

Appendix C

Greenhouse Gas Modeling Results

Los Altos HE - GHG - Bay Area AQMD Air District, Annual

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

**Los Altos HE - GHG
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	156.00	Dwelling Unit	50.65	280,800.00	446
Apartments Low Rise	1,027.00	Dwelling Unit	64.19	1,027,000.00	2805
Apartments Mid Rise	465.00	Dwelling Unit	12.24	465,000.00	1330

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2031
Utility Company	Silicon Valley Clean Energy				
CO2 Intensity (lb/MW hr)	2	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - IS-MND envisions growth of 156 single family units, 1,027 low rise units, and 465 mid rise units. Population adjusted to match Pop and Housing estimate of 4,581 new residents.

Construction Phase - Operational model, no construction

Off-road Equipment - Operational model, no construction

Vehicle Trips - Default trip generation rates used

Woodstoves - BAAQMD Regulation 6 Rule 3, no woodburning devices. All-electric appliances pursuant to City's Reach Code.

Area Coating - BAAQMD Regulation 8 Rule 3, Nonflat coating

Energy Use - City's all-electric ordinance pursuant to Reach Code

Water And Wastewater - Palo Alto Regional Water Quality Control Plant 100% aerobic

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Area Mitigation -

Energy Mitigation - Pursuant to Section 150.1(c)(14) of the 2019 Building Energy Efficiency Standards, low-rise residential up to 3 stories must install PV systems. Percentage is proportional to types of units.

Water Mitigation - Pursuant to CALGreen 20% indoor water use reduction

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	150
tblConstructionPhase	NumDays	220.00	1.00
tblConstructionPhase	PhaseEndDate	9/15/2038	11/12/2037
tblEnergyUse	NT24E	3,172.76	4,097.39
tblEnergyUse	NT24E	3,054.10	3,978.73
tblEnergyUse	NT24E	6,155.97	7,080.60
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	T24E	77.89	2,045.21
tblEnergyUse	T24E	70.89	1,602.67
tblEnergyUse	T24E	68.41	6,948.12
tblEnergyUse	T24NG	6,712.79	0.00
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	23,474.54	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00

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tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	154.05	0.00
tblFireplaces	NumberGas	69.75	0.00
tblFireplaces	NumberGas	39.00	0.00
tblFireplaces	NumberNoFireplace	41.08	0.00
tblFireplaces	NumberNoFireplace	18.60	0.00
tblFireplaces	NumberNoFireplace	12.48	0.00
tblFireplaces	NumberWood	174.59	0.00
tblFireplaces	NumberWood	79.05	0.00
tblFireplaces	NumberWood	67.08	0.00
tblLandUse	Population	2,937.00	2,805.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.54	0.00
tblWoodstoves	NumberCatalytic	9.30	0.00
tblWoodstoves	NumberCatalytic	6.24	0.00
tblWoodstoves	NumberNoncatalytic	20.54	0.00
tblWoodstoves	NumberNoncatalytic	9.30	0.00
tblWoodstoves	NumberNoncatalytic	6.24	0.00

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tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2037											0.0000	0.6997	0.6997	1.0000e-005	1.0000e-005	0.7036
Maximum											0.0000	0.6997	0.6997	1.0000e-005	1.0000e-005	0.7036

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					
2037											0.0000	0.6997	0.6997	1.0000e-005	1.0000e-005	0.7036
Maximum											0.0000	0.6997	0.6997	1.0000e-005	1.0000e-005	0.7036

	ROG	NOx	CO	SO2	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)

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		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											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644
Energy											0.0000	11.3582	11.3582	0.0000	0.0000	11.3582
Mobile											0.0000	7,369.877 4	7,369.877 4	0.4412	0.3366	7,481.216 3
Waste											177.3410	0.0000	177.3410	10.4806	0.0000	439.3549
Water											37.9890	0.7420	38.7310	0.1308	0.0826	66.6188
Total											215.3301	7,401.965 8	7,617.295 9	11.0716	0.4192	8,019.012 6

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644
Energy											0.0000	3.1803	3.1803	0.0000	0.0000	3.1803
Mobile											0.0000	7,369.8774	7,369.8774	0.4412	0.3366	7,481.2163
Waste											177.3410	0.0000	177.3410	10.4806	0.0000	439.3549
Water											37.9890	0.6990	38.6881	0.1308	0.0826	66.5758
Total											215.3301	7,393.7449	7,609.0750	11.0716	0.4192	8,010.7917

	ROG	NOx	CO	SO2	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	0.11	0.11	0.00	0.00	0.10

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/12/2037	11/12/2037	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 3,589,920; Residential Outdoor: 1,196,640; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Architectural Coating	1	226.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total											0.0000	0.1277	0.1277	0.0000	0.0000	0.1278

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3.2 Architectural Coating - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.5720	0.5720	1.0000e-005	1.0000e-005	0.5758
Total											0.0000	0.5720	0.5720	1.0000e-005	1.0000e-005	0.5758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	0.1277	0.1277	0.0000	0.0000	0.1278
Total											0.0000	0.1277	0.1277	0.0000	0.0000	0.1278

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3.2 Architectural Coating - 2037

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
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.5720	0.5720	1.0000e-005	1.0000e-005	0.5758
Total											0.0000	0.5720	0.5720	1.0000e-005	1.0000e-005	0.5758

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	7,369.8774	7,369.8774	0.4412	0.3366	7,481.2163
Unmitigated											0.0000	7,369.8774	7,369.8774	0.4412	0.3366	7,481.2163

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,517.64	8,359.78	6449.56	17,288,249	17,288,249
Apartments Mid Rise	2,529.60	2,283.15	1901.85	5,553,946	5,553,946
Single Family Housing	1,472.64	1,488.24	1333.80	3,360,558	3,360,558
Total	11,519.88	12,131.17	9,685.21	26,202,752	26,202,752

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	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.555274	0.059572	0.187289	0.120548	0.022031	0.005855	0.011319	0.007376	0.000945	0.000497	0.025792	0.000881	0.002622
Apartments Mid Rise	0.555274	0.059572	0.187289	0.120548	0.022031	0.005855	0.011319	0.007376	0.000945	0.000497	0.025792	0.000881	0.002622

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	7.14069e+006	6.4779	0.0000	0.0000	6.4779
Apartments Mid Rise	2.94012e+006	2.6672	0.0000	0.0000	2.6672
Single Family Housing	2.43946e+006	2.2130	0.0000	0.0000	2.2130
Total		11.3582	0.0000	0.0000	11.3582

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.99939e+006	1.8138	0.0000	0.0000	1.8138
Apartments Mid Rise	823234	0.7468	0.0000	0.0000	0.7468
Single Family Housing	683049	0.6197	0.0000	0.0000	0.6197
Total		3.1803	0.0000	0.0000	3.1803

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644
Unmitigated											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644
Total											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644
Total											0.0000	19.9883	19.9883	0.0190	0.0000	20.4644

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	38.6881	0.1308	0.0826	66.5758
Unmitigated	38.7310	0.1308	0.0826	66.6188

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	66.9132 / 42.1844	24.1364	0.0815	0.0515	41.5155
Apartments Mid Rise	30.2966 / 19.1	10.9284	0.0369	0.0233	18.7972
Single Family Housing	10.164 / 6.40776	3.6663	0.0124	7.8200e-003	6.3062
Total		38.7310	0.1308	0.0826	66.6188

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	66.9132 / 33.7475	24.1096	0.0815	0.0515	41.4887
Apartments Mid Rise	30.2966 / 15.28	10.9162	0.0369	0.0233	18.7850
Single Family Housing	10.164 / 5.12621	3.6622	0.0124	7.8200e-003	6.3021
Total		38.6881	0.1308	0.0826	66.5758

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	177.3410	10.4806	0.0000	439.3549
Unmitigated	177.3410	10.4806	0.0000	439.3549

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	472.42	95.8970	5.6674	0.0000	237.5807
Apartments Mid Rise	213.9	43.4198	2.5660	0.0000	107.5706
Single Family Housing	187.32	38.0243	2.2472	0.0000	94.2035
Total		177.3410	10.4806	0.0000	439.3549

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	472.42	95.8970	5.6674	0.0000	237.5807
Apartments Mid Rise	213.9	43.4198	2.5660	0.0000	107.5706
Single Family Housing	187.32	38.0243	2.2472	0.0000	94.2035
Total		177.3410	10.4806	0.0000	439.3549

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
