.0000	764.2846
Total		1,110.425 5	65.6243	0.0000	2,751.032 2

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	241.96	49.1157	2.9027	0.0000	121.6821
General Office Building	1153.77	234.2049	13.8411	0.0000	580.2327
High Turnover (Sit Down Restaurant)	2460.56	499.4714	29.5179	0.0000	1,237.4194
Research & Development	94.28	19.1380	1.1310	0.0000	47.4136
Strip Mall	1519.75	308.4955	18.2316	0.0000	764.2846
Total		1,110.4255	65.6243	0.0000	2,751.0322

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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Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan Alternative 2, Apple Valley

Mojave Desert Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,240.61	1000sqft	130.20	1,240,608.00	0
Research & Development	1,240.61	1000sqft	130.20	1,240,608.00	0
High Turnover (Sit Down Restaurant)	206.77	1000sqft	130.20	206,768.00	0
Apartments Low Rise	526.00	Dwelling Unit	130.20	526,000.00	1504
Strip Mall	1,447.38	1000sqft	130.20	1,447,376.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10	Operational Year		2040	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan Alternative 2 buildout, 2040.

Land Use - Assumes same percentage land use breakdown used for the Proposed Project in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions not calculated for program EIR.

Vehicle Trips - Assumes same trip rates as proposed project - see Traffic Report.

Woodstoves - No wood burning appliances.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,447,380.00	1,447,376.00
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	4.75	130.20
tblLandUse	LotAcreage	32.88	130.20
tblLandUse	LotAcreage	33.23	130.20
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Energy	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
Mobile	195.7766	198.9116	1,480.0169	3.0943	401.5120	1.9467	403.4587	106.9823	1.8316	108.8139		343,493.3329	343,493.3329	16.6173	16.9387	348,956.4839
Total	331.4930	234.1364	1,549.9866	3.3075	401.5120	4.8607	406.3728	106.9823	4.7457	111.7280	0.0000	385,760.6024	385,760.6024	17.5026	17.7121	391,476.3746

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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Energy	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
Mobile	195.7766	198.9116	1,480.0169	3.0943	401.5120	1.9467	403.4587	106.9823	1.8316	108.8139		343,493.3329	343,493.3329	16.6173	16.9387	348,956.4839
Total	331.4930	234.1364	1,549.9866	3.3075	401.5120	4.8607	406.3728	106.9823	4.7457	111.7280	0.0000	385,760.6024	385,760.6024	17.5026	17.7121	391,476.3746

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	1,723.00	734.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	195.7766	198.9116	1,480.0169	3.0943	401.5120	1.9467	403.4587	106.9823	1.8316	108.8139		343,493.329	343,493.329	16.6173	16.9387	348,956.4839
Unmitigated	195.7766	198.9116	1,480.0169	3.0943	401.5120	1.9467	403.4587	106.9823	1.8316	108.8139		343,493.329	343,493.329	16.6173	16.9387	348,956.4839

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,861.44	2,861.44	2861.44	8,126,833	8,126,833
General Office Building	12,083.52	2,741.74	868.43	21,858,652	21,858,652
Research & Development	13,969.25	2,357.16	1377.07	26,344,405	26,344,405
Strip Mall	54,638.44	54,638.44	54638.44	84,145,009	84,145,009
High Turnover (Sit Down Restaurant)	23,195.23	25,308.40	29493.39	28,306,802	28,306,802
Total	106,747.89	87,907.19	89,238.77	168,781,702	168,781,702

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

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
NaturalGas Mitigated	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
NaturalGas Unmitigated	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	21797.9	0.2351	2.0088	0.8548	0.0128		0.1624	0.1624		0.1624	0.1624		2,564.4573	2,564.4573	0.0492	0.0470	2,579.6966
General Office Building	11658.3	0.1257	1.1430	0.9601	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,371.5666	1,371.5666	0.0263	0.0252	1,379.7172
High Turnover (Sit Down Restaurant)	154459	1.6657	15.1430	12.7201	0.0909		1.1509	1.1509		1.1509	1.1509		18,171.5916	18,171.5916	0.3483	0.3332	18,279.5763
Research & Development	109887	1.1851	10.7733	9.0495	0.0646		0.8188	0.8188		0.8188	0.8188		12,927.9151	12,927.9151	0.2478	0.2370	13,004.7393
Strip Mall	8723.91	0.0941	0.8553	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.3424	1,026.3424	0.0197	0.0188	1,032.4414
Total		3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8729	36,061.8729	0.6912	0.6612	36,276.1706

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	21.7979	0.2351	2.0088	0.8548	0.0128		0.1624	0.1624		0.1624	0.1624		2,564.4573	2,564.4573	0.0492	0.0470	2,579.6966
General Office Building	11.6583	0.1257	1.1430	0.9601	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,371.5666	1,371.5666	0.0263	0.0252	1,379.7172
High Turnover (Sit Down Restaurant)	154.459	1.6657	15.1430	12.7201	0.0909		1.1509	1.1509		1.1509	1.1509		18,171.5916	18,171.5916	0.3483	0.3332	18,279.5763
Research & Development	109.887	1.1851	10.7733	9.0495	0.0646		0.8188	0.8188		0.8188	0.8188		12,927.9151	12,927.9151	0.2478	0.2370	13,004.7393
Strip Mall	8.72391	0.0941	0.8553	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.3424	1,026.3424	0.0197	0.0188	1,032.4414
Total		3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8729	36,061.8729	0.6912	0.6612	36,276.1706

6.0 Area Detail

6.1 Mitigation Measures Area

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Unmitigated	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

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	30.7654					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	99.7531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5616	4.7990	2.0421	0.0306		0.3880	0.3880		0.3880	0.3880	0.0000	6,126.3529	6,126.3529	0.1174	0.1123	6,162.7588
Landscaping	1.3306	0.5025	43.6246	2.3200e-003		0.2421	0.2421		0.2421	0.2421		79.0435	79.0435	0.0767		80.9612
Total	132.4107	5.3015	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	30.7654					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	99.7531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5616	4.7990	2.0421	0.0306		0.3880	0.3880		0.3880	0.3880	0.0000	6,126.3529	6,126.3529	0.1174	0.1123	6,162.7588
Landscaping	1.3306	0.5025	43.6246	2.3200e-003		0.2421	0.2421		0.2421	0.2421		79.0435	79.0435	0.0767		80.9612
Total	132.4107	5.3015	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Village Specific Plan Alternative 2, Apple Valley

Mojave Desert Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,240.61	1000sqft	130.20	1,240,608.00	0
Research & Development	1,240.61	1000sqft	130.20	1,240,608.00	0
High Turnover (Sit Down Restaurant)	206.77	1000sqft	130.20	206,768.00	0
Apartments Low Rise	526.00	Dwelling Unit	130.20	526,000.00	1504
Strip Mall	1,447.38	1000sqft	130.20	1,447,376.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10	Operational Year		2040	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Village Specific Plan Alternative 2 buildout, 2040.

Land Use - Assumes same percentage land use breakdown used for the Proposed Project in the Traffic Report: Office = 30%; Industrial R&D = 30%; Restaurant = 5%; Strip mall (retail) = 35%.

Construction Phase - Construction emissions not calculated for program EIR.

Vehicle Trips - Assumes same trip rates as proposed project - see Traffic Report.

Woodstoves - No wood burning appliances.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10,850.00	0.00

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	PhaseEndDate	8/13/2063	1/10/2022
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,240,610.00	1,240,608.00
tblLandUse	LandUseSquareFeet	1,447,380.00	1,447,376.00
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	28.48	130.20
tblLandUse	LotAcreage	4.75	130.20
tblLandUse	LotAcreage	32.88	130.20
tblLandUse	LotAcreage	33.23	130.20
tblVehicleTrips	ST_TR	8.14	5.44
tblVehicleTrips	ST_TR	42.04	37.75
tblVehicleTrips	SU_TR	6.28	5.44
tblVehicleTrips	SU_TR	20.43	37.75
tblVehicleTrips	WD_TR	7.32	5.44
tblVehicleTrips	WD_TR	44.32	37.75
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Energy	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
Mobile	153.2222	213.2612	1,362.2338	2.8423	401.5120	1.9514	403.4634	106.9823	1.8361	108.8184		315,067.6884	315,067.6884	17.3210	17.3300	320,665.0453
Total	288.9386	248.4860	1,432.2035	3.0555	401.5120	4.8654	406.3775	106.9823	4.7502	111.7325	0.0000	357,334.9578	357,334.9578	18.2063	18.1034	363,184.9360

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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Energy	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
Mobile	153.2222	213.2612	1,362.2338	2.8423	401.5120	1.9514	403.4634	106.9823	1.8361	108.8184		315,067.6884	315,067.6884	17.3210	17.3300	320,665.0453
Total	288.9386	248.4860	1,432.2035	3.0555	401.5120	4.8654	406.3775	106.9823	4.7502	111.7325	0.0000	357,334.9578	357,334.9578	18.2063	18.1034	363,184.9360

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/11/2022	1/10/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	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
Building Construction	9	1,723.00	734.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	153.2222	213.2612	1,362.2338	2.8423	401.5120	1.9514	403.4634	106.9823	1.8361	108.8184		315,067.6884	315,067.6884	17.3210	17.3300	320,665.0453
Unmitigated	153.2222	213.2612	1,362.2338	2.8423	401.5120	1.9514	403.4634	106.9823	1.8361	108.8184		315,067.6884	315,067.6884	17.3210	17.3300	320,665.0453

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,861.44	2,861.44	2861.44	8,126,833	8,126,833
General Office Building	12,083.52	2,741.74	868.43	21,858,652	21,858,652
Research & Development	13,969.25	2,357.16	1377.07	26,344,405	26,344,405
Strip Mall	54,638.44	54,638.44	54638.44	84,145,009	84,145,009
High Turnover (Sit Down Restaurant)	23,195.23	25,308.40	29493.39	28,306,802	28,306,802
Total	106,747.89	87,907.19	89,238.77	168,781,702	168,781,702

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60	86	11	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
General Office Building	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
High Turnover (Sit Down Restaurant)	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Research & Development	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990
Strip Mall	0.558438	0.059028	0.175146	0.118987	0.021855	0.006453	0.007820	0.022821	0.000510	0.000171	0.024746	0.001037	0.002990

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
	lb/day										lb/day					
NaturalGas Mitigated	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706
NaturalGas Unmitigated	3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8730	36,061.8730	0.6912	0.6611	36,276.1706

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	21797.9	0.2351	2.0088	0.8548	0.0128		0.1624	0.1624		0.1624	0.1624		2,564.4573	2,564.4573	0.0492	0.0470	2,579.6966
General Office Building	11658.3	0.1257	1.1430	0.9601	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,371.5666	1,371.5666	0.0263	0.0252	1,379.7172
High Turnover (Sit Down Restaurant)	154459	1.6657	15.1430	12.7201	0.0909		1.1509	1.1509		1.1509	1.1509		18,171.5916	18,171.5916	0.3483	0.3332	18,279.5763
Research & Development	109887	1.1851	10.7733	9.0495	0.0646		0.8188	0.8188		0.8188	0.8188		12,927.9151	12,927.9151	0.2478	0.2370	13,004.7393
Strip Mall	8723.91	0.0941	0.8553	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.3424	1,026.3424	0.0197	0.0188	1,032.4414
Total		3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8729	36,061.8729	0.6912	0.6612	36,276.1706

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	21.7979	0.2351	2.0088	0.8548	0.0128		0.1624	0.1624		0.1624	0.1624		2,564.4573	2,564.4573	0.0492	0.0470	2,579.6966
General Office Building	11.6583	0.1257	1.1430	0.9601	6.8600e-003		0.0869	0.0869		0.0869	0.0869		1,371.5666	1,371.5666	0.0263	0.0252	1,379.7172
High Turnover (Sit Down Restaurant)	154.459	1.6657	15.1430	12.7201	0.0909		1.1509	1.1509		1.1509	1.1509		18,171.5916	18,171.5916	0.3483	0.3332	18,279.5763
Research & Development	109.887	1.1851	10.7733	9.0495	0.0646		0.8188	0.8188		0.8188	0.8188		12,927.9151	12,927.9151	0.2478	0.2370	13,004.7393
Strip Mall	8.72391	0.0941	0.8553	0.7184	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.3424	1,026.3424	0.0197	0.0188	1,032.4414
Total		3.3057	29.9233	24.3030	0.1803		2.2839	2.2839		2.2839	2.2839		36,061.8729	36,061.8729	0.6912	0.6612	36,276.1706

6.0 Area Detail

6.1 Mitigation Measures Area

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200
Unmitigated	132.4107	5.3014	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

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	30.7654					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	99.7531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5616	4.7990	2.0421	0.0306		0.3880	0.3880		0.3880	0.3880	0.0000	6,126.3529	6,126.3529	0.1174	0.1123	6,162.7588
Landscaping	1.3306	0.5025	43.6246	2.3200e-003		0.2421	0.2421		0.2421	0.2421		79.0435	79.0435	0.0767		80.9612
Total	132.4107	5.3015	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	30.7654					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	99.7531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5616	4.7990	2.0421	0.0306		0.3880	0.3880		0.3880	0.3880	0.0000	6,126.3529	6,126.3529	0.1174	0.1123	6,162.7588
Landscaping	1.3306	0.5025	43.6246	2.3200e-003		0.2421	0.2421		0.2421	0.2421		79.0435	79.0435	0.0767		80.9612
Total	132.4107	5.3015	45.6667	0.0330		0.6301	0.6301		0.6301	0.6301	0.0000	6,205.3965	6,205.3965	0.1941	0.1123	6,243.7200

7.0 Water Detail

7.1 Mitigation Measures Water

Village Specific Plan Alternative 2, Apple Valley - Mojave Desert Air Basin, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
